Sizewell C Project

Site Condition Report

NNB Generation Company (SZC) Ltd. Registered in England and Wales. Registered No. 09284825. Registered Office: 90 Whitfield Street, London, W1T 4EZ.

Contents

1. Introduction and Site Details 1
1.1 Purpose of this report 1
1.2 Installation Details 3
1.3 Installation Overview 3
1.4 Installation Activities 4
2. Conditions of the Land at Permit Issue 5
3. Permitted Activities 16
4. Changes to the Activity 25
5. Measures Taken to Protect Land 26
6. Pollution Incidents That May Have Had an Impact on Land, and Their Remediation 26
7. Soil Gas and Water Quality Monitoring (Where Undertaken) 26
8. Decommissioning and Removal of Pollution Risk 27
9. Reference Data and Remediation (Where Relevant) 27
10. Statement of the Site Condition 27

Appendices

Appendix 1: Figures 28
Appendix 2: Baseline Data 29
Appendix 3: Environmental Risk Assessment 30
Appendix 4: SZC Raw Materials Assessment 35
Appendix 5: Relevant Hazardous Substances Risk Assessment 39

1. Introduction and Site Details

1.1 Purpose of this report

1.1.1 This document represents the Site Condition Report (SCR) for the back-up diesel generators for the proposed Sizewell C (SZC) power station development located near Sizewell to be owned and operated by NNB Generation Company (SZC) Limited (SZC Co.). SZC will consist of two European Pressurised Water Reactor (EPR) units referenced in this SCR as Unit 1 and Unit 2.

1.1.2 The development (hereafter referred to as the installation is not yet constructed, however the information presented in this report is broadly consistent with that detailed in the Generic Design Assessment Pollution Prevention and Control Application, produced by EDF with deviations clearly stated. The only parts of the site identified as being an installation subject to permitting as part of the Environmental Permitting (England and Wales) Regulations 2016, as amended (known as the "EP Regulations") are the diesel generators comprising of 4 No. essential diesel generators (EDGs) and 2 No. ultimate diesel generators (UDGs) for each UK EPR unit, as the total thermal input of these combustion plants will exceed 50MW. An application for a permit to operate is being made under the Environmental Permitting (EP) Regulations (2016, as amended). The activities undertaken at the installation constitute a regulated activity, as defined in Section 1.1, Part A(1), Paragraph (a) of Schedule 1 to the EP Regulations as "Burning any fuel in an appliance with a rated thermal input of 50 megawatts or more".

1.1.3 The overall purpose of the SCR is to describe and record the condition of the land and groundwater at the location of the proposed installation at the point of application for an environmental permit. The SCR is designed to be a live document which is maintained throughout the lifetime of operation of an installation, from permit application to permit surrender. It provides a centralised source for relevant data and site records; such as ongoing environmental and/or infrastructure monitoring/testing carried out during the lifetime of the installation. Any remedial works required following the accidental release of potentially polluting substances to the land during the permitted operations will also be documented and referenced in the SCR. Future updates of the SCR will include information from various complementary studies.

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1.1.4 At the point of permit surrender, a surrender SCR must be produced to demonstrate that the site is in a satisfactory state so that the Environment Agency can allow the permit to be surrendered. This allows a comparison to be made with the condition of the land prior to and during the permitted operations and post operation at the point of permit surrender. It should be noted that the scope of this SCR is limited to non-radiological contamination.

1.1.5 The report is structured as per Section 2.0 of the SCR template provided in Environment Agency horizontal guidance note H5: "site condition report (guidance and templates) v3.0 April 2013". In accordance with the H5 guidance, Sections 1 to 3 have been completed for the permit application stage; Sections 4 to 7 are required to be maintained by SZC Co. during the lifetime of the installation; and Sections 8 to 10 are required to be completed as part of an application to surrender an environmental permit. The sections of the report are summarised below.

Environmental Permit Site Condition Report		
Permit Application Stage (Current Stage)	Section 1	Introduction and Site Details
	Section 2	Condition of the Land at Permit Issue
	Section 3	Permitted Activities
Operational Phase (To follow issue of an Environmental Permit)	Section 4	Changes to the Activity
	Section 5	Measures taken to Protect the Land
	Section 6	Pollution Incidents that may have had an impact on the Land, and their Remediation
	Section 7	Soil Gas and Water Quality Monitoring
Permit Surrender Application Stage	Section 8	Decommissioning and Removal of Pollution Risk
	Section 9	Reference Data and Remediation
	Section 10	Statement of the Site Condition

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1.2 Installation Details

Details of the Installation	
Name of Applicant	NNB Generation Company (SZC) Limited (SZC Co.).
Activity Address	Sizewell C Power Station Leiston IP16 4UR
National Grid Reference	TM 47270, 64145
Document References for Installation Plans	Figure 1: Site Location Plan Figure 2: Proposed Installation Boundary Figure 3: Diesel Generator Building Layout Figure 4: Human Receptors Figure 5: International Designated Habitat Receptors Figure 6: National Designated Habitat Receptors

1.3 Installation Overview

1.3.1 The installation is located in Sizewell, approximately 3 km west of the town of Leiston. The surrounding land use is a mixture of industrial and agricultural land. The site location plan is shown in Figure 1 in Appendix 1. The immediate neighbouring land includes:

- The installation is bound to the north by agricultural land;
- The installation is bound to the **south** by Sizewell B (SZB) power station;
- The installation is bound to the **west** by a car park and agricultural land; and
- The installation is bound to the **east** by Greater Sizewell Bay (beyond the North Sea).

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1.3.2 The nearest residential properties are approximately 1km south (village of Sizewell) and 3km to the west (town of Leiston). The human receptors are shown in Figure 4 in Appendix 1.

1.3.3 The installation is located on the Suffolk Heritage Coast within the Suffolk Coast and Heaths Area of Outstanding Natural Beauty. Greater Sizewell Bay is located immediately to the east. The Sizewell Marshes, a Site of Special Scientific Interest (SSSI) is located adjacent to the west and north west of the installation comprising ponds and drainage ditches. Leiston Beck is located adjacent to the west of the installation, which then joins the Minsmere, approximately 2km north. The Minsmere-Walberswick Heaths and Marshes SSSI, a Special Area of Conservation (SAC), Special Protected Area (SPA) and Ramsar site is located adjacent to the north of the wider SZC power station site boundary. The ecological receptors are shown in Figures 5 and Figures 6 in Appendix 1.

1.4 Installation Activities

1.4.1 The SZC Co. facility at Sizewell is a proposed facility for a new nuclear power station to be situated directly to the north of the existing SZB power station.

1.4.2 The back-up diesel generators associated with the proposed SZC power station development fall within the EP Regulations. The installation to which the environmental permit will apply therefore comprises the twelve diesel generators, their associated fuel storage tanks and interconnecting pipework, all of which will be housed within four purpose-built concrete buildings within the SZC power station site. The diesel generators would be routinely operated for maintenance purposes and during periodic nuclear safety tests.

1.4.3 Consequently, there are a total of four installation areas and the proposed installation boundaries are provided as Figure 2 in Appendix 1. The layout of the diesel generator buildings is shown in Figure 3 in Appendix 1. The four installation areas are located within the SZC power station site. The site as discussed in this report refers to the wider SZC power station site boundary.

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2. Conditions of the Land at Permit Issue

Condition of the Land at Permit Issue	
Environmental Setting	
Geology	Geological mapping indicates various superficial deposits located beneath the installation. Peat is recorded to be present underlying the two central installations, Tidal Flat Deposits (clay and silt) are recorded present underlying the most northern installation and superficial deposits are recorded as absent from the most southern installations. The solid geology mapping indicates that the installations are located upon the Crag Group (Sand), which is further underlain by White Chalk. Intrusive investigations have been undertaken as part of the design process for SZC. Ground investigations where undertaken in 2009 by Structural Soils Ltd (Ref: 722201 dated March 2009) and in 2011 by Environmental Services Group Limited (ESG) (Ref: A0012-10/1 dated August 2011). The Atkins Phase 2 Geo-Environmental Interpretive Report 2018 (Ref: 5166065/7.1/001/001/00/A dated June 2018) summaries the investigations carried out across the wider SZC site and in the vicinity of the four installations and is provided in Appendix 2. The findings are summarised below: **Topsoil** Topsoil including ploughed soil in the southern section of the wider site was encountered in exploratory holes and comprised either brown orange silty or clayey sand or fine to medium grained sand. The layer generally included rootlets, with a low content of gravels or anthropogenic material. The thickness of this stratum ranged from 0.1m up to 0.8m in the southern section of the zone. **Made Ground** Made Ground was encountered in the majority of exploratory hole locations. Reportedly, the ground surface was raised with surplus spoil from the construction of Sizewell A (SZA) between 1964 and 1971. Reworked natural deposits were encountered within a number of exploratory holes from ground surface to between 3.6m and 7.0m below ground level (bgl) which comprised either brown silty sand/sandy loam, brown to orange brown sand with occasional to frequent rootlets or brown/orange slightly gravelly sand with roots. Reworked sands were also encountered described as grey gravelly

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Condition of the Land at Permit Issue	
	sand with organic and hydrogen sulphide odours and sub-angular to angular gravel and grey sand. **Marine Deposits** Marine Deposits were encountered from 6.0m bgl up to depths of 12.7m bgl across the northern and central sections of the site and in one location within the southern section of the site. The Marine Deposits generally comprised rounded to sub-angular orange gravel with a varying content of medium to coarse-grained sands. **Alluvium and Peat** Alluvium was encountered at depths of between 3.6m and 7.0m bgl within a number of locations across the site, overlain by Made Ground or Marine Deposits. The Alluvium contained varying amounts of brown or dark yellow fibrous, slightly silty peat, interbedded with a grey sandy clay or clayey silt. **Crag Group (Sand)** The solid strata of the Crag Group (Sand) was encountered at depths of between 6.0m and 9.9m bgl in the central and northern sections of the site and at a shallow depth of 0.15m bgl in the southern section of the site underlying the superficial deposits. The Crag Group (Sand) generally consisted of either orange or grey silty sand with occasional subangular to rounded flint gravel. Clasts of grey clayey sand were encountered in several boreholes, in addition to shell fragments. The base of the Crag Group (Sand) was not proven (maximum depth proven was 23m bgl during installation of groundwater monitoring standpipes). As part of the construction of the proposed SZC power station development, a cut off wall will be installed, and a cut and fill exercise will be undertaken whereby the superficial material listed above (Topsoil, Made Ground, Marine Deposits and Alluvium and Peat) will be excavated down to the Crag Group (Sand). The deficit will then be filled with Crag Group (Sand) sourced from borrow pits in an area primarily located within the north-west of the site, known as the Temporary Construction Area (TCA). The TCA is bounded by the Sizewell Marshes SSSI to the south, the Minsmere Levels to the north, the B1122 to the west and the Suffolk coast to the east. As such, the SCR will only be based upon the Crag Group (Sand) and the condition of the fill material from the TCA. This material will be validated before being placed, as detailed in the following sections.

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Condition of the Land at Permit Issue	
Hydrogeology	Groundwater vulnerability mapping indicates that the site and installations are underlain by a Secondary A Aquifer associated with the Superficial Deposits. Secondary A Aquifers are defined as permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. The Crag Group (Sand) is classified as a Principal Aquifer which is defined as layers of rock or drift deposits that have high intergranular and/or fracture permeability - meaning they usually provide a high level of water storage. They may support water supply and/or river base flow on a strategic scale. The Crag Group (Sand) is underlain by the Chalk which is classified as a Principal Aquifer. The soils underlying the majority of the site are identified as having high permeability, with the exception of the peat deposits, which are identified as having intermediate leaching potential. As identified above a cut off wall will be installed, and the superficial material will be removed down to the Crag Group. Groundwater was encountered underlying the installations within the Made Ground, Peat, Lowestoft Formation (sand and gravel), Crag and Chalk with levels varying between 0.9m and 7.8m bgl. However, this may alter with the installation of the cut off wall. Currently, the Made Ground is considered to be in partial hydraulic continuity with the underlying natural strata. No tidal variation was observed in the Peat. There is a hydraulic separation of the low vertical hydraulic conductivity deposits including Peat, Alluvium and Tidal Flats with the Crag Sand. The Crag Sand Formation is influenced by tidal variation of sea level. The Crag Sand Formation and Chalk are currently in hydraulic continuity. Groundwater flow within the Crag Group (Sand) was found to be primarily towards the coast, with localised groundwater flow occurring to the north and south. During periods when high water levels were recorded across the monitoring network, groundwater levels were noted to be significantly elevated relative to the surrounding area. The higher water levels may be a result of the SZB cut-off wall to the south causing water levels to rise locally, or it may be a result of Made Ground causing delayed recharge to the underlying Crag Group (Sand) aquifer. During lower water levels, a slight dip in groundwater levels was noted, suggesting that the main Leiston Beck / Sizewell Drain may be receiving groundwater baseflow.

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Condition of the Land at Permit Issue	
	The site and installations are not located within a listed groundwater Source Protection Zone (SPZ). There are twenty groundwater abstractions within 1km of the installation with the closest being a groundwater abstraction point at SZB power station adjacent to the south of the site for make-up/top-up water from the Marine Deposits. The abstraction licence/permit is operated by British Energy Generation Ltd. with a start date of 31 December 1998 (the permit end date is not supplied and it is assumed to be active). It is noted that this information was obtained in 2012 and new abstractions or changes to the details above may have occurred in the intervening period. Further hydrogeological information is present within Atkins Sizewell Site C Conceptual Site Model of the Hydrogeological Regime (Ref. 5129919/TR/001 dated June 2015).
Surface Waters	The main surface water feature within 1km of the site is the coastal water of Greater Sizewell Bay located adjacent to the east and a series of surface features located to the west and north west of the site. These include an extensive network of ponds and drainage ditches, referred to as the Sizewell Belts located adjacent to the west and north - west of the site. Leiston Beck, located adjacent to the west of the site, receives drainage from the Sizewell Belts and runs north, parallel with the coast, before joining the Minsmere New Cut, a large watercourse flowing west to east discharging to the sea via a sluice gate known as 'The Sluice', approximately 2km north. The site and installations are located within an area at risk of flooding (Flood Risk 3) as a result of rivers or seas without defences. The site will be protected against flooding from the sea by its elevation. This elevation of the platform on which the plant is to be constructed, will be created at 7.3 AOD. Although it will not ensure a dry site under all conditions, the elevation was determined as a solution that is as low as reasonably possible (ALARP). A Flood Risk Assessment has been undertaken, which took into consideration changes in extreme high water levels due to reasonably foreseeable climate change through to the end of the station operational lifetime assessed using UK Climate Projections (UK CP09) 10,000 year return period at 95% confidence level. The site also benefits from drainage arrangements and buildings are designed so that standing water does not enter buildings. There are 63 discharge consents within 1km of the installation. One of the discharge consents is located on the installation area for sewage discharges of trade effluent associated with the existing power station activities. The majority of the discharge consents relate to processes being undertaken at the

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Condition of the Land at Permit Issue	
	existing power station including cooling water, process water, site drainage and treated effluent discharges to Greater Sizewell Bay and Leiston Beck. There are also several consents for sewage discharges from Leiston Sewage Works and consents for the discharge of trade effluent by Suffolk Water Company into Leiston Beck. It is noted that this information was obtained in 2012 [2] and new discharge consents or changes to the details above may have occurred in the intervening period. Surface water samples were collected by AMEC between 2011 and 2013 and Atkins from 2013 to present. Over 500 surface water samples were collected from a series of interconnecting drainage ditches located on-site and, in the area, upstream and downstream of the site including Leiston Drain, SSSI drains, unnamed watercourses and Sizewell Drain were collected and tested. Further information on surface water sampling is presented in Atkins Phase 2 Geo-Environmental Interpretive Report 2018 (Ref: 5166065/7.1/001/001/00/A dated June 2018).
Sensitive Land Uses	The site is located within a Nitrate Vulnerable Zone. The installation is located on the Suffolk Heritage Coast within the Suffolk Coast and Heaths Area of Outstanding Natural Beauty. Sizewell Marshes are a SSSI located adjacent to the west and north west of the installation comprising ponds and drainage ditches. The Minsmere-Walberswick Heaths and Marshes located 2km north of the installation are a SSSI, a SAC, SPA and Ramsar site. The nearest residential property is located 1km south of the installation (village of Sizewell).
Pollution History	
Pollution incidents that may have affected the land	The Landmark Envirocheck Reports dated 2012 indicate that there have been 30 recorded pollution incidents within 1km of the site including incidents relating to oils, chemicals, organic wastes, crude and storm sewage and naturally occurring pollutants. Several of the incidents relate to pollution of Greater Sizewell Bay from activities associated with the existing power station. The remaining incidents involve Leiston Beck and its tributaries. The closest pollution incident was recorded at the installations in 1993 relating to entry of an unknown pollutant into Leiston Beck, listed as a Category 3 (minor) incident. It is noted that this information was obtained in 2012 and additional pollution incidents may have occurred in the intervening period.

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Condition of the Land at Permit Issue	
	The Envirocheck report shows a number of pollution incidents have occurred within 1km of the site which relate to oils, chemicals, organic wastes, crude and storm sewage and naturally occurring pollutants.
Permits and Consents	The Envirocheck report indicates there are no Environmental Permits, Explosive Sites, Notification of Installations Handling Hazardous Substances, Hazardous Substance Consents and Registered Radioactive Substances on or within 500m of the site. However, it is noted that the existing SZB power station is a licenced nuclear site to the south of the site. Two registered landfills and three historical landfill sites are present within 2km of the site. The nearest of these is a registered landfill site located 200m south of the installations. There are no identified restrictions on the source of waste received by the landfill. The dates of operation of the landfill are not provided and the status of the licence is listed as lapsed. The other registered landfill is located approximately 2km to the south of the installations. The landfill was operational from June 1977 and there is no identified restriction on the source of waste received by the landfill. The status of the licence is listed as lapsed/cancelled or surrendered. The historical landfills are located approximately 2km from the installations.
Historical land-uses and associated contaminates	The Atkins Phase 2 Geo-Environmental Interpretive Report 2018 (Ref: 5166065/7.1/001/001/00/A dated June 2018) summaries the history of the site, referring to Envirocheck Reports, in which the site and installations are located and is provided in Appendix 2. From 1883, the installation locations are recorded as open fields with drains running across the wider site area. An old drainage pump is also located in the north and centre of the site in close proximity to the installation locations. Sand pits are located in the approximate vicinity of the most southern installation. The TCA comprises open fields, farmland, marshland and woodland in 1883. Several roads and tracks are present transecting this area Lover's Lane and Abbey Road. Drains and a Sand Pit are present in the east of the TCA around Goose Hill. Several other areas which appear to be pits are present in the centre of the TCA around Upper Abbey. By publication of the 1905 map, a wind pump is recorded present in the north-east of the site and to the east of the most northern installation. Between 1928 and 1958 a rifle range is labelled in the area of the central installation. A wind pump is present adjacent to Upper Abbey in the west of the TCA. Mapping from 1976 reveals earthworks in the south of the site suggesting that the site has been raised with SZB now present. There are also a number of tracks on a grid crossing the site and the area to the immediate south of the site.

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Condition of the Land at Permit Issue	
	The rifle range is no longer shown. There is a sewage works (Leiston Sewage Treatment Works) to the west of the site. The Sand Pit and other unnamed pits in the TCA are now labelled as 'Pit (disused)'. By the publication of the 2006 map, SZB power station has been developed further north and has encroached onto the southern section of the site. **Potential On-Site Sources of Contaminants** • Former rifle range located in the centre of the site and central installation (potential inorganic and organic contamination including metals and hydrocarbons). • Possible Made Ground across the site including beneath the installations (associated with construction of SZB, former contactors compound, soil disposal and construction waste) (potential inorganic and organic contamination including metals, hydrocarbons, PCBs, asbestos, etc.). • Drainage channels (potentially infilled) and wind pumps (potential inorganic and organic contamination including metals and hydrocarbons). • Discharge Consents for sewage discharges associated with the existing power station activities. Activities relating to the former contractors' compound on the site for SZB including possible storage areas, fabrication areas, lagoons, stone washing / concrete batching area, etc. • Former infilled sand pits and unnamed pits (risk of inorganic and organic contamination including metals, hydrocarbons, etc.). • Made Ground associated with the construction of roads crossing the site as well as activities associated with their operation (potential inorganic and organic contamination including metals and hydrocarbons). **Potential Off-Site Sources of contaminants** • Leiston sewage treatment works located on the western boundary of the site, approximately 50m from the installations (potential metals, organic contaminants including biological contaminants).

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Condition of the Land at Permit Issue	
	• Discharge Consents for cooling water, process water, site drainage and treated effluent discharges to Greater Sizewell Bay and Leiston Beck. • Car park located on western edge of the site and approximately 50m from the installations (potential fuels and oils attributed to spills from vehicles, plus exhaust particulates. A range of inorganic and organic contaminants). • Activities associated with the operation of SZA and SZB power stations including the use of associated infilled materials, and migration of contaminated groundwater onto the site (risk of contamination from fuel oil contamination and PCBs). • Infilled sand pits within 500m of the installations and site (risk of inorganic and organic contamination including metals, hydrocarbons, PCBs, etc.).
Visual/olfactory evidence of existing contamination	The site, at the time of writing, is largely open field with some building and hardstanding associated with SZB, which are due to be relocated. There was no visual or olfactory evidence of contamination noted in the areas accessed during the walkover in 2015. However, an area of Made Ground was noted in the field in the north-east of the site and areas of fly-tipping comprising plastic, rubber, wood and metal were noted in the north-west corner of the site. This Made Ground will be removed when the material above the Crag Group (Sand) is excavated and additional Crag Sand is filled in its place. No other visual or olfactory evidence of contamination was recorded during the ground investigations with the site.
Evidence of damage to pollution prevention measures	The installation is not yet constructed, and detailed design is still to be confirmed. The outline design of pollution prevention measures for the installation is discussed in Section 3 under permitted activities and in the SZC combustion activities environmental permit application.
Evidence of historical contamination (e.g. historical site investigation assessment, remediation and	The site has been subjected to previous intrusive soil and groundwater investigations and no contamination requiring remediation has been identified during these ground investigations. The Atkins Phase 2 Geo-Environmental Interpretive Report 2018 (Ref: 5166065/7.1/001/001/00/A dated June 2018) summaries the investigations carried out across the SZC site and in the vicinity of the four installations and TCA and is provided in Appendix 2.

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Condition of the Land at Permit Issue	
verification reports if available)	It should be noted that the soil and ground water investigations have not specifically covered the area underneath the installations. In addition, the ground investigations were mainly undertaken to provide geotechnical information and limited contamination test data are available for the site. In addition, as part of the construction of the proposed SZC power station development, a cut off wall will be constructed, and a cut and fill exercise will be undertaken whereby the superficial material will be excavated down to the Crag Sand and replaced with Crag Sand sourced from another area of the site. The following exploratory holes in close proximity to the installations could provide an initial baseline for the installation areas, prior to more appropriate exploratory holes being completed. However, groundwater data is unavailable for the majority of these exploratory holes (in addition these materials will be excavated, and the groundwater regime will be altered by the cut off wall): • Unit 1 North: BH22 and BH17; • Unit 1 South: BH32A and BH33; • Unit 2 North: GW7 and BH37; and • Unit 2 South: BH14. The additional Crag Sand that will be imported to the site from the TCA will be validated before it is placed to identify any contaminants within it. Leachate data has been obtained for this material in previous ground investigations, as outlined below. The Atkins Phase 2 Geo-Environmental Interpretive Report 2018 (Ref: 5166065/7.1/001/001/00/A dated June 2018) recommends further limited ground investigation across the site and within the installations. Recommendations include additional chemical testing of soil, leachate, surface water and groundwater samples and monitoring of new and existing boreholes (where present) to provide updated information in relation to groundwater.
Baseline soil and groundwater reference data	Baseline soil and groundwater condition data for the site of SZC power station is presented in Chapter 18, Volume 2 of the Environmental Statement and in the Atkins Phase 2 Geo-Environmental Interpretive Report 2018 (Ref: 5166065/7.1/001/001/00/A dated June 2018), which are included in Appendix 2.

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Condition of the Land at Permit Issue	
	These soil and ground water investigations have not specifically covered the area underneath the installations and were mainly undertaken to provide geotechnical information with limited contamination test data available for the site. In addition, as part of the construction of the proposed SZC power station development, a cut off wall will be installed, and a cut and fill exercise will be undertaken whereby the superficial material will be excavated down to the Crag Sand and replaced with Crag Sand sourced from another area of the site. The Crag Sand has been tested for their leachability of contaminants, however no soil data is available for this material. Therefore, in areas of the installations where no baseline data has been collected to date, and where SZC Co. considers that baseline data is required, further investigation will be undertaken, predominantly to validate the Crag Sand at the site (verification testing of imported materials for the potential contamination sources that are present). This will form part of the FAP (Refer to Section 6 of the SZC combustion activity permit application – FAP Ref. 4i). The investigation will be carried out upon finalisation of the site layout and during excavations completed during the construction phase and closer to the start of the permitted operations. The results of this investigation will be incorporated into future versions of the SCR. A summary of the soil and groundwater investigations completed to date is provided below: • Soil sampling and chemical analysis has been undertaken at the site during site investigations by Structural Soils Ltd, (Ref: 722201 dated March 2009), ESG (Ref: A0012-10/1 dated August 2011) and Structural Soils Ltd (ref, 734318, dated January 2020 including samples from the Crag Sand. The suite of chemical analysis included pH, sulphide, metals, cyanide, ammonium, Polycyclic Aromatic Hydrocarbons (PAH), Total Petroleum Hydrocarbons (TPH), phenol, benzene, toluene, ethylbenzene and xylene (BTEX), VOCS, Semi-volatile Organic Compounds (SVOCs), polychlorinated biphenyls (PCBs), Organochlorine Pesticides (OCP), Organochlorine Pesticides (OPP) and asbestos. • Monthly monitoring of groundwater has been undertaken by AMEC between 2011 and 2013 and Atkins from 2013 to present. Over 400 groundwater samples were collected from monitoring boreholes located within the site and wider area. Water samples were tested for a suite of pH, ammonia, ammonium, hardness,

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Condition of the Land at Permit Issue	
	chloride, nitrate, cyanide, metals, PAHs, BTEX, TPHs, PCBs, VOCs, SVOCs and phenols. • Monthly monitoring of surface water has been undertaken by AMEC between 2011 and 2013 and Atkins from 2013 to present. Over 500 surface water samples were collected from a series of interconnected drainage ditches located within the site and in the area upstream and downstream of the site (note: there is no surface water within the installation). Water samples were tested for a suite of pH, ammonia, ammonium, hardness, chloride, nitrate, cyanide, metals, PAHs, BTEX, TPHs, PCBs, VOCs, SVOCs and phenols.
Supporting Information	The information provided in this section of the SCR is based on the following documents. • Landmark, Envirocheck Report, July 2012. CN6 Lovers Lane (North) (Ref: 40136387_1_1, 40137381_1_1, 40138928_1_1, 40144528_1_1, 40144706_1_1, 40144960_1_1, 40146010_1_1). • Structural Soils Ltd, March 2009. Factual Report on Supplementary Ground Investigation at Proposed Nuclear Development at Sizewell 'C' (Ref: 722201). • Structural Soils Ltd, January 2020, Interim Factual Report on Ground Investigation for the period between 8 July to 12 January 2020 (Ref, 734318). • AMEC, February 2010. Desk Based Assessment for Sizewell EPR Site. • AMEC, July 2010. Radiological survey report for Sizewell C. • AMEC, 2011. Groundwater Level Monitoring for Period 5 April 2011 to 30 June 2011 (First Interim Factual Report). • AMEC, 2011. Groundwater Level Monitoring for Period 1 July 2011 to 21 December 2011 (Second and Third Interim Factual Report). • ESG, August 2011. Onshore Investigations Phase 1 for Sizewell Site. Factual Report on Ground Investigation. • AMEC, 2012. Sizewell EPR - Ground Gas Risk Assessment (Campaigns 1 - 7).

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Condition of the Land at Permit Issue	
	• AMEC, 2012. UK EPR Sizewell C – Summary of Groundwater Quality (Campaigns 1 – 6). • AMEC, September 2014. Sizewell EPR – Preliminary Phase 2 Contamination Assessment. • Atkins, August 2018, Sizewell C – Phase 2 Geo-Environmental Interpretative Report (Ref: 5166065/7.1/001/001/00/A). • Atkins, June 2015. Sizewell Site C – Site Model of the Hydrogeological Regime.

3. Permitted Activities

Permitted Activities	
Permitted Activities	The two UK EPRs will be constructed to the same design specifications. The UK EPRs are referenced as Unit 1 and Unit 2, with Unit 1 located in the east of the site and Unit 2 in the west of the site. Each UK EPR is served by 4 No EDGs and 2 No UDGs located within two purpose-built buildings. A total of four discrete concrete buildings, each containing two EDGs and one UDG, form the installation and these are shown on Figure 2 as Areas 1 to 4. The installation boundary is currently limited to the extent of these four buildings, however this may be subject to amendment as the detailed design progresses, and in consultation with the Environment Agency. The eight EDGs are identical diesel generators which can provide sufficient generating capacity to restore power supply to the UK EPRs in the event of loss of off-site power. The four UDGs are identical and can provide sufficient power, in the event of a total loss of external electrical sources and of EDGs to supply all required equipment at a suitable voltage. As noted above there are four diesel generator buildings within the installation and each contains the following plant: • Two EDGs each with one bulk fuel storage tank of 226m^3 capacity, one day tank of 5m^3 capacity, and associated ancillary equipment including delivery pipes and fuel pumps; and • One UDG with one bulk fuel tank of 137m^3 capacity, one day tank of 3m^3 capacity, and associated ancillary equipment including delivery pipes and fuel pumps.

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Permitted Activities	
	This gives a total fuel oil holding capacity of 742m^3 for each UK EPR and a total of 1,484m^3 for the installation. During routine testing diesel will also be used with up to 240m^3 of diesel per year per EDG and up to 56m^3 of diesel per year per UDG, based on a 2 hour test of every engine every 2 months. If there is a loss of off-site power then the fuel consumption will be much higher. As noted above all of the fuel tanks will be located inside the same buildings as the generators. The detailed design of the tanks and their layout inside the buildings is not yet known (discussed further under bulk fuel storage and secondary containment). The proposed layout of the diesel generator buildings and fuel tanks are in Figure 3. Each diesel generator building will be constructed to form a bund and any spills would be captured in sumps and pumped out and disposed off-site at a licensed waste facility. There will be no direct connection to the site's surface water drainage system. Lubricating oil will be contained within the diesel generators; 10,560kg per EDG and 1,000kg per UDG (assuming that there is no loss of off-site power). No other storage of lubricating oil will take place within the installation other than during maintenance activities when used oil will be drained from the diesel generators and fresh oil added as required. The storage of these materials will take place outside the installation boundary within the wider SZC power station in a suitable oil storage area with secondary containment. The EDGs and UDGs will be cooled by demineralised water, containing anti-freeze in re-circulating systems. Storage of antifreeze will take place outside the installation boundary within the wider SZC power station in a suitable chemical storage area. The cooling systems will be initially filled with an approximate volume of 88m^3 of monoethylene glycol for each of the UK EPR unit (14.2m^3 per EDG and 15.8m^3 per UDG of 50:50 water and glycol). After this, usage will be restricted to loss and/or replacement. The total system volume will be replaced every 3 or 4 years as antifreeze and anticorrosion chemicals decompose over time. Cooling mixture drained from the cooling circuits during maintenance will be collected in a suitable container and disposed of at a licensed waste facility. Batteries will be used for the start-up and to power the UDG regulators and air compressors. The demand for replacement batteries will be determined by the manufacturer's recommendations; as an estimate the batteries will be replaced annually (to ensure they continue to hold/provide power). On this basis, 4 batteries per UDG may be required per year.

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Permitted Activities	
	The drainage system will allow the capture and testing of any potentially contaminated run-off from the process. This could include traces of anti-freeze solution or fuel or oil from the generators or storage tanks within the concrete diesel generator buildings. The bunds and/or any associated sumps will be routinely checked for antifreeze, oil and fuel, and if any are found then these will be removed by pumping out to a suitable container and disposed of at a licensed waste facility. A summary of the measures to be employed at the site to prevent pollution is provided below by installation activity. **Bulk Fuel Storage and Secondary Containment** The detailed design of the fuel storage facilities is not yet known, however, it is planned that all tanks will be located within the diesel generator buildings in bunded rooms. The pollution prevention measures for fuels and oils stored and handled at the installation will be of a standard which complies with or exceeds the relevant standards applicable at the time of construction. The Control of Pollution (Oil Storage) (England) Regulations 2001 (the Oil Storage Regulations) currently set out the measures operators storing more than 200 litres of oil must take to prevent oil leaks and spills to the environment. These regulations apply to external tanks, however, tanks within a building are not currently covered by the regulations. The Construction Industry Research and Information Association (CIRIA) advice (C736 containment systems for the prevention of pollution - secondary, tertiary and other measures for industrial and commercial premises and C741 environmental good practice on site guide) will also be followed where relevant for pollution prevention measures. Current guidance for above ground oil storage in bulk tanks is published by the Environment Agency as oil storage regulations for businesses (updated 3 January 2018) 'How to store oil, design standards for tanks and containers, where to locate and how to protect them, and capacity of bunds and drip trays'. In accordance with these guidelines SZC Co. will make provision for the following in the design and construction of the installation: • That safe access to the tanks is possible for maintenance; • Areas where oil storage is undertaken are surfaced with material which is impermeable to the substances stored and isolated from surface water drainage systems; • Tanks comply with BS 5410 and are of sufficient strength and structural integrity so that they are unlikely to leak during normal operations, are positioned on appropriately designed and constructed supports, and if possible, have a design life of twenty years;

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Permitted Activities	
	• Tanks are type tested to a recognised standard under a quality assurance system complying with BS EN ISO 9001:2000*, and steel tanks comply with BS 799-5:2010*; • Installation of tanks is carried out by technicians registered with a professional scheme such as that operated by Oil Firing Technical Association (OFTEC); • Tanks and their ancillary equipment (such as sight gauges, valves and vent pipes) are situated within an oil tight secondary containment system such as a bund; • Shut-off valves will be installed at extended fill points, drip trays or other containment systems will be present at fill points, and remote fill points will be avoided where possible (if used they will comply with BS 799-5:2010*); and • Fixed pipework will be above ground where possible and where this is supplying oil to fixed appliances will comply with BS 5410. * *The primary and secondary containment measures will be compliant with these standards or future amendments/standards valid at the time of construction.* Use of devices such as high level alarms to prevent overfilling will be employed in bulk tanks as this is current best practice. An automatic overfill prevention device will be required if the tank and vent pipe cannot be seen from where the filling operation is controlled. Building Regulations will also stipulate requirements for the diesel tanks and generator buildings. It is not known whether the bulk fuel tanks will be standalone tanks or hydraulically linked, however a general rule for secondary containment is that it is adequate to contain 110% of the tank capacity or a minimum of 25% of the total capacity of several tanks within a bunded area. Secondary containment will be designed to meet or exceed this capacity requirement. Bulk tanks at the installation will benefit from being located within a building offering protection from weather and avoiding rainwater ingress. Secondary containment will comply with the Construction Industry Research and Information Association (CIRIA) advice where relevant. **Fuel Pumps and Delivery Pipes** Fuel pumps will either be located such that any leaks can be captured in the secondary containment serving the tanks or alternative secondary containment

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Permitted Activities	
	measures will be employed. Pumps will be fitted with a check valve in their feed line to prevent the tank contents emptying in the event of damage to the pump or feed line. Underground pipework will be avoided in the design if possible and if used will be double skinned and/or laid in accessible ducts where possible with leak detection. **Testing and Inspection** The EDGs and UDGs will be test run every other month to ensure reliability. The detailed test programme will depend on the SZC safety specification, manufacturers' recommendations and testing frequency. All tanks, pipes and pumps will be subject to regular inspections as part of the installation's Integrated Management System (IMS). High level alarms and other equipment will also be subject to regular testing. Underground pipework, if present, will be tested for leaks at least every five or ten years, depending on whether there are mechanical joints. Manufacturer's test instructions will be followed, alongside other relevant guidance, such as British Standard 5410 Parts 2 and 3 and BS 799-5, which has information about pipework pressure testing. SZC Co. will ensure that systems are in place during site operations to generate alerts when equipment tests are due and when equipment is likely to be reaching the end of its design life. Tests and inspections will be carried out by competent persons. Inspections and maintenance tasks will be logged in a central database upon completion. **Fuel Delivery by Road Tanker** Diesel delivery to the bulk tanks will be by road tanker via connection of the tanker's flexible delivery hose to a fill point either within the diesel generator building or within a designated bunded area outside the building. The offloading process will be compliant with the Oil Storage Regulations with regard to collection of drips during filling, general housekeeping, location of fill points and use of automatic shut-off valves. Drainage from the tanker offloading area will be controlled to prevent any fuel spills or leakages reaching ground or surface water drainage. Forecourt separators (Class 1 BS-EN-858) are to be provided at all locations where fuel handling takes place. Penstocks are provided at the point of discharge to all

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Permitted Activities	
	forebays which discharge with the cooling water via the outfall. Full details of the drainage strategy for the installation will be developed at the detailed design phase. Adequate measures will be taken by SZC Co. to ensure that the risk of tanker collision on site is managed; with due consideration given to traffic route design, on-site signage, speed limits, barriers, driver and/or banksman training and site housekeeping. **Procedures** Procedures will be in place in relation to onsite activities to prevent and mitigate potential releases of materials to the environment. All personnel on site will be trained and competent for the activities, which they carry out. **Integrated Management System (IMS)** A single IMS will be adopted for both the SZC and HPC projects, which will be developed in compliance with the requirements of BS EN ISO 14001, BS EN ISO 9001 and BS OHSAS 18001. The system will encompass procedures and management tools (e.g. maintenance plans) to ensure continued improvement with regards to environmental performance. A rolling internal audit programme for the installation will be developed against the requirements set out in the IMS. The site will develop and implement a program for the notification, recording, investigation and reporting of incidents that will include leaks and spills. Section 5.1 of the SZC combustion activities environmental permit application describes the IMS.
Non-Permitted Activities Undertaken	Drummed storage of lubricating oil, waste oil, antifreeze and waste cooling mixture used or produced at the installation will take place on site but outside the diesel generators. The handling and storage of these materials will be compliant with best practice (e.g. the Environment Agency's guidance on oil storage regulations for businesses) to prevent spills and leaks during transport and to ensure that spills or leaks from stored containers (prior to use or disposal) are captured and dealt with quickly, in order to prevent releases to ground or to surface water drains. Quantities of oils and chemicals stored on site will be managed to ensure that the minimum volumes required for safe site operations are maintained but (where possible) not exceeded.

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Permitted Activities	
Environmental Risk Assessment	An Environmental Risk Assessment (ERA) of the proposed operations has been carried out and is included in Appendix 3 and in the SZC combustion activity environmental permit application. The ERA approach has been developed in accordance with the Environment Agency guidance note H1 environmental risk assessment. The ERA in Section 5 of the SZC combustion activity environmental permit application provides an example of the accidents identified in the hazard assessments for the standby generators at the SZC installation. The ERA provides details of the types of measures that may be implemented at the site to control and mitigate such events to achieve BAT. A quantified risk assessment has not been provided as the processes and mitigations are not sufficiently developed to either reflect the protection measures in place or to commit to specific measures. A fully quantified risk assessment will be provided as part of the IMS. The ERA concluded that, on the basis of the current plant design and the decision to fully enclose the tanks and generators in the diesel generator buildings, the risks that are considered to be the most significant on similar UK sites have both a reduced probability and hazard (when compared to existing operational sites); resulting in a lower overall risk.
Relevant Hazardous Substances (RHS)	In addition to the high level ERA undertaken for the proposed activities discussed above, which looked at multiple source – pathway – receptor (SPR) linkages, a specific assessment was undertaken relating to the potential for soil and groundwater contamination to be present at the proposed facility relating to the use, production or release of relevant hazardous substance (RHS), which is discussed further below. The RHS Risk Assessment (RHS RA) was conducted via a systematic review of the diesel generator buildings and storage areas, which took into consideration the substances used, the containment systems in place and the potential for pollution within each discrete site area. Source-pathway-receptor linkages were identified as per the EA risk assessment guidance "risk assessment for your environmental permit" (https://www.gov.uk/government/collections/risk-assessments-for-specific-activities-environmental-permits). The output of the RHS RA is a conclusion whether or not there is a reasonable likelihood for pollution to occur within each discrete site area. The RHS RA conclusions inform the basis of a forward plan for the installation to align with the Best Available Technique (BAT) conclusions and if required developing a site

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Permitted Activities	
	condition baseline and a proposed monitoring regime for soil / groundwater conditions. The RHS study involves the following sequential steps: 1. Review the site areas within the environmental permit boundary to identify discrete zones for assessment. 2. Identify the substances present within each zone. 3. Review the operational activities undertaken within each zone and identify those activities with the potential for pollution to occur in the event of a loss of containment. 4. Identify the pollution prevention measures in place to prevent a loss of containment from occurring during the identified activities. 5. Record the primary containment systems present in each zone, such as bulk storage tanks, pipework, drums and intermediate bulk containers (IBCs). Describe the protective systems associated with primary containment such as hardwired and software control systems. Record the testing and inspection procedures in place, to prevent a loss of primary containment from occurring, and to detect the loss of containment should this occur. 6. Record the secondary containment systems present in each zone, such as bunds and drip trays, along with their associated testing and inspection procedures. 7. Record the tertiary containment systems present in each zone, such as drains, lagoons, isolations such as penstocks and interceptors, along with their associated testing and inspection procedures. 8. Consider the effectiveness of the primary, secondary and tertiary containment systems in preventing a release of substances to the environment and make an informed qualitative judgement as to the likelihood of pollution occurring from each zone. The sources of potential risk to ground and groundwater and are presented in Table 5.11 in the SZC combustion activities environmental permit application and include the substances used and / or stored on site. Table 5.11 is also provided in Appendix 4. The materials that are considered relevant hazardous substances are classified as harmful to the environment, in accordance with the Classification, Labelling and Packaging (CLP) Regulations. Hazardous substances proposed to be used at the installation include diesel fuel, lubricating oil, antifreeze (monoethylene glycol), and

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Permitted Activities	
	batteries. Other materials that may be reasonably included but which are to be confirmed include detergents and cleaning chemicals for the combustion plant, water for cleaning, water for demineralisation to replace cooling fluid losses, ignition gases (for engine start-up), and maintenance spare parts. An assessment has been conducted of the hazardous materials to demonstrate that the environmental characteristics of the materials sourced are well understood and that these materials are managed in a way that minimised the potential for spillage and loss of containment. The RHS RA is provided in Appendix 5. Only fuels and batteries will be stored on the installation and all other raw materials will be stored in dedicated site-wide facilities that are outside the scope of the installation. Diesel fuel oil will be delivered by road tanker and transferred into the main storage tanks, which are located inside the diesel generator buildings. The tanks will be all inside the building which will be made impermeable to the fuel and regularly maintained and inspected. Lubricating oil will be stored within either the engine sump if this constitutes an oil reserve, or storage tank and oil return line. Dirty lubricating oil and waste oil from maintenance activities will be collected within containers or in sumps and transferred to the station waste oil tank for disposal. All storage of lubricating and waste oil will be held outside the installation. The generators are cooled by demineralised water in re-circulating systems, which contain antifreeze. These are sealed systems and replacement fluid will be stored and delivered from outside the installation. Batteries will be delivered by lorry and transferred into the diesel generator buildings. The batteries will be all inside the building which will be made impermeable to the lead acid batteries and regularly maintained and inspected. The tanker delivery arrangements, drainage system, sumps, cooling systems and storage systems have not yet been designed; these arrangements will be provided as part of the FAP under the accident management plan (Refer to Section 6 of the SZC combustion activity environmental permit application– FAP Ref. 3). Oil storage areas at the installation will meet the requirements of the Control of Pollution (Oil Storage) (England) Regulations 2001, Environment Agency guidance on oil storage regulations for businesses, BS 5410 code of practice for oil firing and the Construction Industry Research and Information Association (CIRIA) advice where relevant.

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Permitted Activities	
Conclusions:	The Industrial Emissions Directive (IED) requires groundwater monitoring every 5 years and soil sampling every 10 years during the permit lifetime, where there is a risk of pollution from hazardous substances and a baseline has been set. If a significant pollutant linkage is not identified during the additional investigation, then it is recommended that no further groundwater monitoring and soil sampling be carried out unless there was a change in activities, or an incident occurred. The Environmental Risk Assessment for the proposed operations (Appendix 3) and Relevant Hazardous Substances Risk Assessment (Appendix 5), conclude that there is a negligible risk that the proposed operations and the proposed relevant hazardous substances would cause pollution of soil and groundwater given the physical and procedural measures in place to reduce the risk of releases. In addition, the installation forms part of a nuclear facility which has rigorous physical and procedural measures in place to reduce the risk of releases. In order to fully establish the baseline site condition, it is proposed that additional baseline data be collected upon finalisation of the site layout and construction excavations (as discussed in Section 2 of the SCR). The suite of chemical analysis would be determined based on the potential contamination sources that are present and would be tailored to assess the presence of hazardous substances proposed to be used at the installations (fuel, lubricating oil, mono-ethylene glycol and waste oils). This would form the basis of the updated SCR prior to any permitted activities commencing. The SCR will form part of the FAP (Refer to Section 6 of the SZC combustion activity environmental permit application – FAP Ref. 4i).
Document References:	SZC Combustion Activity Environmental Permit Application (Ref; 100207658).

4. Changes to the Activity

Changes to the Activity	
Have there been any changes to the activity boundary?	Not applicable for permit application.
Have there been any changes to the permitted activities?	Not applicable for permit application.

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Changes to the Activity	
Have any 'dangerous substances' not identified in the Application Site Condition Report been used or produced as a result of the permitted activities?	Not applicable for permit application.
Checklist of supporting information	Not applicable for permit application.

5. Measures Taken to Protect Land

Measures Taken to Protect Land	
Not applicable for permit application.	
Checklist of supporting information	Not applicable for permit application.

6. Pollution Incidents That May Have Had an Impact on Land, and Their Remediation

Pollution Incidents That May Have Had an Impact on Land and Their Remediation	
Not applicable for permit application.	
Checklist of supporting information	Not applicable for permit application.

7. Soil Gas and Water Quality Monitoring (Where Undertaken)

Soil Gas and Water Quality Monitoring (Where Undertaken)
Not applicable for permit application.

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Soil Gas and Water Quality Monitoring (Where Undertaken)	
Checklist of supporting information	Not applicable for permit application.

8. Decommissioning and Removal of Pollution Risk

Decommissioning and Removal of Pollution Risk	
Not applicable for permit application.	
Checklist of supporting information	Not applicable for permit application.

9. Reference Data and Remediation (Where Relevant)

Reference Data and Remediation (Where Relevant)	
Not applicable for permit application.	
Checklist of supporting information	Not applicable for permit application.

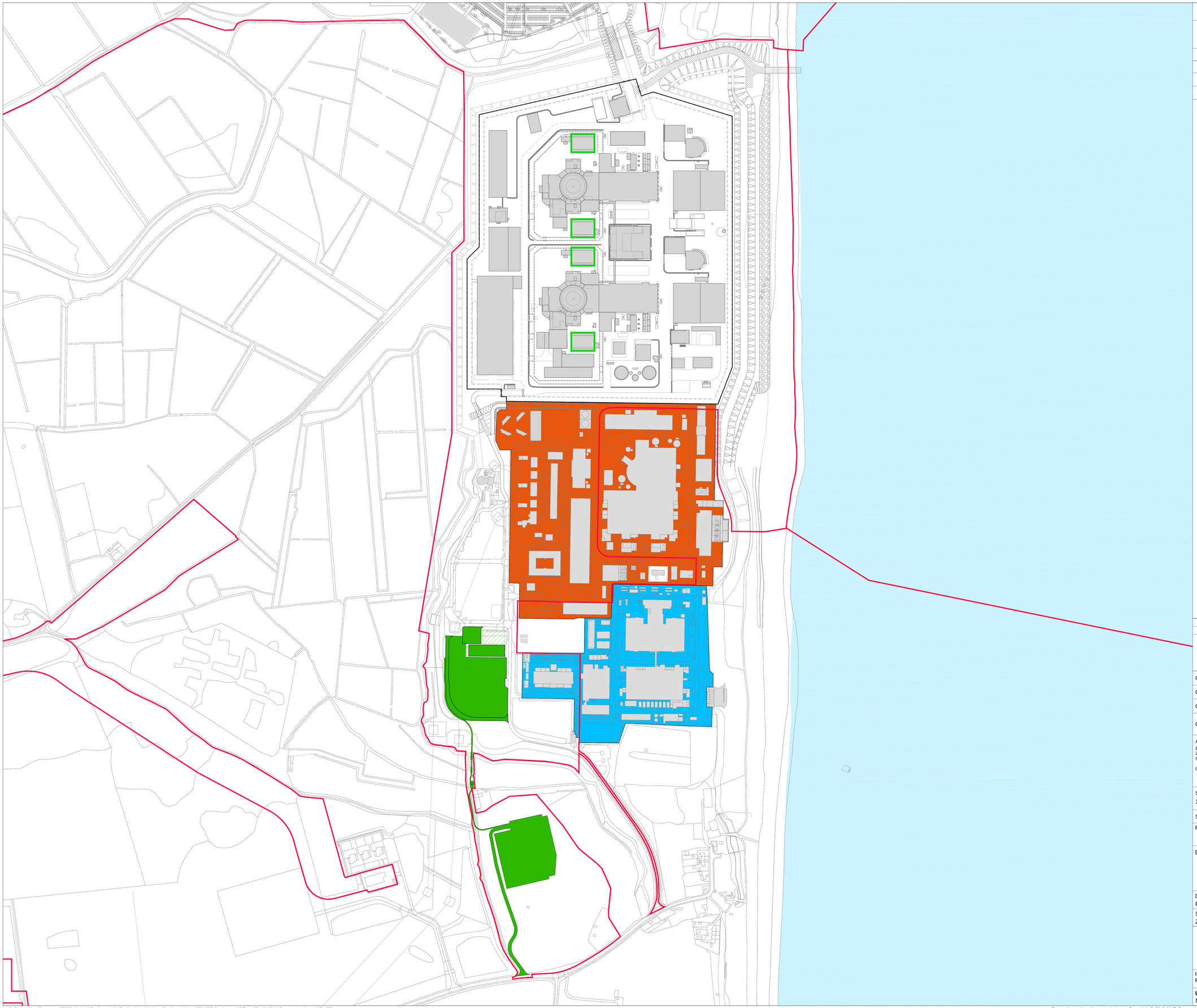
10. Statement of the Site Condition

Statement of the Site Condition
Not applicable for permit application.

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Appendix 1: Figures

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DRAWING GRID / COORDINATE SYSTEM:

SITE LOCAL GRID	□	NATIONAL GRID OSGB36	☒
OTHER GRID	□	(To be defined in the contract project plan)	
CONTRACT PROJECT PLAN DOC. REF. No:		X	

NOTES:

1. ALL CO-ORDINATES ARE IN METRES AND ARE BASED ON THE NATIONAL GRID.

KEY

- SIZEWELL A POWER STATION DECOMMISSIONING SITE
- SIZEWELL B POWER STATION OPERATIONAL SITE
- SIZEWELL C POWER STATION OPERATIONAL SITE
- DIESEL GENERATOR INSTALLATION BOUNDARY
- SIZEWELL B POWER STATION RELOCATED FACILITIES
- SZC DEVELOPMENT BOUNDARY

SZC CENTRE OS NGR: TM 47270 64145

REV.	DATE	PREPARED BY	CHECKED BY	STATUS	REASONS FOR REVISION	APPROVED BY
01	15.07.19	SB	MI	S2	ISSUED FOR INFORMATION	

NNB GenCo (SZC) LTD.

1st partner	2nd partner
EDF	NNB

CONTRACTOR COMPANY TRADE NAME : NA

CONTRACTOR REF. No. NA

CONTRACT NUMBER : NA

CONTRACTOR WBS CODE : NA

QRA RELATED Yes ☒ No □

APPLICABILITY:
1: Document related to Unit 1
2: Document related to Unit 2
9: Document that applies to buildings/systems common to Unit 1 & 2
0: Documents that relate exclusively to buildings or systems that are common to the whole site (e.g. parking, ancillary buildings...)

NUCL/REP/EPR/UKX			
SZC (doc: SZ)			
0	1	2	9
X			

BUILDING
NA

SYSTEM
000

SCALE
1:2500@A0

SIZE
A0

PAGE
1/1

DESCRIPTION

SIZEWELL C - FIGURE 1 COMBUSTION ACTIVITY ENVIRONMENTAL PERMIT - LOCATION OF SITE IN RELATION TO SZA & SZB POWER STATIONS

DOCUMENT REFERENCE No.

Project	Contract No. / Orig. Co	Asset / Zone	System / Building	Doc. type	Chrono No.
SZC	SZ0100	XX	000	DRW	100052

DOCUMENT SUB -TYPE
PERMANENT SITE PLAN

EDF CLASSIFICATION CODE
NA

SUBCONTRACTOR COMPANY TRADE NAME
ZB

SUBCONTRACTOR DOCUMENT REF. No
NA

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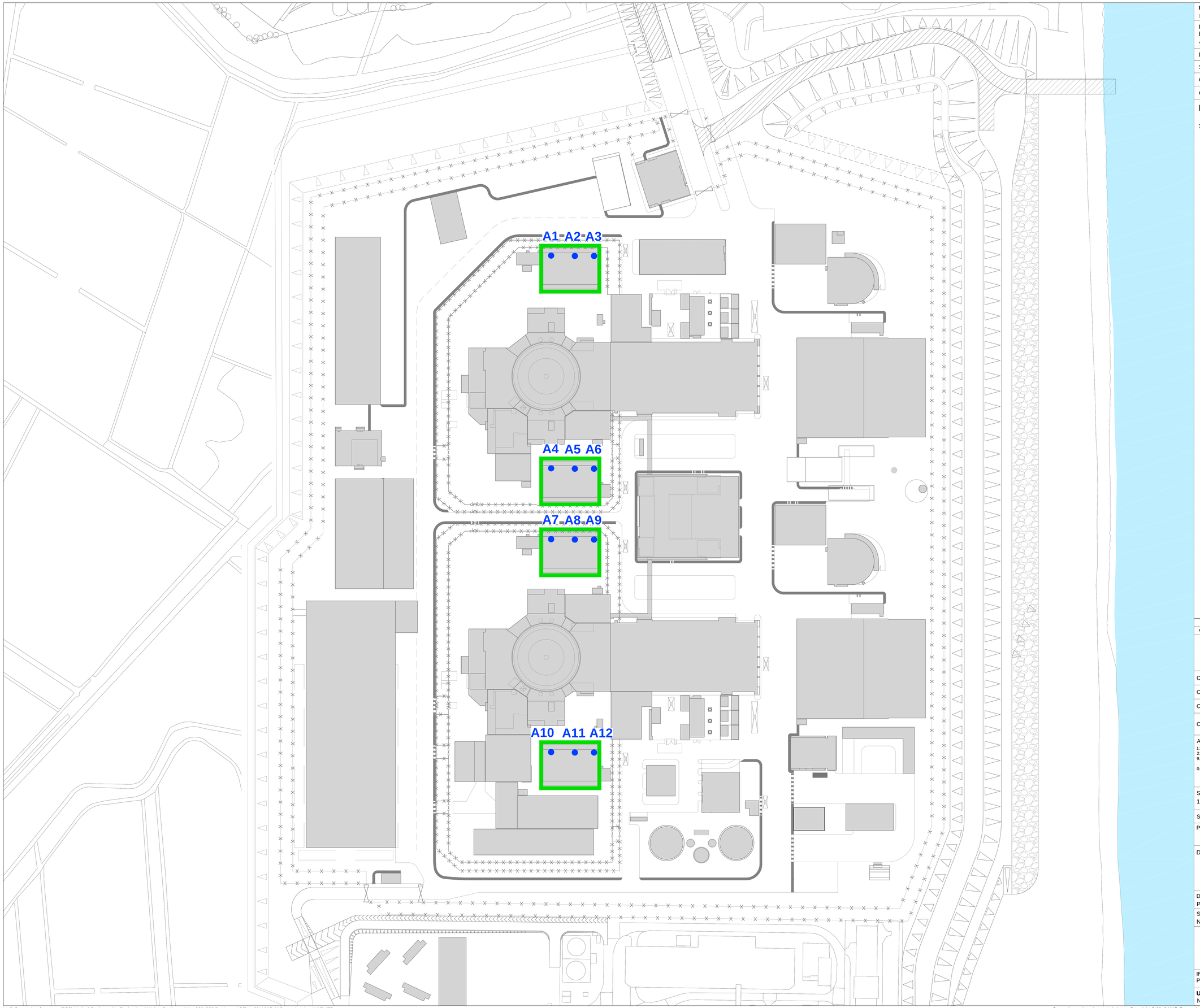
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INTELLECTUAL PROPERTY OWNERSHIP:	NNB:	EDF:	CONTRACTOR:
	OWNERSHIP	NA	NA

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DRAWING GRID / COORDINATE SYSTEM:

SITE LOCAL GRID	☐	NATIONAL GRID OSGB36	☒
OTHER GRID	☐	(To be defined in the contract project plan)	
CONTRACT PROJECT PLAN DOC. REF. No:		X	

NOTES:

1. ALL CO-ORDINATES ARE IN METRES AND ARE BASED ON THE NATIONAL GRID.

KEY

INSTALLATION BOUNDARY

POINT SOURCE EMMISSIONS TO AIR & GRID REFERENCE:

A1	647224,	264307
A2	647243,	264307
A3	647259,	264307
A4	647224,	264133
A5	647243,	264132
A6	647259,	264132
A7	647224,	264075
A8	647243,	264074
A9	647259,	264074
A10	647224,	263901
A11	647243,	263900
A12	647259,	263900

REV.	DATE	PREPARED BY	CHECKED BY	STATUS	REASONS FOR REVISION	APPROVED BY
01	15.07.19	SB	MB	S2	ISSUED FOR INFORMATION	-

NNB GenCo (SZC) LTD.	1st partner	2nd partner
	EDF	NNB

CONTRACTOR COMPANY TRADE NAME : NA

CONTRACTOR REF. No. NA

CONTRACT NUMBER : NA

CONTRACTOR WBS CODE : NA

QRA RELATED Yes ☒ No ☐

APPLICABILITY:
1: Document related to Unit 1
2: Document related to Unit 2
9: Document that applies to buildings/systems common to Unit 1 & 2
0: Documents that relate exclusively to buildings or systems that are common to the whole site (e.g. parking, ancillary buildings...)

NUCL/REP/EPR/UKX			
SZC (doc: SZ)			
0	1	2	9
X			

BUILDING
NA

SYSTEM
000

SCALE
1:1000@A0

SIZE A0

PAGE
1/1

DESCRIPTION
SIZEWELL C - FIGURE 2
COMBUSTION ACTIVITY ENVIRONMENTAL PERMIT - INSTALLATION BOUNDARY & POINT SOURCE EMISSIONS TO AIR

DOCUMENT REFERENCE No.

SZC	SZ0100	XX	000	DRW	100051
Project	Contract No. / Orig. Co	Asset / Zone	System / Building	Doc. type	Chrono No.

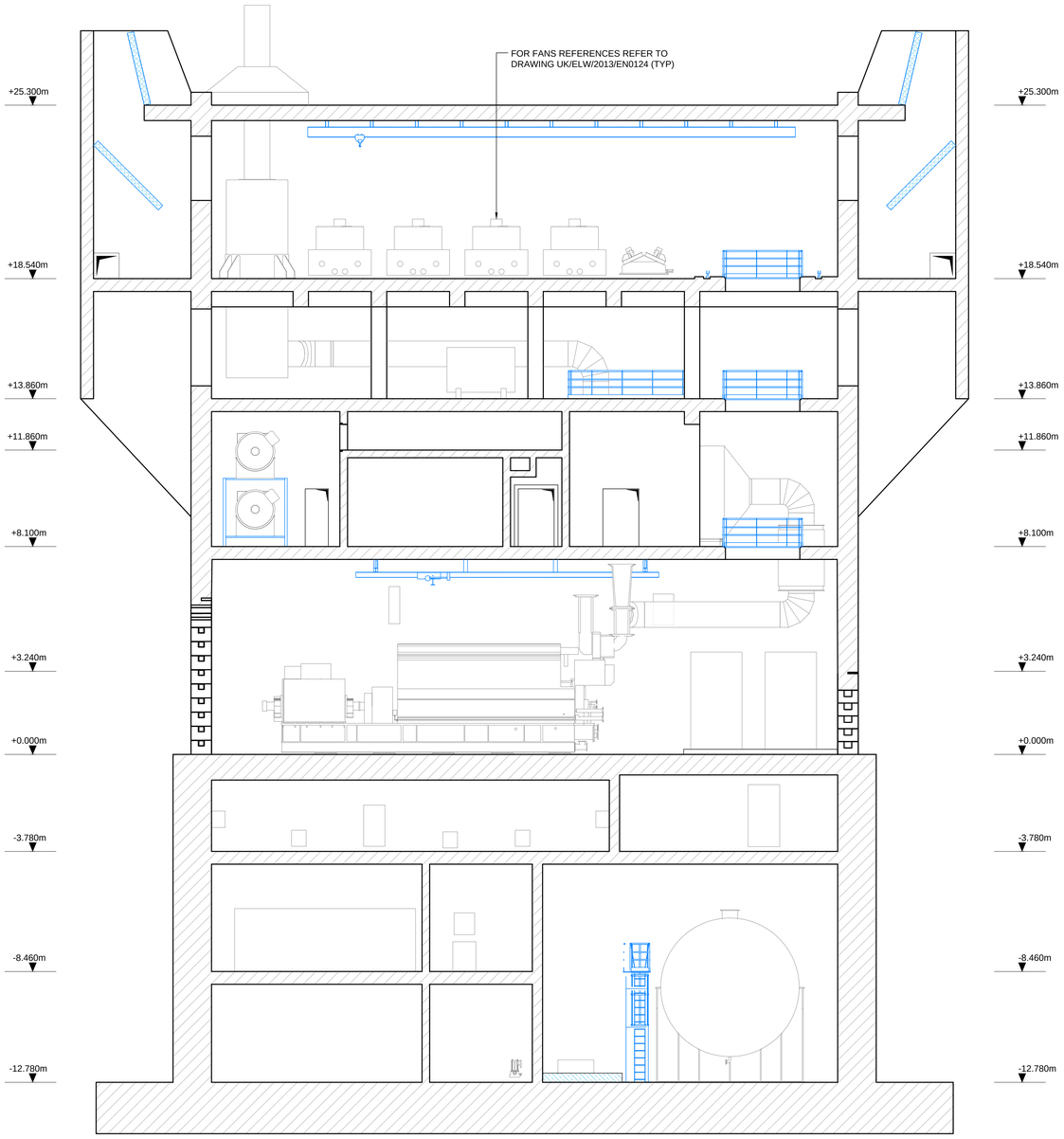
DOCUMENT SUB -TYPE	EDF CLASSIFICATION CODE
PERMANENT SITE PLAN	NA
SUBCONTRACTOR COMPANY TRADE NAME	SUBCONTRACTOR DOCUMENT REF. No
NA	NA

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zsaeocmuvnwxirfkhbdpqgyjlt 71423855690
0 1 2 3 4 5 6 7 8 9 10

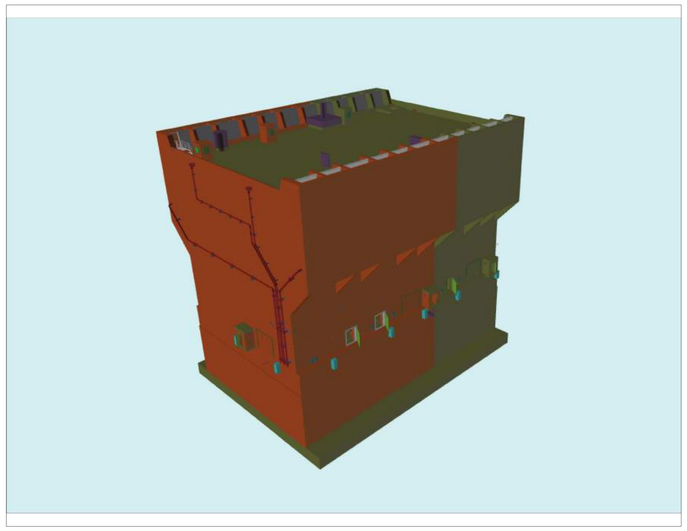
INTELLECTUAL PROPERTY OWNERSHIP:	NNB:	EDF:	CONTRACTOR:
	OWNERSHIP	NA	NA

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TYPICAL CROSS SECTION



VIEW OF DIESEL BUILDING HDA/HDB/HDC/HDD

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SITE LOCAL GRID	☐	NATIONAL GRID OSGB36	☒
OTHER GRID	☐	(To be defined in the contract project plan)	

CONTRACT PROJECT PLAN DOC. REF. No: X

NOTES:

1. ALL CO-ORDINATES ARE IN METRES AND ARE BASED ON THE NATIONAL GRID.

REV.	DATE	PREPARED BY	CHECKED BY	STATUS	REASONS FOR REVISION	APPROVED BY
01	15.07.19	SB	MB	S2	ISSUED FOR INFORMATION	-

NNB GenCo (SZC) LTD.

1st partner: EDF

2nd partner: NNB

CONTRACTOR COMPANY TRADE NAME : NA

CONTRACTOR REF. No. NA

CONTRACT NUMBER : NA

CONTRACTOR WBS CODE : NA

QRA RELATED Yes ☒ No ☐

APPLICABILITY:
1: Document related to Unit 1
2: Document related to Unit 2
9: Document that applies to buildings/systems common to Unit 1 & 2
0: Documents that relate exclusively to buildings or systems that are common to the whole site (e.g. parking, ancillary buildings...)

NUCL/REP/EPR/UKX			
SZC (doc: SZ)			
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X			

BUILDING: NA

SYSTEM: 000

SCALE: 1:2500@A0

SIZE: A0

PAGE: 1/1

DESCRIPTION:

SIZEWELL C
FIGURE 3
DIESEL GENERATOR BUILDINGS

DOCUMENT REFERENCE No.

Project	Contract No. / Orig. Co	Asset / Zone	System / Building	Doc. type	Chrono No.
SZC	SZ0100	XX	000	DRW	100053

DOCUMENT SUB -TYPE: PERMANENT SITE PLAN

EDF CLASSIFICATION CODE: NA

SUBCONTRACTOR COMPANY TRADE NAME: ZB

SUBCONTRACTOR DOCUMENT REF. No: NA

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INTELLECTUAL PROPERTY OWNERSHIP:	NNB:	EDF:	CONTRACTOR:
	OWNERSHIP	NA	NA

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CONTRACT PROJECT PLAN DOC. REF. No:	X		

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NNB GenCo (SZC) LTD.

1st partner	2nd partner
EDF	NNB

CONTRACTOR COMPANY TRADE NAME : NA

CONTRACTOR REF. No. NA

CONTRACT NUMBER : NA

CONTRACTOR WBS CODE : NA | QRA RELATED Yes ☒ No ☐

APPLICABILITY:
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NUCL/REP/EPR/UKX			
SZC (doc: SZ)			
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X			

BUILDING: NA

SYSTEM: 000

SCALE: 1:5000@A0

SIZE: A0

PAGE: 1/1

DESCRIPTION:
SIZEWELL C
FIGURE 4
HUMAN RECEPTORS

DOCUMENT REFERENCE No.

SZC	SZ0100	XX	000	DRW	100054
Project	Contract No. / Orig. Co	Asset / Zone	System / Building	Doc. type	Chrono No.

DOCUMENT SUB -TYPE: PERMANENT SITE PLAN

EDF CLASSIFICATION CODE: NA

SUBCONTRACTOR COMPANY TRADE NAME: NA

SUBCONTRACTOR DOCUMENT REF. No: NA

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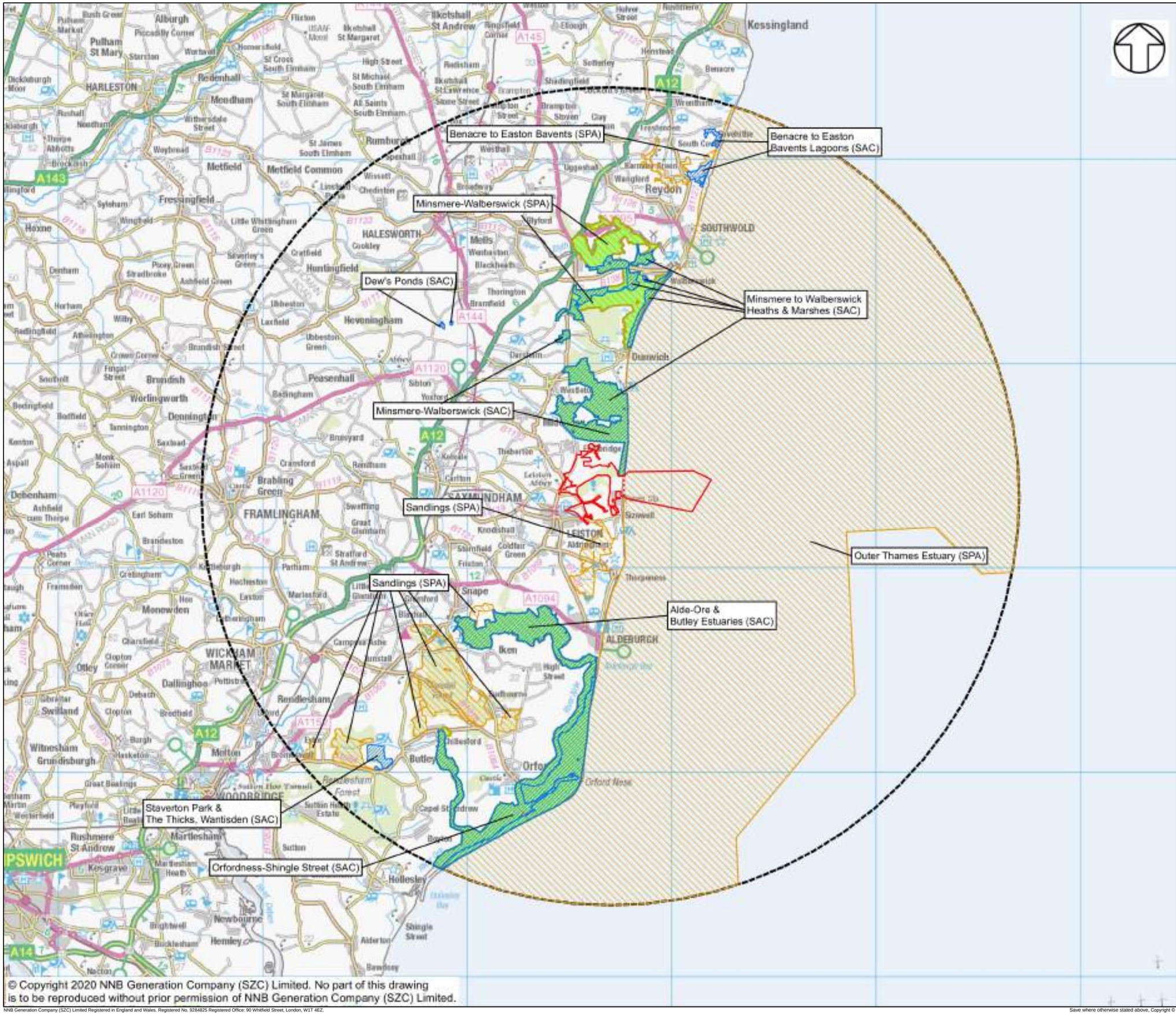
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CONTRACT PROJECT PLAN DOC. REF. No:		NA	

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CONTRACTOR COMPANY TRADE NAME: NA

CONTRACTOR REF. No. NA

CONTRACT NUMBER :NA

CONTRACTOR WBS CODE :NA

QRA RELATED: Yes ☐ No ☐

APPLICABILITY:
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0: Documents that relate exclusively to buildings or systems that are common to the whole site (e.g. parking, ancillary buildings...)

NUCL/REP/EPR/UKX			
SZC (doc: SZ)			
0	1	2	9
X			

BUILDING: NA

SYSTEM: 000

SCALE: NTS

SIZE: A3

PAGE: 1/1

DESCRIPTION

SIZEWELL C
FIGURE 5
INTERNATIONAL STATUTORY DESIGNATED SITES WITHIN 20km OF MAIN DEVELOPMENT SITE

DOCUMENT REFERENCE No.

Project	Contract No. / Orig. Co	Asset / Zone	System / Building	Doc. type	Chrono No.
SZC	SZ0100	XX	000	DRW	100062

DOCUMENT SUB -TYPE: NA

EDF CLASSIFICATION CODE: NA

SUBCONTRACTOR COMPANY TRADE NAME: NA

SUBCONTRACTOR DOCUMENT REF. No: NA

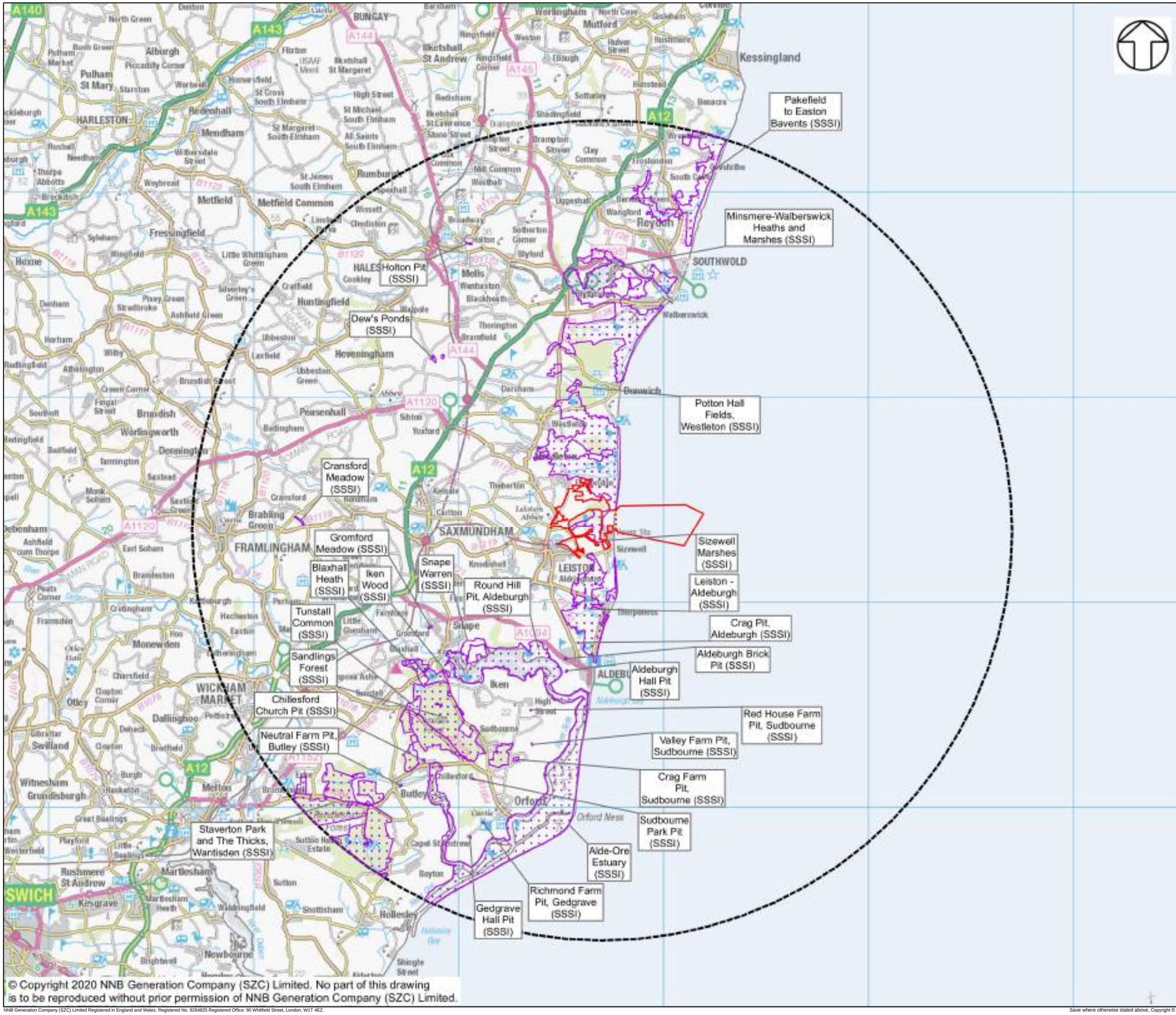
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zsaeomuvwxirfkhbdpqgyjt 71423855690
0 1 2 3 4 5 6 7 8 9 10

INTELLECTUAL PROPERTY OWNERSHIP:	NNB: OWNERSHIP	EDF: NA	CONTRACTOR: NA

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OTHER GRID ☐	(To be defined in the contract project plan)
CONTRACT PROJECT PLAN DOC. REF. No:	NA

NOTES:

REV.	DATE	PREPARED BY	CHECKED BY	STATUS	REASONS FOR REVISION	APPROVED BY
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1st partner: EDF
2nd partner: NNB

CONTRACTOR COMPANY TRADE NAME NA

CONTRACTOR REF. No. NA

CONTRACT NUMBER : NA

CONTRACTOR WBS CODE : NA

QRA RELATED Yes ☐ No ☐

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NUCL/REP/EPR/UKX			
SZC (doc: SZ)			
0	1	2	9
X			

BUILDING: NA

SYSTEM: 000

SCALE: NTS

SIZE: A3

PAGE: 1/1

DESCRIPTION

SIZEWELL C
FIGURE 6
NATIONAL STATUTORY DESIGNATED SITES WITHIN 20km OF MAIN DEVELOPMENT SITE

DOCUMENT REFERENCE No.

Project	Contract No. / Orig. Co	Asset / Zone	System / Building	Doc. type	Chrono No.
SZC	SZ0100	XX	000	DRW	100063

DOCUMENT SUB -TYPE: NA

EDF CLASSIFICATION CODE: NA

SUBCONTRACTOR COMPANY TRADE NAME: NA

SUBCONTRACTOR DOCUMENT REF. No: NA

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zsaeocmuvwxirfkhbdpqgyjlt 7142385690

0 1 2 3 4 5 6 7 8 9 10

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Appendix 2: Baseline Data

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Sizewell C: Phase 2 Geo-Environmental Interpretative Report

Main Development Site

EDF Energy

24 August 2018

Notice

This document and its contents have been prepared and are intended solely as information for EDF Energy and use in relation to the Sizewell C Main Development Site.

Atkins Limited assumes no responsibility to any other party in respect of or arising out of or in connection with this document and/or its contents.

Document history

Revision	Purpose description	Originated	Checked	Reviewed	Authorised	Date
Rev 1.0	Draft for Client Comment	JEJ	EG	JA	JS	28 June 2018
Rev 2.0	Final updated following Client Comments	JEJ	EG	JA	JA	24 August 2018

Client signoff

Client	EDF Energy
Project	Sizewell C: Phase 2 Geo-Environmental Interpretative Report
Job number	5166065/7.1/001/001/00/A
Client signature / date	

Table of contents

Chapter		Page
1.	**Introduction**	**1**
1.1.	General	1
1.2.	Proposed Development and Boundary	1
1.3.	Purpose and Structure of Report	2
1.4.	Assumptions and Limitations	2
2.	**Site Setting and Description**	**4**
2.1.	Site Location	4
2.2.	Brief Site Description	4
2.3.	Site Walkover	5
3.	**Existing Information**	**7**
3.1.	Background	7
3.2.	Publicly Available Data Sources	7
3.3.	Previous Geo-Environmental Reports	7
4.	**Environmental Context**	**12**
4.1.	Site History	12
4.2.	Geology	16
4.3.	Mineral Extraction and Ground Stability	17
4.4.	Radon	18
4.5.	Hydrogeology	18
4.6.	Hydrology	19
4.7.	Landfill Sites	20
4.8.	Waste Management Sites	21
4.9.	Hazardous Substances	21
4.10.	Integrated Pollution Prevention and Control (IPPC)	21
4.11.	Registered Radioactive Substances	21
4.12.	Sensitive Land Uses	21
4.13.	UXO	21
5.	**Preliminary Conceptual Site Model (PSCM)**	**23**
5.1.	Approach to PCSM	23
5.2.	Risk Estimation	23
5.3.	PCSM	24
6.	**Ground Investigation**	**30**
6.1.	Ground Investigation Design	30
6.2.	Scope of Works	30
6.3.	Methodology	31
6.4.	Geotechnical Laboratory Testing	31
6.5.	In-situ Screening	31
6.6.	Chemical Analysis	31
6.7.	Ground Gas and Groundwater Level Monitoring	32
7.	**Ground Conditions**	**35**
7.1.	General	35
7.2.	MCA	35
7.3.	TCA	36
7.4.	LEEIE	37
7.5.	Hydrogeological Regime	38

8. Contamination Assessment 40
8.1. Assessment Introduction 40
8.2. Human Health Risk Assessment 40
8.3. Controlled Waters Assessment 41
8.4. Ground Gas Assessment 45
8.5. Radiochemical Data Assessment 48
8.6. Re-use of Excavated Material On-site 48
8.7. Preliminary Classification of Waste 49
8.8. Contamination Summary 50

9. Revised Conceptual Site Model 52
9.1. Revised CSM 52

10. Potential Geotechnical Constraints 59
10.1. General 59
10.2. Summary of Geotechnical Parameters 59
10.3. Potential Geotechnical Constraints 59

11. Gap Analysis 62
11.1. Site Walkovers 62
11.2. Ground Investigation 62
11.3. Materials Management / Soils Re-use 64
11.4. Asbestos Lined Tanks 65
11.5. UXO Risk 65

12. Conclusions and Recommendations 66
12.1. Conclusions 66
12.2. Recommendations 67

References 68

Appendix A – Drawings and Figures 71

Appendix B – Site Walkover Photographs (2015) 72

Appendix C – Envirocheck Reports 73

Appendix D – Definitions of Probability and Risk 74

Appendix E – Preliminary Conceptual Site Model 77

Appendix F – Ground Investigation Factual Reports 86

Appendix G – Geological Cross Sections 87

Appendix H – Soil Screening Results 88

Appendix I – Leachate Screening Results 89

Appendix J – Surface Water Screening Results 90

Appendix K – Groundwater Screening Results 91

Appendix K – EDF, May 2014. EPR UK, Sizewell C – Pre-existing Geotechnical Data Synthesis and Interpretative Report 92

Tables

Table 4-1 - MCA Historical Land Uses 12
Table 4-2 - TCA Historical Land Uses 13
Table 4-3 – LEEIE Historical Land Uses 14
Table 4-4 – Summary of Published Geological Conditions 16
Table 4-5 – Summary of Ground Stability Hazards 18
Table 4-6 – Aquifer Designations 18
Table 5-1 - Definitions of Estimated Risk 24
Table 5-2 - Estimation of the level of risk by comparison of consequence and probability 24

Table 5-3 - Summary of potential on and off-site sources of contamination 25
Table 5-4 - Summary of potential receptors 27
Table 6-1 - Standpipe Installation Details 33
Table 7-1 – Summary of Groundwater Levels 38
Table 8-1 - Summary of groundwater exceedances (Atkins data) 42
Table 8-2 - Summary of groundwater exceedances (AMEC data) 43
Table 8-3 - Summary of Surface Water Exceedances (AMEC) 45
Table 8-4 - Summary of Surface Water Exceedances (Atkins) 45
Table 8-5 - Site Characteristic GSV and Associated CS 46
Table 8-6 - Summary of Ground Gas Monitoring 47
Table 9-1 - Revised Conceptual Site Model 53
Table 10-1 – Summary of Geotechnical Parameters from 2009 and 2010 Ground Investigations [17] 60
Table 10-2 - Summary of Geotechnical Parameters from 2014 and 2015 Ground Investigations 61
Table 11-1 – Sources of Contamination and Existing Ground Investigation Data 62

Glossary of Abbreviations and Technical Terms

Abbreviation / Term	Description
AONB	Area of Outstanding Natural Beauty
BGS	British Geological Survey
BTEX	Benzene, toluene, ethylbenzene and xylene
COMAH	Control of Major Accident Hazards
CoP	Code of Practice
CS	Characteristic Situation
CSM	Conceptual Site Model
C4SLs	Category 4 Screening Levels
DCO	Development Consent Order
DQRA	Detailed Quantitative Risk Assessment
DWS	Drinking Water Standards
EDF	EDF Energy
EIA	Environmental Impact Assessment
EQS	Environmental Quality Standards
GAC	Generic Assessment Criteria
GPLC	Guiding Principles for Land Contamination
GQRA	Generic Quantitative Risk Assessment
GSV	Gas Screening Value
ha	Hectares
IPPC	Integrated Pollution Prevention and Control
LEEIE	Land to the east of Eastlands Industrial Estate
LQM	Land Quality Management Ltd.
MAGIC	Multi Agency Geographic Information for the Countryside
m bgl	Metres below ground level
MCA	Main Construction Area
MCERTS	Environment Agency Certification Scheme
MDS	Main Development Site
MMP	Materials Management Plan
NGR	National Grid Reference
NIHHS	Notification of Installations Handling Hazardous Substances
NNB	Nuclear New Build
NPPF	National Planning Policy Framework
NPS	National Policy Statement
OCP	Organochlorine pesticides
OPP	Organochlorine pesticides
PAH	Polyaromatic Hydrocarbons

PCB	Polychlorinated biphenyl
PCLs	Potential Contaminant Linkages
PCSM	Preliminary Conceptual Site Model
PEIR	Preliminary Environmental Impact Report
PINS	The Planning Inspectorate
PPE	Personal Protective Equipment
RIGS	Regionally Important Geological Sites
SAC	Special Area of Conservation
SPA	Special Protected Area
SPZ	Source Protection Zone
SSAC	Site Specific Assessment Criteria
SSSI	Site of Special Scientific Interest
SSVs	Soil Screening Values
SVOC	Semi Volatile Organic Compounds
SZC	Sizewell C Development
S4ULs	Suitable for Use Levels
TCA	Temporary Construction Area
TPH	Total petroleum hydrocarbons
UKAS	UK Accreditation Services
UXO	Unexploded Ordnance
VOCS	Volatile Organic Compounds
WAC	Waste Acceptance Criteria
WELs	Workplace Exposure Limits
WQS	Water Quality Standards

1. Introduction

1.1. General

Atkins was commissioned by EDF Energy (EDF) to prepare a Phase 2 Geo-Environmental Report for the proposed new nuclear power station at Sizewell, Suffolk (referred to as Sizewell C). It is intended to submit a Development Consent Order (DCO) application to the Secretary of State, which will be supported by various documents including an Environmental Impact Assessment (EIA). The development proposals are for two main elements:

- **The Main Development Site (MDS)**: including reactor buildings, turbine halls, cooling water infrastructure, interim waste / fuel storage, operational service centre and offices and electricity transmission equipment; and
- **Associated Development sites (ADS):** including two Park and Ride sites and improvements to rail / highways infrastructure.

This report is concerned with the proposed developments to be undertaken at the MDS which includes the temporary works area as well as the new nuclear power station (referred to herein as the site). The location of the proposed development is provided on Drawing No. 5166065-ATK-XX-XX-DR-G-0001 included in Appendix A.

As part of the EIA process, a Scoping Request [1] was submitted by EDF to The Planning Inspectorate (PINS) in April 2014. A Scoping Opinion was received from PINS in June 2014 including comments from statutory consultees relevant to Land Quality. Following amendments to the site red line boundary and receipt of the Scoping Opinion and Stage 2 consultation comments, the need for an updated report was identified, to cover the MDS site and to include the collation and review of existing information obtained for the site including previous investigations and reports.

1.2. Proposed Development and Boundary

The proposed development comprises a Nuclear New Build (NNB) Power Station. This will include a power station building, reactor buildings, turbine halls, cooling water infrastructure, interim waste / fuel storage, operational service centre and offices, electricity transmission equipment and the temporary works area.

The site encompasses a total of 729 hectares (ha) of land comprising 362 ha of land onshore and 367 ha of offshore land. The onshore area includes three zones of temporary and permanent land take as follows:

- **Main Construction Area (MCA)**: The MCA comprises the main power station platform which will house the permanent operational plant and buildings. Works will also be undertaken along the foreshore to the east of the main power station development platform and a new substation will be constructed to the south-west, within the existing Sizewell B power station complex. This zone is located in the east of the site. The southern boundary of the zone is south west of the Sizewell B power station bounded by Sizewell Gap. The Sizewell Marshes Site of Special Scientific Interest (SSSI) bound the west and north of the zone and the North Sea is present to the east.
- **Temporary Construction Area (TCA)**: The TCA is the land required on a temporary basis to facilitate the construction of the power station and will include contractor compound areas, borrow pits, spoil management zones, an accommodation campus, extensions to rail infrastructure, a site entrance hub and areas for material storage. This zone is primarily located to the north-west of the MCA. It is bounded generally by the Sizewell Marshes SSSI to the south, the Minsmere Levels to the north, the B1122 to the west and the Suffolk coast to the east.
- **Land to the east of Eastlands Industrial Estate (LEEIE):** A smaller section of the TCA is located to the north-east of Leiston approximately 1.7km south-west of the MCA. The is bounded by Valley Road to the west, Lovers Lane to the east and Eastlands Industrial Estate to the south. An access road will also be present in the east of the site running eastwards towards the southern

section of the MCA. This zone will be used as a rail terminal (Sizewell Halt) for freight delivery and for temporary storage during construction works.

Drawing No. 5166065-ATK-XX-XX-DR-G-0001 included in Appendix A shows the red line boundary for the development including the location of the MCA, TCA and LEEIE zones.

1.3. Purpose and Structure of Report

The purpose of this report is to collate and assess, where possible, the findings of the previous environmental desk studies and ground investigations relevant to the proposed development, to identify key gaps in data and requirements for further investigation should there be any. The information within this report will also form the baseline conditions for use in preparation of the Preliminary Environmental Impact Report (PEIR).

An outline of the report content is provided below:

- Section 2 provides a description of the site and its location, including details of the proposed development and site boundaries.
- Section 3 provides a summary of the existing data including publicly available data sources and previous geo-environmental reports which have been used to prepare this report.
- Section 4 sets out the desk study information obtained to establish the environmental setting of the site.
- Section 5 provides a summary of the Preliminary Conceptual Site Model (PSCM) which has been developed for the site based on the desk study information.
- Section 6 summarises the previous intrusive ground investigations which have been carried out at the site.
- Section 7 provides a description of the ground conditions encountered at the site from existing ground investigation completed.
- Section 8 provides a generic quantitative risk assessment (GQRA) of the data obtained in the ground investigations to assess potential risks to controlled waters and human health receptors.
- Section 9 provides a revised CSM which has been updated based on the findings of the ground investigations and GQRA.
- Section 10 provides a high-level summary of potential geotechnical development constraints.
- Section 11 summarises the extent of information available for the site, as well as identifying data gaps.
- Section 12 provides an overall summary of the findings of the report and recommendations for further investigation.

1.4. Assumptions and Limitations

The conclusions and recommendations of this report are based on the plans, reports and information provided to Atkins (see Appendix A) at the time of writing (June 2018).

The findings and opinions conveyed via this report are based on information obtained from a variety of sources including documents provided by third parties as detailed within this report (refer to Section 3), and which Atkins believes are reliable. Nevertheless, Atkins cannot and does not guarantee the authenticity or reliability of the information. No attempt has been made to verify independently any data collected by others.

The conclusions of this report are based on the findings of the assessment of data taken from exploratory holes advanced on site as part of previous ground investigations. Exploratory holes sample and/or test a fraction of the ground being investigated and variations can occur between sampling points. Therefore, this report cannot guarantee that unexpected ground conditions will not occur between the sampling points.

Ground gas and groundwater conditions are based on observations made at the time of investigations and subsequent visits and may be subject to variation due to atmospheric, seasonal or other effects.

Information in relation to ground conditions and chemical testing data was obtained from several ground investigations undertaken between 2009 and 2015. The gas monitoring data were collected in 2011 and the groundwater monitoring data between 2011 to 2015. It is noted that the current conditions of the site may have changed since the investigations and monitoring were carried out.

Information in relation to radiological data has been reproduced from available studies and assessments provided by third parties. Assessments and recommendations in relation to radiological risk and radiological waste are outside of the remit of this report.

Geotechnical interpretation and design is not part of the remit of this report. A high-level summary of the geotechnical parameters obtained from the ground investigations and a discussion of potential geotechnical constraints for development of the site has been provided.

2. Site Setting and Description

2.1. Site Location

The proposed development will be located on the Suffolk coast, to the north of the existing Sizewell B nuclear power station site. The general location of the site is shown on Drawing No. 5166065-ATK-XX-XX-DR-G-0001. The wider Sizewell nuclear complex has supported nuclear power facilities since 1966 and currently has one operational plant (Sizewell B) and one plant being decommissioned (Sizewell A).

The approximate co-ordinates for the centre of each zone located within the site are as follows:

- The MCA is located at approximate National Grid Reference (NGR) TM 47284, 64085;
- The TCA is located at approximate NGR TM 46235, 64729; and
- The LEEIE is located at approximate NGR TM 45592 62778.

The North Sea is present adjacent to the east of the MCA, the town of Leiston is located 3km to the west of the MCA and 500m to the east of the LEEIE, and the small coastal village of Sizewell is located 1km to the south of the MCA.

The site is located on the Suffolk Heritage Coast within the Suffolk Coast and Heaths Area of Outstanding Natural Beauty (AONB). The Sizewell Marshes SSSI is present within and adjacent to the western boundary of the MCA. The Minsmere – Walberswick Heaths and Marshes SSSI which is also designated as a Special Area of Conservation (SAC), Special Protected Area (SPA) and Ramsar site is located to the north of the site.

2.2. Brief Site Description

The northern section of the MCA largely comprises open fields. The Sizewell Marshes SSSI and associated drains are present in the north-western section of the zone. An area of hardstanding is present in the western corner of the zone which is used as a car park. There is a road in the centre of the northern area of the zone entering from the north and providing access to the car park in the west.

The central section of the MCA extends into the existing Sizewell B power station and comprises several buildings and hardstanding associated with the power station. The southern section of the MCA consists of a circular area of land immediately south of the existing Sizewell B Power Station which comprises open fields, Sandy Lane and several drains. An access road from Sizewell Gap running north into the MCA is present in the south east of the zone.

The TCA largely comprises agricultural land and open fields with a few residential properties, lanes and tracks. The majority of the residential properties appear to be farms. Several forested areas including Dunwich Forest, Great Mount Wood, Ash Wood and Greenhouse Plantation are also present within the zone.

The LEEIE comprises open fields with an area of hardstanding in the south of the zone. The Great Eastern Railway Line is present running through the southern section of the zone into Sizewell Halt rail terminal which will be upgraded as part of the temporary works. An access road is present in the east of the site running from eastwards towards an electricity substation 150m to the west of the southern section of the MCA.

Surrounding land uses primarily comprise a mixture of agricultural land, open fields, the Sizewell Marshes SSSI, the Minsmere – Walberswick Heaths and Marshes SSSI and residential and commercial properties. The village of Leiston, approximately 3km south-west of the MCA and adjacent to the LEEIE, comprises a mixture of residential and commercial properties.

2.3. Site Walkover

A site walkover was carried out by two Atkins Environmental Consultants on 3 and 4 February 2015 to obtain further information on the general site setting in relation to the development proposals at the time of the walkover. A summary of the site walkover findings for each zone is presented in the following sections. Photographs taken during the site walkover are included as Appendix B. Further site walkovers will be undertaken during the next stage of works.

2.3.1. MCA

The central part of the zone comprised part of the Sizewell B power station including areas of hardstanding and buildings. Due to access restrictions, it was not possible to access this area during the site walkover in 2015. The northern part of the zone comprised fields and woodland areas. The southern part of the zone comprised agricultural land known as Pillbox Field.

A rectangular area of concrete was noted in 2015 in the field in the north-east of the zone, adjacent to a slightly gravelly grassy area, which could previously have been a building or storage area. The publicly accessible beach area was separated from the site by a 1m high wooden fence.

The northern zone boundary is formed by a woodland area, the east of the zone is bounded by the North Sea, the south is bounded by Sizewell Gap and the western boundary is formed by trees and fencing.

A network of drains was present in the north-west corner of the zone within an area of woodland. A large waterlogged area was noted in 2015 in a field towards the east of the northern half of the zone.

A large fenced off area was noted in the south-east of the zone, which housed a potential substation, comprising four metal boxes within a fenced enclosure. A pillbox was located towards the south-western boundary, in an area of high topography. Three electricity pylons were present in the southern section of the zone.

There was no visual or olfactory evidence of contamination noted in the areas accessed during the walkover in 2015. However, an area of Made Ground was noted in the field in the north-east of the zone and areas of fly-tipping comprising plastic, rubber, wood and metal were noted in the north-west corner of Pillbox Field.

2.3.2. TCA

The majority of the TCA comprised fields, woodland or tracks. The central area comprised agricultural fields. Some waterlogged areas were noted along the southern boundary in 2015.

The eastern section of the zone comprised woodland (Dunwich Forest) , separated by grass tracks. Drains were located towards the south-east of the zone transacted by a number of bridges. The ‘Triangle’ was located within the woodland, comprising an area of replanting surrounded by old wooden fencing and trees.

To the north-east of Dunwich Forest was an area of tree lined agricultural fields. Ash Wood cottage was located adjacent to the northern boundary of the zone. A grass covered mound was noted south of Ash Wood Cottage which was suspected to contain Made Ground, and in this vicinity a rectangular area of concrete was noted which may have been used for storage.

A tree-lined track ran in a north to south orientation across the western area of the zone. To the west of the track, a disused pit was present comprising a heavily vegetated area with steep slopes down to the base of the pit in which there were two disused buildings. The pit area was fenced off by a 0.8m high wire fence. More agricultural fields surrounded this area and along the track.

In 2015, it was not possible to view the western area of the TCA due to access constraints. However, the remaining area of the zone appeared to be occupied by further agricultural fields.

A wire fence formed the southern boundary of the zone just north of the Leiston Carr and Kenton Hills woodland areas. The southern boundary of Dunwich Forest was formed by a muddy/grassy track with an area of marshland and drains to the south. The southern part of this zone was formed by woodland and trees. The northern boundary was generally formed by low wire fencing and trees. It was not possible to view the western boundaries in 2015.

To the south of the zone woodland areas were present, and further east the Sizewell Marshes SSSI, including drains and larger water bodies were present. The Sizewell Marshes also occupied an area to the north-east. The surrounding areas to the north included mainly agricultural fields and woodland. The areas to the west comprised agricultural fields with residential properties and farms.

Drains form the boundary of the zone in the south-east and waterlogged areas were recorded to be present in the agricultural fields in 2015. A small pond was noted in a field adjacent to Ash Wood in the north.

2.3.3. LEEIE

The majority of the northern area of the LEEIE comprised open fields used for agriculture. It was not possible to view the southern extent of the zone in 2015, south of King George's Avenue, due to restricted access. The southern arm of the zone appeared to be a road leading to an uncovered storage area comprising areas of hardstanding, roads, grass and woodland. The proposed area for the access road in the east of the LEEIE was also not viewed as part of the site walkover in 2015.

The northern area of the zone was bound to the north by hedges along Valley Road. Further west along this road the boundary was lined by trees and overhead cables. Valley Road runs under a railway bridge in the north-west corner of the zone. The western boundary was formed by the railway line and Lover's Lane formed the eastern boundary of the zone, lined by hedges.

The surrounding area to the north and east of LEEIE mainly comprised agricultural fields. A sewage works was located approximately 60m north of the zone. Residential housing was located adjacent to the south-east and north-west corners of the zone and Eastlands Industrial Estate was located adjacent to the south-west.

No evidence of potential contamination was noted within the LEEIE during the site walkover in 2015. However, a small amount of fly tipping had occurred in the north-west of the zone, comprising mostly plastic household rubbish, including plastic bottles and sheeting, in the area of uncultivated vegetation.

3. Existing Information

3.1. Background

The information presented in this report has been compiled from a review of various data sources, including publicly available information and previous geo-environmental reports and investigations which have been prepared for the site, as summarised in the following sections.

3.2. Publicly Available Data Sources

The following data sources have been reviewed as part of this report:

- Environmental data and historical mapping from Landmark Envirocheck reports dated 2012 [2];
- Publicly available information from the British Geological Survey (BGS) online mapping resource accessed in May 2018 [3];
- Publicly available information from Defra's Multi Agency Geographic Information for the Countryside (MAGIC) website accessed in May 2018 [4];
- Risks in relation to potential unexploded ordnance from the Zetica's website accessed in May 2018 [5]; and
- Information in relation to environmentally sensitive sites from the Suffolk Biological Records Centre website accessed in May 2018 [6].

3.3. Previous Geo-Environmental Reports

3.3.1. Structural Soils Ltd, March 2009. Factual Report on Supplementary Ground Investigation at Proposed Nuclear Development at Sizewell 'C' [7]

Structural Soils carried out a ground investigation on the instruction Royal Haskoning UK Limited at Sizewell C. The purpose of the investigation was to investigate the ground conditions at the site and to collect samples for geotechnical and environmental testing.

The ground investigation was carried out in October 2008 and comprised:

- 46No. cable percussion boreholes;
- In situ standard penetration tests;
- Gas and groundwater level monitoring; and
- Geotechnical and chemical analytical of soil samples.

The report presented a factual record of the fieldwork and laboratory testing undertaken as part of the investigation.

3.3.2. AMEC, February 2010. Desk Based Assessment for Sizewell EPR Site [8]

AMEC undertook a desk based review relating to contaminated land, geology, hydrogeology, groundwater and ground gas to support the development of an EIA for Sizewell C within the boundary of land nominated under the Strategic Site Assessment. The aims of the desk based review were to:

- Undertake a Phase 1 desk study to include a review of historical land use information;
- Undertake a site walkover study;
- Provide a summary of available previous and relevant site investigation reports relating to the study area and vicinity;

- Determine (where possible from existing information) the type and distribution of contamination within soils and groundwater in and adjacent to the study area;
- Identify key data gaps within the existing geology, hydrogeological, soils and contaminated land information;
- Produce a Preliminary Conceptual Site Model (PCSM) which identified potential pollutant linkages based on potential, and where identified, actual pollutant / contaminant sources, potential receptors (based on the proposed development) and potential pathways; and
- Develop and detail a strategy and rationale for further environmental investigations (where necessary) within the study area to verify the PCSM.

3.3.3. EOD Contracts Limited, March 2010. Explosive Ordnance Desk Top Study for Sizewell Power Station [9]

EOD Contracts Ltd. undertook an Unexploded Ordnance (UXO) Desk Top Study for the onshore and offshore investigation areas at Sizewell C. The scope of the study was to assess the likelihood and consequences of an encounter with UXO within the site. The assessment was only undertaken for the area within the MCA and did not include the TCA and LEEIE.

3.3.4. AMEC, July 2010. Radiological survey report for Sizewell C. [10]

AMEC carried out a radiological survey on Sizewell C to determine whether the operation of the Sizewell A and B power stations had contaminated near surface site soils from atmospheric deposition of radionuclides and or site groundwaters through groundwater migration. The survey included the MCA and an area within the east of the TCA.

Conclusions and recommendations were provided as to the nature of the potential residual radiological risk and the implications for continuation of any future site works.

3.3.5. AMEC, 2011. Groundwater Level Monitoring for Period 5 April 2011 to 30 June 2011 (First Interim Factual Report) [11]

AMEC undertook a hydrogeological study of the groundwater environment within the EDF controlled land at Sizewell in 2011. The aim of the study was to:

- Carry out groundwater level, conductivity and temperature monitoring and groundwater analysis in the network of 23 piezometers located within the MCA and an area within the east of the TCA for a minimum of one year;
- Use sea level (tidal data) and meteorological data for the same period, in order to establish whether a relationship between sea level and groundwater levels existed;
- Present the information at specified periods during the monitoring period; and
- Prepare a hydrogeological synthesis report based on the acquired monitoring data.

The report provided information on the monitoring period from April to June 2011.

3.3.6. AMEC, 2011. Groundwater Level Monitoring for Period 1 July 2011 to 21 December 2011 (Second and Third Interim Factual Report) [12]

AMEC undertook a hydrogeological study of the groundwater environment within the EDF controlled land at Sizewell in 2011. This report provided information on the monitoring period from July to December 2011.

3.3.7. ESG, August 2011. Onshore Investigations Phase 1 for Sizewell Site. Factual Report on Ground Investigation [13]

ESG was commissioned by EDF to carry out a ground investigation to obtain geotechnical information for the proposed construction of Sizewell C.

The ground investigation comprised:

- 67 No. cable percussion boreholes;
- 1 No. cable percussion boring extended by rotary core drilling;
- 19 No. rotary core boreholes;
- 45 No. rotary open hole boreholes;
- 2 No. rotary core and rotary open hole boreholes;
- 69 No. machine excavated trial pits;
- In situ standard penetration tests;
- Gas and groundwater level monitoring; and
- Geotechnical testing of soil samples.

3.3.8. AMEC, 2012. Sizewell EPR - Ground Gas Risk Assessment (Campaigns 1 - 7) [14]

AMEC carried out seven rounds of ground gas and groundwater level monitoring in order to carry out a risk assessment. The monitoring rounds consisted of the following:

- Gas Round 1 – 21No. Boreholes monitored in March 2011;
- Gas Round 2 – 38No. Boreholes monitored in April 2011;
- Gas Round 3 - 38No. Boreholes monitored in May 2011;
- Gas Round 4 - 38No. Boreholes monitored in early June 2011;
- Gas Round 5 - 38No. Boreholes monitored in late June 2011;
- Gas Round 6 - 38No. Boreholes monitored in July 2011; and
- Gas Round 7 - 38No. Boreholes monitored in September 2011;

3.3.9. AMEC, 2012. UK EPR Sizewell C – Summary of Groundwater Quality (Campaigns 1 – 6) [15]

AMEC carried out six rounds of groundwater quality sampling (Campaigns 1-6) between December 2010 and August 2011 for Sizewell C. The report presents the results of the groundwater monitoring and sampling programme.

3.3.10. EDF, April 2014. Sizewell C Proposed Nuclear Development. Sizewell C EIA Scoping Report [1]

EDF prepared a Scoping Report to support the application for a Development Consent Order to develop Sizewell C. This report sets out the proposed content, methodologies to be adopted and the key matters to be considered in the EIA including soils, geology and land contamination.

3.3.11. AMEC, May 2013. Sizewell C: Summary of Terrestrial Surface Water Quality (Campaigns 1 to 37) [16]

AMEC carried out an investigation into the terrestrial surface water environment in the vicinity of Sizewell C in order to characterise baseline water quality conditions prior to future development activities.

The report summarises the baseline sampling results obtained from January 2010 to January 2013 (Campaigns 1 to 37).

3.3.12. EDF, May 2014. EPR UK, Sizewell C – Pre-existing Geotechnical Data Synthesis and Interpretative Report [17]

The report provides a summary of the existing geotechnical data available for Sizewell C. The aim of this report was to:

- List and detail the content of relevant pre-existing geotechnical reports;
- Identify geotechnical layers with their depth and thickness; and
- Provide a geotechnical model, including geotechnical parameters, derived from a thorough review of historical data.

3.3.13. AMEC, September 2014. Sizewell EPR – Preliminary Phase 2 Contamination Assessment [18]

AMEC prepared a report to present the preliminary findings of the intrusive investigations and contamination assessment undertaken for Sizewell C. The report provides a summary of the exploratory data and radiochemical and non-radiochemical contamination testing acquired to date during the exploratory works within the study area.

The purpose of the assessment was to characterise the existing site soil, groundwater and gas regimes, to assess the risks to current and future users of the site and other potential receptors and advise on appropriate mitigation measures, should significant risks be identified.

3.3.14. Structural Soils Ltd, November 2014. Factual Report on Ground Investigation on Sizewell C Construction Site Area and Associated Development [19]

Structural Soils carried out a ground investigation on the instructions of NNB Generation Company Ltd. The ground investigation works were split into two phases. Phase 1 of the investigation comprised:

- 42No. cable percussion boreholes;
- 1No. cable percussion boreholes extended by rotary coring;
- 3No. rotary cored boreholes;
- 5No. sonic boreholes;
- 1No. soakaway infiltration tests in boreholes; and
- 6No. falling and rising head permeability tests in boreholes.

Phase 2 of the investigation comprised:

- 38No. cable percussion boreholes;
- 13No. machine excavated trial pits;
- 1No. falling head permeability tests in boreholes; and
- 19No. soakaway infiltration tests in boreholes.

In situ standard penetration tests, gas and groundwater level monitoring and geotechnical and chemical analytical testing of soil were undertaken during both phases of investigation.

3.3.15. Structural Soils Ltd, October 2015. Factual Report on Ground Investigation for onshore Ground Investigation Campaign on the SZC Construction Site Area [20]

Structural Soils Ltd. carried out a ground investigation on the instructions of NNB Generation Company at Sizewell C. The purpose of the investigation was to investigate ground conditions and provide information for the design of foundations and to provide information for preliminary contamination assessment purposes.

The ground investigation was carried out between June and September 2015 and comprised:

- 5No. sonic boreholes;
- 7No. cable percussion boreholes;
- 10No. machine dug trial pits;

- 3No. soak away tests;
- 3No. permeability tests;
- In situ standard penetration tests;
- Gas and groundwater level monitoring, and
- Geotechnical and chemical analytical testing of soil and leachate samples.

3.3.16. Atkins, 2015. Sizewell Site C. Conceptual Site Model of the Hydrogeological Regime [21]

Atkins was commissioned by NNB GenCo to prepare a report to confirm the scope of groundwater modelling works to be completed for Sizewell C. The purpose of the report was to develop a Conceptual Site Model (CSM) to be used as a basis for the development of a numerical groundwater model to inform assessments for the EIA for the proposed development.

3.3.17. Atkins, March 2017. Reduced Frequency of SZC Groundwater and Surface Water Monitoring [22]

Atkins has been undertaking monitoring of the groundwater and surface water regime at the site since 2013 to inform assessments for the development of Sizewell C.

4. Environmental Context

4.1. Site History

A review of the historical land use of the site and surrounding area has been undertaken to identify the nature and location of potentially contaminative activities that may have taken place on or adjacent to the site.

Historical maps between 1883 and 2012 at 1:10,560 and 1:10,000 scales and between 1882 and 1995 at 1:2,500 scale are presented within the Envirocheck reports [2], included in Appendix C. Current online mapping has been reviewed to assess land use changes between 2012 and 2018. The historical review looks at previous land uses within 500 m of the boundary of the site.

Key aspects of the site history are summarised in the tables below. The site history details are divided into three zones including the MCA, TCA and LEEIE.

Table 4-1 - MCA Historical Land Uses

Date	Within the Zone	Surrounding Area (approximate distance and direction)
1883 – 1884	The zone comprises open fields in the north and south. There are drains and an old drainage pump located in the north and centre of the zone. Two sand pits and Warren House are located in the south of the northern section of the zone. Sandy Lane is present in the west of the southern section of the MCA.	The surrounding land use comprises primarily open fields, woodland and agricultural land. Sizewell Gap is present adjacent to the southern boundary of the MCA. There are two sand pits located 250m north-west and south-east of the northern section of the zone and three sand pits located 60m north east, 100m and 500m north of the southern section of the zone. The Sizewell Belts are located to the adjacent west of the zone. Sizewell Farm is approximately 150m south of the zone. The Vulcan Arms Public House is approximately 50m east of the zone and Sizewell Cottage is approximately 200m east of the zone. A 'Coastguard Station' is labelled approximately 200m south east of the zone.
1905	A wind pump is located in the north-eastern corner of the zone and additional sand pits are present in the centre of the zone.	An additional sand pit is present 500 m west of the zone.
1928 – 1958	The area of drains in the north and centre of the zone are labelled as '*Liable to Floods'.* There is a rifle range in the centre of the zone and targets located in the east of the zone. '*Form Fours Wood'* and '*Coronation Wood'* are labelled along the southern boundary of the zone. Additional sand pits are indicated in the south-western corner of the zone.	The area of land to the north of the zone is labelled as *'Liable to Floods'.*

Date	Within the Zone	Surrounding Area (approximate distance and direction)
1976	The drains are now labelled on the map as *'drains'* and there are several ponds present in the north-western corner of the zone. There appear to be some foundations within the southern half of the zone. These are likely to be related to the Sizewell B power station. A sewage works is present within the western boundary of the zone adjacent to the foundations.	The foundations present in the south of the zone extend off-site further to the south. Sizewell Power Station is labelled located 500 m south of the zone. 'Cliff House Caravan Park' is labelled approximately 400m south east of the zone.
2006 – 2012	Sizewell B power station has been developed further extending into the southern half of the zone.	Additional drains are present surrounding the zone. An electricity substation is present approximately 150m west of the zone.
2018	No significant changes.	No significant changes.

Table 4-2 - TCA Historical Land Uses

Date	Within the Zone	Surrounding Area (approximate distance and direction)
1883 – 1884	The zone comprises open fields, farmland, marshland and woodland including Goose Hill in the east and Greenhouse Plantation in the west. Several roads and tracks are present transecting the zone from north to south including Lover's Lane and Abbey Road. Isolated residential properties and farms are present across the zone. Upper Abbey is present in the west of the zone around Theberton. Drains and a Sand Pit are present in the east of the zone around Goose Hill. Several other areas which appear to be pits are present in the centre of the zone around Upper Abbey.	The surrounding land use comprises primarily open fields (which appear to be farmland), marshland and woodland. Leiston Carr and the Sizewell Belts are located adjacent to the south of the zone. Isolated residential properties and farms are present surrounding the zone. The village of Eastbridge is located 500m to the north-west of the zone. The town of Leiston is located 1.5km to the south of the zone and Theberton is located 1km to the north-west of the zone. Leiston Old Abbey is present adjacent to the south-west of the zone. Lower Abbey is present 200m to the north-east of the zone around Eastbridge. An Old Sand Pit is present 250m to the south of the zone, south of Leiston Old Abbey.
1905	No significant changes.	A wind pump is labelled adjacent to the east of the zone around Goose Hill.
1928 – 1951	A wind pump is present adjacent to Upper Abbey in the west of the zone.	The area of land to the north-east and east of the zone around Goose Hill is labelled as *'Liable to Floods'.*
1957 – 1958	An area in the east of the zone around Goose Hill is labelled as *'Turf Pits'.*	The wind pump adjacent east of the zone around Goose Hill is now labelled as a *'Drainage Pump'.*

Date	Within the Zone	Surrounding Area (approximate distance and direction)
1976	An area in the east of the zone adjacent to Goose Hill is now labelled as *'Dunwich Forest '.* The drains in the east of the zone around Goose Hill are now labelled on the map as *'drains'.* The Sand Pit and other unnamed pits in the centre of the zone around Upper Abbey are now labelled as '*Pit (disused)'*.	A complex drainage network is present adjacent to the south and north of the zone around Dunwich Forest and Goose Hill. Sizewell Power Station is now labelled on the map located approximately 750m south-east of the zone.
1982	No significant changes.	The villages surrounding the zone have expanded.
2006	No significant changes.	As above.
2012	No significant changes.	As above.
2018	No significant changes.	As above.

Table 4-3 – LEEIE Historical Land Uses

Date	Within the Zone	Surrounding Area (approximate distance and direction)
1883 – 1884	The zone comprises open fields. The Great Eastern Railway Line (Aldeburgh Branch) is present running through the south-west of the zone. A signal post related to the railway line is labelled in the west of the zone. 'Broom Covert' is labelled in the centre of the proposed access road at the eastern extent of the zone.	The surrounding land use comprises primarily open fields (which appear to be farmland), marshland and woodland. The village of Leiston is present adjacent to the south-west of the zone. Valley Road and Lover's Lane are present running along the northern and eastern boundaries of the zone. A Brick Works, Works Farm and an associated clay pit are located 300 m to the north west of the zone. A Brick Field and kilns are present 300m to the west of the zone. A Smithy is located approximately 450m south-east of the zone. A windmill (pumping) is shown approximately 460m west of the zone and a windmill (corn) is located approximately 220m west of the zone.
1905	An area of buildings / hardstanding is shown adjacent to the railway line in the southern arm of the zone. A well and several buildings are shown in the area of Sizewell Crossing.	A tank and sewage outfall are present 100m to the north-west of the zone. The Brick Field and kilns are no longer labelled on the map. An additional Brick Works is indicated 500m to the south west of the zone. The Smithy and windmill (pumping) is no longer shown on the maps. The land to the south of the railway is now shown as allotment gardens.

Date	Within the Zone	Surrounding Area (approximate distance and direction)
1928	No significant changes.	The Brick Works and Works Farm are now labelled as Brick Works Farm. The tank and sewage outfall are now labelled as Sewage Disposal Works with 'septic tanks'. A gasworks is now shown approximately 40m from the western corner of the zone, comprising two gasholders and several tanks. 'Tanks' are labelled approximately 380m west of the zone. The town of Leiston has expanded. An Isolation Hospital is present 500m to the south-west of the zone.
1938 – 1958	No significant changes.	The town of Leiston has continued to expand.
1971	The railway line is shown to have been dismantled from approximately halfway along the southern section of the zone.	A factory is present adjacent to the south of the zone. An electricity substation is shown approximately 100m south-west of the zone. A coal yard is present approximately 55m west of the zone, adjacent to the gas works. A school is labelled approximately 350m south-west of the zone with an associated playing field and recreation ground. The 'tanks' to the west of the zone are now labelled as gas holders.
1976 – 1977	No significant changes.	Brick Works Farm is now labelled as Brick Kiln Farm and the associated clay pit is marked as disused. A caravan park is shown approximately 75m south west of the zone. A refuse tip is shown approximately 130m north of the zone beyond the sewage works. The town of Leiston has continued to expand.
1986	A small reservoir is shown in the north-west of the zone, adjacent to the road; this is not shown on present day maps and was confirmed to be absent during the site walkover in 2015. Aerial photography indicates that it may be been infilled.	
2012	A cycle track is present in the southern extent of the zone. A pond is shown in the central area of the northern field area; current aerial photography shows this to be a poorly drained area. The southern arm of the zone is covered with roads / hardstanding.	The gas works have been demolished, now showing a vacant area. The factory adjacent to the south of the zone has expanded and is labelled as *'Eastlands Industrial Estate'.*

Date	Within the Zone	Surrounding Area (approximate distance and direction)
	An electricity substation is present within the eastern extent of the proposed access road in the east of the zone.	
2018	No significant changes.	No significant changes.

4.1.1. Additional Information

Reference to previous geo-environmental reports [8] has provided the following additional site history information:

- Between 1964 and 1971 the ground surface within the MCA zone was raised with surplus spoil from the construction of Sizewell A, levelled and a series of roadways was constructed. This area was then used as a contractors' compound for fabrication, processing, storage and spoil disposal areas during the construction of Sizewell B (1987 to 1994). This development is likely to correspond with the foundations identified on the site history maps from 1976.
- The buildings and other above ground structures appear to have been demolished and removed from the zone upon completion of Sizewell B. Structures such as lagoons and other excavations appear to have been backfilled and the area covered with 2m to 2.5m of reworked sands and peats, levelled and planted with woodland and grassland. There appears to be a remaining oval shaped mound feature in the northern area of the MCA which may be a surplus spoil / waste disposal mound.
- Made Ground described as sandy fill (reworked Crag Deposits) and construction waste (e.g. concrete) up to 6m deep, overlying superficial deposits have been reported within this area of the MCA.
- Several areas of potential contamination and potentially contaminating activities were identified within the adjacent Sizewell B power station site including the Pond area, FMDTs, Splitter Vane store, Regenerant Neutralising Tank, Flask Transport and Storage Areas, LLW sorting area, reactor building area, active effluent discharge line, Hazardous Waste Store, diesel storage tanks, fuel oil tank, the waste oil/incinerator compound, handling of radioactive fuel and waste, non-active plant effluent and site drainage.
- A cut off wall was constructed for Sizewell B which could act as a barrier to the migration of contaminants within the groundwater to the surrounding area.
- Asbestos lined tanks / reservoirs were present within the area of the Sizewell B displaced facilities in the south of the MCA. The tanks have since been removed and the area validated [23]. However, no further information has been provided.

4.2. Geology

The published geological information for the site [3] is summarised in Table 4-4. The geology for the site has been divided into three zones including the MCA, TCA and LEEIE.

Table 4-4 – Summary of Published Geological Conditions

Unit	Description	Extent
Made Ground	-	Present within the MCA associated with the construction of the adjacent Sizewell B power station. Present within the southern section of the LEEIE associated with the railway line.

Unit	Description	Extent
		Present in the centre of the TCA around Upper Abbey associated with former pits located in this area.
Superficial Deposits*		
Marine Deposits	Tidal Flat Deposits	Present underlying the MCA and TCA in the eastern area of the site adjacent to the coast.
	Sand and Gravel	
Peat	-	Present underlying the MCA and TCA in the eastern area of the site adjacent to the Sizewell Marshes.
Alluvium	-	
Head	-	
Lowestoft Formation	Lowestoft Till	Present underlying the LEEIE. Sand and gravel present underlying some areas within the centre and east of the TCA.
	Lowestoft Sand and Gravel	
Bedrock		
Crag Group	Red Crag Formation	Present underlying entire site area.
Thames Group	London Clay Formation	Present underlying the eastern section of the MDA.
	Harwich Formation	
Lambeth Group	Woolwich and Reading Beds Formation	
Thanet Group	Thanet Sand Formation	
Chalk Group	White Chalk	Present underlying entire site area.

*Superficial deposits are noted on published maps to be largely absent across the TCA and within the southern section of the MCA.

4.2.1. Local Geological Sites

According to mapping on the Suffolk Biological Records Centre website [6] the site is not located within a Local Geological Site formerly known as Regionally Important Geological or Geomorphological Sites (RIGS).

4.3. Mineral Extraction and Ground Stability

4.3.1. Mining and Natural Cavities

Reference to the Envirocheck reports [2] indicates that the site is not located in an area that is likely to be affected by coal mining, other mining activities or natural cavities.

4.3.2. Historical Extractive Activities

Reference to the Envirocheck reports [2] indicates that there are no historical extractive activities on or within 500m of the site. However, reference to the site history maps included in the Envirocheck reports [2] indicates that several sand and clay pits were located across the site and in the local area which are now marked as disused.

4.3.3. Ground Stability

Ground stability hazards identified in the Envirocheck reports [2] are summarised in Table 4-6::

Table 4-5 – Summary of Ground Stability Hazards

Geological Hazard	Details
Collapsible Ground	Very Low
Compressible Ground	Majority of the site No Hazard, with an area of peat within the TCA classified as Moderate to High and the southern section of the MCA classified as High [8]
Ground Dissolution	No Hazard
Landslide	Very Low to Low
Running Sand	Very Low to Low, with an area adjacent to the coast classified as Moderate [8]
Shrinking or Swelling Clay	No Hazard to Low

4.4. Radon

Reference to the Envirocheck reports [2] indicates that site is in a lower probability radon area, as less than 1% of homes are above the action level. No radon protective measures are considered necessary in the construction of the new power station.

4.5. Hydrogeology

The Environment Agency's aquifer classifications [2] for the geology underlying the site are summarised in Table 4-6.

Table 4-6 – Aquifer Designations

Geology	Description	Aquifer Classification
Superficial	Tidal Flat Deposits	Secondary A Aquifer[1]
	Sand and Gravel	Secondary A Aquifer
	Peat	Unproductive Strata[2]
	Alluvium	Secondary A Aquifer
	Head	Unproductive Strata
	Lowestoft Till	Unproductive Strata
	Lowestoft Sand and Gravel	Secondary A Aquifer
Bedrock	Red Crag Formation	Principal Aquifer[3]
	London Clay Formation	Unproductive Strata
	Harwich Formation	Secondary A Aquifer
	Woolwich and Reading Beds Formation	Secondary A Aquifer
	Thanet Sand Formation	Secondary A Aquifer
	White Chalk	Principal Aquifer

[1] Secondary A Aquifers are permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers.
[2] Unproductive Strata are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow.
[3] Principal Aquifers are layers of rock or drift deposits that have high intergranular and/or fracture permeability - meaning they usually provide a high level of water storage. They may support water supply and/or river base flow on a strategic scale.

Groundwater flow within the Chalk Principal Aquifer is indicated to be eastwards towards the coast [21].

4.5.1. Groundwater Vulnerability

Reference to the Envirocheck reports [2] indicates that a Source Protection Zone (SPZ) III (Outer Zone) and a Source Protect Zone II (Inner Zone) are located approximately 500m and 750m to the west of the LEEIE around Leiston.

The soils underlying the majority of the site are identified as having high permeability, with the exception of the peat deposits and Lowestoft Formation, which are identified as having intermediate leaching potential [2].

4.5.2. Groundwater Abstractions

Reference to the Envirocheck reports [2] indicates that two permitted groundwater abstractions are located on site including:

- An abstraction at Upper Abbey Farm for general farming and domestic purposes from the Crag Group. The permit is operated by British Energy Generation Ltd. with a start date of 31 December 1998. The permit end date is not supplied.
- A groundwater abstraction at Sizewell B power station for make-up/top-up water from the Marine Deposits. The permit is operated by British Energy Generation Ltd with a start date of 31 December 1998. The permit end date is not supplied.

An additional 20 groundwater abstractions are listed within 1km of the site. The closest abstraction to the site is a SPZ borehole located adjacent to the south west of the TCA at Leiston Old Abbey associated with the SPZ III located to the west of the LEEIE.

It is noted that this information was obtained in 2012 [2] and new abstractions or changes to the details above may have occurred in the intervening period.

4.5.3. Discharge Consents

Reference to the Envirocheck reports [2] indicates that two consents for discharges onto land and into groundwater are indicated to be present within 1km of the site.

The consents permit the disposal of sewage to land/soakaway from a domestic property located adjacent to the west of the TCA and the disposal of trade (agricultural and surface) discharge into groundwater at an agricultural property located adjacent to the south west of the TCA.

It is noted that this information was obtained in 2012 [2] and new discharge consents or changes to the details above may have occurred in the intervening period.

4.6. Hydrology

The main surface water feature within 1km of the study area is the coastal water of the North Sea located adjacent to the eastern boundary of the site.

A series of surface freshwater features are also present within 1km of the site. These include an extensive network of ponds and drainage ditches, referred to as the Sizewell Belts located adjacent to the west and south of the site. Leiston Beck, located to the west of the MCA, receives drainage from the Sizewell Belts and runs north, parallel with the coast, before joining the Minsmere New Cut, a large watercourse running west to east discharging to the sea via a sluice gate known as ‘The Sluice’, approximately 2km north of the site.

The Minsmere New Cut river is classified a heavily modified waterbody with an ecological status of moderate and a chemical status of good in 2016 [24].

4.6.1. Flood Risk

Several areas of the site are indicated to be at risk of flooding (Flood Risk 3) as a result of rivers or seas without defences, including the southern, western and northern sections of the MCA and the eastern and southern sections of the TCA [2].

4.6.2. Discharge Consents

Reference to the Envirocheck reports [2] indicates that there are 63No. discharge consents across several locations listed within 1km of the site.

One of the discharge consents is located on-site in the south-western corner of the MCA for sewage discharges of trade effluent associated with the existing power station activities.

The majority of the discharge consents relate to processes being undertaken at the existing power station including cooling water, process water, site drainage and treated effluent discharges to the North Sea and Leiston Beck.

There are also several consents for sewage discharges from Leiston Sewage Works and consents for the discharge of trade effluent by Suffolk Water Company into Leiston Beck.

It is noted that this information was obtained in 2012 [2] and new discharge consents or changes to the details above may have occurred in the intervening period.

4.6.3. Pollution Incidents to Controlled Waters

Reference to the Envirocheck reports [2] that 30No. pollution incidents have been recorded within 1km of the site including incidents relating to oils, chemicals, organic wastes, crude and storm sewage and naturally occurring pollutants.

Several of the incidents relate to pollution of the North Sea from activities associated with the existing power station. The remaining incidents involve Leiston Beck and its tributaries.

One of the incidents was recorded on site within the MCA on 15 March 1993 relating to entry of an unknown pollutant into Leiston Beck, listed as a Category 3 (minor) incident.

It is noted that this information was obtained in 2012 [2] and additional pollution incidents may have occurred in the intervening period.

4.7. Landfill Sites

Two registered landfills and three historical landfill sites are present within 1km of the site [2] [8] including:

- Ogilvie at Home Farm, Sizewell, a registered landfill site located 200m south of the MCA. There is no identified restriction on the source of waste received by the landfill. The dates of operation of the landfill are not provided. The status of the licence is listed as lapsed;
- Leiston Landfill, a registered landfill site located 500m to the west of the LEEIE. The landfill was operational from June 1977 and there is no identified restriction on the source of waste received by the landfill. The status of the licence is listed as lapsed/cancelled or surrendered;
- Carrs Pit historical landfill located 500m to the west of the LEEIE. Inert and industrial waste were accepted at the landfill from December 1976 to December 1987;
- Abbey Pit historical landfill located present adjacent to the south-west of the TCA. No information is provided on the waste type or quantity received by the landfill or the dates of operation; and
- Aldhurst Farm historical landfill located 300m to the north-west of the LEEIE and 340m west of the southern section of the MCA. Inert, industrial, commercial, household and other (construction, demolition and dredging) wastes were accepted at the site from June 1990. There is no end date for acceptance of waste. The landfill is listed as large receiving equal to or greater than 75,000 tonnes or waste per year.

4.8. Waste Management Sites

Two waste management sites are located within 1km of the site [2] including:

- A Household Waste Amenity Site located on Lovers Lane 350m to the north of the LEEIE. The licence for the site was issued in May 1994 to Waste Recycling Ltd, but has since been transferred; and
- A Register Waste Transfer Site is located on Lovers Lane 355m to the north of the LEEIE. The licence for the site is registered to Suffolk Waste Disposal Company and was issued in May 1994. The site has a very small input rate (less than 10,000 tonnes per year) and is permitted to receive household waste. The site is operational as far as is known.

4.9. Hazardous Substances

According to the Envirocheck Reports [2], none of the following were identified on or within 500m of the site:

- Control of Major Accident Hazards Sites (COMAH);
- Explosive Sites;
- Notification of Installations Handling Hazardous Substances (NIHHS);
- Planning Hazardous Substance Consents; or
- Planning Hazardous Substance Enforcements.

However, it is noted that there are likely to be hazardous permits / consents relating to the operation of the existing Sizewell B power station.

4.10. Integrated Pollution Prevention and Control (IPPC)

There are no IPPC permits on or within 500m of the site [2].

4.11. Registered Radioactive Substances

There are no Registered Radioactive Substances permits on or within 500m of the site [2]. However, it is noted that the existing Sizewell B power station is a licenced nuclear site.

4.12. Sensitive Land Uses

The site is located within 1km of several sensitive land uses [2] as follows:

- Nitrate Vulnerable Zone – the entire site is located within a Nitrate Vulnerable Zone.
- Suffolk Coast and Heaths AONB – the AONB is present within the MCA and eastern edge of the TCA are located adjacent to the LEEIE.
- Sizewell Marshes SSSI – the SSSI is present within the western edge of the MCA and adjacent to the south and north of the TCA.
- Minsmere-Walberswick Heaths and Marshes SSSI, SAC, Ramsar and SPA – is located adjacent to the north-east of the TCA.

4.13. UXO

A Zetica UXO map was obtained to assess the risk of encountering UXO at the site. The UXO map indicates that the site is listed as being in an area at ‘moderate bomb risk’.

A UXO desk based assessment was undertaken for the area within the MCA by EOD [9]. The report states that the MCA was not directly subject to bomb attacks, but that air raid bombing incidents were reported in several areas around Leiston and Sizewell, including Sizewell Common, Sizewell estate, Leiston heath land the Sizewell Road railway crossing.

A potential UXO risk was therefore identified for the MCA and recommendations made for mitigation measures to be undertaken to reduce potential risks. These included the communication of UXO risks to all stakeholders, further planning for project operations, UXO safety awareness training and the development of a non-intrusive UXO survey and the investigation of the development area to assess any ferrous objects located within the MCA footprint. It is unknown whether these mitigation measures have been implemented for the site.

It is also unknown whether additional UXO assessments have been undertaken for the TCA and LEEIE which are likely to be within or in close proximity to the areas of air raid attacks reported in the assessment.

5. Preliminary Conceptual Site Model (PSCM)

5.1. Approach to PCSM

Land contamination is assessed through the identification of risk presented by potential contaminant linkages (PCLs), i.e. Source – Pathway – Receptor relationships, and the development of a Conceptual Site Model (CSM). Guidance provided by the Environment Agency in CLR11 [25] and the Guiding Principles for Land Contamination (GPLC) documents [26] provide the technical framework for the development of such CSMs and the application of risk assessment (qualitative or quantitative) to consider whether potential pollutant linkages are significant and hence require management or mitigation.

The National Policy Statement (NPS) for Energy Infrastructure, accompanied by the NPS for Nuclear Power Generation, does not include specific requirements for Land Quality assessment beyond considering the risks posed by land contamination and the need for an Environmental Impact Assessment (EIA). Section 4.10 of the NPS EN-01 confirms that issues related to land quality may be subject to separate regulation, and therefore the National Planning Policy Framework (NPPF) [27] has been consulted regarding the need for additional environmental assessment.

The NPPF [27] states that to prevent unacceptable risks from pollution and land instability, planning policies and decisions should ensure that new development is suitable for its proposed use and appropriate for its location, taking account of ground conditions and any risks arising from land instability and contamination. The effects (including cumulative effects) of pollution on health, the natural environment or general amenity, and the potential sensitivity of an area or proposed development to adverse effects from pollution, should be taken into account. Where a site is affected by contamination or land stability issues, responsibility for securing a safe development rests with the developer and/or landowner. The basis of CLR11 and GPLC1 is the development of the CSM which is the representation of the source-pathway-receptor (pollutant) linkages on which the assessment of risk can be based.

The basic approach to the human health and controlled waters risk assessment reported here follows the principles given in CLR11 and GPLC1, i.e. application of the following assessment hierarchy:

- Tier 1 risk screening by establishment of potential pollutant linkages, i.e. the PCSM;
- Tier 2 GQRA using generic assessment criteria (GAC) that represent ‘minimal’ or ‘tolerable’ risk; and
- Tier 3 QRA using site specific assessment criteria (SSAC) that represent ‘unacceptable risk’, or where generic assessment criteria are not available or they are not applicable to the CSM.

The following PCSM has been developed using the proposed scheme details and desk study information summarised in the preceding sections of this report, i.e. a Tier 1 assessment.

5.2. Risk Estimation

Through consideration of the potential consequence and likelihood of exposure occurring, a potential risk rating for each PCL has been assigned and is presented in Section 5.3. The purpose of this assessment is to focus upon the potential risks present based on the current baseline and the proposed development including during the construction, operation and post operational phases. It has been assumed that no mitigation measures will be implemented. The definitions of estimated risk are taken from CIRIA report C552 [28] and have been summarised in Table 5-1 below.

Table 5-1 - Definitions of Estimated Risk

Risk Level	Definition
Very High Risk	There is a high probability that severe harm could arise to a designated receptor or there is evidence that severe harm to a designated receptor is currently happening. This risk, if realised, is likely to result in a substantial liability. Urgent investigation (if not already undertaken) and remediation are likely to be required.
High Risk	Harm is likely to arise to a designated receptor. Realisation of the risk is likely to present a substantial liability. Urgent investigation (if not already undertaken) is required and remedial works may be necessary in the short term and are likely over the long term.
Medium Risk	It is possible that harm could arise to a designated receptor. However, it is either relatively unlikely that any such harm would be severe, or if any harm were to occur it is more likely that the harm would be relatively mild. Investigation (if not already undertaken) is normally required to clarify the risk and to determine the potential liability. Some remedial works may be required in the long term.
Low Risk	It is possible that harm could arise to a designated receptor, but it is likely that this harm, if realised, would be mild. Further investigation is not necessarily required, however should be considered to confirm that there is no unanticipated contamination present.
Very Low Risk	The possibility of harm to the designated receptor is either not plausible or, if the possibility of harm is plausible, risk is considered to be very unlikely with attenuation along the exposure pathway. Further investigation is not necessarily required, however may be considered to confirm that there is no unanticipated contamination present.

The risk is evaluated through the probability matrix presented in Table 5-2. The definitions of probability and consequence are given in Appendix D.

Table 5-2 - Estimation of the level of risk by comparison of consequence and probability

Probability (Likelihood)	Consequence: Severe	Medium	Mild	Minor
High Likelihood	Very High Risk	High Risk	Moderate Risk	Moderate / Low Risk
Likely	High Risk	Moderate Risk	Moderate / Low Risk	Low Risk
Low Likelihood	Moderate Risk	Moderate / Low Risk	Low Risk	Very Low Risk
Unlikely	Moderate / Low Risk	Low Risk	Very Low Risk	Very Low Risk

5.3. PCSM

Based upon the historical and present land uses identified in the various sources and publicly available information reviewed, a PCSM has been produced, identifying potential sources of contamination, migration or exposure pathways and receptors for the site. A worst-case scenario has been adopted in the preparation of this PCSM, i.e. all likely potential sources, exposure or migration pathways and sensitive receptors have been assumed to be present. The PCSM is presented in Table E.1 included in Appendix E. The following sections are described in terms of the potential source – pathway – receptor PCLs, which are defined by interpretation of the information contained

within this report and the details of the proposed development, correct at the time of writing (June 2018).

5.3.1. Potential Contaminants

The potential sources of contamination and associated groups of potential contaminants of concern have been identified from the desk-based review of information, and are outlined in Table 5-3 below. The list of activities and contaminants of concern listed in the table below should not be considered exhaustive and provides a guide to the likely range of contaminants which may be present at the site within the three zones including the MCA, TCA and LEEIE or within the surrounding area.

Table 5-3 - Summary of potential on and off-site sources of contamination

	Activity / Feature	Potential Contaminants
On-site (within MCA, TCA and LEEIE)	Former rifle range located in the centre of the MCA.	Inorganic and organic contamination including metals and hydrocarbons.
	Made Ground within the north-east of the MCA.	Inorganic and organic contamination including metals and hydrocarbons, PCBs, asbestos, etc. Ground gas generation including carbon dioxide and methane.
	Drainage and wind pumps in the north and centre of the MCA	Inorganic and organic contamination including metals and hydrocarbons.
	Sewage treatment works located on the western boundary of the MCA.	Metals, organic contaminants including biological contaminants.
	Made Ground, spoil disposal and construction waste on the MCA associated with the construction of Sizewell B and former contractors' compound.	Inorganic and organic contamination including metals and hydrocarbons, PCBs, asbestos, etc. Ground gas generation including carbon dioxide and methane.
	Activities relating to the former contractors' compound on the MCA for Sizewell B including possible storage areas, fabrication areas, lagoons, stone washing / concrete batching area.	Inorganic and organic contamination including metals and hydrocarbons, PCBs, solvents, paints, oils, asbestos, etc.
	Car park located on western edge of the MCA.	Fuels and oils attributed to spills from vehicles, plus exhaust particulates. A range of inorganic and organic contaminants.
	Activities within the MCA associated with the operation of Sizewell B power station including radioactive materials.	Risk of contamination from radioactive materials, fuel oil contamination, asbestos and PCBs.
	Former infilled sand pits located across the MCA and TCA.	Risk of inorganic and organic contamination including metals and hydrocarbons, PCBs, asbestos, etc. Ground gas generation including carbon dioxide and methane.
	Peat and alluvial deposits within the eastern edge of the TCA and in the MCA.	Ground gas generation including carbon dioxide and methane.
	Grass covered mounds (suspected Made Ground) located in the north-east of the TCA.	Inorganic and organic contamination including metals and hydrocarbons, PCBs, asbestos, etc. Ground gas generation including carbon dioxide and methane.
	Fly tipping in the north-west of the LEEIE.	Inorganic and organic contamination including metals and hydrocarbons, PCBs, asbestos, etc.
	Railway line running through the southern extent of the LEEIE and associated buildings.	Possible inorganic and organic contaminants including hydrocarbons, diesel, lubricating oils, PCBs, PAHs, solvents, herbicides, metals, asbestos and ash used as fill material.

	Activity / Feature	Potential Contaminants
	Made Ground present within the southern section of the LEEIE associated with the railway line and in the northern section associated with an infilled reservoir.	Risk of inorganic and organic contamination including metals and hydrocarbons, PCBs, asbestos, etc. Ground gas generation including carbon dioxide and methane.
	Electricity substation at the eastern extent of the proposed access road in the east of the LEEIE.	Risk of contamination from heavy metals, asbestos and PCBs.
	Farming activities across the entire site area including potential for unmarked farmer's tips.	Contamination risk from herbicides, pesticides, silage, effluent, and fuel oils. Risk of inorganic and organic contamination including metals and hydrocarbons, asbestos, etc.
	Moderate UXO risk across the site.	Risk of explosion.
	Made Ground associated with the construction of roads crossing the various areas of the site as well as activities associated with their operation.	Fuels and oils attributed to spills from vehicles on the roads, plus exhaust particulates. A range of inorganic and organic contaminants including the potential for asbestos.
Off-site (surrounding area)	Activities associated with the operation of Sizewell A and B power stations including asbestos lined tanks and their infill, the deposition of radioactive materials on the MCA and migration of contaminated groundwater onto the MCA.	Risk of contamination from radioactive materials, fuel oil contamination, asbestos and PCBs.
	Former sand pits located 250m north-west and south-east of the MCA and 250m to the south of the TCA which have been infilled.	Risk of inorganic and organic contamination including metals and hydrocarbons, PCBs, asbestos, etc. Ground gas generation including carbon dioxide and methane.
	Former brick works, brick field and clay pit located 300m to the west of the LEEIE which have been infilled.	Risk of inorganic and organic contamination including metals and hydrocarbons, PCBs, asbestos, etc. Ground gas generation including carbon dioxide and methane.
	Smithy located approximately 450m south- east of the LEEIE.	Risk of inorganic and organic contamination including metals and hydrocarbons.
	Tank and sewage works located 500m to the south west of the LEEIE.	Metals, hydrocarbons, organic contaminants including biological contaminants
	Gasworks, coal yard and tanks/gas holders located 40m to the west of the LEEIE.	Coal tar, natural gas processing, fuels. Inorganic chemicals acids and alkalis, other inorganic compounds, metals and metal compounds and asbestos.
	Historical landfills within 500m of the site including unnamed refuse tip, Ogilvie at Home Farm, Leiston Landfill, Carrs Pit, Abbey Pit and Aldhurst Farm.	A range of inorganic and recalcitrant organic contaminants including metals, leachate, nitrates, and the potential for ground gas generation.
	Electrical substation located 100m south-west of the LEEIE.	Risk of inorganic and organic contamination including metals and hydrocarbons and PCBs.
	Farming activities in surrounding areas including potential for unmarked farmer's tips.	Contamination risk from herbicides, pesticides, silage, effluent, and fuel oils. Risk of inorganic and organic contamination including metals and hydrocarbons, PCBs, asbestos, etc.
	Allotments adjacent to the south of the LEEIE.	Contamination risk from herbicides, pesticides and fuel oils.
	Works and factories within Eastlands Industrial Estate.	Vapours and a range of inorganic and organic contamination, including metals, solvents, fuels and oils.

	Activity / Feature	Potential Contaminants
	Made Ground associated with the construction of roads surrounding the site as well as activities associated with their operation.	Fuels and oils attributed to spills from vehicles on the roads, plus exhaust particulates. A range of inorganic and organic contaminants including the potential for asbestos.

5.3.2. Potential Receptors

This section details potential receptors which are relevant to the current and future site uses, and may be relevant to the construction and operation of the site. Potential receptors are outlined in Table 5-4.

Table 5-4 - Summary of potential receptors

Receptor Groups	Current site use	Future site use
Human health (on site)	Pedestrians and road users using existing roads, footpaths, railway and fields within the site	Pedestrians and road users using existing roads, footpaths and fields within the site (noted that power station site will be secure)
	Agricultural workers	Agricultural workers
	Recreational site users of the SSSI, marshes and beach along the foreshore	Recreational site users of the SSSI, marshes and beach along the foreshore
	Current Sizewell B site workers using the MCA	-
	-	Future site workers
	Residents within TCA	Residents within TCA
Human health (off-site)	Occupants of nearby residential, recreational and commercial properties	Occupants of nearby residential and commercial properties
	Pedestrians accessing surrounding roads and footpaths	Pedestrians accessing surrounding roads and footpaths
	Recreational site users of the surrounding SSSI and marshes	Recreational site users of the SSSI and marshes
	Agricultural workers	Agricultural workers
	Workers in adjacent Sizewell B power station	Workers in adjacent Sizewell B power station
Controlled Waters	Groundwater in Principal bedrock aquifer	Groundwater in Principal bedrock aquifer
	Groundwater in Secondary A superficial aquifer	Groundwater in Secondary A superficial aquifer
	North Sea	North Sea
	Ponds and drains on site and within 500m of the site	Ponds and drains on site and within 500m of the site
Property	Existing on site services and structures	Existing on site services and structures
	-	Proposed on-site services and structures
	Existing off-site services and structures	Existing off-site services and structures
	Crops and livestock (on-site and off-site)	Crops and livestock (on-site and off-site)
Ecological	Sizewell Marshes SSSI	Sizewell Marshes SSSI
	Minsmere-Walberswick Heaths and Marshes SSSI, RAMSAR, SAC and SPA	Minsmere-Walberswick Heaths and Marshes SSSI, RAMSAR, SAC and SPA

Receptor Groups	Current site use	Future site use
	Suffolk Coast and Heaths AONB	Suffolk Coast and Heaths AONB

It has been assumed that there will be limited public access to areas of the site during construction and operation particularly to the power station which will be a secure site. However, access to the site will be possible via existing roads and footpaths. In addition, the current red line boundary includes the foreshore and therefore recreational users have been included in the PCSM.

Risks in relation to short term exposure to contamination by construction workers have not been considered further as part of this assessment. Acute exposure risks will need to be assessed as part of the development of the construction phase health and safety plan and managed through standard good practice health and safety procedures.

5.3.3. Potential Migration / Exposure Pathways

This section details the potential migration or exposure pathways between the sources of contamination and receptors identified above. For a pollutant linkage to exist between the contaminant sources identified and the potential receptors, a pathway must exist.

Potential Human Exposure Pathways:

Potential exposure pathways to the identified on-site human receptors include:

- Dermal contact with and/or ingestion of contaminants in soils, soil-derived dusts and water; and
- Inhalation of soil derived dust, fibres and gas/vapours.

The potential exposure pathways to the identified off-site human receptors include:

- Dermal contact with and/or ingestion of contaminants in windblown soil-derived dusts and water that may have migrated off site; and,
- Inhalation of windblown soil derived dust, fibres and gas/vapours which may have migrated off site.

Potential Controlled Waters Exposure Pathways:

- Leaching of contaminants in soil to groundwater in underlying aquifers;
- Migration of contaminated water through preferential pathways such as underground services, pipes and granular material to groundwater in underlying aquifers;
- Migration of contaminated water into underlying aquifers followed by lateral migration into nearby watercourses; and,
- Discharge of contaminants entrained in surface water run-off followed by overland flow and discharge.

Potential Property Exposure Pathways:

- Direct contact of contaminants in soil and/or groundwater with existing and proposed structures and buried services; and
- Migration of ground gas along strata and preferential pathways such as service routes or differentially permeable strata leading to accumulation and explosion in enclosed spaces.

Potential Ecological Exposure Pathways:

- Direct contact between soil and water contamination and ecological receptors
- Contaminated surface run-off impacting upon the ecological receptors.

5.3.4. PCSM

A PCSM has been prepared for the site in its current undeveloped state (baseline), and also for future scenarios including construction, operation and post operation (for temporary works areas only). A post-operation (decommissioned) scenario has not been considered at this stage for the power station. The PCSM is included in Table E.1 in Appendix E.

6. Ground Investigation

6.1. Ground Investigation Design

As detailed in Section 3.3, several geo-environmental intrusive ground investigations have been carried out at the site including Structural Soils (2009) [7], ESG (2011) [13], Structural Soils (2014) [19] and Structural Soils (2015) [20].

Groundwater and surface water monitoring and sampling have been undertaken at the site by AMEC between 2010 and 2013 [11] [12] [16] and Atkins from 2013 to present [22]. Ground gas monitoring has been carried out by AMEC in 2011 [14].

The aims of the ground investigations and monitoring were to:

- Characterise the ground and groundwater conditions within the site (including the soil type, composition, depth, thickness and groundwater flow direction);
- Obtain geotechnical information for the proposed development; and/or,
- Characterise the contamination status of the soils and groundwater and the ground gas regime at the site.

The design of the investigations was based on the development proposals at the time they were undertaken.

6.2. Scope of Works

The scope of the various ground investigations comprised in total:

- 200No. cable percussion boreholes (with standpipe installations) to a maximum depth of 56.7metres below ground level (m bgl);
- 2No. cable percussion boring extended by rotary core drilling to a maximum depth of 120m bgl;
- 22No. rotary cored boreholes to a maximum depth of 122.9 m bgl;
- 45No. rotary open hole boreholes to a maximum depth of 100.6 m bgl;
- 2No. rotary core and rotary open hole boreholes to a maximum depth of 125.8m bgl;
- 92No. trial pits to a maximum depth of 5.0m bgl;
- 10No. sonic boreholes to a maximum depth of 21.45m bgl;
- 23No. soakaways test;
- 16No. permeability tests;
- Gas and groundwater monitoring installations in window sample, rotary cored holes, sonic boreholes and cable percussion holes;
- In situ standard penetration tests (SPTs);
- Gas and groundwater level monitoring (following the site works);
- Geotechnical laboratory testing; and
- Chemical and radiochemical laboratory testing of soils, leachate and groundwater.

The boreholes were drilled to investigate deeper geology and the trial pits were excavated to investigate the near surface ground conditions.

The factual ground investigation information is presented within the factual reports included in Appendix F. The exploratory hole locations are presented on Drawings Nos. 5166065-ATK-XX-XX-GR-G-0002, 5166065-ATK-XX-XX-GR-G-0003 and 5166065-ATK-XX-XX-GR-G-0004 in Appendix A.

6.3. Methodology

The ground investigations were undertaken in general accordance with BS: 10175 'Code of Practice: Investigation of Potentially Contaminated Sites' [29] and BS: 5930 'Code of practice for site investigations' [30] and 'Site Investigation in Construction, UK Specification for Ground Investigation, Second Edition' [31].

6.4. Geotechnical Laboratory Testing

The following geotechnical laboratory tests were undertaken during the ground investigations within Made Ground, superficial deposits and bedrock:

- 237No. Moisture Content Determination;
- 196No. Atterberg Limit Determination;
- 374No. Particle Size Distribution Analysis;
- 38No. Minimum and Maximum Dry Density Analysis;
- 61No. Unconsolidated Undrained Triaxial Compression test;
- 15No. Shear-box Test – small box;
- 16No. Consolidated Drained Triaxial Compression test;
- 57No. One Dimensional Consolidation test – Oedometer;
- 10No. Falling Head Permeability test;
- 5No. Triaxial Permeability test;
- 76No. pH, Water Soluble Sulphate, Carbonate and organic matter;
- 40No. Methylene Blue Value test;
- 23No. XRD Analysis;
- 6No. Cyclic Triaxial test;
- 2No. Resonant Column test;
- 4No. Unconfined Compression test;
- 5No. Saturated Moisture Content of Chalk test;
- 3No. Point Load Test;
- 37No. Hand Vane;
- 6No. Moisture condition value/moisture content relationship tests; and
- 9No. California bearing ratio.

6.5. In-situ Screening

Soil arisings from boreholes and trial pits were screened in-situ during the ESG ground investigation in 2011 [13] [18] using a photo-ionisation detector (PID) to measure the concentration of total volatile organic compounds (VOCs). A general screen was undertaken as the PID was held over the soil arisings to record levels of VOCs.

6.6. Chemical Analysis

Chemical analysis was carried out in accordance with Environment Agency Certification Scheme (MCERTS) and UK Accreditation Services (UKAS) accredited procedures.

6.6.1. Soils

A total of 170No. soil samples were selected for contamination testing across the various ground investigations. The majority of the chemical analysis was undertaken on soil sampled from

exploratory holes located within the MCA, with some samples tested from the TCA. No chemical analysis was completed for soil samples taken from the LEEIE.

Samples were tested for a range of contaminants of concern including pH; sulphide; metals; cyanide; Polycyclic Aromatic Hydrocarbons (PAH); Total Petroleum Hydrocarbons (TPH); benzene, toluene, ethylbenzene and xylene (BTEX); VOCS; Semi-volatile Organic Compounds (SVOCs); polychlorinated biphenyls (PCBs); Organochlorine Pesticides (OCP); Organochlorine Pesticides (OPP) and asbestos.

A total of 110No. soil samples were also scheduled for the radiochemical analysis including gross alpha (calibrated with americium-241) and gross beta (calibrated with potassium-40), high-resolution gamma spectrometry, total tritium and carbon-14.

6.6.2. Leachate

Leachability testing was carried out on 19No. soil samples collected from the 2015 investigation from the TCA. Samples were tested for a range of contaminants of concern including pH, sulphate, chloride, metals and PAHs.

6.6.3. Groundwater and Surface Water

Monthly monitoring of surface water and groundwater has been undertaken by AMEC between 2011 and 2013 and Atkins from 2013 to present. Groundwater samples were collected on 13No. occasions by AMEC between 2011 and 2012 and on 9No. occasions by Atkins between 2014 and 2015. Surface water samples were collected on 37No. occasions by AMEC between 2010 and 2013 and by Atkins on 3No. occasions between 2014 and 2015.

A total of 443No. groundwater samples were collected from monitoring boreholes located within the MCA and TCA and 540No. surface water samples were collected from a series of interconnected drainage ditches located within the MCA and in the area upstream and downstream of the MCA including Leiston Drain, SSSI drains, unnamed watercourses and Sizewell Drain.

Water samples were tested for a range of parameters and contaminants of concern including pH, ammonia, ammonium, hardness, chloride, nitrate, cyanide, metals, PAHs, BTEX, TPHs, PCBs, VOCs, SVOCs and phenols.

Samples were also scheduled for the radiochemical analysis including gross alpha (calibrated with americium-241) and gross beta (calibrated with potassium-40), high-resolution gamma spectrometry, total tritium and carbon-14.

6.7. Ground Gas and Groundwater Level Monitoring

6.7.1. Monitoring

Monthly monitoring of groundwater level was undertaken by AMEC between 2011 and 2012 and by Atkins from 2013 to present. Seven rounds of ground gas monitoring were undertaken by AMEC in 2011 as part of these monitoring rounds.

6.7.2. Installation Details

Details of the ground gas and groundwater monitoring standpipes installed within boreholes during the ground investigations are summarised in Table 6-1.

Table 6-1 - Standpipe Installation Details

Location	Response Zone (m bgl)		Stratum
	Top	Bottom	
GW1D	8.8	15.81	Crag
GW1S	0.9	3.0	Made Ground
GW2	8.8	16.07	Crag
GW3	6.7	13.89	Crag
GW4/PZ2009_ 20	3.5	10.72	Crag
GW5A/PZ200 9_19	4.1	11.12	Crag
GW6D	7.3	13.29	Crag
GW6S	0.6	4.88	Made Ground
GW7	0.4	6.68	Made Ground/ reworked natural
GW8	4.2	10.05	Made Ground/ reworked natural
GW9D	12.0	16.39	Crag
GW9S	1.0	5.71	Sand and gravel
GW10	0.4	5.38	Made Ground
GW11D	10.1	18.43	Crag
GW11S	6.0	8.7	Alluvium/peat
GW11S1	0.4	4.75	Made Ground/ reworked natural
GW12	5.4	13.8	Made Ground and Marine Deposits
GW13	1.0	6.21	Sand and gravel
GW15	0.6	4.78	Made Ground
GW16D	3.8	10.06	Crag
GW17	3.2	10.4	Made Ground/ reworked natural
GW18	4.8	12.2	Possible reworked crag
GW19	3.6	10.5	Crag
GW20	0.8	6.92	Crag
GW21	5.4	12.0	Crag
GW22	0.8	7.96	Crag
GW23	0.8	6.92	Crag
GW24D	10.0	15.34	Crag
GW24S	0.8	4.39	Made Ground
G1	0.8	7.2	Made Ground
G2	4.4	7.8	Alluvium
G3	4.1	7.0	Alluvium
G4	5.7	9.0	Alluvium
G5	1.3	5.6	Made Ground
G6	0.8	5.5	Made Ground
PZ2009_6	11.2	20.57	Probably crag
PZ2009_14	6.5	19.53	Probably crag
PZ2009_16	11.0	55.0	Probably crag
AF1	9.0	16.50	Crag
AF2	0.5	5.0	Alluvium

Location	Response Zone (m bgl)		Stratum
	Top	Bottom	
AF3	2.0	6.0	Alluvium
AF4	2.0	10.0	Crag
AF6	7.0	11.0	Crag
AF7	2.0	6.0	Crag
AF8	3.0	9.0	Crag
AF9	3.0	5.0	Alluvium and Crag
BDG01A	9.0	15.0	Crag
BDG02	8.0	20.0	Crag
BP6	10.0	20.0	Lowestoft Till Formation and Crag
BP7	12.0	20.0	Crag
BP9	8.0	20.0	Crag
BP12	12.0	20.0	Crag
BP14	6.0	12.0	Crag
BP16	15.0	20.2	Crag
BP19	6.0	12.0	Crag
BP23	6.0	12.0	Crag
BP24	13.0	20.8	Crag
BP27	9.0	20.0	Crag
BP28	8.0	20.0	Lowestoft Till Formation
BR2A	8.5	20.0	Crag
BR4	1.0	10.0	Lowestoft Till Formation and Crag
BR7	3.0	9.0	Lowestoft Till Formation
BR9	4.5	10.0	Lowestoft Till Formation
BR12	20.0	23.0	Crag
BR13-C1	6.0	15.0	Lowestoft Till Formation
BR14-C4	6.0	12.0	Crag
BR15	3.0	14.0	Crag
C3	7.0	10.0	Lowestoft Till Formation
C7	14.0	20.0	Crag
GR2	8.0	30.0	Lowestoft Till Formation and Crag
GR3	11.0	20.0	Crag
GR6	1.0	7.0	Lowestoft Till Formation
GR9	10.50	15.0	Crag
GR11	6.0	15.0	Crag
PBP4	6.0	12.0	Lowestoft Till Formation and Crag
RR7	4.0	10.0	Crag

Notes:
m bgl – metres below ground level

7. Ground Conditions

7.1. General

This section provides a summary of the ground conditions encountered during the investigations [7] [13] [19] [20]. The ground conditions for the site have been divided into three zones including the MCA, TCA and LEEIE. The depths quoted are relative to the ground levels prevailing at the time of the ground investigations.

Full details of the ground conditions encountered at each exploratory hole location are provided in the exploratory hole logs included within the factual reports in Appendix F. The exploratory hole locations are presented on Drawings Nos. 5166065-ATK-XX-XX-GR-G-0002, 5166065-ATK-XX-XX-GR-G-0003 and 5166065-ATK-XX-XX-GR-G-0004 in Appendix A.

Geological cross sections prepared for the MCA as part of the hydrogeological CSM [21] are presented in Drawings 5129919-SZC-300 to 5129919-SZC-304 included within Appendix G.

7.2. MCA

7.2.1. Topsoil

Topsoil including ploughed soil in the southern section of the zone was encountered in exploratory holes and comprised either brown orange silty or clayey sand or fine to medium grained sand. The layer generally included rootlets, with a low content of gravels or anthropogenic material. The thickness of this stratum ranged from 0.1m up to 0.8m in the southern section of the zone.

7.2.2. Made Ground

Made Ground was encountered in the majority of exploratory hole location across the northern and central sections of this zone, which often contained construction and demolition materials. Reworked topsoil was encountered within a number exploratory holes from ground surface to between 3.6m to 7.0m bgl which comprised either brown silty sand/sandy loam, brown to orange brown sand with occasional to frequent rootlets or brown/orange slightly gravelly sand with roots. Reworked sands were also encountered described as grey gravelly sand with organic and hydrogen sulphide odours and sub-angular to angular gravel and grey sand. Made Ground was recorded up to 10.8m bgl within the embankment along the eastern edge of the MCA.

7.2.3. Marine Deposits

Marine Deposits were encountered from 6.0m bgl up to depths of 12.7m bgl across the northern and central sections of the zone and in one location within the southern section of the zone. The Marine Deposits generally comprised rounded to sub-angular orange gravel with a varying content of medium to coarse-grained sands. The Marine Deposits are underlain by Alluvium and Crag Sand. The base of the Marine Deposits was not proven in all exploratory hole location.

7.2.4. Alluvium and Peat

Alluvium was encountered at depths of between 3.6m and 7.0m bgl within a number of locations in the northern and southern sections of the zone and in one location within the southern section of the zone, overlain by Made Ground or Marine Deposits. The Alluvium contained varying amounts of brown or dark yellow fibrous, slightly silty peat, interbedded with a grey sandy clay or clayey silt. Distinctive hydrogen sulphide odours were noted within the Alluvium with the thickness of the strata ranging from 2.1m to 4.6m. An average thickness of approximately 3.5m was recorded.

7.2.5. Crag Sand Formation

Crag Sand was encountered at depths of between 6.0m and 9.9m bgl in the central and northern sections of the zone and at shallow depth of 0.15m bgl in the southern section of the zone underlying

the Marine Deposits and/or Alluvium. The Crag Sand generally consisted of either orange or grey silty sand with occasional subangular to rounded flint gravel. Clasts of grey clayey sand were encountered in several boreholes, in addition to shell fragments. The base of the Crag Sand was not proven.

7.2.6. Groundwater

Groundwater was encountered between 0.9m and 7.8m bgl during the drilling within the Made Ground, Marine Deposits, Peat and Crag Sand.

7.2.7. Contamination and Anthropogenic Materials

Measurements derived from on-site screening of arisings for the presence of VOCs from exploratory holes within the MCA were generally <5ppm. A sample from GW11D collected at a depth of 8.5m bgl from the Alluvium/Peat layer recorded a VOC concentration of 20ppm.

Organic odours or hydrogen sulphide odours were noted within the Alluvium in the central and northern sections of the zone. Various anthropogenic materials likely to be associated with the construction of Sizewell B were recorded, including concrete, rebar, brick fragments, slag, geotextile fabric and plastic pipe. A pottery fragment was also noted in the southern section of the zone, likely to be related to the historic ploughing of this area.

7.3. TCA

7.3.1. Topsoil

Topsoil typically comprised a brown sand/loam with varying quantity of organic material. Humic topsoil was encountered in boreholes situated beneath pine trees. Coarse sand comprised the minor component of this topsoil, with the majority consisting of decomposing pine needles and a rootlet mat.

7.3.2. Made Ground

Made Ground was encountered within exploratory hole locations which comprised orange silty sand with charcoal fragments or sub-rounded to rounded gravel. Twisted metal fragments were observed.

Reworked landfill materials were also observed in two boreholes (GW1S and GW1D). The Made Ground primarily comprised of domestic waste within either a sand matrix or sandy clay matrix. The waste material is likely to originate from the historic Abbey Pit landfill site present adjacent to the south-west of this zone. The thickness of this waste layer was recorded up to 3.2m bgl.

Reworked topsoil (ploughed) was encountered in the boreholes and comprised either brown sand or clayey loam to a depth of 0.2m bgl. Pottery fragments were observed between the ground surface and 0.1m bgl. Reworked Crag Sand was present within a number of locations underlying landfill waste material to a depth of 4.0m bgl and comprised orange/brown/black silty and clayey sand with variable gravel content.

7.3.3. Alluvium

Alluvium was present within locations in the south-east of the zone predominantly overlain by Made Ground. Alluvium encountered comprised soft grey to black silty clay and clayey silt, with a predominantly organic odour. The thickness of the stratum ranged from 3.6m to 7.0m bgl.

7.3.4. Lowestoft Till Formation

Lowestoft Till Formation was present within many exploratory hole locations with the exception of the east of the area. This was generally described as medium dense orangish brown slightly gravelly medium to coarse sand. Gravel was subangular to surrounded, fine to coarse flint and quartzite. The stratum was encountered from depths of 0.1m and 0.8m bgl.

7.3.5. Crag Sand Formation

Crag Sand was encountered within the majority of exploratory holes excavated in this zone from depths of between 0.1m and 1.0m bgl. Crag Sand generally consisted of orange brown, slightly silty fine to coarse grained sand, with a low content of sub-rounded to rounded flint gravel and occasional silty and clayey laminations.

Occasional iron staining and poorly cemented, thinly laminated bands of silty fine sand and siltstone were observed in seven boreholes. A trace of shell fragments was observed in the Crag Sand with occasional rounded fine chalk gravel was observed within boreholes.

7.3.6. Groundwater

Groundwater was encountered between 0.45m and 11.2m bgl during the drilling within the Made Ground and Crag Sand Deposits.

7.3.7. Contamination and Anthropogenic Materials

Measurements derived from on-site screening of arisings for the presence of VOCs from exploratory holes excavated in this zone recorded concentrations of up to 2.1ppm.

Organic odours or hydrogen sulphide odours were noted within the Alluvium. Various anthropogenic materials were found and considered likely to originate from the domestic waste of the adjacent former Abbey Pit landfill site, including concrete, rebar, brick fragments, plastic cup, wood fragments and plastic pipe.

7.4. LEEIE

7.4.1. Topsoil

Topsoil was encountered in exploratory holes and comprised brown slightly gravelly silty fine to medium sand. The layer generally included rootlets, with a low content of gravels such as flint and quartzite.

7.4.2. Lowestoft Till Formation

Lowestoft Till Formation was present within the majority of exploratory hole locations. This was generally described as medium dense orangish brown slightly gravelly medium to coarse sand. Gravel is subangular to surrounded, fine to coarse flint and quartzite. The stratum was encountered between 0.4m and 0.8m bgl.

7.4.3. Crag Sand Formation

The Crag Sand Formation was encountered between 0.4m and 5.0m bgl in the exploratory holes completed within this zone. The stratum was generally described as orange brown, slightly gravelly fine to coarse sand.

7.4.4. Groundwater

Groundwater was encountered between 10.6m and 14.6m bgl during the drilling within the Crag Sand Formation.

7.4.5. Contamination and Anthropogenic Materials

‘Coarse coke’ is noted within one exploratory hole location within the zone. Black speckling is indicated within the Lowestoft Till Formation at one location.

No other signs of contamination are indicated within the logs available for this zone.

7.5. Hydrogeological Regime

A CSM for the hydrogeological regime within the MCA and adjacent area was developed by Atkins in 2015 and is summarised in the following sections. Further details of the hydrogeological regime and the assessments being completed by Atkins can be found in 'Sizewell Site C. Conceptual Site Model of the Hydrogeological Regime. Ref. 5129919/TR/001' [21].

7.5.1. Groundwater Levels

Groundwater was encountered underlying the MCA and surrounding area within the Made Ground, Peat, Lowestoft Formation (sand and gravel), Crag and Chalk.

Groundwater level data for the site and surrounding area and are summarised in Table 7-1.

Table 7-1 – Summary of Groundwater Levels

Source and Date	Data Range	Water Level Range (m AOD)
AMEC, 2012. Data collected April 2011 to May 2012	PZ2009_1 to PZ2009_21	0.17 to 1.4 based on daily averages
AMEC 2014 and current monitoring data. Data collected October 2013 to June 2014	PZ Series (PZ2009_2, PZ2009_3, PZ2009_5, PZ2009_6, PZ2009_7, PZ2009_8, PZ2009_10, PZ2009_11, PZ2009_13, PZ2009_14, PZ2009_15, PZ2009_16, PZ2009_17, PZ2009_18, PZ2009_19, PZ2009_20, PZ2009_21); Crag Series (C1S, C1D, C2S, C2D, C3S, C3D, C4S, C4D); GW Series (GW2, GW3, GW9D, GW11D, GW12, GW20, GW21, GW24S, GW24D)	-0.158 to 2.286
Structural Soils, 2014. Manual data collected February to April 2014	BDG01A, BDG02, BP6, BP7, BP9, BP12, BP14, BP16, BP19, BP23, BP24, BP26, BP27, BP28, BR13-C1, BR14-C4, BR15, C3, C7, GR9, GR11, PB4, RR7	0.38 to 3.47

7.5.2. Groundwater Flow and Gradient

Groundwater flow within the Crag was found to be primarily towards the coast, with localised groundwater flow occurring to the north and south.

During periods when high water levels were recorded across the monitoring network, groundwater levels within the MCA were noted to be significantly elevated relative to the surrounding area. The higher water levels may be a result of the Sizewell B cut-off wall to the south causing water levels to rise locally, or it may be a result of Made Ground causing delayed recharge to the underlying Crag aquifer.

During lower water levels, a slight dip in groundwater levels was noted, suggesting that the main Leiston Beck / Sizewell Drain may be receiving groundwater baseflow.

7.5.3. Aquifer Properties

The perched groundwater within the Made Ground is considered to be in partial hydraulic continuity with the underlying natural strata, with the laterally inconsistent areas of cohesive material delaying recharge to the underlying aquifers.

The Crag Sand Formation aquifer is thought to be generally unconfined. The Crag Sand Formation water level is influenced by tidal variation of sea level and is slightly higher than that of the Peat. It is therefore considered that there is the potential for groundwater within the Crag Sand Formation to migrate upwards into the Peat.

However, no tidal variation was observed in the Peat. There is also some hydraulic separation between these aquifers due to the low vertical hydraulic conductivity of the Peat and the local presence of low hydraulic conductivity deposits such as Alluvium and Tidal Flats beneath the Peat, which prevent rapid transmission of water between the two groundwater systems.

The water types observed across the site also indicate that there is continuity between the Peat deposits and the surface water drains.

The observed groundwater levels indicate that where the Thames Tertiary Deposits are largely absent, the Crag Sand Formation and Chalk are in hydraulic continuity, however where the Thames Deposits confine the Chalk, groundwater levels diverge. The large difference in the piezometric head of the Chalk and Crag Sand Formation beneath the MCA, suggests that the London Clay is acting as an aquiclude and confining the Chalk.

The Crag Sand Formation boreholes within the MCA indicated a degree of salt water intrusion. The Crag Sand Formation boreholes on the western edge of the MCA indicated a greater degree of saline intrusion than those on the eastern edge of the MCA.

The Chalk is a dual porosity aquifer with a matrix of pores and larger fractures contributing to the overall hydraulic conductivity of the aquifer. The matrix hydraulic conductivity is low and the overall hydraulic conductivity of the aquifer is generally controlled by the larger pores and fractures.

8. Contamination Assessment

8.1. Assessment Introduction

The following presents a summary of the soil, leachate, surface water and groundwater analytical data and ground gas monitoring data collected from the ground investigations [7] [13] [19] [20] and provides a preliminary assessment of the results based on the proposal end use for the site.

A complete set of the analytical and monitoring data is presented within the factual reports included in Appendix F. The exploratory hole locations are presented on Drawings Nos. 5166065-ATK-XX-XX-GR-G-0002, 5166065-ATK-XX-XX-GR-G-0003 and 5166065-ATK-XX-XX-GR-G-0004 in Appendix A.

8.2. Human Health Risk Assessment

8.2.1. Generic Assessment Criteria

A Tier 2 human health GQRA has been undertaken for the receptors identified in the PCSM in Section 5.3. To evaluate the potential risks to human health, soil data have been screened against GAC. Detailed guidance on human health risk assessment is available in Science Report SR2 [32] SR3 [33] and the CLEA Model. The GAC used in this assessment include the following:

Soil Screening Values (SSVs)

Atkins has produced SSVs based on minimal toxicological risk [32] for a variety of standard land uses at 1% Soil Organic Matter (SOM) (sand soil type) and 6% SOM (sandy loam soil type) using CLEA v1.071 in accordance with Environment Agency guidance [33].

Category 4 Screening Levels (C4SLs)

A revision to the Statutory Guidance of Part 2A of the Environmental Protection Act 1990 was published in April 2012, introducing a new category-based system for assessing risks associated with land contamination including the assessment of the 'significant possibility of significant harm' (SPOSH) whereby Category 1 sites are clearly contaminated and represent a high risk and Category 4 sites are clearly identifiable as low risk and as such would not be classified as Contaminated Land.

C4SLs for six contaminants (arsenic, cadmium, hexavalent chromium, lead, benzene and benzo(a)pyrene) for a sandy loam soil with 6% SOM were issued by Defra in December 2014 [34] to provide an indication of "low risk" (i.e. the site is clearly within Category 4), whereas GAC, such as SGVs / SSVs, are based on "minimal risk". If soil concentrations exceed the C4SLs, then further assessment is required to confirm whether the site lies within Category 4, or may lie within Categories 1-3. The Department for Communities and Local Government has indicated the C4SLs can also be used under the planning regime. Therefore, for this site C4SLs have been used for those determinants that do not have a SSV.

Suitable for Use Levels (S4ULs[4])

The Land Quality Management Ltd (LQM) S4UL for nickel has been selected as a GAC because there is currently no SGV, SSV or C4SL for nickel. The S4UL is based on a sandy loam soil as defined in SR3 [33] with 6% SOM.

Soil data have been screened against several GACs, as described below, to reflect the various uses of the site and surrounding area. GACs for a commercial end use have been adopted for the assessment, as they are considered conservative for the proposed site end-use of a power station.

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The commercial GACs are based on an office scenario which assumes a critical receptor (female worker, age 16 to >65 years) working five days a week for 46 weeks of the year, with an exposure frequency of 230 days per year.

Soil data have also been screened against GAC for a public open space (parks) to assess risks to recreational users of the SSSI, marshes and beach along the foreshore and within the adjacent area. It is noted that an accommodation campus will be located within the TCA, which would require more stringent GAC for a residential end use to be applied. However, no existing soil testing data are currently available for this area.

In the absence of soil SOM data, the GAC developed for a SOM content of 1% have been adopted as this is a more conservative assessment.

Based on the ratio of genotoxic PAHs to benzo(a)pyrene, the surrogate marker approach for genotoxic PAHs as set out in the C4SL Project Methodology [34] has been adopted.

Potential acute risks resulting from short term exposure to contamination by construction/ maintenance workers involved with the proposed development cannot be assessed using these GAC because they relate to the long-term (chronic) risk. Risks to construction/maintenance workers should be managed with the use of appropriate safe systems of work including Personal Protective Equipment (PPE).

It should be noted that the GACs are liable to change as new policy and technical guidance, including toxicological data, are published by the Environment Agency and other authoritative sources. Further to this, a Detailed Quantitative Risk Assessment (DQRA) may be required to review the level of conservatism in the screening values, depending upon the outcome of the generic data screening exercise at detailed design stage.

8.2.2. Soil Assessment

A total of 170No. soil samples were tested as part of the ground investigations. No exceedances of the commercial land use or public open space (parks) GAC were identified in the soil samples tested. An assessment table of the data including GAC is included in Appendix H.

8.2.3. Asbestos

Asbestos screening in the laboratory was undertaken on 49No. samples. Asbestos was not recorded to be present in any of the soil samples which were visually screened.

8.3. Controlled Waters Assessment

8.3.1. Generic Assessment Criteria (GAC)

A Tier 2 controlled waters GQRA has been undertaken to assess the potential risks posed to the identified controlled waters receptors from the migration of contaminants from identified on-site sources. To assess potential risks to the identified receptors, a comparison of soil-derived leachate and groundwater data against water quality standards (WQS) has been undertaken.

The screening criteria for controlled waters assessment are dependent on the nature of the key receptor. The site is underlain by the Crag Sand and Chalk Formations, which are classified as a Principal Aquifers and an abstraction borehole associated with a Zone 3 groundwater SPZ is located adjacent to the south-west of the TCA. Drainage ditches associated with the SSSI marshland are present across the site draining into Leiston Beck and the New Minsmere Cut. The North Sea is present adjacent to the east of the MCA.

The primary controlled waters receptors are considered to be the Principal Aquifer as a groundwater resource. However, it is noted that there is significant saline intrusion within the Crag Sand Formation Aquifer underlying the majority of the site [21], which would reduce its value as a potable water resource. The associated watercourses within the SSSI are also identified to be key controlled waters receptors.

Soil leachate and groundwater data have therefore been screened against WQS based on both Drinking Water Standards (DWS) to assess the potential risk posed to the underlying Principal Aquifer and coastal and estuarine Environmental Quality Standards (EQS) to assess risks to the surface watercourses within the SSSI.

8.3.2. Soil Leachate

A total of 19No. samples were tested for their leachability of contaminants. Six exceedances against WQS were identified in three locations within the TCA as follows:

- One sample from CPB BP9 at 3m bgl (sand) exceeded the WQS value for benzo(ghi)perylene. The maximum recorded concentration for benzo(ghi)perylene was 0.00002mg/l;
- One sample from CP BP13 at 6m bgl (sand) exceeded the WQS value for zinc. The maximum recorded concentration was 0.1mg/l;
- One sample from CP BP9 at 3m bgl (sand) exceeded the WQS value for chromium. The maximum recorded concentration was 0.001mg/l; and
- One sample from CP BP7 at 7m bgl (sand) and two samples from CP BP11 (sand) at 4m and 7m bgl exceeded the WQS value for fluoranthene. The maximum recorded concentration for fluoranthene was 0.00004mg/l.

An assessment table of the data including WQS is presented in Appendix I.

Considering the following lines of evidence, it is unlikely that exceedances of contaminants identified in soil leachate would represent an unacceptable risk to identified controlled waters receptors:

- Laboratory leachate testing is generally more aggressive than in-situ conditions and may not be representative of actual leaching conditions, potentially overestimating the concentrations;
- The exceedances were in the same order of magnitude as the WQS and are therefore considered to be marginal;
- The elevated results were reported in samples from natural material collected from the Crag Formation (sand);
- No soil chemical testing data are available for these locations. However, no evidence of Made Ground or signs of visual or olfactory contamination were reported in the borehole logs;
- Groundwater was encountered in these locations at depths of between 11.8m and 14.0m bgl and the closest surface watercourses associated with the SSSI are located 600m to the east. Natural attenuation, dilution/dispersion and groundwater retardation will further reduce the concentrations of contaminants before they reach the groundwater or surface watercourses; and
- Groundwater data collected from these boreholes over four monitoring rounds indicate that concentrations of all PAHs were below the laboratory limit of detection on all occasions.

8.3.3. Groundwater

A total of 443No. groundwater samples from a range of strata were collected from monitoring boreholes across the site (refer Section 6.7) on 13No. occasions by AMEC between 2011 and 2012 and on 9No. occasions by Atkins between 2014 and 2015.

Several elevated concentrations of inorganics, metals, PAHs and VOCs were recorded in groundwater samples when assessed against the WQS. A summary of the exceedances is provided in Table 8-1 and Table 8-2. A more detailed assessment of the data including WQS is included in Appendix K.

Table 8-1 - Summary of groundwater exceedances (Atkins data)

Determinand	Unit	Screening Value (EQS)	Screening Value (DWS)	Maximum	No. Exceedances (EQS)	No. Exceedances (DWS)
Chloride	mg/l	N/A	250	9500	-	24

Determinand	Unit	Screening Value (EQS)	Screening Value (DWS)	Maximum	No. Exceedances (EQS)	No. Exceedances (DWS)
Nitrite	mg/l	N/A	0.5	1.1	-	1
Nitrate	mg/l	N/A	0.05	190	-	54
Sulphate	mg/l	N/A	250	1400	-	1
Sodium	mg/l	N/A	200	2100	-	13
Arsenic (Dissolved)	mg/l	0.025	0.01	0.067	4	10
Cadmium (Dissolved)	mg/l	0.0002	0.005	0.0006	4	-
Chromium (Dissolved)	mg/l	0.0006	0.05	0.068	78	2
Copper (Dissolved)	mg/l	0.00376	2	0.03	12	-
Manganese (Dissolved)	mg/l	N/A	0.05	0.45	-	5
Nickel (Dissolved)	mg/l	0.0086	0.02	0.03	9	1
Lead (Dissolved)	mg/l	0.0013	0.01	0.0071	3	-
Zinc (Dissolved)	mg/l	0.0068	3	0.053	30	-
Iron (Dissolved)	mg/l	1	0.2	18	13	24

Table 8-2 - Summary of groundwater exceedances (AMEC data)

Determinand	Unit	Screening Value (EQS)	Screening Value (DWS)	Maximum	No. Exceedances (EQS)	No. Exceedances (DWS)
Arsenic	mg/l	0.025	0.01	0.077	46	47
Boron	µg/l	7	1	1402	149	150
Cadmium	mg/l	0.0002	0.005	0.009	7	6
Chromium	µg/l	0.0006	0.05	7	1	1
Lead	µg/l	0.0013	0.01	6	10	10
Nickel	mg/l	0.0086	0.02	0.099	155	162
Copper	mg/l	0.00376	2	0.032	39	-
Zinc	mg/l	0.0109	3	1.234	252	-
Mercury	mg/l	0.00007	0.001	0.0025	20	14
Iron	mg/l	1	0.2	54.37	127	170
Sodium	mg/l	N/A	200	5336	-	46
Sulphate	mg/l	N/A	200	1197	-	20
Chloride	mg/l	N/A	250	8504	-	139
Nitrate	mg/l	N/A	0.05	214	-	42
Ammonium as NH4	mg/l	-	0.5	84.6	-	25
Free Cyanide	mg/l	0.001	-	0.01	10	-
Naphthalene	mg/l	0.002	-	0.00323	26	-

Determinand	Unit	Screening Value (EQS)	Screening Value (DWS)	Maximum	No. Exceedances (EQS)	No. Exceedances (DWS)
Anthracene	µg/l	0.0001	-	0.1	18	-
Fluoranthene	mg/l	0.0000063	0.00001	0.001	14	-
Benzo(b)fluoranthene	mg/l	0.000017	-	0.00013	2	-
Benzo(k)fluoranthene	mg/l	0.000017	0.00001	0.00016	2	-
Benzo(a)pyrene	mg/l	0.00000017	0.00001	0.00016	2	2
Toluene	µg/l	0.074	0.7	1	1	1
1,1,1-Trichloroethane	µg/l	0.1	2	3	2	1
Tetrachloroethylene	mg/l	0.01	-	0.031	2	-
1,2-Dichloroethane	mg/l	0.01	0.003	0.132	2	2
Hexachlorobutadiene	µg/l	0.0006	0.0006	1	1	1

Elevated concentrations of inorganics including chloride, sulphate, ammonium, nitrate and sodium are widespread across the site. Reference to the hydrogeological CSM for the MCA [21] indicates that there is significant saline intrusion within the Crag Sands Aquifer underlying the majority of this zone and parts of the TCA. Groundwater quality therefore indicates that it is being affected by marine influences causing these elevated concentrations.

Elevated concentrations of metals and inorganics were generally reported within the same order of magnitude or one order of magnitude above the WQS and are therefore considered to be marginal. Zinc, ammoniacal nitrogen, lead, boron, nitrate and chromium were reported at greater concentrations above the WQS. These elevated concentrations are widespread across the site and are likely to be due to influences from the underlying geology (peat deposits), adjacent marshes and farming activities in the surrounding areas.

Elevated concentrations of BTEX, PAHs and VOCs (solvents) were generally reported within the same order of magnitude or one order of magnitude above the WQS, and considered marginal with the exception of fluoranthene, benzo(a)pyrene, anthracene and hexachlorobutadiene which were reported at greater concentrations above the WQS.

The exceedances of BTEX, PAHs and VOCs (solvents) were reported in samples from four boreholes (GW6D, Pz2009_16, Pz2009_14, GW11S1 and GW20) located within the MCA. The exceedances were generally only reported on one monitoring round at each location, with the exception of GW6D and GW20 where exceedances were reported on two consecutive monitoring rounds. Reference to the exploratory hole logs indicates that the boreholes are all installed within the Crag Formation. Made Ground (to a depth of between 0.6m and 6.2m) is present at the majority of locations (with the exception of Pz2009_14) overlying Crag sand. The Made Ground comprises re-worked natural material with no evidence of visual or olfactory contamination. Peat was encountered beneath the Made Ground up to 3.4m deep in GWD6 and Pz2009_16.

No soil or leachate testing was undertaken for these boreholes. However, reference to chemical testing data for adjacent boreholes and trial pits with similar geology indicates that concentrations of PAHs, BTEX and VOCs in soil samples from the Made Ground and underlying natural material in the surrounding areas were below the laboratory limits of detection.

Although there have been potentially contaminative historical uses within the MCA, there is no obvious source of the elevated levels of BTEX and PAHs in these locations and the exceedances may be due to influences from the underlying peat deposits which can cause elevated organic concentrations. The source of the elevated levels of VOCs (solvents) is also not confirmed at present.

8.3.4. Surface Water

Surface water samples were collected on 37No. occasions by AMEC between 2010 and 2013 and Atkins on 3No. occasions between 2014 and 2015. A total of 540No. surface water samples from a series of interconnecting drainage ditches located on-site and in the area upstream and downstream of the MCA including Leiston Drain, SSSI drains, unnamed watercourses and Sizewell Drain were collected and tested.

Exceedances of metals and inorganic contaminants were identified in the majority of samples against WQS. A summary of the exceedances is provided in Table 8-1 and Table 8-4. A full assessment of the data including WQS is included in Appendix J.

Table 8-3 - Summary of Surface Water Exceedances (AMEC)

Determinand	Unit	Screening Value (EQS)	Maximum	No. Exceedances (EQS)
Zinc	mg/l	0.0068	112	540
Iron	mg/l	1	1,689	136
Nickel	mg/l	0.0086	6	42
Mercury	mg/l	0.00007	1.41	16
Lead	mg/l	0.0013	16	29
Sodium	mg/l	N/A	2,396	-
Chloride	mg/l	N/A	15,655	-
pH	pH units	7 - 9.0	8.4	134
Dissolved Copper	mg/l	0.00376	30.1	259
Dissolved Zinc	mg/l	0.0068	238	354
Dissolved Nickel	mg/l	0.0086	1.41	18
Sulphate	mg/l	N/A	410	-

Table 8-4 - Summary of Surface Water Exceedances (Atkins)

Determinand	Unit	Screening Value (EQS)	Maximum	No. Exceedances (EQS)
Dissolved Chromium	mg/l	0.0006	0.068	24
Dissolved Copper	mg/l	0.00376	0.0039	1
Dissolved Zinc	mg/l	0.0068	0.046	21

Water quality within the surface watercourses on and surrounding the site is noted to be moderate to poor [16]. The water chemistry is likely be influenced by discharges from the Leiston Sewage Treatment Works which may contribute to the elevated concentrations of ammonium and metals. There are also likely to be marine influences (e.g. high sodium, sulphate and chloride concentrations) on the watercourses in the eastern and northern parts of the MCA and TCA from incursion of seawater through the Minsmere Sluice and groundwater influences on the watercourses in closest proximity to the coast.

8.4. Ground Gas Assessment

A preliminary ground gas risk assessment has been undertaken in general accordance with BS 8485:2015 [35] code of practice for design of protective measures for methane and carbon dioxide ground gases for buildings.

BS8485:2015 states that hazardous gas flow rates (Qhg) should be calculated for methane and carbon dioxide for every borehole for each visit, and suggests the Qhgs be presented alongside the gas monitoring results in a database. Qhg is calculated using the maximum gas concentration recorded (unless lower values can be justified) and the steady state flow rate using the below formula:

Qhg (l/hr) = flow rate (l/hr) x [gas concentration (%) / 100]

The Gas Screening Value (GSV) is the flow rate of a specific hazardous gas considered to be representative of a site, following assessment of all borehole concentrations and gas flow rates, whilst taking account of other influencing factors.

BS8485:2015 indicates that a decision must be made to determine whether the maximum Qhg in the dataset is appropriate to represent the site (and thereby be selected as the GSV), or whether maximum gas concentrations and maximum steady state flow rates should be combined from any borehole/visit to derive a "worst case GSV".

The GSV considered representative for the site is then used to select a Characteristic Situation (CS), which is the ground gas regime assumed for design of gas protection measures for new buildings in accordance with BS8485:2015. The CS is measured on a scale of 1 (very low risk) to 6 (very high risk) and assists in the determination of potential risks associated with the site and provides a general scope of protection measures. The GSVs and CS are presented in Table 8-5 (which is based on Table 2 in BS8485:2015).

BS8485:2015 does not include an approach for assessing carbon monoxide or hydrogen sulphide. The relevant Workplace Exposure Limits (WELs) as outlined within the HSE EH40/2015 (2011) document (Health and safety executive, 2011) have been adopted for use in a preliminary assessment of carbon monoxide and hydrogen sulphide:

- Carbon monoxide: 30 parts per million (ppm) for long-term (eight hours) exposure limit and 200 ppm for short-term (15 minutes) exposure limit; and
- Hydrogen sulphide: 5 ppm for the long-term exposure limit and 10 ppm for the short-term exposure limit.

Table 8-5 - Site Characteristic GSV and Associated CS

CS	Risk Classification	GSV	Additional Factors
1	Very Low Risk	<0.07	Typical methane <1 % and/or carbon dioxide <5 %. Otherwise consider increase to CS 2.
2	Low Risk	<0.7	Borehole air flow rate not to exceed 70 l/hr. Otherwise consider increase to CS 3
3	Moderate Risk	<3.5	-
4	Moderate to High Risk	<15	Quantitative risk assessment required to evaluate scope of protective measure
5	High Risk	<70	-
6	Very High Risk	>70	-

Ground gas was monitored on seven occasions by AMEC in 2011. A summary of the monitoring data is provided in Table 8-6.

Table 8-6 - Summary of Ground Gas Monitoring

Borehole No.	Response Zone	Location	CH_4 (% vol.)	CO_2 (% vol.)	O_2 (% vol.)	CO (ppm)	H_2S (ppm)	Flow Min – Max (l/hr)
GW1D	Crag	TCA	<0.1-0.1	<0.1-8.7	12.4-20.8	<1-2	<1	-0.2-0.4
GW1S	Made Ground	TCA	<0.1-0.1	5.1-9.0	11-15.3	<1-3	<1	-0.1-0.1
GW2	Crag	TCA	<0.1-0.1	<0.1-2.3	18.8-20.7	<1-2	<1	-0.3-0.4
GW3	Crag	TCA	<0.1-0.1	<0.1-1.8	20.2-20.6	<1-1	<1	<0.1-0.1
GW4/ PZ2009_ 20	Crag	TCA	<0.1	0.1-1.5	20.1-20.9	<1-3	<1	-0.1-0.1
GW5A/ PZ200 9_19	Crag	TCA	<0.1	<0.1-0.2	20.2-21.0	<1-3	<1	-0.2-0.2
GW6D	Crag	MCA	<0.1-0.1	0.2-0.6	19.8-20.2	<1-3	<1	-0.1-0.1
GW6S	Made Ground	MCA	<0.1-0.7	<0.1-0.2	19.9-20.7	<1-3	<1	-0.1-0.1
GW7	Made Ground/ reworked natural	MCA	<0.1-0.2	0.1-1.1	18.6-20.6	<1-2	<1	-0.1-0.1
GW8	Made Ground/ reworked natural	MCA	<0.1-1.2	0.7-0.9	19.1-20.2	<1-1	<1	-0.1-0.1
GW9D	Crag	MCA	1.1-29.6	0.6-2.7	14.1-19.7	<1-4	<1	-0.2-0.0
GW9S	Sand and gravel	MCA	<0.1-4.0	0.4-1.5	18.0-20.6	<1-4	<1	-0.1-0.3
GW10	Made Ground	MCA	<0.1-2.4	0.2-3.3	12.8-20.5	<1-4	<1	-0.3-0.2
GW11D	Crag	MCA	<0.1-0.8	<0.1	19.8-20.9	<1-2	<1	-0.1-0.2
GW11S	Alluvium/peat	MCA	0.5-18.6	0.1-4.3	15.0-20.2	<1	<1	-0.3-0.1
GW11S1	Made Ground/ reworked natural	MCA	0.1-14	0.1-2.3	15.9-20.8	<1	<1	-0.2-0.1
GW12	Made Ground and Marine Deposits	MCA	<0.1	<0.1-3.0	15.0-20.7	<1-1	<1	<0.1-0.1
GW13	Sand and gravel	MCA	<0.1	0.1-0.7	19.1-20.9	<1-4	<1	-0.1-0.2
GW15	Made Ground	MCA	0-83.8	12.1-13.6	0.5-7.6	<1-4	<1	-1.8-0.3
GW16D	Crag	MCA	<0.1	0.2-0.6	20.0-20.6	<1-5	<1	-0.2-0.1
GW17	Made Ground/ reworked natural	MCA	<0.1-0.1	<0.1-0.4	19.8-20.5	<1-3	<1	-0.1-0.1
GW18	Possible reworked crag	MCA	<0.1-0.1	<0.1-0.7	19.3-20.5	<1-4	<1	-0.1-0.1
GW19	Crag	MCA	<0.1-0.1	<0.1-2.5	17.3-20.7	<1-4	<1	-0.1-0.2
GW24D	Crag	MCA	0-1.3	<0.1	19.9-20.7	<1	<1	<0.1-0.1
GW24S	Made Ground	MCA	<0.1-0.2	0.2	19.7-20.8	<1-5	<1	-3.5-0.2
G1	Made Ground	MCA	<0.1-1.0	0.2-1.9	14.6-20.2	<1-1	<1	-0.1-0.1
G2	Alluvium	MCA	<0.1-0.4	<0.1	19.9-20.9	<1	<1	-0.1-0.1
G3	Alluvium	MCA	<0.1-20.3	2.4-5.9	11.4-19.8	<1	<1	-0.1-0.1
G4	Alluvium	MCA	3.3-35.3	0.2-3.5	14.2-20.2	<1-2	<1	<0.1-0.2
G5	Made Ground	MCA	<0.1-19.7	<0.1-2.3	18.3-20.2	<1-4	<1	-0.1-0.1
G6	Made Ground	MCA	<0.1	0.1-0.6	19.6-20.3	<1-3	<1	<0.1-0.1

Borehole No.	Response Zone	Location	CH_4 (% vol.)	CO_2 (% vol.)	O_2 (% vol.)	CO (ppm)	H_2S (ppm)	Flow Min – Max (l/hr)
PZ2009_6	Probably crag	MCA	<0.1 – 0.1	<0.1-0.1	20.3-20.8	<1-10	<1	-0.2-0.1
PZ2009_14	Probably crag	MCA	<0.1	<0.1	19.8-20.4	<1-4	<1	-0.3
PZ2009_16	Probably crag	MCA	<0.1 – 0.1	0.1 – 0.2	19.7-21.1	<1-3	<1	<0.1-0.2

The highest recorded concentration of methane within the TCA was 0.1% v/v and the highest recorded concentration of carbon dioxide was 9.0% v/v. The maximum recorded flow rate was 0.4l/hr. A 'worst case' GSV for the TCA has been calculated as 0.036. Due to the elevated concentrations of carbon dioxide (above 5% v/v), the worst case GSV corresponds to CS2, which implies a low risk but requires gas protection measures.

The highest recorded methane concentration within the MCA was 83.8% v/v with the highest concentration of carbon dioxide recorded at 13.6% v/v. The maximum recorded flow rate was 0.3 l/hr. A 'worst case' GSV for the TCA has been calculated as 0.2514. The worst case GSV corresponds to CS2, which implies a low risk but requires gas protection measures.

Elevated levels of ground gas were recorded in boreholes G3 and G4 which are installed with a response zone within the peat, boreholes GW1S, GW11S and GW15 which are installed within the Made Ground and GW9D which is installed within the Crag Sands Formation, but directly overlain by a peat layer. It is therefore likely that the alluvial peat and the Made Ground are the primary sources of the ground gas.

No elevated concentrations of carbon monoxide or hydrogen sulphide were recorded above WELs.

8.5. Radiochemical Data Assessment

A radiological survey was carried out by AMEC in 2010 [10] and a factual summary is provided in the following sections.

The results of the survey undertaken by AMEC concluded that radiation levels within the MCA were generally consistent with background concentrations. A small number of elevated walkover survey readings were noted by AMEC within the MCA in close proximity to the Sizewell B site boundary.

A radiochemical assessment of soil sample data collected in 2011 was undertaken by AMEC in 2014 [18] to assess potential risks from radiation in the soils at the site. For data assessment purposes, the radionuclide results were compared by AMEC to published background values where available. AMEC concluded that the soil samples collected had levels of radionuclides generally consistent with background levels.

A radiochemical analysis of surface water data [16] and groundwater data [18] collected between 2011 and 2013 was also undertaken by AMEC. The assessment indicated that levels of radionuclides in several surface water and groundwater samples exceeded DWS screening criteria. However, AMEC concluded that surface water and groundwater were not considered to be contaminated with significant levels of radionuclides to present a hazard to human health.

8.6. Re-use of Excavated Material On-site

It is recommended to maximise the re-use of materials on-site, where possible on grounds of both cost and sustainability. Early consideration of the re-use of material is recommended, in order to maximise opportunities. The re-use of on-site excavated soils should be undertaken under the latest version of the CL:AIRE Definition of Waste Code of Practice (DoWCoP) [36].

Under the DoWCoP, there are four factors which need to be considered to determine whether materials excavated on-site are deemed to be waste or not. These include:

- Factor 1: Protection of human health and protection of the environment;

- Factor 2: Suitability for use, without further treatment;
- Factor 3: Certainty of Use; and
- Factor 4: Quantity of Material.

The production of a Materials Management Plan (MMP) is used to assist with the consideration of these factors to ensure that a correct determination is made in relation to the nature of the materials.

A 'Qualified Person', as defined under the DoWCoP, is required to review MMP, Risk Assessments and Remediation Strategy/Design Statement, together with documentation relating to Planning and Regulatory issues, and then to sign a Declaration which is forwarded to the Environment Agency confirming compliance with the DoWCoP.

8.6.1. Topsoil Assessment

A preliminary topsoil assessment of the relevant soil data has been undertaken to assess the potential for reuse of the soil but also to provide information on the potential risks to ecological receptors (flora). Chemical data for pH, copper, nickel and zinc from 165No. soil samples collected from ground level to 1.0m bgl have been screened against criteria outlined in BS:3882-2015 Specification for Topsoil [37].

Six of the soil samples were reported to be slightly acidic (with pH values below pH 7) and five of the samples were reported to be slightly alkaline (with pH values above 8.5). Concentrations of zinc, copper and nickel within the relevant samples were reported to be within the acceptable ranges for topsoil.

The soil samples with pH values outside the specified range were from exploratory holes located within the MCA. No soil samples were tested within other zones on the site. It is likely that the majority of the MCA will be covered with hardstanding and the topsoil may be used elsewhere within the development. However, in areas of proposed landscaping, a suitable growing medium may be required.

8.7. Preliminary Classification of Waste

To classify materials that may potentially be excavated across the site during construction works and require disposal to landfill, a number of steps are required as part of the WM3 Regulations [38] and the current waste management legislation and guidance. The initial steps are to identify:

- If the materials are waste;
- Whether the waste is required to be classified at all;
- The relevant EU List of Waste codes;
- The chemical composition of the material; and,
- If the substances in the waste are 'hazardous substances' or 'Persistent Organic Pollutants'.

Material that is surplus to requirements and where there is no clear strategy for reuse on-site is classified as waste and should be disposed of in accordance with Duty of Care as specified in the current waste management legislation and guidance [39]. If material is destined for landfill, Waste Acceptance Criteria (WAC) analysis will be required to demonstrate to the landfill that the material is acceptable for disposal at the specific landfill.

A preliminary waste assessment has been undertaken based on analysed concentrations of contaminants in the soil samples obtained during the site investigation and using Atkins' on-line waste classification tool (CatWaste^{Soil}) [40].

A total of 170No. soil samples were assessed using CatWaste^{Soil}. The results of the assessment indicate that the majority of samples would be classified as non-hazardous waste. One sample (GW1D ES3) was classified as hazardous waste due to elevated lead and zinc concentrations, defined as Hazardous Property HP14: eco-toxic, Hazard Category H410 - Aquatic chronic 1; very toxic to aquatic life with long lasting effects. The waste assessment results are included in Appendix H.

This classification is based on a limited number of samples and any actual material to be removed off-site for disposal must be appropriately classified and agreed with the chosen landfill operator. It is the responsibility of the waste producer to classify, treat, manage and dispose of waste appropriately and to ensure the chosen landfill is licensed to accept such material. WAC testing will be required if the material is destined for landfill.

8.8. Contamination Summary

8.8.1. Human Health Risks

There are no exceedances against the human health GAC for a commercial or public open space (parks) end use for the contaminants in the soil samples analysed. No asbestos was identified within any of the soil samples which were visually screened.

8.8.2. Controlled Waters Risks

Leachate testing of soils identified six exceedances of benzo(ghi)perylene, fluoranthene, zinc and chromium above WQS at three locations within the TCA. The elevated concentrations were reported in natural material from the Crag Formation and there was no evidence of Made Ground at these locations. Due to the depth of groundwater and distance to surface water courses, it is considered unlikely that the exceedances identified in soil leachate would represent an unacceptable risk to identified controlled water receptors. In addition, groundwater data collected from these boreholes indicate that concentrations of PAHs were reported below the laboratory limit of detection on all monitoring rounds in these locations.

Elevated concentrations of inorganics were recorded in groundwater samples above WQS. The groundwater underlying the majority of the MCA and parts of the TCA is reported to have significant saline intrusion which is confirmed by the analytical data.

Elevated concentrations of metals, nitrate and ammoniacal nitrogen were also recorded in groundwater samples above WQS indicating that groundwater quality may also be affected by the underlying geology (peat deposits), adjacent marshes and farming activities in the surrounding areas.

Exceedances of BTEX, PAHs and VOCs (solvents) were reported in samples from five boreholes located within the MCA. The exceedances were generally only reported on one monitoring round at each location.

Although there have been potentially contaminative historical uses within the MCA, no obvious source of these contaminants has been identified. Made Ground was recorded in the majority of boreholes, but comprised re-worked natural material with no visual or olfactory evidence of contamination. Soil chemical test data for exploratory holes located in close proximity to these locations did not record concentrations of BTEX, PAHs or VOCs above the laboratory limit of detection. The elevated concentrations of BTEX and PAHs in these locations may be due to influences from the underlying peat deposits. The source of the elevated levels of VOCs (solvents) is unconfirmed.

Elevated concentrations of metals and inorganic contaminants were recorded in surface water samples above WQS. Water quality within the surface watercourses is noted to be moderate to poor and is attributed to marine influences, discharges from the Leiston Sewage Treatment Works and farming activities in the surrounding areas.

8.8.3. Ground Gas

The ground gas regime at the site has been classified as CS2 and the incorporation of ground gas protection measures within the proposed development may be required to mitigate potential risks associated with the ingress of carbon dioxide/methane. Made Ground, peat and organic alluvium are considered to be the main sources of ground gas. However, these results are based on a limited dataset and do not take into account any earthworks proposed on site.

8.8.4. Radiological Risks

A radiochemical assessment undertaken by AMEC in 2014 concluded that radiation levels within the soil, groundwater and surface water at the MCA was unlikely to pose a significant risk to human health.

8.8.5. Materials/Waste

It is recommended to maximise the re-use of materials on-site, where possible on grounds of both cost and sustainability. Early consideration of the re-use of material is recommended, in order to maximise opportunities. The re-use of on-site excavated soils should be undertaken under the latest version of the DoWCoP.

Slightly acidic and slightly alkaline pH values were reported in several soil samples from the MCA. It is likely that the majority of the MCA will be covered with hardstanding. However, in areas of proposed landscaping, suitable growing medium may be required.

Material that is surplus to requirements and where there is no clear strategy for reuse on-site is classified as waste and should be disposed of in accordance with Duty of Care as specified in the current waste management legislation and guidance.

A preliminary waste assessment indicates that the majority of samples would be classified as non-hazardous waste. One sample was classified as hazardous waste due to elevated lead and zinc concentrations. However, the actual material to be removed off-site for disposal must be appropriately classified and agreed with the chosen landfill operator. It is the responsibility of the waste producer to classify, treat, manage and dispose of waste appropriately and to ensure the chosen landfill is licensed to accept such material. WAC testing will be required if the material is destined for landfill.

9. Revised Conceptual Site Model

9.1. Revised CSM

Further to the PCSM, (Table E.1 in Appendix E), an updated CSM has been prepared based upon the findings of the ground investigations and risk assessment and is summarised in the following section.

The updated CSM (Table 9-1) shows the contaminants identified at the site, the potential receptors and the potential exposure/migration pathways, as well as the perceived risk category. Definitions of probability, consequence and risk are provided in Appendix D.

The CSM is based on current site levels and any proposed changes in site levels resulting from redevelopment earthworks will need to be reviewed and taken into consideration prior to redevelopment of the site.

Table 9-1 - Revised Conceptual Site Model

Source	Receptor		Contaminant exposure / migration pathway	Baseline			Construction			Operation			Post Operation (temporary works areas only)		
				Probability	Consequence	Risk Category	Probability	Consequence	Risk Category	Probability	Consequence	Risk Category	Probability	Consequence	Risk Category
ON-SITE: MCA Former rifle range located in the centre of the MCA. Made Ground within the north east of the MCA. Drainage and wind pumps in the north and centre of the MCA. Sewage treatment works located on the western boundary of the MCA. Made Ground and spoil disposal on the MCA associated with the construction of Sizewell B and former contractors' compound. Activities relating to the former contractors' compound on the MCA for Sizewell B including possible storage areas, fabrication areas, lagoons, stone washing / concrete batching area. Car park located on western edge of the MCA. Activities within the MCA associated with the operation of Sizewell B power station including radioactive materials. Former infilled sand pits located across the MCA. Peat and alluvial deposits indicated to be present within the eastern edge of the MCA. Farming activities across the entire site area including potential for unmarked farmers tips. Made Ground associated with the construction of roads crossing the various areas of the site as well as activities associated with their operation. Moderate UXO risk across the site. *Risk of inorganic and organic contamination including metals and hydrocarbons, biological contaminants, PCBs, asbestos, solvents, paints, fuels, oils, herbicides and pesticides. Ground gas generation. Risk of explosion.*	**Human health:** On-site	Pedestrians and road users using existing roads, footpaths and fields within the site	Dermal contact with and ingestion of contaminants in soil, soil-derived dust and water. Inhalation of contaminants in soil, soil-derived dust, fibres and vapours.	Low likelihood	Minor	**Very low risk**	Receptor not present	--	--	Receptor not present	--	--	--	--	--
		Agricultural workers		Low likelihood	Minor	**Very low risk**	Receptor not present	--	--	Receptor not present	--	--	--	--	--
		Recreational site users of the SSSI, marshes and beach along the foreshore		Low likelihood	Minor	**Very low risk**	Receptor not present	--	--	Receptor not present	--	--	--	--	--
		Current Sizewell B workers using areas of the MCA		Low likelihood	Minor	**Very low risk**	Low likelihood	Mild	**Low risk**	Receptor not present	--	--	--	--	--
		Future site workers		Receptor not present	--	--	Receptor not present	--	--	Low likelihood	Minor	**Very low risk**	--	--	--
	Human health: Off-site	Workers in adjacent Sizewell B power station	Dermal contact with and/or ingestion of contaminants in windblown soil-derived dusts and water that may have migrated off site. Inhalation of windblown soil derived dust, fibres and gas/vapours which may have migrated off site.	Unlikely	Mild	**Very low risk**	Unlikely	Mild	**Very low risk**	Unlikely	Mild	**Very low risk**	--	--	--
		Pedestrians accessing surrounding roads and footpaths		Unlikely	Mild	**Very low risk**	Unlikely	Mild	**Very low risk**	Unlikely	Mild	**Very low risk**	--	--	--
		Agricultural workers		Unlikely	Mild	**Very low risk**	Unlikely	Mild	**Very low risk**	Unlikely	Mild	**Very low risk**	--	--	--
		Recreational site users of the surrounding SSSI and marshes		Unlikely	Mild	**Very low risk**	Unlikely	Mild	**Very low risk**	Unlikely	Mild	**Very low risk**	--	--	--
	Controlled Waters	Principal Bedrock and Superficial Secondary A aquifers	Leaching / migration of contaminants in soil to groundwater in underlying aquifers.	Unlikely	Medium	**Low risk**	Low	Medium	**Moderate / Low risk**	Unlikely	Medium	**Low Risk**	--	--	--
			Migration of contaminated water through preferential pathways such as underground services, pipes and granular material to groundwater in underlying aquifers.	Unlikely	Medium	**Low risk**	Low likelihood	Medium	**Moderate / Low risk**	Low likelihood	Medium	**Moderate / Low risk**	--	--	--
		Ponds and drains on site and within 500 m of the site	Migration of contaminated water into underlying aquifers followed by lateral migration into nearby watercourses.	Unlikely	Medium	**Low risk**	Low	Medium	**Moderate / Low risk**	Unlikely	Medium	**Low Risk**	--	--	--
			Discharge of contaminants entrained in surface water run-off followed by overland flow and discharge.	Unlikely	Medium	**Low risk**	Low	Medium	**Moderate / Low risk**	Unlikely	Medium	**Low Risk**	--	--	--
		North Sea	Migration of contaminated water into underlying aquifers followed by lateral migration into nearby watercourses.	Unlikely	Medium	**Low risk**	Low	Medium	**Moderate / Low risk**	Unlikely	Medium	**Low Risk**	--	--	--
			Discharge of contaminants entrained in surface water run-off followed by overland flow and discharge.	Unlikely	Medium	**Low risk**	Low	Medium	**Moderate / Low risk**	Unlikely	Medium	**Low Risk**	--	--	--

Source	Receptor		Contaminant exposure / migration pathway	Baseline			Construction			Operation			Post Operation (temporary works areas only)		
				Probability	Consequence	Risk Category	Probability	Consequence	Risk Category	Probability	Consequence	Risk Category	Probability	Consequence	Risk Category
	Property / services	Existing on-site and off-site services and structures	Direct contact of contaminants in soil and/or groundwater with existing buried service.	Unlikely	Medium	**Low risk**	Unlikely	Medium	**Low Risk**	Unlikely	Medium	**Low Risk**	--	--	--
			Migration of ground gas along strata and preferential pathways such as service routes or differentially permeable strata leading to accumulation and explosion.	Unlikely	Medium	**Low risk**	Unlikely	Medium	**Low Risk**	Unlikely	Medium	**Low Risk**	--	--	--
		Proposed on-site services and structures associated with the site	Direct contact of contaminants in soil and/or groundwater with existing buried service.	Receptor not present	--	--	Receptor not present	--	--	Low likelihood	Mild	**Low risk**	--	--	--
			Migration of ground gas along strata and preferential pathways such as service routes or differentially permeable strata leading to accumulation and explosion.	Receptor not present	--	--	Receptor not present	--	--	Low likelihood	Mild	**Low risk**	--	--	--
		Crops and livestock (on-site and off-site)	Direct contact between soil and water contamination and and livestock.	Unlikely	Medium	**Low risk**	Unlikely	Medium	**Low risk**	Unlikely	Medium	**Low risk**	--	--	--
			Contaminated surface run-off impacting upon the crops and livestock.	Unlikely	Medium	**Low risk**	Unlikely	Medium	**Low risk**	Unlikely	Medium	**Low risk**	--	--	--
	Ecological	Sizewell Marshes SSSI	Direct contact between soil and water contamination and ecological receptors.	Unlikely	Medium	**Low risk**	Unlikely	Medium	**Low risk**	Unlikely	Medium	**Low risk**	--	--	--
			Contaminated surface run-off impacting upon the ecological receptors.	Unlikely	Medium	**Low risk**	Unlikely	Medium	**Low risk**	Unlikely	Medium	**Low risk**	--	--	--
		Minsmere-Walberswick Heaths and Marshes SSSI, RAMSAR, SAC and SPA and Suffolk Coast and Heaths AONB	Contaminated surface run-off impacting upon the ecological receptors.	Unlikely	Medium	**Low risk**	Unlikely	Medium	**Low Risk**	Unlikely	Medium	**Low Risk**	--	--	--
ON-SITE: TCA Former infilled sand pits located across the TCA. Grass covered mounds (suspected Made Ground) located in the north east of the TCA. Peat and alluvial deposits indicated to be present within the eastern edge of the TCA. Farming activities across the entire site area including potential for unmarked farmers tips.	**Human health:** On-site	Pedestrians and road users using existing roads, footpaths and fields within the site	Dermal contact with and ingestion of contaminants in soil, soil-derived dust and water. Inhalation of contaminants in soil, soil-derived dust and vapours.	Unlikely	Medium	**Low risk**	Receptor not present	--	--	Receptor not present	--	--	Unlikely	Medium	**Low risk**
		Agricultural workers		Unlikely	Medium	**Low risk**	Receptor not present	--	--	Receptor not present	--	--	Unlikely	Medium	**Low risk**
		Residents within the TCA		Unlikely	Medium	**Low risk**	Unlikely	Mild	**Very low risk**	Unlikely	Mild	**Very low risk**	Unlikely	Medium	**Low risk**
	Human health: Off-site	Occupants of nearby residential, recreational and commercial properties	Dermal contact with and/or ingestion of contaminants in windblown soil-derived dusts and water that may have migrated off site. Inhalation of windblown soil derived dust, fibres and	Unlikely	Mild	**Very low risk**	Unlikely	Mild	**Very low risk**	Unlikely	Mild	**Very low risk**	Unlikely	Mild	**Very low risk**
		Pedestrians accessing surrounding roads and footpaths		Unlikely	Mild	**Very low risk**	Unlikely	Mild	**Very low risk**	Unlikely	Mild	**Very low risk**	Unlikely	Mild	**Very low risk**

Source	Receptor		Contaminant exposure / migration pathway	Baseline			Construction			Operation			Post Operation (temporary works areas only)		
				Probability	Consequence	Risk Category	Probability	Consequence	Risk Category	Probability	Consequence	Risk Category	Probability	Consequence	Risk Category
Made Ground associated with the construction of roads crossing the various areas of the site as well as activities associated with their operation. Moderate UXO risk across the site. *Risk of inorganic and organic contamination including metals and hydrocarbons, asbestos, fuels, oils, herbicides and pesticides. Risk of explosion.*		Agricultural workers	gas/vapours which may have migrated off site.	Unlikely	Mild	**Very low risk**	Unlikely	Mild	**Very low risk**	Unlikely	Mild	**Very low risk**	Unlikely	Mild	**Very low risk**
		Recreational site users of the SSSI and marshes		Unlikely	Mild	**Very low risk**	Unlikely	Mild	**Very low risk**	Unlikely	Mild	**Very low risk**	Unlikely	Mild	**Very low risk**
	Controlled Waters	Principal Bedrock and Superficial Secondary A aquifers	Leaching / migration of contaminants in soil to groundwater in underlying aquifers.	Unlikely	Medium	**Low risk**	Low	Medium	**Moderate / Low risk**	Low	Medium	**Moderate / Low risk**	Unlikely	Medium	**Low risk**
			Migration of contaminated water through preferential pathways such as underground services, pipes and granular material to groundwater in underlying aquifers.	Unlikely	Medium	**Low risk**	Low	Medium	**Moderate / Low risk**	Low	Medium	**Moderate / Low risk**	Unlikely	Medium	**Low Risk**
		Ponds and drains on site and within 500 m of the site	Migration of contaminated water into underlying aquifers followed by lateral migration into nearby watercourses.	Unlikely	Medium	**Low risk**	Low	Medium	**Moderate / Low risk**	Low	Medium	**Moderate / Low risk**	Unlikely	Medium	**Low risk**
			Discharge of contaminants entrained in surface water run-off followed by overland flow and discharge.	Unlikely	Medium	**Low risk**	Low	Medium	**Moderate / Low risk**	Low	Medium	**Moderate / Low risk**	Unlikely	Medium	**Low Risk**
	Property / services	Existing on-site and off-site services and structures	Direct contact of contaminants in soil and/or groundwater with existing buried service.	Unlikely	Medium	**Low risk**	Unlikely	Medium	**Low Risk**	Unlikely	Medium	**Low Risk**	Unlikely	Medium	**Low Risk**
			Migration of ground gas along strata and preferential pathways such as service routes or differentially permeable strata leading to accumulation and explosion.	Unlikely	Medium	**Low risk**	Unlikely	Medium	**Low Risk**	Unlikely	Medium	**Low Risk**	Unlikely	Medium	**Low Risk**
		Proposed on-site services and structures associated with the site	Direct contact of contaminants in soil and/or groundwater with existing buried service.	Receptor not present	--	--	Receptor not present	--	--	Unlikely	Medium	**Low risk**	Receptor not present	--	--
			Migration of ground gas along strata and preferential pathways such as service routes or differentially permeable strata leading to accumulation and explosion.	Receptor not present	--	--	Receptor not present	--	--	Unlikely	Medium	**Low risk**	Receptor not present	--	--
		Crops and livestock (on-site and off-site)	Direct contact between soil and water contamination and crops and livestock.	Unlikely	Medium	**Low risk**	Unlikely	Medium	**Low risk**	Unlikely	Medium	**Low risk**	Unlikely	Medium	**Low risk**
			Contaminated surface run-off impacting upon the crops and livestock.	Unlikely	Medium	**Low risk**	Unlikely	Medium	**Low risk**	Unlikely	Medium	**Low risk**	Unlikely	Medium	**Low risk**
	Ecological	Sizewell Marshes SSSI	Direct contact between soil and water contamination and ecological receptors.	Unlikely	Medium	**Low risk**	Unlikely	Medium	**Low risk**	Unlikely	Medium	**Low risk**	Unlikely	Medium	**Low risk**

Source	Receptor		Contaminant exposure / migration pathway	Baseline			Construction			Operation			Post Operation (temporary works areas only)		
				Probability	Consequence	Risk Category	Probability	Consequence	Risk Category	Probability	Consequence	Risk Category	Probability	Consequence	Risk Category
			Contaminated surface run-off impacting upon the ecological receptors.	Unlikely	Medium	**Low risk**	Unlikely	Medium	**Low risk**	Unlikely	Medium	**Low risk**	Unlikely	Medium	**Low risk**
		Minsmere-Walberswick Heaths and Marshes SSSI, RAMSAR, SAC and SPA and Suffolk Coast and Heaths AONB	Contaminated surface run-off impacting upon the ecological receptors.	Unlikely	Medium	**Low risk**	Unlikely	Medium	**Low Risk**	Unlikely	Medium	**Low Risk**	Unlikely	Medium	**Low risk**
ON-SITE: LEEIE Fly tipping in the north west of the LEEIE. Railway line running through the southern extent of the LEEIE and associated buildings. Farming activities across the entire site area including potential for unmarked farmers tips. Made Ground present within the southern section of the LEEIE associated with the railway line and in the northern section associated with an infilled reservoir. Electricity substation at the eastern extent of the proposed access road in the east of the LEEIE. Made Ground associated with the construction of roads crossing the various areas of the site as well as activities associated with their operation. Moderate UXO risk across the site. *Risk of inorganic and organic contamination including metals and hydrocarbons, asbestos, fuels, oils, PCBs, PAHs, herbicides and pesticides. Risk of explosion.*	**Human health:** On-site	Pedestrians and road users using existing roads, railway, footpaths and fields within the site	Dermal contact with and ingestion of contaminants in soil, soil-derived dust and water. Inhalation of contaminants in soil, soil-derived dust and vapours.	Low likelihood	Mild	**Low risk**	Receptor not present	--	--	Receptor not present	--	--	Low likelihood	Mild	**Low risk**
		Agricultural workers		Unlikely	Mild	**Very low risk**	Receptor not present	--	--	Receptor not present	--	--	Unlikely	Mild	**Very low risk**
	Human health: Off-site	Occupants of nearby residential, recreational and commercial properties	Dermal contact with and/or ingestion of contaminants in windblown soil-derived dusts and water that may have migrated off site. Inhalation of windblown soil derived dust, fibres and gas/vapours which may have migrated off site.	Unlikely	Mild	**Very low risk**	Unlikely	Mild	**Very low risk**	Unlikely	Mild	**Very low risk**	Unlikely	Mild	**Very low risk**
		Pedestrians accessing surrounding roads and footpaths		Unlikely	Mild	**Very low risk**	Unlikely	Mild	**Very low risk**	Unlikely	Mild	**Very low risk**	Unlikely	Mild	**Very low risk**
		Agricultural workers		Unlikely	Mild	**Very low risk**	Unlikely	Mild	**Very low risk**	Unlikely	Mild	**Very low risk**	Unlikely	Mild	**Very low risk**
	Controlled Waters	Principal Bedrock and Superficial Secondary A aquifers	Leaching / migration of contaminants in soil to groundwater in underlying aquifers.	Low likelihood	Mild	**Low risk**	Low likelihood	Mild	**Low risk**	Low likelihood	Mild	**Low risk**	Low likelihood	Mild	**Low risk**
			Migration of contaminated water through preferential pathways such as underground services, pipes and granular material to groundwater in underlying aquifers.	Unlikely	Medium	**Low risk**	Unlikely	Medium	**Low Risk**	Unlikely	Medium	**Low Risk**	Unlikely	Medium	**Low Risk**
		Ponds and drains on site and within 500 m of the site	Migration of contaminated water into underlying aquifers followed by lateral migration into nearby watercourses.	Unlikely	Mild	**Very low risk**	Unlikely	Mild	**Very low risk**	Unlikely	Mild	**Very low risk**	Unlikely	Mild	**Very low risk**
			Discharge of contaminants entrained in surface water run-off followed by overland flow and discharge.	Unlikely	Mild	**Very low risk**	Unlikely	Mild	**Very low risk**	Unlikely	Mild	**Very low risk**	Unlikely	Mild	**Very low risk**
	Property / services	Existing on-site and off-site services and structures	Direct contact of contaminants in soil and/or groundwater with existing buried service.	Unlikely	Medium	**Low risk**	Unlikely	Medium	**Low Risk**	Unlikely	Medium	**Low Risk**	Unlikely	Medium	**Low Risk**
			Migration of ground gas along strata and preferential pathways such as service routes or differentially permeable strata leading to accumulation and explosion.	Unlikely	Medium	**Low risk**	Unlikely	Medium	**Low Risk**	Unlikely	Medium	**Low Risk**	Unlikely	Medium	**Low Risk**
			Direct contact of contaminants in soil and/or	Receptor not present	--	--	Receptor not present	--	--	Unlikely	Medium	**Low risk**	Receptor not present	--	--

Source	Receptor		Contaminant exposure / migration pathway	Baseline			Construction			Operation			Post Operation (temporary works areas only)		
				Probability	Consequence	Risk Category	Probability	Consequence	Risk Category	Probability	Consequence	Risk Category	Probability	Consequence	Risk Category
		Proposed on-site services and structures associated with the site	groundwater with existing buried service.												
			Migration of ground gas along strata and preferential pathways such as service routes or differentially permeable strata leading to accumulation and explosion.	Receptor not present	--	--	Receptor not present	--	--	Unlikely	Medium	**Low risk**	Receptor not present	--	--
		Crops and livestock (on-site and off-site)	Direct contact between soil and water contamination and crops and livestock.	Unlikely	Medium	**Low risk**	Unlikely	Medium	**Low risk**	Unlikely	Medium	**Low risk**	Unlikely	Medium	**Low risk**
			Contaminated surface run-off impacting upon the ecological receptors.	Unlikely	Medium	**Low risk**	Unlikely	Medium	**Low risk**	Unlikely	Medium	**Low risk**	Unlikely	Medium	**Low risk**
	Ecological	Sizewell Marshes SSSI	Direct contact between soil and water contamination and crops and livestock.	Unlikely	Medium	**Low risk**	Unlikely	Medium	**Low risk**	Unlikely	Medium	**Low risk**	Unlikely	Medium	**Low risk**
			Contaminated surface run-off impacting upon the ecological receptors.	Unlikely	Medium	**Low risk**	Unlikely	Medium	**Low risk**	Unlikely	Medium	**Low risk**	Unlikely	Medium	**Low risk**
OFF-SITE: Activities associated with the operation of Sizewell A and B power stations including asbestos lined tanks and their infill, the deposition of radioactive materials on the MCA and migration of contaminated groundwater onto the MCA. Former sand pits located 250 m north west and south east of the MCA and 250 m to the south of the TCA which have been infilled. Former brick works, brick field and clay pit located 300 m to the west of the LEEIE which have been infilled. Smithy located approximately 450m south- east of the LEEIE. Tank and sewage works located 500 m to the south west of the LEEIE. Historical landfills within 500 m of the site including refuse tip, Ogilvie at Home Farm, Leiston Landfill, Carrs Pit, Abbey Pit and Aldhurst Farm. Gas works, coal yard and tanks located 40 m to the west of the LEEIE.	**Human health:** On-site	Pedestrians and road users using existing roads, footpaths, railway and fields within the site	Dermal contact with and ingestion of contaminants in soil, soil-derived dust and water.	Low likelihood	Mild	**Low risk**	Receptor not present	--	--	Receptor not present	--	--	Low likelihood	Mild	**Low risk**
		Agricultural workers	Inhalation of contaminants in soil, soil-derived dust and vapours.	Unlikely	Mild	**Very low risk**	Receptor not present	--	--	Receptor not present	--	--	Unlikely	Mild	**Very low risk**
		Recreational site users of the SSSI, marshes and beach along the foreshore		Low likelihood	Mild	**Low risk**	Receptor not present	--	--	Receptor not present	--	--	Low likelihood	Mild	**Low risk**
		Current Sizewell B site workers using the MCA		Low likelihood	Mild	**Low risk**	Receptor not present	--	--	Receptor not present	--	--	Low likelihood	Mild	**Low risk**
		Future site workers		Receptor not present	--	--	Receptor not present	--	--	Unlikely	Mild	**Very low risk**	--	--	--
		Residents within the TCA		Unlikely	Mild	**Very low risk**	Unlikely	Mild	**Very low risk**	Unlikely	Mild	**Very low risk**	Unlikely	Mild	**Very low risk**
	Controlled Waters	Principal Bedrock and Superficial Secondary A aquifers	Leaching / migration of contaminants in soil to groundwater in underlying aquifers.	Low likelihood	Medium	**Moderate / Low risk**	Low	Medium	**Moderate / Low risk**	Low	Medium	**Moderate / Low risk**	Low	Medium	**Moderate / Low risk**
			Migration of contaminated water through preferential pathways such as underground services, pipes and granular material to groundwater in underlying aquifers.	Unlikely	Medium	**Low risk**	Unlikely	Medium	**Low Risk**	Unlikely	Medium	**Low Risk**	Unlikely	Medium	**Low Risk**
		Ponds and drains on site and within 500 m of the site	Migration of contaminated water into underlying aquifers followed by lateral migration into nearby watercourses.	Low likelihood	Medium	**Moderate / Low risk**	Low	Medium	**Moderate / Low risk**	Low	Medium	**Moderate / Low risk**	Low	Medium	**Moderate / Low risk**
			Discharge of contaminants entrained in surface water	Unlikely	Medium	**Low risk**	Low	Medium	**Moderate / Low risk**	Low	Medium	**Moderate / Low risk**	Low	Medium	**Moderate / Low risk**

Source	Receptor		Contaminant exposure / migration pathway	Baseline			Construction			Operation			Post Operation (temporary works areas only)		
				Probability	Consequence	Risk Category	Probability	Consequence	Risk Category	Probability	Consequence	Risk Category	Probability	Consequence	Risk Category
Electrical substation located 100 m south west of the LEEIE.			run-off followed by overland flow and discharge.												
Farming activities in surrounding areas including potential for unmarked farmers tips. Allotments adjacent to the south of the LEEIE. Made Ground associated with the construction of roads surrounding the site as well as activities associated with their operation. Works and factories within Eastlands Industrial Estate. *Risk of inorganic and organic contamination including metals and hydrocarbons, asbestos, solvents, fuels, oils, PCBs, radioactive materials, coal tar, acids and alkalis, herbicides and pesticides. Ground gas generation.*	**Property / services**	Existing on-site services and structures	Direct contact of contaminants in soil and/or groundwater with existing buried service.	Unlikely	Medium	**Low risk**	Unlikely	Medium	**Low Risk**	Unlikely	Medium	**Low Risk**	Unlikely	Medium	**Low Risk**
			Migration of ground gas along strata and preferential pathways such as service routes or differentially permeable strata leading to accumulation and explosion.	Unlikely	Medium	**Low risk**	Unlikely	Medium	**Low Risk**	Unlikely	Medium	**Low Risk**	Unlikely	Medium	**Low Risk**
		Proposed on-site services and structures associated with the site	Direct contact of contaminants in soil and/or groundwater with existing buried service.	Receptor not present	--	--	Receptor not present	--	--	Unlikely	Medium	**Low Risk**	Receptor not present	--	--
			Migration of ground gas along strata and preferential pathways such as service routes or differentially permeable strata leading to accumulation and explosion.	Receptor not present	--	--	Receptor not present	--	--	Unlikely	Medium	**Low Risk**	Receptor not present	--	--
		Crops and livestock (on-site)	Direct contact between soil and water contamination and crops and livestock.	Unlikely	Medium	**Low risk**	Unlikely	Medium	**Low Risk**	Unlikely	Medium	**Low Risk**	Receptor not present	--	--
			Contaminated surface run-off impacting upon the crops and livestock.	Unlikely	Medium	**Low risk**	Unlikely	Medium	**Low Risk**	Unlikely	Medium	**Low Risk**	Receptor not present	--	--
	Ecological	Sizewell Marshes SSSI	Direct contact between soil and water contamination and ecological receptors.	Low likelihood	Medium	**Moderate / Low risk**	Low	Medium	**Moderate / Low risk**	Low	Medium	**Moderate / Low risk**	Receptor not present	--	--
			Contaminated surface run-off impacting upon the ecological receptors.	Low likelihood	Medium	**Moderate / Low risk**	Low	Medium	**Moderate / Low risk**	Low	Medium	**Moderate / Low risk**	Receptor not present	--	--

10. Potential Geotechnical Constraints

10.1. General

A full geotechnical assessment of the data is not part of the remit of this report and the following sections provide a high-level summary of the geotechnical parameters obtained in the ground investigations and a discussion of potential constraints for development of the site.

EDF produced a geotechnical model, including geotechnical parameters, derived from a thorough review of historical data in 2014 [17] and this is provided in Appendix L. Further geotechnical assessment will be completed to inform the detailed design.

10.2. Summary of Geotechnical Parameters

A summary of the geotechnical parameters obtained during the previous ground investigations [7] [13] [19] [20] is provided in Table 10-1 and Table 10-2.

10.3. Potential Geotechnical Constraints

The following potential constraints are based on the information available from the exploratory holes undertaken on the site as part of the ground investigations [7] [13] [19] [20]. Potential constraints include:

- Made Ground has been identified underlying the site to varying thicknesses. Made Ground is considered unsuitable for supporting foundations due to the variable composition and potential for unacceptable settlements, including differential settlements.
- Peat layers have also been identified beneath the site. Peat, depending upon the extent and thickness, can also impact on founding solutions due to its compressible nature.
- Groundwater was noted within the ground investigations undertaken and during the monitoring sometimes at shallow depths of 0.9m bgl within the Crag Sand Formation. Groundwater levels are being considered in the detailed design of the power station and the cut off wall.
- Buried foundations and structures may be present within the MCA associated with the previous contractor's compound and disused sand pits, within the TCA associated with disused sand pits and within the LEEIE associated with the existing railway.
- The location of existing services should be considered in the site development.
- The potential for UXO.

Table 10-1 – Summary of Geotechnical Parameters from 2009 and 2010 Ground Investigations [17]

Strata	Bulk weight density (kN/m^3)	Dry weight density kN/m^3)	N SPT	qc (MPa)	Undrained shear strength cu (kPa)	Effective shear resistance parameters (f' °; c' kPa)	Long term static modulus E∞ (MPa)	n∞	Vs (m/s)
Peat & Clay (Possible Alluvium)	P: 10,6 C: 14,4	P: 2,9 C: 7,9	-	0,4 to 1,0 MPa	20 to 90 kPa (consolidated layers: 35 to 100 kPa)	-	-	-	-
Crag Deposits									
> -10 AOD	19,6	16,4	5 to 30	10 MPa	-	33° to 40°; c' = 0	129	0,3	275
10 to -20 AOD	19,9	16,6	20 to 100	20 to 40 MPa		35° to 45°; c' = 0	209	0,3	375
-20 to -30 AOD	20,6	17,2	>30 (30 to 150)	> 45 MPa			386	0,3	475
-30 to -40 AOD	20,6	17,2		-			643	0,3	625
40 to -45 AOD	20,6	17,2					514	0,3	500
London Clay	19,1	14,2	-	-	300 to 400 kPa	(25°; 75 kPa)	64	0,3	325
LLT: W&R beds	20,6	16,5	-	-	300 to 350 kPa	(25°; 75 kPa)	103	0, 3	400
LLT: Thanet clay	18,9	13,7	-	-	300 to 450 kPa	(22°; 150 kPa)	77	0.,3	375
Chalk	19,6	-	-	-	-	-	3000	0,2	1000

Table 10-2 - Summary of Geotechnical Parameters from 2014 and 2015 Ground Investigations

Strata	N SPT	MC%	LL%	PL%	PI%	<425 um	CBR Value %		Maximum Dry Density (mg/m^3)
							Top	Base	
Made Ground	3-16	20 - 37	39 – 42	16 - 19	23	88 - 97	-	-	-
Alluvium	12	12-34	29-42	11-15	18-27	66-89			
Alluvium	12	12-34	29-42	11-15	18-27	66-89			-
Lowestoft Till Formation	2-121	11 - 27	20 – 55	13 - 20	7 - 38	66 - 99	0.2 – 28	0.4 – 16	1.73 - 1.92
Crag Deposits	4 – 500	-	-	-	-	-	-	-	-

11. Gap Analysis

The following sections summarise the extent of information available for the site, as well as identifying data gaps and providing recommendations for further work.

11.1. Site Walkovers

Site walkover information has been used to provide additional information on the condition of the site. However, the site walkovers were undertaken in 2015 and may be out-dated. In addition, some areas of the site were unable to be accessed during the walkovers in 2015 and so the current use of these areas is unknown. Further site walkovers should be undertaken during the next stage of works to confirm ground investigation requirements.

11.2. Ground Investigation

Several ground investigations have been undertaken at the site [7] [13] [19] [20]. A summary of the coverage and scope of the investigations, and data gaps in relation to the identified potential sources of contamination within and adjacent to the site is provided in Table 11-1 and the following sections.

Table 11-1 – Sources of Contamination and Existing Ground Investigation Data

Location	Potential Contamination Source	Existing Ground Investigation Data
On-site (within MCA, TCA and LEEIE)	Former rifle range located in the centre of the MCA.	Exploratory holes located in the area surrounding the former rifle range. Geotechnical data available. Chemical test data for soils, groundwater and surface water and ground gas monitoring data available, but no leachate data.
	Made Ground within the north-east of the MCA.	Exploratory holes located in the north-east of the MCA. Chemical test data for soils, groundwater and surface water and ground gas monitoring data available, but no leachate data.
	Drainage and wind pumps in the north and centre of the MCA	Exploratory holes located in close proximity to the drainage and wind pumps. Chemical test data for soils, groundwater and surface water and ground gas monitoring data available, but no leachate data.
	Sewage treatment works located on the western boundary of the MCA.	Only one borehole drilled in this area. Geotechnical data and groundwater and surface water test data available, but no soil or leachate chemical test or ground gas monitoring data is available.
	Made Ground, spoil disposal and construction waste on the MCA associated with the construction of Sizewell B and former contractor's compound.	Good coverage of exploratory holes across the MCA. Geotechnical data available. Chemical data for soils, groundwater and surface water and ground gas monitoring data available, but no leachate data.
	Activities relating to the former contractor's compound on the MCA for Sizewell B including possible storage areas, fabrication areas, lagoons, stone washing / concrete batching area.	Good coverage of exploratory holes across the MCA. Geotechnical data available. Chemical data for soils, groundwater and surface water and ground gas monitoring data available, but no leachate data.
	Car park located on western edge of the MCA.	No ground investigation data are available for this area.
	Activities within the MCA associated with the operation of Sizewell B power station including radioactive materials.	Generally good coverage of exploratory holes across the MCA. Geotechnical data available. Chemical data for soils, groundwater and surface water and ground gas monitoring data available, but no leachate data.
	Former infilled sand pits located across the MCA and TCA.	Good coverage of exploratory holes across the MCA. Chemical test data for soils, groundwater and surface water and ground gas monitoring data available, but no leachate data.

Location	Potential Contamination Source	Existing Ground Investigation Data
		Several exploratory holes across the TCA. Geotechnical data available. Limited leachate, groundwater and surface water data and ground gas monitoring data available but no soil chemical data.
	Peat and alluvial deposits within the eastern edge of the TCA and in the MCA.	Exploratory hole locations in the north-east of the MCA, but no ground investigation data for the north-western corner of the MCA. Geotechnical data available. Limited chemical data for soils, groundwater and surface water and ground gas monitoring data available, but no leachate data. Limited exploratory holes across the TCA. Geotechnical data available. Limited leachate data, groundwater data and ground gas monitoring data available but no soil chemical data.
	Grass covered mounds (suspected Made Ground) located in the north east of the TCA.	Exploratory holes located within the north-east of the TCA. Geotechnical data available. Limited leachate data, groundwater data and ground gas monitoring data available but no soil chemical data.
	Fly tipping in the north-west of the LEEIE.	Two boreholes located within the north-west of the LEEIE. Geotechnical data available, but no chemical data of soils, leachates or groundwater available and no ground gas monitoring data.
	Railway line running through the southern extent of the LEEIE and associated buildings.	No exploratory holes located near the railway line or within the southern extent of the LEEIE. Some exploratory holes in other areas of the zone. Geotechnical data available, but no chemical data of soils, leachates or groundwater available and no ground gas monitoring data.
	Made Ground present within the southern section of the LEEIE associated with the railway line and in the northern section associated with an infilled reservoir.	No exploratory holes located near the railway line or the infilled reservoir. Some exploratory holes in other areas of the zone. Geotechnical data available, but no chemical data of soils, leachates or groundwater available and no ground gas monitoring data.
	Electricity substation at the eastern extent of the proposed access road in the east of the LEEIE.	No exploratory holes located near the electricity substation. Exploratory hole locations in the southern section of the MCA to the east of this area. Geotechnical data available. Limited chemical data for soils, groundwater and surface water and ground gas monitoring data available, but no leachate data.
	Farming activities across the entire site area including potential for unmarked farmer's tips.	Good coverage of exploratory holes across the MCA. Geotechnical data available. Chemical data for soils, groundwater and surface water and ground gas monitoring data available, but no leachate data. Less coverage of exploratory holes across the TCA and LEEIE. Geotechnical data available for the TCA and limited soil, leachate, surface water and groundwater test data and ground gas monitoring data. Geotechnical data available for the LEEIE, but no chemical data of soils, leachates, surface water or groundwater available and no ground gas monitoring data.
	Moderate UXO risk across the site.	No UXO survey or intrusive investigation has been carried out. Desk top UXO study information available for the MCA.
	Made Ground associated with the construction of roads crossing the various areas of the site as well as activities associated with their operation.	Good coverage of exploratory holes across the MCA. Geotechnical data available. Chemical data for soils, groundwater and surface water and ground gas monitoring data available, but no leachate data. Less coverage of exploratory holes across the TCA and LEEIE. Geotechnical data available for the TCA and limited soil, leachate, surface water and groundwater data and ground gas monitoring data. Geotechnical data available for the LEEIE, but no chemical data of soils, leachates, surface water or groundwater available and no ground gas monitoring data.

Location	Potential Contamination Source	Existing Ground Investigation Data
Off-site (surrounding area)	Activities associated with the operation of Sizewell A and B power stations including asbestos lined tanks and their infill, the deposition of radioactive materials on the MCA and migration of contaminated groundwater onto the MCA.	Good coverage of exploratory holes across the MCA in the areas adjacent to Sizewell A and B and chemical data available. Limited information available in relation to the asbestos lined tanks / reservoirs within the area of the Sizewell B displaced facilities in the south of the MCA.
	Allotments adjacent to the south of the LEEIE.	No exploratory holes located within the southern extent of the LEEIE and no ground investigation data available.
	Works and factories within Eastlands Industrial Estate.	No exploratory holes located within the southern extent of the LEEIE and no ground investigation data available.

As detailed in Table 11-1, ground investigation has been undertaken across the site. However, the investigations have been mainly focused on the area within the MCA with the majority of exploratory holes located in this zone. Less information is available for the TCA and LEEIE. In addition, some areas of the TCA and LEEIE have not been subject to investigation, i.e. the south of the LEEIE and the western edge of the TCA including the area of the proposed accommodation campus.

The ground investigations were mainly undertaken to provide geotechnical information and limited contamination test data are available for the site. No soil, leachate or groundwater contamination testing has been undertaken within the LEEIE. No leachate testing has been undertaken within the MCA and there are limited soil and leachate data for the majority of the TCA. In addition, most of the samples that were tested for contaminants within the MCA were collected from the alluvial clay and peat deposits and there is limited information available on the Made Ground within this area.

Only limited gas monitoring has been undertaken, with the majority of monitoring carried out within boreholes located in the MCA. Gas monitoring has only been undertaken within six locations within the TCA and no gas monitoring has been undertaken within the LEEIE. In some locations, monitoring installations have been installed across multiple strata and it is therefore unclear whether the source of ground gas is from the Made Ground or underlying natural deposits (i.e. Alluvium/Peat).

11.2.1. Additional Ground Investigation

It is recommended that additional ground investigation is undertaken across the site to provide a wider coverage within the TCA and LEEIE and to provide additional information in relation to the potential contamination sources and ground conditions within all areas of the site.

The ground investigation should include the installation of further exploratory holes to target data gaps within the TCA and LEEIE and further address potential contamination sources in the MCA, collection and chemical testing of soil, leachate, surface water and groundwater samples and monitoring of new and existing boreholes (where present) to provide information in relation to groundwater levels and ground gas. Atkins is currently undertaking a groundwater and surface water monitoring programme at the site and the proposed additional works should be undertaken in conjunction with the existing programme.

An updated Phase 2 Report should be prepared following the additional ground investigation to update the ground model and CSM for the site. Depending upon the findings of the additional works, further assessments may be required for the proposed development, including DQRAs, preparation of remediation strategies and/or piling risk assessments.

11.3. Materials Management / Soils Re-use

Limited chemical data are available for the TCA and LEEIE. Additional chemical testing will be required to inform the re-use of material across the site during the construction works.

11.4. Asbestos Lined Tanks

Asbestos lined tanks / reservoirs were noted to be present within the area of the Sizewell B displaced facilities in the south of the MCA. The tanks have since been removed and the area validated [23]. However, no further information has been provided. Additional consideration of the removal works and the current status of this area is therefore recommended.

11.5. UXO Risk

A UXO desk based assessment was undertaken for the MCA by EOD [9]. The report states that the MCA was not directly subject to bomb attacks, but that air raid bombing incidents were reported in several areas around Leiston and Sizewell, including Sizewell Common, Sizewell estate, Leiston heath land the Sizewell Road railway crossing. These areas appear to be within or in close proximity to the TCA and LEEIE. It is therefore recommended that additional assessment is undertaken to assess the potential risks posed by UXO in these zones.

It is also noted that several mitigation measures were recommended by EOD including the communication of risks to all stakeholders, further planning for project health and safety operations, UXO safety awareness training and the development of a non-intrusive UXO survey and the investigation of the development area to assess any ferrous objects located within the MCA footprint. It is unknown whether these mitigation measures have been implemented for the site.

12. Conclusions and Recommendations

12.1. Conclusions

The proposed development comprises a NNB Power Station which will be located on the Suffolk coast, to the north of the existing Sizewell B nuclear power station site. The site encompasses approximately 280ha of land including zones of temporary and permanent land take comprising the MCA, TCA and LEEIE.

Ground investigations were undertaken at the site in 2009, 2011, 2014 and 2015. The investigations comprised the drilling and excavation of 373No. cable percussion boreholes, rotary core holes and trial pits to a maximum depth of 125.8m bgl. Soil, leachate, groundwater and surface water samples were collected and tested as part of the ground investigations. Groundwater level and gas monitoring was also undertaken.

Made Ground up to 10.8m bgl was encountered within the MCA overlying Marine Deposits, Alluvium and Peat, and the Crag Sand Formation. Ground conditions within the TCA comprised Made Ground up to 3.2m bgl overlying Alluvium, the Lowestoft Till Formation and the Crag Sand Formation. Topsoil overlying the Lowestoft Till Formation and Crag Formation was encountered within the LEEIE. Groundwater was recorded within the Crag Sand Formation, sometimes at shallow depths of 0.9m bgl

There were no exceedances against the human health GAC for either a commercial or public open space (parks) end use for the contaminants in the soil samples analysed. No asbestos was identified within the soil samples which were visually screened.

Leachate testing of soils identified limited exceedances in the natural material from the Crag Sand Formation at three locations within TCA with no evidence of contamination within the overlying Made Ground. Due to the baseline water quality, the depth of groundwater and distance to surface water courses, it is considered unlikely that the exceedances identified in soil leachate would represent an unacceptable risk to identified controlled water receptors.

Elevated concentrations of contaminants of concern were recorded in the groundwater and surface water samples tested. The groundwater underlying the majority of the MCA and parts of the TCA is subject to significant saline intrusion and may also be affected by the underlying geology, adjacent marshes and farming activities. Water quality within the surface watercourses is also noted to be moderate to poor which is attributed to marine influences, discharges from the Leiston Sewage Treatment Works and farming activities in the surrounding areas.

The ground gas regime at the site has been initially classified as CS2 based on a limited dataset. The incorporation of ground gas protection measures within the proposed development may be required depending on the proposed earthworks and construction works. Gas monitoring was undertaken on seven occasions by AMEC in 2011.

A radiochemical data assessment undertaken by AMEC in 2014 concluded that radiation levels within the soil, groundwater and surface water at the MCA were unlikely to pose a significant risk to human health.

The results suggest that site won soils should be suitable for re-use, however in areas of proposed landscaping a suitable growing medium may be required. Material that is surplus to requirements and where there is no clear strategy for reuse on-site is classified as waste and should be disposed of in accordance with current waste management legislation and guidance. A preliminary waste assessment indicates that the majority of samples would be classified as non-hazardous waste with one sample classed as hazardous waste due to elevated lead and zinc concentrations. It is the responsibility of the waste producer to classify, treat, manage and dispose of waste appropriately and to ensure the chosen landfill is licensed to accept such material. WAC testing will be required if the material is destined for landfill.

Geotechnical constraints include the Made Ground and Peat which are considered unsuitable founding strata, the potential presence of buried foundations and structures, the presence of existing services, and UXO risks. A full geotechnical assessment is outside of the scope of this report.

12.2. Recommendations

It is recommended that additional ground investigation with suitable chemical testing is undertaken to provide a wider coverage within the TCA and LEEIE, to provide additional information in relation to the ground conditions within all areas of the site and to inform the re-use of material during construction works.

The ground investigation should include the installation of further exploratory holes and monitoring wells to target data gaps within the TCA and LEEIE (as outlined in Table 11-1). it should also address potential contamination sources in the MCA. The additional ground investigations should include the collection and chemical testing of soil, leachate, surface water and groundwater samples and monitoring of new and existing boreholes (where present) to provide updated information in relation to groundwater and ground gas.

Further site walkovers should be undertaken to confirm the ground investigation requirements. An updated Phase 2 Report should be prepared following the additional ground investigation and further assessments may be required including DQRAs, preparation of remediation strategies and/or piling risk assessments.

Additional consideration of the removal of the asbestos lined reservoirs within the area of the Sizewell B displaced facilities is recommended to confirm that the risk to the Project has been removed effectively.

Further assessment of the UXO risks at the site should also be undertaken, particularly within the TCA and LEEIE. In addition, the UXO mitigation measures recommended by EOD should be implemented for the site.

The maximum re-use of materials on-site is recommended where possible on grounds of both cost and sustainability. Early consideration of this issue should be undertaken in order to maximise material re-use. The re-use of on-site excavated soils should be undertaken under the latest version of the DoWCoP.

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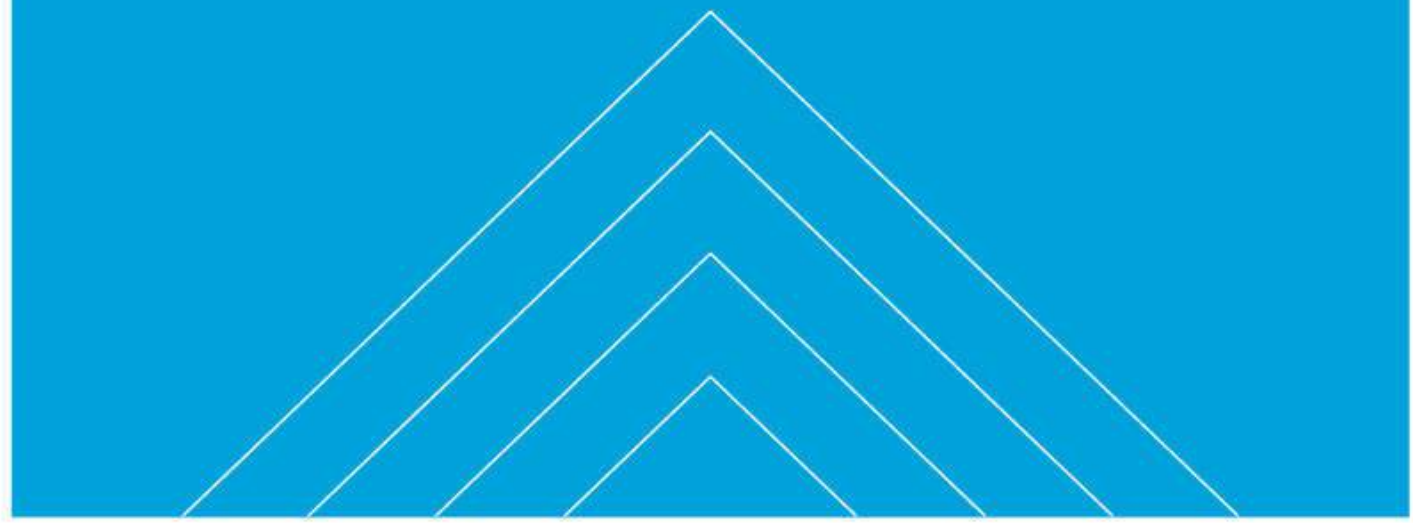
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Appendices



Appendix A – Drawings and Figures

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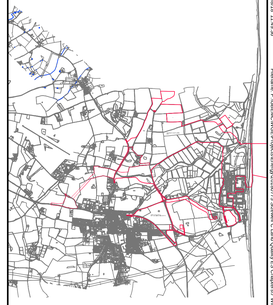
TEMPORARY CONSTRUCTION AREA

MAIN CONSTRUCTION AREA

LAND TO THE EAST OF EASTLANDS INDUSTRIAL ESTATE

KEY:

SITE BOUNDARY



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Drawing Title: MAIN DEVELOPMENT SITE

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Drawing Number: 5166065-ATK-XX-XX-DR-G-0001

Revision: P1.1

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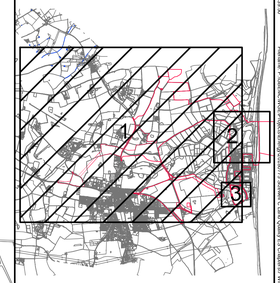
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2011 EXPLORATORY HOLES
2009 EXPLORATORY HOLES



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Appendix B – Site Walkover Photographs (2015)

Date: 04/02/15	Project: Sizewell C Site Walkover, MCA
Comments	
View of field to the east of the northern half of site. Shows rectangular concrete area adjacent to pile of bricks and rebar, with waterlogged area in background, surrounded by cones.	

Date: 04/02/15	Project: Sizewell C Site Walkover, MCA
Comments	
View of field to east of northern half of site, looking north. Shows track through centre, with waterlogged area to the left.	

Date: 04/02/15	Project: Sizewell C Site Walkover, MCA
Comments	
View from east of site, looking further east. Shows wooden fence and publicly accessibly beach area and sea in background.	

Date: 04/02/15	Project: Sizewell C Site Walkover, MCA
Comments	
View looking south east. Shows wooden fence and slope down to beach, with the jetty as part of Sizewell A in the far background.	

Date: 04/02/15	Project: Sizewell C Site Walkover, MCA
Comments View looking north east. Shows track running along the east of the site, with some wire fencing and gorse bushes noted.	

Date: 04/02/15	Project: Sizewell C Site Walkover, MCA
Comments View across eastern field in northern half with track in foreground, waterlogged area shown to the right, and Sizewell B visible in the background.	

Date: 04/02/15	Project: Sizewell C Site Walkover, MCA
Comments	
View of north eastern part of the site, shows tracks and woodland, surrounded by fences.	

Date: 04/02/15	Project: Sizewell C Site Walkover, MCA
Comments	
View of surface water drain in north west of site, surrounded by vegetation.	

Date: 04/02/15	Project: Sizewell C Site Walkover, MCA
Comments	
View of central field in northern half of site, showing hedges bounding the field and several deer.	

Date: 04/02/15	Project: Sizewell C Site Walkover, TCA
Comments	
View of fields in south looking north west. A frozen waterlogged area is shown.	

Date: 04/02/15	Project: Sizewell C Site Walkover, TCA
Comments	
Vegetation in fields to the south of the TCA.	

Date: 04/02/15	Project: Sizewell C Site Walkover, TCA
Comments	
View along southern boundary, looking south east, showing wire fence.	

Date: 04/02/15	Project: Sizewell C Site Walkover, TCA
Comments	
View of woodland in Hilltop Covert, comprising predominantly pine trees.	

Date: 04/02/15	Project: Sizewell C Site Walkover, TCA
Comments	
View of the southern boundary of Dunwich Forest, showing the muddy track in the bottom left-hand corner. Newly planted trees and ferns are visible on the slope, up to the established pine trees.	

Date: 04/02/15	Project: Sizewell C Site Walkover, TCA
Comments	
View of drain along south eastern boundary of TCA, orientated approximately east to west.	

Date: 04/02/15	Project: Sizewell C Site Walkover, TCA
Comments	
View of the 'Triangle' showing area of replanting surrounded by pine trees.	

Date: 04/02/15	Project: Sizewell C Site Walkover, TCA
Comments	
View looking north west in approximate centre of the site, showing overhead cables in background.	

Date: 04/02/15	Project: Sizewell C Site Walkover, TCA
Comments	
View of back of Ash Wood Cottage looking north, showing concrete area, with grass-covered mound in the background.	

Date: 04/02/15	Project: Sizewell C Site Walkover, TCA
Comments	
View of fields in centre of TCA, looking in a south west direction	

Date: 04/02/15	Project: Sizewell C Site Walkover, TCA
Comments	
View of fields towards west of TCA, looking south west, with tree-lined track in background. Track runs in north-south orientation.	

Date: 04/02/15	Project: Sizewell C Site Walkover, TCA
Comments	
Vegetated area of disused pit, showing steep slopes with abandoned building on far right.	

Date: 04/02/15	Project: Sizewell C Site Walkover, TCA
Comments	
View of disused pit area, looking south east, showing wire fencing bounding the site.	

Photograph 1	Project: Sizewell C Site Walkover, LEEIE
Date: 04/02/15	
Comments:	
View of LEEIE from Unit 4 of Eastlands Industrial Estate looking north east, showing railway line in foreground and Sizewell B in background.	

Photograph 2	Project: Sizewell C Site Walkover, LEEIE
Date: 04/02/15	
Comments:	
View of field in north west corner of the site, looking south. Shows slope up to field, and Eastlands Industrial Estate in the background.	

Photograph 3	Project: Sizewell C Site Walkover, LEEIE
Date: 04/02/15	
Comments:	
View of field in north west corner of site, looking south east. Shows hedges lining field, and overhead cables.	

Photograph 4	Project: Sizewell C Site Walkover, LEEIE
Date: 04/02/15	
Comments:	
View of slope from entrance on Valley Road looking south. Shows some fly-tipping.	

Photograph 5	Project: Sizewell C Site Walkover, LEEIE
Date: 04/02/15	
Comments:	
View of LEEIE looking north. Shows railway line in foreground, wire boundary fence, overhead cables, and hedges lining the field in the north west corner of the site.	

Photograph 6	Project: Sizewell C Site Walkover, LEEIE
Date: 04/02/15	
Comments:	
View of eastern boundary of LEEIE, showing tall hedges and wire fencing.	

Photograph 7	Project: Sizewell C Site Walkover, LEEIE
Date: 04/02/15	
Comments:	
View of LEEIE from northern boundary looking south. Shows tall hedge boundary, with no fencing.	

Appendix C – Envirocheck Reports

Appendix D – Definitions of Probability and Risk

Table D.1 - Risk estimation - classification of probability

Classification	Definition of the probability of harm / pollution occurring
High Likelihood	The contaminant linkage exists and it is very likely to result in harm / pollution in the short term, and/or will almost inevitably result in harm / pollution in the long term, and/or there is current evidence of harm/pollution. Likelihood is defined as more likely than not and meets the definition of 'significant possibility' within Part 2A Contaminated Land Statutory Guidance.
Likely	The source, pathway and receptor exist for the contaminant linkage and it is probable that harm / pollution will occur. Circumstances are such that harm / pollution is not inevitable, but possible in the short term and likely over the long term. Likelihood is defined as reasonably possible and meets the definition of 'significant possibility' within Part 2A Contaminated Land Statutory Guidance.
Low Likelihood	The source, pathway and receptor exist and it is possible that harm / pollution could occur. Circumstances are such that harm/pollution is by no means certain in the long term and less likely in the short term.
Unlikely	The source, pathway and receptor exist for the contaminant linkage but it is improbable that harm / pollution will occur even in the long term.

Table D.2 - Risk estimation - classification of consequence

Classification	Definition of consequence
Human Health Receptors – Site end user or other sensitive receptor	
Severe	Acute damage to human health based on the effects on the critical human receptor. Concentrations of contaminants above appropriate site-specific assessment criteria. Harm meets definition of 'significant harm' within Part 2A Contaminated Land Statutory Guidance.
Medium	Chronic damage to human health based on the effects on the critical human receptor. Concentrations of contaminants above appropriate site-specific assessment criteria. Harm meets definition of 'significant harm' within Part 2A Contaminated Land Statutory Guidance.
Mild	No appreciable impact on human health based on the potential effects on the critical human receptor. Concentrations of contaminants above generic assessment criteria but below appropriate site-specific assessment criteria.
Minor	No appreciable impact on human health based on the effects on the critical human receptor. Concentrations of contaminants below appropriate generic assessment criteria.
Human Health Receptors – Site construction workers	
Severe	Exposure to hazardous substances resulting in a reportable death, major injury, 3-day injury or illness/disease under RIDDOR.
Medium	Exposure to hazardous substances resulting in a dangerous occurrence reportable under RIDDOR. Exposure to hazardous substances resulting in exceedance of a workplace exposure limit.
Mild	Exposure to hazardous substances resulting in limited effects such as headache, dizziness, nausea. Exposures below the workplace exposure limits. Not reportable under RIDDOR.

Minor	Minor exposure to hazardous substance resulting in no appreciable ill health effects.
Controlled Water Receptors	
Severe	Pollution of a Principal Aquifer within a source protection zone or potable supply characterised by a breach of drinking water standards. Pollution of a surface water course characterised by a breach of an Environmental Quality Standard (EQS) at a statutory monitoring location or resulting in a change in General Quality Assessment (GQA) grade of river reach. Discharge of a List I or List II substance to groundwater. Pollution meets Part 2A Contaminated Land Statutory Guidance definition.
Medium	Pollution of a Principal Aquifer outside a source protection zone or a Secondary A Aquifer characterised by a breach of drinking water standards. Pollution of an industrial groundwater abstraction or irrigation supply that impairs its function. Substantial pollution but insufficient to result in a change in the GQA grade of river reach Pollution meets Part 2A Contaminated Land Statutory Guidance definition.
Mild	Low levels of pollution of a Principal Aquifer outside a source protection zone or an industrial abstraction, or pollution of a Secondary Aquifer. Low levels of pollution insufficient to result in a change in the GQA grade of river reach, pollution of a surface water course without a quality classification.
Minor	No appreciable pollution, or pollution of a low sensitivity receptor such as a non-aquifer or a surface water course without a quality classification
Property Receptors – Buildings, Foundations and Services	
Severe	Catastrophic damage to buildings, such as explosion. Catastrophic failure of foundations and services. Substantial damage to a Scheduled Monument significantly impairing the by reason of which the monument is scheduled. Harm meets definition of ‘significant harm’ within Part 2A Contaminated Land Statutory Guidance.
Medium	Substantial damage to buildings and foundations rendering the structures unsafe. Substantial damage to services impairing their function. Significant damage to a Scheduled Monument significantly impairing the reason of which the monument is scheduled. Harm meets definition of ‘significant harm’ within Part 2A Contaminated Land Statutory Guidance.
Mild	Significant damage to buildings and foundations but not resulting in them being unsafe for occupation. Damage to services but not sufficient to impair their function. Damage to a Scheduled Monument but no significant impairment to the reason of which the monument is scheduled.
Minor	Easily repairable damage to buildings, foundations and services.
Property Receptors – Crops and Livestock and Ecological Receptors	
Severe	Substantial loss in the value of crops or domestically-grown produce. Death to livestock, domesticated animals or wild animals subject to shooting or fishing rights. Harm meets definition of ‘significant harm’ within Part 2A Contaminated Land Statutory Guidance.
Medium	Substantial diminution in yield (over 20% reduction) of crops or domestically-grown produce. Serious disease or other serious physical damage to livestock, domesticated animals or wild animals subject to shooting or fishing rights. Harm meets definition of ‘significant harm’ within Part 2A Contaminated Land Statutory Guidance.
Mild	Harm to crops but not resulting in a substantial loss in value or diminution in yield (less than 20% reduction). Limited harm in terms of disease or other physical

	damage to livestock, domesticated animals or wild animals subject to shooting or fishing rights.
Minor	No appreciable harm, or harm to a low sensitivity receptor.

Appendix E – Preliminary Conceptual Site Model

Table E.1- Preliminary Site Conceptual Model

Source	Receptor		Contaminant exposure / migration pathway	Baseline			Construction			Operation			Post Operation (temporary works areas only)		
				Probability	Consequence	Risk Category	Probability	Consequence	Risk Category	Probability	Consequence	Risk Category	Probability	Consequence	Risk Category
ON-SITE: MCA Former rifle range located in the centre of the MCA. Made Ground within the north east of the MCA. Drainage and wind pumps in the north and centre of the MCA. Sewage treatment works located on the western boundary of the MCA. Made Ground and spoil disposal on the MCA associated with the construction of Sizewell B and former contractors' compound. Activities relating to the former contractors' compound on the MCA for Sizewell B including possible storage areas, fabrication areas, lagoons, stone washing / concrete batching area. Car park located on western edge of the MCA. Activities within the MCA associated with the operation of Sizewell B power station including radioactive materials. Former infilled sand pits located across the MCA. Peat and alluvial deposits indicated to be present within the eastern edge of the MCA. Farming activities across the entire site area including potential for unmarked farmers tips. Made Ground associated with the construction of roads crossing the various areas of the site as well as activities associated with their operation. Moderate UXO risk across the site. *Risk of inorganic and organic contamination including metals and hydrocarbons, biological contaminants, PCBs, asbestos, solvents, paints, fuels, oils, herbicides and pesticides. Ground gas generation. Risk of explosion.*	**Human health:** On-site	Pedestrians and road users using existing roads, footpaths and fields within the site	Dermal contact with and ingestion of contaminants in soil, soil-derived dust and water. Inhalation of contaminants in soil, soil-derived dust and vapours. Risk of encountering UXO and explosion.	Low likelihood	Mild	**Low risk**	Receptor not present	--	--	Receptor not present	--	--	--	--	--
		Agricultural workers	Dermal contact with and ingestion of contaminants in soil, soil-derived dust and water. Inhalation of contaminants in soil, soil-derived dust and vapours. Risk of encountering UXO and explosion.	Low likelihood	Medium	**Medium / Low risk**	Receptor not present	--	--	Receptor not present	--	--	--	--	--
		Recreational site users of the SSSI, marshes and beach along the foreshore	Dermal contact with and ingestion of contaminants in soil, soil-derived dust and water. Inhalation of contaminants in soil, soil-derived dust and vapours. Risk of encountering UXO and explosion.	Low likelihood	Medium	**Medium / Low risk**	Receptor not present	--	--	Receptor not present	--	--	--	--	--
		Current Sizewell B workers using areas of the MCA	Dermal contact with and ingestion of contaminants in soil, soil-derived dust and water. Inhalation of contaminants in soil, soil-derived dust and vapours. Risk of encountering UXO and explosion.	Low likelihood	Mild	**Low risk**	Low likelihood	Mild	**Low risk**	Receptor not present	--	--	--	--	--
		Future site workers	Dermal contact with and ingestion of contaminants in soil, soil-derived dust and water. Inhalation of contaminants in soil, soil-derived dust and vapours. Risk of encountering UXO and explosion.	Receptor not present	--	--	Receptor not present	--	--	Low likelihood	Medium	**Medium / Low risk**	--	--	--
	Human health: Off-site	Workers in adjacent Sizewell B power station	Dermal contact with and/or ingestion of contaminants in windblown soil-derived dusts and water that may have migrated off site. Inhalation of windblown soil derived dust, fibres and gas/vapours which may have migrated off site.	Unlikely	Mild	**Very low risk**	Unlikely	Mild	**Very low risk**	Unlikely	Mild	**Very low risk**	--	--	--
		Pedestrians accessing surrounding roads and footpaths	Dermal contact with and/or ingestion of contaminants in windblown soil-derived dusts and water that may have migrated off site. Inhalation of windblown soil derived dust, fibres and	Unlikely	Mild	**Very low risk**	Unlikely	Mild	**Very low risk**	Unlikely	Mild	**Very low risk**	--	--	--

Source	Receptor		Contaminant exposure / migration pathway	Baseline			Construction			Operation			Post Operation (temporary works areas only)		
				Probability	Consequence	Risk Category	Probability	Consequence	Risk Category	Probability	Consequence	Risk Category	Probability	Consequence	Risk Category
			gas/vapours which may have migrated off site.												
		Agricultural workers	Dermal contact with and/or ingestion of contaminants in windblown soil-derived dusts and water that may have migrated off site. Inhalation of windblown soil derived dust, fibres and gas/vapours which may have migrated off site.	Unlikely	Mild	**Very low risk**	Unlikely	Mild	**Very low risk**	Unlikely	Mild	**Very low risk**	--	--	--
		Recreational site users of the surrounding SSSI and marshes	Dermal contact with and/or ingestion of contaminants in windblown soil-derived dusts and water that may have migrated off site. Inhalation of windblown soil derived dust, fibres and gas/vapours which may have migrated off site.	Unlikely	Mild	**Very low risk**	Unlikely	Mild	**Very low risk**	Unlikely	Mild	**Very low risk**	--	--	--
	Controlled Waters	Principal Bedrock and Superficial Secondary A aquifers	Leaching / migration of contaminants in soil to groundwater in underlying aquifers.	Low likelihood	Medium	**Moderate / Low risk**	Low	Medium	**Moderate / Low risk**	Unlikely	Medium	**Low Risk**	--	--	--
			Migration of contaminated water through preferential pathways such as underground services, pipes and granular material to groundwater in underlying aquifers.	Unlikely	Medium	**Low risk**	Low likelihood	Medium	**Moderate / Low risk**	Low likelihood	Medium	**Moderate / Low risk**	--	--	--
		Ponds and drains on site and within 500 m of the site	Migration of contaminated water into underlying aquifers followed by lateral migration into nearby watercourses.	Low likelihood	Medium	**Moderate / Low risk**	Low	Medium	**Moderate / Low risk**	Unlikely	Medium	**Low Risk**	--	--	--
			Discharge of contaminants entrained in surface water run-off followed by overland flow and discharge.	Unlikely	Medium	**Low risk**	Low	Medium	**Moderate / Low risk**	Unlikely	Medium	**Low Risk**	--	--	--
		North Sea	Migration of contaminated water into underlying aquifers followed by lateral migration into nearby watercourses.	Low likelihood	Medium	**Moderate / Low risk**	Low	Medium	**Moderate / Low risk**	Unlikely	Medium	**Low Risk**	--	--	--
			Discharge of contaminants entrained in surface water run-off followed by overland flow and discharge.	Unlikely	Medium	**Low risk**	Low	Medium	**Moderate / Low risk**	Unlikely	Medium	**Low Risk**	--	--	--
	Property / services	Existing on-site and off-site services and structures	Direct contact of contaminants in soil and/or groundwater with existing buried service.	Unlikely	Medium	**Low risk**	Unlikely	Medium	**Low Risk**	Unlikely	Medium	**Low Risk**	--	--	--
			Migration of ground gas along strata and preferential pathways such as service routes or differentially permeable strata leading to accumulation and explosion.	Unlikely	Medium	**Low risk**	Unlikely	Medium	**Low Risk**	Unlikely	Medium	**Low Risk**	--	--	--

Source	Receptor		Contaminant exposure / migration pathway	Baseline			Construction			Operation			Post Operation (temporary works areas only)		
				Probability	Consequence	Risk Category	Probability	Consequence	Risk Category	Probability	Consequence	Risk Category	Probability	Consequence	Risk Category
		Proposed on-site services and structures associated with the site	Direct contact of contaminants in soil and/or groundwater with existing buried service.	Receptor not present	--	--	Receptor not present	--	--	Low	Medium	**Moderate / Low risk**	--	--	--
			Migration of ground gas along strata and preferential pathways such as service routes or differentially permeable strata leading to accumulation and explosion.	Receptor not present	--	--	Receptor not present	--	--	Low	Medium	**Moderate / Low risk**	--	--	--
		Crops and livestock (on-site and off-site)	Direct contact between soil and water contamination and crops and livestock.	Low likelihood	Medium	**Moderate / Low risk**	Low	Medium	**Moderate / Low risk**	Low	Medium	**Moderate / Low risk**	--	--	--
			Contaminated surface run-off impacting upon the crops and livestock.	Low likelihood	Medium	**Moderate / Low risk**	Low	Medium	**Moderate / Low risk**	Low	Medium	**Moderate / Low risk**	--	--	--
	Ecological	Sizewell Marshes SSSI	Direct contact between soil and water contamination and ecological receptors.	Low likelihood	Medium	**Moderate / Low risk**	Low	Medium	**Moderate / Low risk**	Low	Medium	**Moderate / Low risk**	--	--	--
			Contaminated surface run-off impacting upon the ecological receptors.	Low likelihood	Medium	**Moderate / Low risk**	Low	Medium	**Moderate / Low risk**	Low	Medium	**Moderate / Low risk**	--	--	--
		Minsmere-Walberswick Heaths and Marshes SSSI, RAMSAR, SAC and SPA and Suffolk Coast and Heaths AONB	Contaminated surface run-off impacting upon the ecological receptors.	Unlikely	Medium	**Low risk**	Unlikely	Medium	**Low Risk**	Unlikely	Medium	**Low Risk**	--	--	--
ON-SITE: TCA Former infilled sand pits located across the TCA. Grass covered mounds (suspected Made Ground) located in the north east of the TCA. Peat and alluvial deposits indicated to be present within the eastern edge of the TCA. Farming activities across the entire site area including potential for unmarked farmers tips. Made Ground associated with the construction of roads crossing the various areas of the site as well as activities associated with their operation. Moderate UXO risk across the site. *Risk of inorganic and organic contamination including metals and hydrocarbons, asbestos, fuels, oils, herbicides and pesticides. Risk of explosion.*	**Human health:** On-site	Pedestrians and road users using existing roads, footpaths and fields within the site	Dermal contact with and ingestion of contaminants in soil, soil-derived dust and water. Inhalation of contaminants in soil, soil-derived dust and vapours.	Low likelihood	Mild	**Low risk**	Receptor not present	--	--	Receptor not present	--	--	Low likelihood	Mild	**Low risk**
		Agricultural workers	Dermal contact with and ingestion of contaminants in soil, soil-derived dust and water. Inhalation of contaminants in soil, soil-derived dust and vapours.	Unlikely	Medium	**Low risk**	Receptor not present	--	--	Receptor not present	--	--	Unlikely	Medium	**Low risk**
		Residents within the TCA	Dermal contact with and ingestion of contaminants in soil, soil-derived dust and water. Inhalation of contaminants in soil, soil-derived dust and vapours.	Unlikely	Medium	**Low risk**	Unlikely	Mild	**Very low risk**	Unlikely	Mild	**Very low risk**	Unlikely	Medium	**Low risk**
	Human health: Off-site	Occupants of nearby residential, recreational and commercial properties	Dermal contact with and/or ingestion of contaminants in windblown soil-derived dusts and water that may have migrated off site. Inhalation of windblown soil derived dust, fibres and gas/vapours which may have migrated off site.	Unlikely	Mild	**Very low risk**	Unlikely	Mild	**Very low risk**	Unlikely	Mild	**Very low risk**	Unlikely	Mild	**Very low risk**

Source	Receptor		Contaminant exposure / migration pathway	Baseline			Construction			Operation			Post Operation (temporary works areas only)		
				Probability	Consequence	Risk Category	Probability	Consequence	Risk Category	Probability	Consequence	Risk Category	Probability	Consequence	Risk Category
		Pedestrians accessing surrounding roads and footpaths	Dermal contact with and/or ingestion of contaminants in windblown soil-derived dusts and water that may have migrated off site. Inhalation of windblown soil derived dust, fibres and gas/vapours which may have migrated off site.	Unlikely	Mild	**Very low risk**	Unlikely	Mild	**Very low risk**	Unlikely	Mild	**Very low risk**	Unlikely	Mild	**Very low risk**
		Agricultural workers	Dermal contact with and/or ingestion of contaminants in windblown soil-derived dusts and water that may have migrated off site. Inhalation of windblown soil derived dust, fibres and gas/vapours which may have migrated off site.	Unlikely	Mild	**Very low risk**	Unlikely	Mild	**Very low risk**	Unlikely	Mild	**Very low risk**	Unlikely	Mild	**Very low risk**
		Recreational site users of the SSSI and marshes	Dermal contact with and/or ingestion of contaminants in windblown soil-derived dusts and water that may have migrated off site. Inhalation of windblown soil derived dust, fibres and gas/vapours which may have migrated off site.	Unlikely	Mild	**Very low risk**	Unlikely	Mild	**Very low risk**	Unlikely	Mild	**Very low risk**	Unlikely	Mild	**Very low risk**
	Controlled Waters	Principal Bedrock and Superficial Secondary A aquifers	Leaching / migration of contaminants in soil to groundwater in underlying aquifers.	Low likelihood	Medium	**Moderate / Low risk**	Low	Medium	**Moderate / Low risk**	Low	Medium	**Moderate / Low risk**	Low	Medium	**Moderate / Low risk**
			Migration of contaminated water through preferential pathways such as underground services, pipes and granular material to groundwater in underlying aquifers.	Unlikely	Medium	**Low risk**	Low	Medium	**Moderate / Low risk**	Low	Medium	**Moderate / Low risk**	Unlikely	Medium	**Low Risk**
		Ponds and drains on site and within 500 m of the site	Migration of contaminated water into underlying aquifers followed by lateral migration into nearby watercourses.	Low likelihood	Medium	**Moderate / Low risk**	Low	Medium	**Moderate / Low risk**	Low	Medium	**Moderate / Low risk**	Low	Medium	**Moderate / Low risk**
			Discharge of contaminants entrained in surface water run-off followed by overland flow and discharge.	Unlikely	Medium	**Low risk**	Low	Medium	**Moderate / Low risk**	Low	Medium	**Moderate / Low risk**	Unlikely	Medium	**Low Risk**
	Property / services	Existing on-site and off-site services and structures	Direct contact of contaminants in soil and/or groundwater with existing buried service.	Unlikely	Medium	**Low risk**	Unlikely	Medium	**Low Risk**	Unlikely	Medium	**Low Risk**	Unlikely	Medium	**Low Risk**
			Migration of ground gas along strata and preferential pathways such as service routes or differentially permeable strata leading to accumulation and explosion.	Unlikely	Medium	**Low risk**	Unlikely	Medium	**Low Risk**	Unlikely	Medium	**Low Risk**	Unlikely	Medium	**Low Risk**
		Proposed on-site services and structures associated with the site	Direct contact of contaminants in soil and/or groundwater with existing buried service.	Receptor not present	--	--	Receptor not present	--	--	Low	Medium	**Moderate / Low risk**	Receptor not present	--	--

Source	Receptor		Contaminant exposure / migration pathway	Baseline			Construction			Operation			Post Operation (temporary works areas only)		
				Probability	Consequence	Risk Category	Probability	Consequence	Risk Category	Probability	Consequence	Risk Category	Probability	Consequence	Risk Category
			Migration of ground gas along strata and preferential pathways such as service routes or differentially permeable strata leading to accumulation and explosion.	Receptor not present	--	--	Receptor not present	--	--	Low	Medium	**Moderate / Low risk**	Receptor not present	--	--
		Crops and livestock (on-site and off-site)	Direct contact between soil and water contamination and crops and livestock.	Unlikely	Medium	**Low risk**	Unlikely	Medium	**Low risk**	Unlikely	Medium	**Low risk**	Unlikely	Medium	**Low risk**
			Contaminated surface run-off impacting upon the crops and livestock.	Unlikely	Medium	**Low risk**	Unlikely	Medium	**Low risk**	Unlikely	Medium	**Low risk**	Unlikely	Medium	**Low risk**
	Ecological	Sizewell Marshes SSSI	Direct contact between soil and water contamination and ecological receptors.	Unlikely	Medium	**Low risk**	Unlikely	Medium	**Low risk**	Unlikely	Medium	**Low risk**	Unlikely	Medium	**Low risk**
			Contaminated surface run-off impacting upon the ecological receptors.	Unlikely	Medium	**Low risk**	Unlikely	Medium	**Low risk**	Unlikely	Medium	**Low risk**	Unlikely	Medium	**Low risk**
		Minsmere-Walberswick Heaths and Marshes SSSI, RAMSAR, SAC and SPA and Suffolk Coast and Heaths AONB	Contaminated surface run-off impacting upon the ecological receptors.	Unlikely	Medium	**Low risk**	Unlikely	Medium	**Low Risk**	Unlikely	Medium	**Low Risk**	Unlikely	Medium	**Low risk**
ON-SITE: LEEIE Fly tipping in the north west of the LEEIE. Railway line running through the southern extent of the LEEIE and associated buildings. Farming activities across the entire site area including potential for unmarked farmers tips. Made Ground present within the southern section of the LEEIE associated with the railway line and in the northern section associated with an infilled reservoir. Electricity substation in the eastern extent of the proposed access road in the east of the LEEIE. Made Ground associated with the construction of roads crossing the various areas of the site as well as activities associated with their operation. Moderate UXO risk across the site. *Risk of inorganic and organic contamination including metals and hydrocarbons, asbestos, fuels, oils, PCBs, PAHs,*	**Human health:** On-site	Pedestrians and road users using existing roads, railway, footpaths and fields within the site	Dermal contact with and ingestion of contaminants in soil, soil-derived dust and water. Inhalation of contaminants in soil, soil-derived dust and vapours.	Low likelihood	Mild	**Low risk**	Receptor not present	--	--	Receptor not present	--	--	Low likelihood	Mild	**Low risk**
		Agricultural workers	Dermal contact with and ingestion of contaminants in soil, soil-derived dust and water. Inhalation of contaminants in soil, soil-derived dust and vapours.	Unlikely	Mild	**Very low risk**	Receptor not present	--	--	Receptor not present	--	--	Unlikely	Mild	**Very low risk**
	Human health: Off-site	Occupants of nearby residential, recreational and commercial properties	Dermal contact with and/or ingestion of contaminants in windblown soil-derived dusts and water that may have migrated off site. Inhalation of windblown soil derived dust, fibres and gas/vapours which may have migrated off site.	Unlikely	Mild	**Very low risk**	Unlikely	Mild	**Very low risk**	Unlikely	Mild	**Very low risk**	Unlikely	Mild	**Very low risk**
		Pedestrians accessing surrounding roads and footpaths	Dermal contact with and/or ingestion of contaminants in windblown soil-derived dusts and water that may have migrated off site. Inhalation of windblown soil derived dust, fibres and gas/vapours which may have migrated off site.	Unlikely	Mild	**Very low risk**	Unlikely	Mild	**Very low risk**	Unlikely	Mild	**Very low risk**	Unlikely	Mild	**Very low risk**
		Agricultural workers	Dermal contact with and/or ingestion of contaminants in windblown soil-derived	Unlikely	Mild	**Very low risk**	Unlikely	Mild	**Very low risk**	Unlikely	Mild	**Very low risk**	Unlikely	Mild	**Very low risk**

Source	Receptor		Contaminant exposure / migration pathway	Baseline			Construction			Operation			Post Operation (temporary works areas only)		
				Probability	Consequence	Risk Category	Probability	Consequence	Risk Category	Probability	Consequence	Risk Category	Probability	Consequence	Risk Category
herbicides and pesticides. Risk of explosion.			dusts and water that may have migrated off site. Inhalation of windblown soil derived dust, fibres and gas/vapours which may have migrated off site.												
	Controlled Waters	Principal Bedrock and Superficial Secondary A aquifers	Leaching / migration of contaminants in soil to groundwater in underlying aquifers.	Low likelihood	Mild	**Low risk**	Low likelihood	Mild	**Low risk**	Low likelihood	Mild	**Low risk**	Low likelihood	Mild	**Low risk**
			Migration of contaminated water through preferential pathways such as underground services, pipes and granular material to groundwater in underlying aquifers.	Unlikely	Medium	**Low risk**	Unlikely	Medium	**Low Risk**	Unlikely	Medium	**Low Risk**	Unlikely	Medium	**Low Risk**
		Ponds and drains on site and within 500 m of the site	Migration of contaminated water into underlying aquifers followed by lateral migration into nearby watercourses.	Unlikely	Mild	**Very low risk**	Unlikely	Mild	**Very low risk**	Unlikely	Mild	**Very low risk**	Unlikely	Mild	**Very low risk**
			Discharge of contaminants entrained in surface water run-off followed by overland flow and discharge.	Unlikely	Mild	**Very low risk**	Unlikely	Mild	**Very low risk**	Unlikely	Mild	**Very low risk**	Unlikely	Mild	**Very low risk**
	Property / services	Existing on-site and off-site services and structures	Direct contact of contaminants in soil and/or groundwater with existing buried service.	Unlikely	Medium	**Low risk**	Unlikely	Medium	**Low Risk**	Unlikely	Medium	**Low Risk**	Unlikely	Medium	**Low Risk**
			Migration of ground gas along strata and preferential pathways such as service routes or differentially permeable strata leading to accumulation and explosion.	Unlikely	Medium	**Low risk**	Unlikely	Medium	**Low Risk**	Unlikely	Medium	**Low Risk**	Unlikely	Medium	**Low Risk**
		Proposed on-site services and structures associated with the site	Direct contact of contaminants in soil and/or groundwater with existing buried service.	Receptor not present	--	--	Receptor not present	--	--	Unlikely	Medium	**Low risk**	Receptor not present	--	--
			Migration of ground gas along strata and preferential pathways such as service routes or differentially permeable strata leading to accumulation and explosion.	Receptor not present	--	--	Receptor not present	--	--	Unlikely	Medium	**Low risk**	Receptor not present	--	--
		Crops and livestock (on-site and off-site)	Direct contact between soil and water contamination and crops and livestock.	Unlikely	Medium	**Low risk**	Unlikely	Medium	**Low risk**	Unlikely	Medium	**Low risk**	Unlikely	Medium	**Low risk**
			Contaminated surface run-off impacting upon the crops and livestock.	Unlikely	Medium	**Low risk**	Unlikely	Medium	**Low risk**	Unlikely	Medium	**Low risk**	Unlikely	Medium	**Low risk**
	Ecological	Sizewell Marshes SSSI	Direct contact between soil and water contamination and ecological receptors.	Unlikely	Medium	**Low risk**	Unlikely	Medium	**Low risk**	Unlikely	Medium	**Low risk**	Unlikely	Medium	**Low risk**

Source	Receptor		Contaminant exposure / migration pathway	Baseline			Construction			Operation			Post Operation (temporary works areas only)		
				Probability	Consequence	Risk Category	Probability	Consequence	Risk Category	Probability	Consequence	Risk Category	Probability	Consequence	Risk Category
			Contaminated surface run-off impacting upon the ecological receptors.	Unlikely	Medium	**Low risk**	Unlikely	Medium	**Low risk**	Unlikely	Medium	**Low risk**	Unlikely	Medium	**Low risk**
OFF-SITE: Activities associated with the operation of Sizewell A and B power stations including asbestos lined tanks and their infill, the deposition of radioactive materials on the MCA and migration of contaminated groundwater onto the MCA. Former sand pits located 250 m north west and south east of the MCA and 250 m to the south of the TCA which have been infilled. Former brick works, brick field and clay pit located 300 m to the west of the LEEIE which have been infilled. Smithy located approximately 450m south- east of the LEEIE. Tank and sewage works located 500 m to the south west of the LEEIE. Historical landfills within 500 m of the site including refuse tip, Ogilvie at Home Farm, Leiston Landfill, Carrs Pit, Abbey Pit and Aldhurst Farm. Gas works, coal yard and tanks located 40 m to the west of the LEEIE. Electrical substation located 100 m south west of the LEEIE. Farming activities in surrounding areas including potential for unmarked farmers tips. Allotments adjacent to the south of the LEEIE. Made Ground associated with the construction of roads surrounding the site as well as activities associated with their operation. Works and factories within Eastlands Industrial Estate. *Risk of inorganic and organic contamination including metals and hydrocarbons, asbestos, solvents, fuels, oils, PCBs, radioactive materials, coal tar, acids and alkalis, herbicides and*	**Human health:** On-site	Pedestrians and road users using existing roads, footpaths, railway and fields within the site	Dermal contact with and ingestion of contaminants in soil, soil-derived dust and water. Inhalation of contaminants in soil, soil-derived dust and vapours.	Low likelihood	Mild	**Low risk**	Receptor not present	--	--	Receptor not present	--	--	Low likelihood	Mild	**Low risk**
		Agricultural workers	Dermal contact with and ingestion of contaminants in soil, soil-derived dust and water. Inhalation of contaminants in soil, soil-derived dust and vapours.	Unlikely	Mild	**Very low risk**	Receptor not present	--	--	Receptor not present	--	--	Unlikely	Mild	**Very low risk**
		Recreational site users of the SSSI, marshes and beach along the foreshore	Dermal contact with and ingestion of contaminants in soil, soil-derived dust and water. Inhalation of contaminants in soil, soil-derived dust and vapours.	Low likelihood	Mild	**Low risk**	Receptor not present	--	--	Receptor not present	--	--	Low likelihood	Mild	**Low risk**
		Current Sizewell B site workers using the MCA	Dermal contact with and ingestion of contaminants in soil, soil-derived dust and water. Inhalation of contaminants in soil, soil-derived dust and vapours.	Low likelihood	Mild	**Low risk**	Receptor not present	--	--	Receptor not present	--	--	Low likelihood	Mild	**Low risk**
		Future site workers	Dermal contact with and ingestion of contaminants in soil, soil-derived dust and water. Inhalation of contaminants in soil, soil-derived dust and vapours.	Receptor not present	--	--	Receptor not present	--	--	Unlikely	Mild	**Very low risk**	--	--	--
		Residents within the TCA	Dermal contact with and ingestion of contaminants in soil, soil-derived dust and water. Inhalation of contaminants in soil, soil-derived dust and vapours.	Unlikely	Mild	**Very low risk**	Unlikely	Mild	**Very low risk**	Unlikely	Mild	**Very low risk**	Unlikely	Mild	**Very low risk**
	Controlled Waters	Principal Bedrock and Superficial Secondary A aquifers	Leaching / migration of contaminants in soil to groundwater in underlying aquifers.	Low likelihood	Medium	**Moderate / Low risk**	Low	Medium	**Moderate / Low risk**	Low	Medium	**Moderate / Low risk**	Low	Medium	**Moderate / Low risk**
			Migration of contaminated water through preferential pathways such as underground services, pipes and granular material to groundwater in underlying aquifers.	Unlikely	Medium	**Low risk**	Unlikely	Medium	**Low Risk**	Unlikely	Medium	**Low Risk**	Unlikely	Medium	**Low Risk**
		Ponds and drains on site and within 500 m of the site	Migration of contaminated water into underlying aquifers followed by lateral migration into nearby watercourses.	Low likelihood	Medium	**Moderate / Low risk**	Low	Medium	**Moderate / Low risk**	Low	Medium	**Moderate / Low risk**	Low	Medium	**Moderate / Low risk**

Source	Receptor		Contaminant exposure / migration pathway	Baseline			Construction			Operation			Post Operation (temporary works areas only)		
				Probability	Consequence	Risk Category	Probability	Consequence	Risk Category	Probability	Consequence	Risk Category	Probability	Consequence	Risk Category
pesticides. Ground gas generation.			Discharge of contaminants entrained in surface water run-off followed by overland flow and discharge.	Unlikely	Medium	**Low risk**	Low	Medium	**Moderate / Low risk**	Low	Medium	**Moderate / Low risk**	Low	Medium	**Moderate / Low risk**
	Property / services	Existing on-site services and structures	Direct contact of contaminants in soil and/or groundwater with existing buried service.	Unlikely	Medium	**Low risk**	Unlikely	Medium	**Low Risk**	Unlikely	Medium	**Low Risk**	Unlikely	Medium	**Low Risk**
			Migration of ground gas along strata and preferential pathways such as service routes or differentially permeable strata leading to accumulation and explosion.	Unlikely	Medium	**Low risk**	Unlikely	Medium	**Low Risk**	Unlikely	Medium	**Low Risk**	Unlikely	Medium	**Low Risk**
		Proposed on-site services and structures associated with the site	Direct contact of contaminants in soil and/or groundwater with existing buried service.	Receptor not present	--	--	Receptor not present	--	--	Low	Medium	**Moderate / Low risk**	Receptor not present	--	--
			Migration of ground gas along strata and preferential pathways such as service routes or differentially permeable strata leading to accumulation and explosion.	Receptor not present	--	--	Receptor not present	--	--	Low	Medium	**Moderate / Low risk**	Receptor not present	--	--
		Crops and livestock (on-site)	Direct contact between soil and water contamination and crops and livestock.	Low likelihood	Medium	**Moderate / Low risk**	Low	Medium	**Moderate / Low risk**	Low	Medium	**Moderate / Low risk**	Receptor not present	--	--
			Contaminated surface run-off impacting upon the crops and livestock.	Low likelihood	Medium	**Moderate / Low risk**	Low	Medium	**Moderate / Low risk**	Low	Medium	**Moderate / Low risk**	Receptor not present	--	--
	Ecological	Sizewell Marshes SSSI	Direct contact between soil and water contamination and ecological receptors.	Low likelihood	Medium	**Moderate / Low risk**	Low	Medium	**Moderate / Low risk**	Low	Medium	**Moderate / Low risk**	Receptor not present	--	--
			Contaminated surface run-off impacting upon the ecological receptors.	Low likelihood	Medium	**Moderate / Low risk**	Low	Medium	**Moderate / Low risk**	Low	Medium	**Moderate / Low risk**	Receptor not present	--	--

Appendix F – Ground Investigation Factual Reports

Appendix G – Geological Cross Sections

DO NOT SCALE

Millimetres 100 10 0

A A' B B' C C' D D' E E' F F'

C6 C3 C5 BR15 BR13–C1 BR14 PBP4 BP12 BP14 BP16 BP19 BP23 BP18 BP21 BP24 BP22 BP26 Pz2009_19 GW5 TP2009_16 Pz2009_15 MPM_2009_11 BHC3S BHC3D CBH_2009_9U BAP1 TPN1 TPN2 TPN3 TPN4 BH2 RR8 Pz2009_20 TP2009_17 BDG01 BDG1 TM46SE165 BH4 BHC4D BHC4S SE2A SE2 BH1 SE3 BHC2D BHC2S GW3 RR7 GW2 GW1D GW1S GR9 RR6 TM46SE19 TM46SE17 TM46SE16 TM46SE14 TM46SE15 TM46SE13 TM46SE12 TM46SE11 TM46SE10 TM46SE9 BHC1S BHC1D TM46SE8 TM46SE7 TM46SE21 TM46SE38 TM46SE29 TM46SE28 TM46SE26 TM46SE18 TM46SE20 AF5 AF4 AF3 AF2 AF1 AF9 AF8 AF7 AF6 TM46SE22 TM46SE31 TM46SE24 TM46SE23 TM46SE32 TM46SE25 TM46SE33 TM46SE181 RR2 BF3 BF1 RR1 BF2 BF4 TP65 GW20 TP68 TP66 TP67 TP69 TP70 CBH_2009_11U GW21 TP71 GW22 MPM_2009_12 TP72 TP73 TP74 TP75 GW23 TP76

FOR DETAILS OF HOLES WITHIN SHADED AREA REFER TO DRAWING 5129919/SZC/301

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following:

CONSTRUCTION

MAINTENANCE/CLEANING

DECOMMISSIONING/DEMOLITION

It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement

Key:

- Section Line Location
- Exploratory Hole

UK PROTECT - COMMERCIAL

Rev.	Date	Description	By	Chk'd	App'd

Drawing Status: FOR INFORMATION

Suitability: S0

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DRAFT

Client

Project Title: SIZEWELL SITE C

Drawing Title: BOREHOLE LOCATION PLAN SHOWING POSITIONS OF GEOLOGICAL CROSS SECTIONS

Scale	Designed	Drawn	Checked	Authorised
1:5000	JK FORD	JK FORD	EW	--
Original Size	Date	Date	Date	Date
A1	18/09/14	18/09/14	18/09/14	-

Drawing Number: 5129919/SZC/300

Revision: P01

DO NOT SCALE

Millimetres 0 10 100

A A' B B' C C' D D' E E' F F'

N

NORTHERN ACCESS ROAD
WIDTH TO REDUCE
POST-CONSTRUCTION TO
6.3m WIDE
WIDTH TO BE DETERMINED

C3 C6 C5 BR15 BR13-C1 BR14-C4 PBP4 SE2A SE3 RR7 GW2 GW1D GR9 RR6 AE5 AE4 AE3 AE2 AE1 AF9 AF8 AF7 AF6 RR2 BF3 BF1 RR1 BF2 BF4 GW3 BH1 BP12 BP14 BP16 BP18 BP19 BP21 BP22 BP23 BP24 RR8 Pz2009_20 TPN1 TPN2 TPN3 TPN4 BH2 BH C2D BH C1D TM46SE17 TM46SE18 TM46SE20 TM46SE21 TM46SE22 TM46SE25 TM46SE26 TM46SE31 TM46SE32 TM46SE33 TM46SE161 TM46SE5 TM46SE7 TM46SE8 TM46SE9 TM46SE10 TM46SE11 TM46SE12 TM46SE15 TM46SE16 TM46SE20 TM46SE29 TM46SE30 TM46SE42 TM46SE105 TM46SE113 TM46SE123 TM46SE125 TM46SE127 TM46SE134 TM46SE136 TM46SE163 TM46SE164 TM46SE165 TM46SE174 BP26 Pz2009_9 Pz2009_15 TP 2009_16 GW4 GPM 2009_11 GPH 2009_9U TP 2009_15 TP 2009_17 BH C3D BDG01A BH4 BH C4D TP65 GW20 TP63 TP67 TP69 TP70 GW21 TP72 TP74 TP73 TP75 GW22 TP76 Pz2009_21 BH A BH C TP54 (BH) TP60 (BH) TP 2009_4 TP 2009_6 TP 2009_7 TP 2009_8 TP 2009_9 TP 2009_11 GPH 2009_12U CBT6 RC CBT5 RC

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following:

CONSTRUCTION

MAINTENANCE/CLEANING

DECOMMISSIONING/DEMOLITION

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Key:

- Section Line Location
- Exploratory Hole

Rev.	Date	Description	By	Chk'd	App'd

Drawing Status: FOR INFORMATION

Suitability: S0

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Drawing Title: BOREHOLE LOCATION PLAN SHOWING POSITIONS OF GEOLOGICAL CROSS SECTIONS

Scale	Designed	Drawn	Checked	Authorised
1:5000	JK FORD	JK FORD	EW	--
Original Size	**Date**	**Date**	**Date**	**Date**
A1	18/09/14	18/09/14	18/09/14	-

Drawing Number: 5129919/SZC/301

Revision: P01

DO NOT SCALE

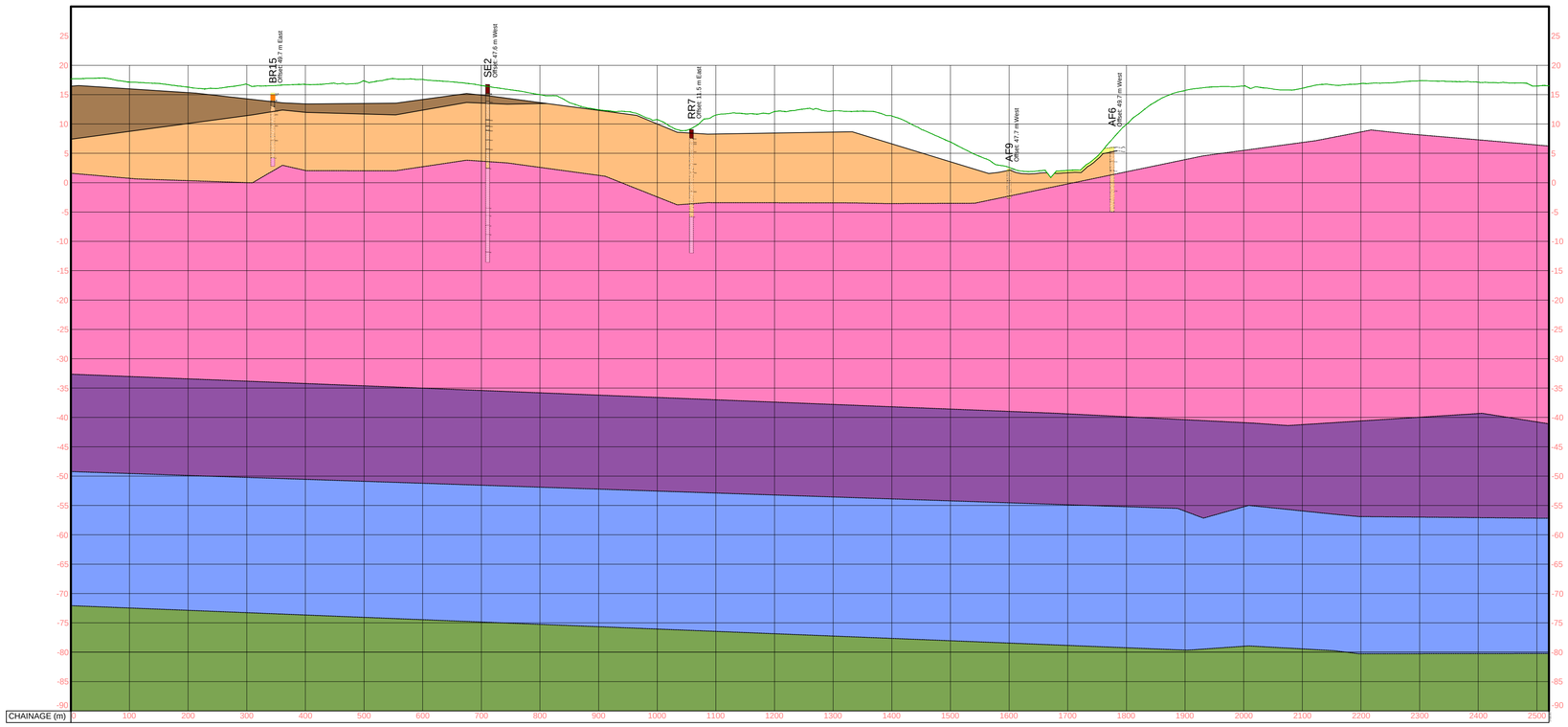
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North

A

South

A'

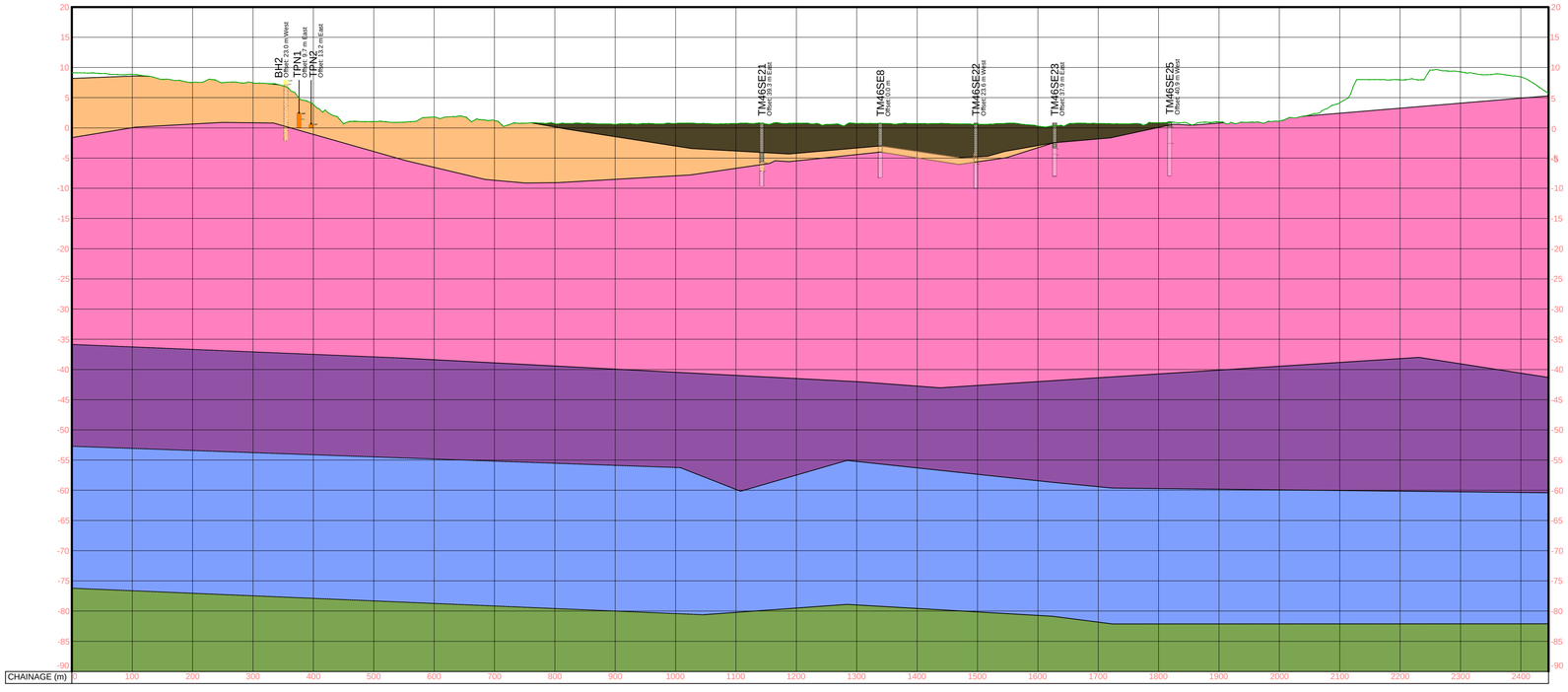


North

B

South

B'



SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following:

CONSTRUCTION

MAINTENANCE/CLEANING

DECOMMISSIONING/DEMOLITION

It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement

Key:

- Undefined Ground
- Made Ground / Topsoil
- Superficial loose sediments / Glacial Drifts
- Alluvial Clay
- Peat
- Sand and Gravel
- Crag Deposits
- London Clay
- Lower London Tertiary
- Chalk

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Rev.	Date	Description	By	Chk'd	App'd

Drawing Status: FOR INFORMATION

Suitability: S0

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Project Title: SIZEWELL SITE C

Drawing Title: GEOLOGICAL CROSS SECTIONS A-A' & B-B'

Scale	Designed	Drawn	Checked	Authorised
	JK FORD	JK FORD	M LEE	--
Original Size	**Date**	**Date**	**Date**	**Date**
A1	10/09/14	15/09/14	17/09/14	-

Drawing Number: 5129919/SZC/302

Revision: P01

Millimetres 0 10 100

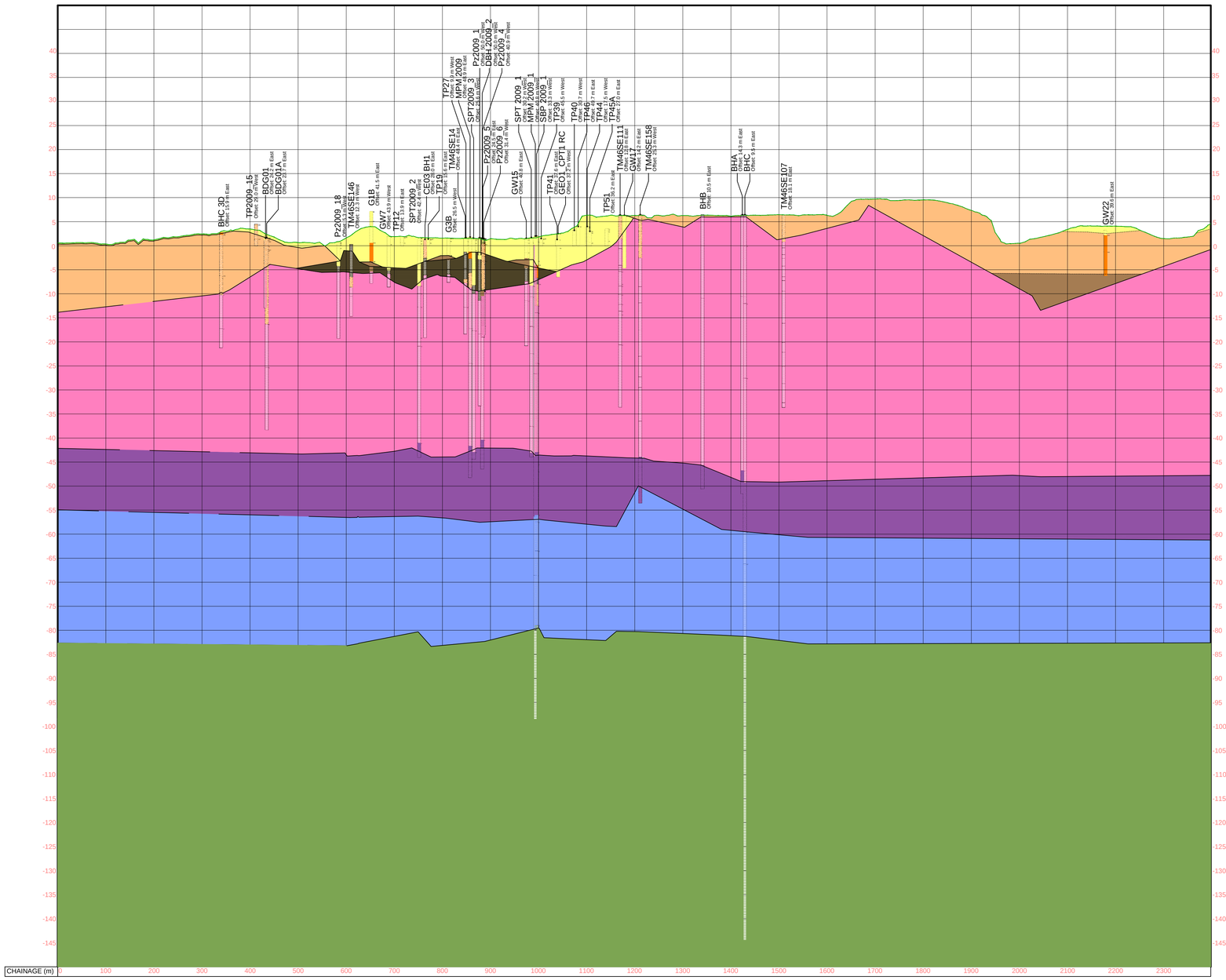
DO NOT SCALE

North

C

South

C'



SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION
In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following:
CONSTRUCTION
MAINTENANCE/CLEANING
DECOMMISSIONING/DEMOLITION
It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement

Key:

- Undefined Ground
- Made Ground / Topsoil
- Superficial loose sediments / Glacial Drifts
- Alluvial Clay
- Peat
- Sand and Gravel
- Crag Deposits
- London Clay
- Lower London Tertiary
- Chalk

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Rev.	Date	Description	By	Chk'd	App'd

Drawing Status: FOR INFORMATION

Suitability: S0

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Drawing Title: GEOLOGICAL CROSS SECTION C-C'

Scale	Designed	Drawn	Checked	Authorised
	JK FORD	JK FORD	M LEE	--
Original Size	Date	Date	Date	Date
A1	10/09/14	10/09/14	17/09/14	-

Drawing Number: 5129919/SZC/303

Revision: P01

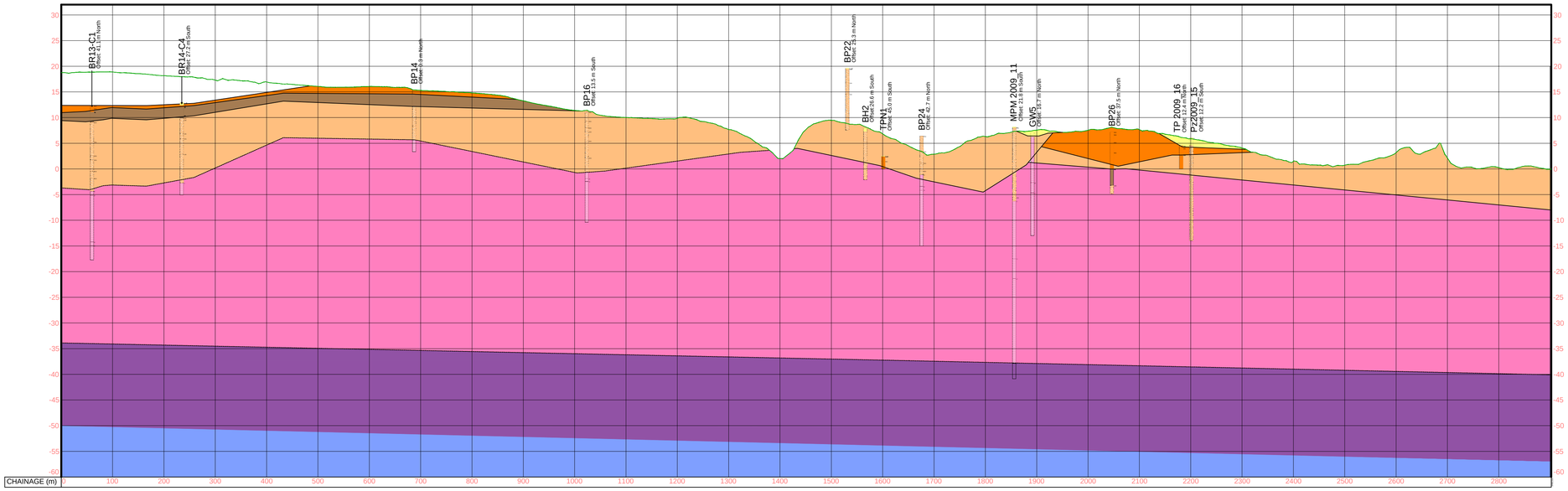
DO NOT SCALE

West

D

East

D'

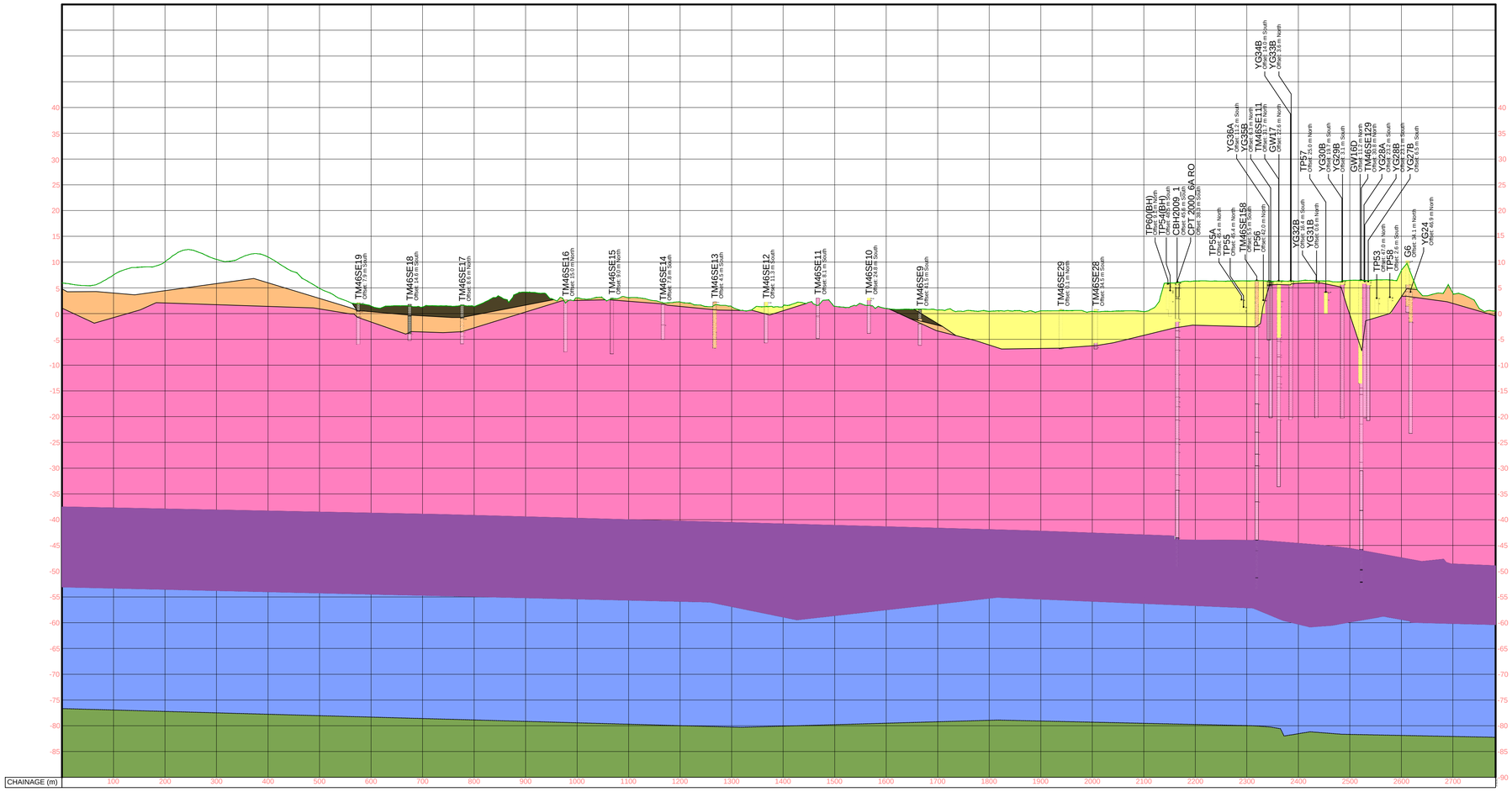


West

E

East

E'



Millimetres

0 10 100

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following:

CONSTRUCTION

MAINTENANCE/CLEANING

DECOMMISSIONING/DEMOLITION

It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement

Key:

- Undefined Ground
- Made Ground / Topsoil
- Superficial loose sediments / Glacial Drifts
- Alluvial Clay
- Peat
- Sand and Gravel
- Crag Deposits
- London Clay
- Lower London Tertiary
- Chalk

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Suitability: S0

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Client

Project Title: SIZEWELL SITE C

Drawing Title: GEOLOGICAL CROSS SECTIONS D-D' & E-E'

Scale	Designed	Drawn	Checked	Authorised
	JK FORD	JSD	SW	--
Original Size	Date	Date	Date	Date
A1	10/09/14	10/09/14	16/09/14	-

Drawing Number: 5129919/SZC/304

Revision: P01

Appendix H – Soil Screening Results

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Assessment Criteria : *Commercial - 1% SOM Sand*

☐ Use MRL Values?

Constituent	Unit	Generic Assessment Criteria (mg/kg)	Number of Samples	Minimum Value	Maximum Value	Number of Exceedences	Locations of Exceedences	Sample ID	TP1 ES3	TP1 ES4	TP2 ES1	TP2 ES3	TP3 ES2	TP4 ES4	TP4 ES5	TP6 ES1	TP6 ES2	TP7 ES3	TP8 ES2	TP8 ES4	TP9 ES2	TP9 ES3	TP12 ES2	TP12 ES3	TP13 ES1	TP14 ES2	TP14 ES3	TP15 ES4	TP17 ES2	TP17 ES3	TP18 ES2	TP19 ES1	TP20 ES1	TP20 ES2	TP21 ES2	TP21 ES3	TP22 ES2	TP22 ES3	TP23 ES1	TP25 ES1	TP25 ES2	TP26 ES2D	TP27 ES2	TP28 ES1	TP28 ES4	TP29 ES2	TP29 ES3	TP30 ES2	TP32 ES1	TP33 ES2	TP33 ES3	TP34 ES2
								Depth	1.5 - 1.6	2.5 - 2.6	GL - 0.2	1.0 - 1.1	0.5 - 0.6	2.20 - 2.60	3.50 - 3.60	0.7 - 0.8	1.2 - 1.3	1.5 - 1.6	0.5 - 0.6	2.5 - 2.6	0.50 - 0.60	1.50 - 1.60	0.8 - 0.9	1.7 - 1.8	0 - 0.2	0.5 - 0.6	1.1 - 1.2	2.5 - 2.5	0.5 - 0.6	1.4 - 1.5	0.5 - 0.6	0.4 - 0.5	GL - 0.2	0.4 - 0.5	0.5 - 0.6	1.5 - 1.6	0.50 - 0.60	1.50 - 1.60	GL - 0.2	0.4 - 0.5	1.8 - 1.9	0.8 - 0.9	0.7 - 0.8	GL - 0.20	2.50 - 2.60	0.7 - 0.8	1.2 - 1.3	0.5 - 0.6	0.4 - 0.5	0.5 - 0.6	1.4 - 1.5	0.5 - 0.6
								Strata																																												
								Zone																																												
Stone Content	(%)	No SSV	165	<1	68	0			8	7	5	21	7	19	16	21	11	14	<1	4	2	13	<1	5	<1	<1	<1	13	4	7	10	<1	9	40	<1	<1	13	<1	19	<1	<1	-	<1	16	15	<1	<1	2	10	2	13	17
Metals/Metalloids																																																				
Arsenic**	(mg/kg)	635	165	<5	158.9	0			8.5	9.1	25.2	17.8	31	17.4	15.7	19.3	20.1	19	44.1	9.1	45	29.4	32.6	54.8	37.5	8.6	13.5	20.3	34.5	25.3	50.8	77.4	16.4	14.3	15.9	13.5	9.7	72.2	11.4	38.1	28.3	-	46	12.1	18.3	35	13.6	32.5	31.1	39.1	25.7	8.7
Cadmium**	(mg/kg)	410	165	<0.5	2.92	0			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium**	(mg/kg)	208000	165	2	72.8	0			13.1	15.3	13	13	9	14	13	12	8	9	12	5	16	16	15	14	27	5	6	7	10	6	13	18	7	12	6	15	5	25.9	5	8	8	-	13	6	9	9	7	9	8	10	10	6
Lead**	(mg/kg)	2310	165	1	1206.8	0			7.1	6.3	10	8	7	8	8	8	5	7	6	15	7	11	8	7	19	3	3	4	8	5	7	6	6	5	3	11	6	9	7	4	5	-	6	9	7	4	3	14	4	8	5	6
Mercury**	(mg/kg)	7.95	165	<0.5	3.44	0			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Nickel**	(mg/kg)	1770	165	1.9	146.98	0			7.6	7.9	6.9	12.6	5	8.2	7.9	7.8	5.6	6.1	6.9	3.1	8.3	9.5	9	8.3	18.1	2.8	3.3	4.5	6.5	4.9	6.8	10.6	5.8	7.1	3.3	9.8	2.8	13.3	4	5.3	6.1	-	7.6	3.8	5.3	5.1	3.7	7.2	4.7	8.7	5.7	3.7
Copper**	(mg/kg)	106000	165	<1	256.91	0			3	2.8	6.8	7.9	3.5	4.6	5.1	7.8	5.1	4.5	4.2	3.9	3.4	5.9	4.3	3.2	7	2.2	2.6	3.5	3.9	2.9	3.6	23.6	5.8	5.3	2.3	5.9	2.3	6.5	3.4	3.7	4.6	-	5.4	2.6	2.5	2.7	2.6	5.4	3.1	4.7	3.1	2.6
Zinc**	(mg/kg)	1100000	165	5.9	1220.3	0			18.6	25.8	32.6	23.1	22.2	29.2	26.5	28.4	26.1	22.9	31.2	21.6	28.8	5.9	34.2	29.8	44.3	17.6	19.1	32.2	30	23.7	25.6	77.8	28	21	19.9	37.5	12.7	62.1	21.4	28.5	30.8	-	38	12.8	16.3	29.4	21.6	36.9	24.7	32.2	22.5	15.4
Selenium	(mg/kg)	13000	165	<0.5	3.57	0			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.53	<0.5	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.9	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.65	<0.5	<0.5	<0.5	0.5	<0.5	0.74	<0.5	<0.5	<0.5	-	0.72	<0.5	<0.5	0.59	<0.5	1.1	<0.5	<0.5	0.52	0.73
Hexavalent Chromium	(mg/kg)	49.1	165	<2	<2	0			<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	-	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Water Soluble Boron	(mg/kg)	No SSV	165	<0.5	12.1	0			<0.5	<0.5	0.5	1.5	<0.5	1.1	1.1	1.1	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	<0.5	<0.5	0.6	2.1	<0.5	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	-	0.67	<0.5	<0.5	<0.5	<0.5	1.6	<0.5	<0.5	<0.5	0.5
Inorganics																																																				
pH Value**	(Units)	No SSV	165	4.3	11.2	0			8.95	8.45	7.1	11.05	8.6	9.45	11	10.2	9.8	11.1	8.81	7.4	8.14	8.62	8.28	8.35	8.18	8.7	8.43	9.5	8.11	8.13	8.36	8.07	8.1	8.06	8.66	8.41	8.29	7.32	7.97	8.38	7.96	-	7.65	7.99	8.26	8	8.13	7.81	8.49	8.2	9.64	6.48
Total Sulphate	(% as SO4)	No SSV	165	<0.05	0.59	0			0.08	0.06	0.08	0.14	0.07	0.07	0.08	0.06	0.09	0.07	0.06	<0.05	0.09	0.08	0.09	0.13	0.14	0.06	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.06	0.12	0.08	0.13	0.08	0.23	<0.05	<0.05	0.15	-	0.29	0.08	0.09	0.21	0.11	0.13	<0.05	<0.05	<0.05	<0.05
Total Cyanide**	(mg/kg)	No SSV	165	<1	4.78	0			<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Sulphide	(mg/kg)	No SSV	165	<2	88	0			<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	27.1	<2	<2	<2	<2	<2	<2	6	-	<2	<2	<2	<2	27.3	<2	<2	<2	11.4	<2
Elemental Sulphur**	(mg/kg)	No SSV	165	<10	414.72	0			<10	<10	<10	<10	<10	<10	<10	<10	39	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	20	<10	<10	<10	<10	<10	<10	<10	-	74.75	<10	<10	<10	108	19.22	<10	27.2	29.4	<10
Total Monohydric Phenols**	(mg/kg)	No SSV	165	<1	1.3	0			<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
PAHs																																																				
Naphthalene**	(mg/kg)	90.1	165	<0.1	<0.1	0			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene**	(mg/kg)	No SSV	165	<0.1	0.9	0			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene**	(mg/kg)	83600	165	<0.1	<0.1	0			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene**	(mg/kg)	66500	165	<0.1	0.11	0			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene**	(mg/kg)	No SSV	165	<0.1	0.97	0			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.11	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene**	(mg/kg)	535000	165	<0.1	0.45	0			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene**	(mg/kg)	72200	165	<0.1	2.69	0			<0.1	0.1	<0.1	<0.1	<0.1	<0.1	0.11	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene**	(mg/kg)	54100	165	<0.1	2.06	0			<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benz(a)anthracene**	(mg/kg)	No SSV	165	<0.1	1.52	0			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene**	(mg/kg)	13400	165	<0.1	1.52	0			<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b)fluoranthene**	(mg/kg)	BaP Surrogate	165	<0.1	0.91	0			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene**	(mg/kg)	BaP Surrogate	165	<0.1	1.32	0			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene**	(mg/kg)	76.3	165	<0.1	1.31	0			<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(123-cd)pyrene**	(mg/kg)	BaP Surrogate	165	<0.1	0.8	0			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenz(ah)anthracene**	(mg/kg)	BaP Surrogate	165	<0.1	0.21	0			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene**	(mg/kg)	BaP Surrogate	165	<0.1	0.89	0			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total PAH**	(mg/kg)	No SSV	165	<0.1	14.72	0			<0.1	0.4	<0.1	<0.1	<0.1	<0.1	0.22	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TPH Aromatic																																																				
TPH Aromatic C5-C7	(mg/kg)	12.5	165	<0.01	<0.01	0			<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH Aromatic C7-C8	(mg/kg)	27900	165	<0.01	<0.01	0			<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH Aromatic C8-C10	(mg/kg)	2210	165	<0.1	0.4	0			0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TPH aromatic C10-C12	(mg/kg)	12300	165	<0.1	0.22	0			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.13	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TPH Aromatic C12-C16	(mg/kg)	41300	165	<0.1	5.83	0			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.15	0.14	<0.1	<0.1	<0.1	<0.1	<0.1	0.12	0.11	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.12	<0.1	<0.1	<0.1	0.31	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	5.83	0.16
TPH Aromatic C16-C21	(mg/kg)	28400	165	<0.1	19.85	0			<0.1	1.41	<0.1	<0.1	0.33	<0.1	0.98	2.85	0.51	0.37	0.31	0.39	0.14	<0.1	0.17	0.21	0.11	0.2	0.22	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.22	0.11	<0.1	<0.1	0.41	<0.1	0.12	-	0.11	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.11	19.85	0.39
TPH Aromatic C21-C35	(mg/kg)	28400	165	<-68.01	42.05	0			0.57	24.77	0.25	0.93	0.37	0.23	3.36	7.27	5.62	0.67	0.54	0.58	0.18	<0.1	0.59	0.38	0.32	0.54	<0.1	3.42	<0.1	<0.1	0.18	2.03	0.93	<0.1	<0.1	<0.1	<0.1	0.13	<0.1	<0.1	<0.1	-	1.91	<0.1	<0.1	<0.1	1.1	1.7	7.59	<0.1	42.05	0.62
TPH Aliphatic																																																				
TPH Aliphatic C5-C6	(mg/kg)	4490	165	<0.01	0.03	0			<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH Aliphatic C6-C8	(mg/kg)	10400	165	<0.01	<0.1	0			<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH Aliphatic C8-C10	(mg/kg)	1370	165	<0.1	0.15	0			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	0.15	<0.1	<0.1	<0.1	<0.1
TPH Aliphatic C10-C12	(mg/kg)	7900	165	<0.1	0.52	0			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.52	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TPH Aliphatic C12-C16	(mg/kg)	34000	165	<0.1	5.62	0			<0.1	<0.1	<0.1	0.12	<0.1	<0.1	<0.1	2.65	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.13	0.11	<0.1	<0.1	<0.1	0.12	0.14	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	0.12	<0.1	<0.1	<0.1	<0.1	5.62	<0.1
TPH Aliphatic C16-C21	(mg/kg)	3620000	165	<0.1	47.96	0			<0.1	1.8	<0.1	0.55	0.76	<0.1	0.6	3.64	0.36	0.79	0.63	0.73	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	0.1	<0.1	0.18	<0.1	<0.1	7.94	<0.1
TPH Aliphatic C21-C35	(mg/kg)	3620000	165	<-143.07	46.2	0			0.57	42.78	0.53	1.83	0.15	0.81	3.8	12.92	3.8	0.86	0.35	0.19	0.55	1.86	<0.1	0.13	0.54	<0.1	<0.1	2.01	0.76	0.43	1.56	0.52	0.18	0.18	1.5	1.5	0.54	0.26	0.18	0.16	<0.1	-	0.59	0.12	0.65	<0.1	<0.1	3.15	2.48	<0.1	29.55	0.3
TPH (C5 - C35)	(mg/kg)	No SSV	161	<-271.4	70.86	0			1.26	70.86	0.78	3.42	1.61	1.05	8.74	31.23	10.62	2.69	1.83	1.89	0.87	1.86	0.88	0.83	0.97	0.75	0.22	5.43	0.76	0.55	1.8	2.56	1.11	0.18	1.96	1.75	0.54	0.4	0.9	0.16	0.12	-	2.61	0.12	0.65	0.22	1.1	5.18	10.07	0.11	-110.85	1.48
Asbestos	% / type	Any	50	Not Detected	Present	49			-	-	-	-	none	-	-	none	-	none	none	-	none	-	none	-	-	none	-	none	none	-	-	None	none	-	-	-	none	-	-	-	-	None	-	-	-	-	none	-	-	none	-	none
VOCs		No SSV	11	<10	<10	0			-	-	-	-	<10	<10	<10	<10	-	-	<10	<10	<10	<10	<10	-	-	<10	-	-																								
Benzene**	(µg/kg)	12.5	61	<10	<10	0			-	-	-	-	<10	<10	<10	<10	-	-	<10	<10	<10	<10	<10	-	-	<10	-	-	<10	-	-	<10	-	-	-	-	<10	<10	-	<10	<10	-	-	<10	<10	<10	-	-	-	<10	-	<10
Toluene**	(µg/kg)	27900	61	<10	<10	0			-	-	-	-	<10	<10	<10	<10	-	-	<10	<10	<10	<10	<10	-	-	<10	-	-	<10	-	-	<10	-	-	-	-	<10	<10	-	<10	<10	-	-	<10	<10	<10	-	-	-	<10	-	<10
Ethyl Benzene**	(µg/kg)	7660	61	<10	16.19	0			-	-	-	-	<10	<10	<10	<10	-	-	<10	<10	<10	<10	<10	-	-	<10	-	-	<10	-	-	<10	-	-	-	-	<10	<10	-	<10	<10	-	-	<10	<10	<10	-	-	-	<10	-	<10
mpXylene**	(µg/kg)	No SSV	59	<10	15.07	0			-	-	-	-	<10	<10	<10	<10	-	-	<10	<10	<10	<10	<10	-	-	<10	-	-	<10	-	-	<10	-	-	-	-	<10	<10	-	<10	<10	-	-	<10	<10	<10	-	-	-	<10	-	<10
oXylene**	(µg/kg)	No SSV	48	<10	<10	0			-	-	-	-	<10	<10	<10	<10	-	-	<10		<10		<10	-	-	<10	-	-	<10	-	-	<10	-	-	-	-	<10		-	<10	<10	-	-			<10	-	-	-	<10	-	<10
1, 2-Dichloroethene-cis**	(µg/kg)	No SSV	48	<10	14.88	0			-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
1, 1-Dichloroethane**	(µg/kg)	No SSV	48	<10	<10	0			-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Chloroform**	(µg/kg)	45.2	48	<10	12	0			-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Carbontetrachloride**	(µg/kg)	No SSV	48	<10	<10	0			-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
1, 1, 1-Trichloroethane**	(µg/kg)	No SSV	48	<10	<10	0			-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Trichloroethylene**	(µg/kg)	No SSV	48	<10	<10	0			-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Tetrachloroethylene**	(µg/kg)	No SSV	48	<10	12.34	0			-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
1, 1, 1, 2-Tetrachloroethane**	(µg/kg)	No SSV	48	<10	<10	0			-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
1, 1, 2, 2-Tetrachloroethane**	(µg/kg)	No SSV	39	<10	<10	0																							<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Chlorobenzene**	(µg/kg)	502	48	<10	<10	0			-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Bromobenzene**	(µg/kg)	42.1	48	<10	12.55	0			-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Bromodichloromethane**	(µg/kg)	0.854	48	<10	<10	0			-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Methylethylbenzene**	(µg/kg)	No SSV	48	<10	<10	0			-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
1, 1-Dichloro-1-propene**	(µg/kg)	No SSV	48	<10	<10	0			-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
1, 2-Dichloroethene-trans	(µg/kg)	No SSV	48	<10	37.36	0			-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
2, 2-Dichloropropane	(µg/kg)	No SSV	48	<10	<10	0			-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Bromochloromethane	(µg/kg)	No SSV	48	<10	<10	0			-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
1, 2-Dichloroethane	(µg/kg)	No SSV	48	<10	<10	0			-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Dibromomethane**	(µg/kg)	No SSV	48	<10	<10	0			-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
1, 2-Dichloropropane**	(µg/kg)	No SSV	48	<10	<10	0			-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
1, 3-Dichloro1propene**	(µg/kg)	No SSV	48	<10	<10	0			-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
1, 3-Dichloro1propene trans	(µg/kg)	No SSV	48	<10	<10	0			-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
1, 1, 2-Trichloroethane	(µg/kg)	No SSV	48	<10	<10	0			-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Dibromochloromethane	(µg/kg)	9.27	48	<10	<10	0			-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
1, 3-Dichloropropane	(µg/kg)	No SSV	48	<10	<10	0			-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Dibromoethane**	(µg/kg)	No SSV	48	<10	<10	0			-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Styrene	(µg/kg)	9670	48	<10	<10	0			-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Propylbenzene	(µg/kg)	16200	48	<10	<10	0			-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
2-Chlorotoluene	(µg/kg)	No SSV	48	<10	<10	0			-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
1, 2, 4-Trimethylbenzene	(µg/kg)	No SSV	48	<10	<10	0			-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
4-Chlorotoluene	(µg/kg)	No SSV	48	<10	<10	0			-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
t-Butylbenzene	(µg/kg)	No SSV	48	<10	<10	0			-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Trimethylbenzene	(µg/kg)	No SSV	48	<10	<10	0			-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
1-Methylpropylbenzene	(µg/kg)	No SSV	48	<10	<10	0			-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
o-Cymene	(µg/kg)	No SSV	48	<10	<10	0			-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
1, 4-Dichlorobenzene	(µg/kg)	No SSV	48	<10	<10	0			-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Butylbenzene	(µg/kg)	No SSV	48	<10	<10	0			-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
1, 2-Dibromo-3-chloropropane	(µg/kg)	No SSV	48	<10	<10	0			-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Hexachlorobutaciene	(µg/kg)	No SSV	48	<10	<10	0			-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
1, 2, 3-Trichlorobenzene	(µg/kg)	No SSV	48	<10	<10	0			-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
1, 2, 4-Trichlorobenzene	(µg/kg)	No SSV	48	<10	<10	0			-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
1, 3-Dichlorobenzene	(µg/kg)	No SSV	48	<10	<10	0			-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
1, 2-Dichlorobenzene	(µg/kg)	No SSV	48	<10	<10	0			-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Bromoform	(µg/kg)	327	48	<10	<10	0			-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Vinyl Chloride	(µg/kg)	0.0309	37	<10	<10	0			-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	-	-	-	<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
SVOCs																																																				
Pyridine	(µg/kg)	No SSV	48	<10	<10	0			-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Aniline	(µg/kg)	No SSV	48	<10	<10	0			-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Phenol	(µg/kg)	685	48	<10	20.37	0			-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	20.37	-	<10
Bis(2-chloroethyl) ether	(µg/kg)	No SSV	48	<10	<10	0			-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Benzene, 1,3-dichloro-	(µg/kg)	No SSV	48	<10	<10	0			-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Benzene, 1,4-dichloro-	(µg/kg)	No SSV	48	<10	<10	0			-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Benzene, 1,2-dichloro-	(µg/kg)	No SSV	48	<10	<10	0			-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Phenol, 2-methyl-	(µg/kg)	No SSV	48	<10	22.46	0			-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	22.46	-	<10
Ethane, hexachloro-	(µg/kg)	No SSV	48	<10	<10	0			-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Phenol, 3-methyl-	(µg/kg)	No SSV	48	<10	<10	0			-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Nitrobenzene	(µg/kg)	No SSV	48	<10	<10	0			-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Isophorone	(µg/kg)	No SSV	48	<10	<10	0			-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Phenol, 2-nitro-	(µg/kg)	No SSV	48	<10	<10	0			-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Phenol, 2,4-dimethyl-	(µg/kg)	No SSV	48	<10	<10	0			-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Methane, bis(2-chloroethoxy)-	(µg/kg)	No SSV	48	<10	<10	0			-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Phenol, 2,4-dichloro-	(µg/kg)	No SSV	48	<10	<10	0			-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
1,3,4-Trichlorobenzene,	(µg/kg)	No SSV	48	<10	<10	0			-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Naphthalene	(µg/kg)	90.1	4	<10	<10	0			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloroaniline	(µg/kg)	No SSV	48	<10	<10	0			-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Hexachloro-1,3-butadiene	(µg/kg)	No SSV	48	<10	<10	0			-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Phenol, 4-chloro-3-methyl-	(µg/kg)	No SSV	48	<10	<10	0			-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Naphthalene, 2-methyl-	(µg/kg)	No SSV	48	<10	<10	0			-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Naphthalene, 1-methyl-	(µg/kg)	No SSV	48	<10	<10	0			-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Hexachlorocyclopentadiene	(µg/kg)	No SSV	48	<10	<10	0			-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Phenol, 2,4,6-trichloro-	(µg/kg)	No SSV	48	<10	<10	0			-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Phenol, 2,4,5-trichloro-	(µg/kg)	No SSV	48	<10	<10	0			-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Naphthalene, 2-chloro-	(µg/kg)	No SSV	48	<10	<10	0			-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
2-Nitroaniline	(µg/kg)	No SSV	48	<10	<10	0			-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
1,4-Dinitrobenzene,	(µg/kg)	No SSV	48	<10	<10	0			-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Dimethylphthalate	(µg/kg)	No SSV	48	<10	<10	0			-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Acenaphthylene	(µg/kg)	No SSV	4	<10	<10	0			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.3-Dinitrobenzene	(µg/kg)	No SSV	48	<10	<10	0			-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
3-Nitroaniline	(µg/kg)	No SSV	48	<10	<10	0			-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Acenaphthene	(µg/kg)	83600	4	<10	<10	0			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	(µg/kg)	No SSV	48	<10	<10	0			-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
2,4-Dinitrotoluene	(µg/kg)	3730	48	<10	<10	0			-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
2,3,4,6-Tetrachlorophenol,	(µg/kg)	No SSV	48	<10	<10	0			-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10

ATKINS

Assessment Criteria : *Commercial - 1% SOM Sand*

☐ **Use MRL Values?**

Determinant		Generic assessment criteria (mg/kg)	Number of samples	Minimum Value	Maximum Value	Number of exceedences	Locations of Exceedences	Sample ID	TP1 ES3	TP1 ES4	TP2 ES1	TP2 ES3	TP3 ES2	TP4 ES4	TP4 ES5	TP6 ES1	TP6 ES2	TP7 ES3	TP8 ES2	TP8 ES4	TP9 ES2	TP9 ES3	TP12 ES2	TP12 ES3	TP13 ES1	TP14 ES2	TP14 ES3	TP15 ES4	TP17 ES2	TP17 ES3	TP18 ES2	TP19 ES1	TP20 ES1	TP20 ES2	TP21 ES2	TP21 ES3	TP22 ES2	TP22 ES3	TP23 ES1	TP25 ES1	TP25 ES2	TP26 ES2D	TP27 ES2	TP28 ES1	TP28 ES4	TP29 ES2	TP29 ES3	TP30 ES2	TP32 ES1	TP33 ES2	TP33 ES3	TP34 ES2
								Depth	1.5 - 1.6	2.5 - 2.6	GL - 0.2	1.0 - 1.1	0.5 - 0.6	2.20 - 2.60	3.50 - 3.60	0.7 - 0.8	1.2 - 1.3	1.5 - 1.6	0.5 - 0.6	2.5 - 2.6	0.50 - 0.60	1.50 - 1.60	0.8 - 0.9	1.7 - 1.8	0 - 0.2	0.5 - 0.6	1.1 - 1.2	2.5 - 2.5	0.5 - 0.6	1.4 - 1.5	0.5 - 0.6	0.4 - 0.5	GL - 0.2	0.4 - 0.5	0.5 - 0.6	1.5 - 1.6	0.50 - 0.60	1.50 - 1.60	GL - 0.2	0.4 - 0.5	1.8 - 1.9	0.8 - 0.9	0.7 - 0.8	GL - 0.20	2.50 - 2.60	0.7 - 0.8	1.2 - 1.3	0.5 - 0.6	0.4 - 0.5	0.5 - 0.6	1.4 - 1.5	0.5 - 0.6
								Strata																																											
2,3,5,6-Tetrachlorophenol,	(µg/kg)	No SSV	48	<10	<10	0			-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Diethylphthalate	(µg/kg)	No SSV	48	<10	111.87	0			-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	111.87	-	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Fluorene	(µg/kg)	66500	4	<10	<10	0			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Diphenylamine	(µg/kg)	No SSV	48	<10	<10	0			-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Azobenzene	(µg/kg)	No SSV	48	<10	<10	0			-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
4-Bromophenyl phenyl ether	(µg/kg)	No SSV	48	<10	<10	0			-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Hexachlorobenzene	(µg/kg)	No SSV	48	<10	<10	0			-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Pentachlorophenol	(µg/kg)	No SSV	48	<10	<10	0			-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Phenanthrene	(µg/kg)	No SSV	4	<10	<10	0			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	(µg/kg)	535000	4	<10	<10	0			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	(µg/kg)	72200	4	<10	<10	0			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	(µg/kg)	54100	4	<10	<10	0			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzylbutylphthalate	(µg/kg)	No SSV	48	<10	<10	0			-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Bis(2-ethylhexyl)adipate	(µg/kg)	No SSV	48	<10	<10	0			-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Benzo(a)anthracene	(µg/kg)	BaP Surrogate	4	<10	<10	0			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	(µg/kg)	13400	4	<10	<10	0			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bis(2-ethylhexyl)phthalate	(µg/kg)	No SSV	48	<10	<10	0			-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Benzo(b)fluoranthene	(µg/kg)	BaP Surrogate	4	<10	<10	0			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	(µg/kg)	BaP Surrogate	4	<10	<10	0			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	(µg/kg)	76.3	4	<10	<10	0			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeno[1,2,3-cd]pyrene	(µg/kg)	BaP Surrogate	4	<10	<10	0			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenz(ah)anthracene	(µg/kg)	BaP Surrogate	4	<10	<10	0			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(ghi)perylene	(µg/kg)	BaP Surrogate	4	<10	<10	0			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCBs																																																											
PCB 28**	(µg/kg)	No SSV	12	<10	<10	0			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10
PCB 52**	(µg/kg)	No SSV	12	<10	<10	0			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10
PCB 101**	(µg/kg)	No SSV	12	<10	<10	0			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10
PCB 118**	(µg/kg)	No SSV	12	<10	<10	0			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10
PCB 138**	(µg/kg)	No SSV	12	<10	<10	0			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10
PCB 153**	(µg/kg)	No SSV	12	<10	<10	0			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10
PCB 180**	(µg/kg)	No SSV	12	<10	<10	0			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10
OCPs																																																											
Alpha BHC**	(µg/kg)	No SSV	5	<10	<10	0			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beta BHC**	(µg/kg)	No SSV	5	<10	<10	0			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gamma BHC**	(µg/kg)	No SSV	5	<10	<10	0			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Delta BHC**	(µg/kg)	No SSV	5	<10	<10	0			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Heptachlor	(µg/kg)	No SSV	5	<10	<10	0			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aldrin	(µg/kg)	No SSV	5	<10	<10	0			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Heptachlor epoxide	(µg/kg)	No SSV	5	<10	<10	0			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlordane	(µg/kg)	No SSV	5	<10	<10	0			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endosulfan I	(µg/kg)	No SSV	5	<10	<10	0			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
cis-Chlordane	(µg/kg)	No SSV	5	<10	<10	0			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pp-DDE**	(µg/kg)	No SSV	5	<10	<10	0			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dieldrin	(µg/kg)	No SSV	5	<10	<10	0			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endrin	(µg/kg)	No SSV	5	<10	<10	0			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pp-DDD**	(µg/kg)	No SSV	5	<10	<10	0			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endrin Aldehyde	(µg/kg)	No SSV	5	<10	<10	0			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pp DDT**	(µg/kg)	No SSV	5	<10	<10	0			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endosulfan II	(µg/kg)	No SSV	5	<10	<10	0			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endrin Ketone	(µg/kg)	No SSV	5	<10	<10	0			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pp-Methoxychlor	(µg/kg)	No SSV	5	<10	<10	0			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OPPs																																																											
Mevinphos	(µg/kg)	No SSV	1	<10	<10	0			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dimethoate	(µg/kg)	No SSV	1	<10	<10	0			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Propetamphos	(µg/kg)	No SSV	1	<10	<10	0			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloropyriphos-methyl	(µg/kg)	No SSV	1	<10	<10	0			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fenitrothion	(µg/kg)	No SSV	1	<10	<10	0			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Malathion	(µg/kg)	No SSV	1	<10	<10	0			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Parathion	(µg/kg)	No SSV	1	<10	<10	0			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trans-Chlorfenvinphos	(µg/kg)	No SSV	1	<10	<10	0			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromophos	(µg/kg)	No SSV	1	<10	<10	0			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Triazophos	(µg/kg)	No SSV	1	<10	<10	0			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phosalone	(µg/kg)	No SSV	1	<10	<10	0			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Azinphos-methyl	(µg/kg)	No SSV	1	<10	<10	0			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Azinphos-ethyl	(µg/kg)	No SSV	1	<10	<10	0			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Assessment Criteria :	Commercial - 1% SOM Sand
☐ Use MRL Values?	

Constituent	Unit	Generic Assessment Criteria (mg/kg)	Number of Samples	Minimum Value	Maximum Value	Number of Exceedences	Locations of Exceedences
Stone Content	(%)	No SSV	165	<1	68	0	
Metals/Metalloids							
Arsenic**	(mg/kg)	635	165	<5	158.9	0	
Cadmium**	(mg/kg)	410	165	<0.5	2.92	0	
Chromium**	(mg/kg)	208000	165	2	72.8	0	
Lead**	(mg/kg)	2310	165	1	1206.8	0	
Mercury**	(mg/kg)	7.95	165	<0.5	3.44	0	
Nickel**	(mg/kg)	1770	165	1.9	146.98	0	
Copper**	(mg/kg)	106000	165	<1	256.91	0	
Zinc**	(mg/kg)	1100000	165	5.9	1220.3	0	
Selenium	(mg/kg)	13000	165	<0.5	3.57	0	
Hexavalent Chromium	(mg/kg)	49.1	165	<2	<2	0	
Water Soluble Boron	(mg/kg)	No SSV	165	<0.5	12.1	0	
Inorganics							
pH Value**	(Units)	No SSV	165	4.3	11.2	0	
Total Sulphate	(% as SO4)	No SSV	165	<0.05	0.59	0	
Total Cyanide**	(mg/kg)	No SSV	165	<1	4.78	0	
Sulphide	(mg/kg)	No SSV	165	<2	88	0	
Elemental Sulphur**	(mg/kg)	No SSV	165	<10	414.72	0	
Total Monohydric Phenols**	(mg/kg)	No SSV	165	<1	1.3	0	
PAHs							
Naphthalene**	(mg/kg)	90.1	165	<0.1	<0.1	0	
Acenaphthylene**	(mg/kg)	No SSV	165	<0.1	0.9	0	
Acenaphthene**	(mg/kg)	83600	165	<0.1	<0.1	0	
Fluorene**	(mg/kg)	66500	165	<0.1	0.11	0	
Phenanthrene**	(mg/kg)	No SSV	165	<0.1	0.97	0	
Anthracene**	(mg/kg)	535000	165	<0.1	0.45	0	
Fluoranthene**	(mg/kg)	72200	165	<0.1	2.69	0	
Pyrene**	(mg/kg)	54100	165	<0.1	2.06	0	
Benz(a)anthracene**	(mg/kg)	No SSV	165	<0.1	1.52	0	
Chrysene**	(mg/kg)	13400	165	<0.1	1.52	0	
Benzo(b)fluoranthene**	(mg/kg)	BaP Surrogate	165	<0.1	0.91	0	
Benzo(k)fluoranthene**	(mg/kg)	BaP Surrogate	165	<0.1	1.32	0	
Benzo(a)pyrene**	(mg/kg)	76.3	165	<0.1	1.31	0	
Indeno(123-cd)pyrene**	(mg/kg)	BaP Surrogate	165	<0.1	0.8	0	
Dibenz(ah)anthracene**	(mg/kg)	BaP Surrogate	165	<0.1	0.21	0	
Benzo(ghi)perylene**	(mg/kg)	BaP Surrogate	165	<0.1	0.89	0	
Total PAH**	(mg/kg)	No SSV	165	<0.1	14.72	0	
TPH Aromatic							
TPH Aromatic C5-C7	(mg/kg)	12.5	165	<0.01	<0.01	0	
TPH Aromatic C7-C8	(mg/kg)	27900	165	<0.01	<0.01	0	
TPH Aromatic C8-C10	(mg/kg)	2210	165	<0.1	0.4	0	
TPH aromatic C10-C12	(mg/kg)	12300	165	<0.1	0.22	0	
TPH Aromatic C12-C16	(mg/kg)	41300	165	<0.1	5.83	0	
TPH Aromatic C16-C21	(mg/kg)	28400	165	<0.1	19.85	0	
TPH Aromatic C21-C35	(mg/kg)	28400	165	<-68.01	42.05	0	
TPH Aliphatic							
TPH Aliphatic C5-C6	(mg/kg)	4490	165	<0.01	0.03	0	
TPH Aliphatic C6-C8	(mg/kg)	10400	165	<0.01	<0.1	0	
TPH Aliphatic C8-C10	(mg/kg)	1370	165	<0.1	0.15	0	
TPH Aliphatic C10-C12	(mg/kg)	7900	165	<0.1	0.52	0	
TPH Aliphatic C12-C16	(mg/kg)	34000	165	<0.1	5.62	0	
TPH Aliphatic C16-C21	(mg/kg)	3620000	165	<0.1	47.96	0	
TPH Aliphatic C21-C35	(mg/kg)	3620000	165	<-143.07	46.2	0	
TPH (C5 - C35)	(mg/kg)	No SSV	161	<-271.4	70.86	0	
Asbestos	% / type	Any	50	Not Detected	Present	49	
VOCs		No SSV	11	<10	<10	0	
Benzene**	(µg/kg)	12.5	61	<10	<10	0	
Toluene**	(µg/kg)	27900	61	<10	<10	0	
Ethyl Benzene**	(µg/kg)	7660	61	<10	16.19	0	
mpXylene**	(µg/kg)	No SSV	59	<10	15.07	0	
oXylene**	(µg/kg)	No SSV	48	<10	<10	0	
1, 2-Dichloroethene-cis**	(µg/kg)	No SSV	48	<10	14.88	0	
1, 1-Dichloroethane**	(µg/kg)	No SSV	48	<10	<10	0	
Chloroform**	(µg/kg)	45.2	48	<10	12	0	
Carbontetrachloride**	(µg/kg)	No SSV	48	<10	<10	0	
1, 1, 1-Trichloroethane**	(µg/kg)	No SSV	48	<10	<10	0	
Trichloroethylene**	(µg/kg)	No SSV	48	<10	<10	0	
Tetrachloroethylene**	(µg/kg)	No SSV	48	<10	12.34	0	
1, 1, 1, 2-Tetrachloroethane**	(µg/kg)	No SSV	48	<10	<10	0	
1, 1, 2, 2-Tetrachloroethane**	(µg/kg)	No SSV	39	<10	<10	0	
Chlorobenzene**	(µg/kg)	502	48	<10	<10	0	
Bromobenzene**	(µg/kg)	42.1	48	<10	12.55	0	
Bromodichloromethane**	(µg/kg)	0.854	48	<10	<10	0	
Methylethylbenzene**	(µg/kg)	No SSV	48	<10	<10	0	
1, 1-Dichloro-1-propene**	(µg/kg)	No SSV	48	<10	<10	0	
1, 2-Dichloroethene-trans	(µg/kg)	No SSV	48	<10	37.36	0	
2, 2-Dichloropropane	(µg/kg)	No SSV	48	<10	<10	0	
Bromochloromethane	(µg/kg)	No SSV	48	<10	<10	0	
1, 2-Dichloroethane	(µg/kg)	No SSV	48	<10	<10	0	
Dibromomethane**	(µg/kg)	No SSV	48	<10	<10	0	
1, 2-Dichloropropane**	(µg/kg)	No SSV	48	<10	<10	0	
1, 3-Dichloro1propene**	(µg/kg)	No SSV	48	<10	<10	0	
1, 3-Dichloro1propene trans	(µg/kg)	No SSV	48	<10	<10	0	
1, 1, 2-Trichloroethane	(µg/kg)	No SSV	48	<10	<10	0	
Dibromochloromethane	(µg/kg)	9.27	48	<10	<10	0	
1, 3-Dichloropropane	(µg/kg)	No SSV	48	<10	<10	0	
Dibromoethane**	(µg/kg)	No SSV	48	<10	<10	0	
Styrene	(µg/kg)	9670	48	<10	<10	0	
Propylbenzene	(µg/kg)	16200	48	<10	<10	0	
2-Chlorotoluene	(µg/kg)	No SSV	48	<10	<10	0	
1, 2, 4-Trimethylbenzene	(µg/kg)	No SSV	48	<10	<10	0	
4-Chlorotoluene	(µg/kg)	No SSV	48	<10	<10	0	
t-Butylbenzene	(µg/kg)	No SSV	48	<10	<10	0	
Trimethylbenzene	(µg/kg)	No SSV	48	<10	<10	0	
1-Methylpropylbenzene	(µg/kg)	No SSV	48	<10	<10	0	
o-Cymene	(µg/kg)	No SSV	48	<10	<10	0	
1, 4-Dichlorobenzene	(µg/kg)	No SSV	48	<10	<10	0	
Butylbenzene	(µg/kg)	No SSV	48	<10	<10	0	
1, 2-Dibromo-3-chloropropane	(µg/kg)	No SSV	48	<10	<10	0	
Hexachlorobutaciene	(µg/kg)	No SSV	48	<10	<10	0	
1, 2, 3-Trichlorobenzene	(µg/kg)	No SSV	48	<10	<10	0	
1, 2, 4-Trichlorobenzene	(µg/kg)	No SSV	48	<10	<10	0	
1, 3-Dichlorobenzene	(µg/kg)	No SSV	48	<10	<10	0	
1, 2-Dichlorobenzene	(µg/kg)	No SSV	48	<10	<10	0	
Bromoform	(µg/kg)	327	48	<10	<10	0	
Vinyl Chloride	(µg/kg)	0.0309	37	<10	<10	0	
SVOCs							
Pyridine	(µg/kg)	No SSV	48	<10	<10	0	
Aniline	(µg/kg)	No SSV	48	<10	<10	0	
Phenol	(µg/kg)	685	48	<10	20.37	0	
Bis(2-chloroethyl) ether	(µg/kg)	No SSV	48	<10	<10	0	
Benzene, 1,3-dichloro-	(µg/kg)	No SSV	48	<10	<10	0	
Benzene, 1,4-dichloro-	(µg/kg)	No SSV	48	<10	<10	0	
Benzene, 1,2-dichloro-	(µg/kg)	No SSV	48	<10	<10	0	
Phenol, 2-methyl-	(µg/kg)	No SSV	48	<10	22.46	0	
Ethane, hexachloro-	(µg/kg)	No SSV	48	<10	<10	0	
Phenol, 3-methyl-	(µg/kg)	No SSV	48	<10	<10	0	
Nitrobenzene	(µg/kg)	No SSV	48	<10	<10	0	
Isophorone	(µg/kg)	No SSV	48	<10	<10	0	
Phenol, 2-nitro-	(µg/kg)	No SSV	48	<10	<10	0	
Phenol, 2,4-dimethyl-	(µg/kg)	No SSV	48	<10	<10	0	
Methane, bis(2-chloroethoxy)-	(µg/kg)	No SSV	48	<10	<10	0	
Phenol, 2,4-dichloro-	(µg/kg)	No SSV	48	<10	<10	0	
1,3,4-Trichlorobenzene,	(µg/kg)	No SSV	48	<10	<10	0	
Naphthalene	(µg/kg)	90.1	4	<10	<10	0	
4-Chloroaniline	(µg/kg)	No SSV	48	<10	<10	0	
Hexachloro-1,3-butadiene	(µg/kg)	No SSV	48	<10	<10	0	
Phenol, 4-chloro-3-methyl-	(µg/kg)	No SSV	48	<10	<10	0	
Naphthalene, 2-methyl-	(µg/kg)	No SSV	48	<10	<10	0	
Naphthalene, 1-methyl-	(µg/kg)	No SSV	48	<10	<10	0	
Hexachlorocyclopentadiene	(µg/kg)	No SSV	48	<10	<10	0	
Phenol, 2,4,6-trichloro-	(µg/kg)	No SSV	48	<10	<10	0	
Phenol, 2,4,5-trichloro-	(µg/kg)	No SSV	48	<10	<10	0	
Naphthalene, 2-chloro-	(µg/kg)	No SSV	48	<10	<10	0	
2-Nitroaniline	(µg/kg)	No SSV	48	<10	<10	0	
1,4-Dinitrobenzene,	(µg/kg)	No SSV	48	<10	<10	0	
Dimethylphthalate	(µg/kg)	No SSV	48	<10	<10	0	
Acenaphthylene	(µg/kg)	No SSV	4	<10	<10	0	
1.3-Dinitrobenzene	(µg/kg)	No SSV	48	<10	<10	0	
3-Nitroaniline	(µg/kg)	No SSV	48	<10	<10	0	
Acenaphthene	(µg/kg)	83600	4	<10	<10	0	
Dibenzofuran	(µg/kg)	No SSV	48	<10	<10	0	
2,4-Dinitrotoluene	(µg/kg)	3730	48	<10	<10	0	
2,3,4,6-Tetrachlorophenol,	(µg/kg)	No SSV	48	<10	<10	0	

Constituent	TP34 ES3	TP34 ES4	TP35 ES3	TP37 ES2	TP37 ES4	TP38 ES2	TP38 ES3	TP38 ES4	TP39 ES2	TP40 ES2	TP40 ES4	TP41 ES2	TP41 ES3
Depth	1.5 - 1.6	2.5 - 2.6	1.5 - 1.6	0.8 - 0.9	2.5 - 2.7	0.5 - 0.6	1.5 - 1.6	2.5 - 2.6	0.5 - 0.6	0.5 - 0.6	2.1 - 2.2	0.5 - 0.6	1.2 - 1.3
Stone Content	<1	25	13	4	2	<1	<1	<1	4	<1	<1	11	<1
Metals/Metalloids													
Arsenic**	15.7	<5	19.8	32.9	34.3	35.1	42.4	22.8	25.9	23.7	86.5	19.6	29.3
Cadmium**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium**	6	9	8	7	8	10	7	5	7	8	19	7	6
Lead**	8	2	5	4	4	5	5	3	7	8	7	4	4
Mercury**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Nickel**	4.7	5	5.6	5.1	5.6	7.4	5.4	4.3	6	6.3	8.4	4.4	5.1
Copper**	11.7	2.2	3.8	2.7	3.3	2.9	2.5	2.3	3.2	3	9	2.3	1.6
Zinc**	36.8	8	26.6	25.9	28.2	28.2	27.1	23.4	28.5	26.4	36.8	19.3	22.7
Selenium	0.71	<0.5	<0.5	<0.5	<0.5	0.74	0.79	0.65	0.87	1.33	1.33	0.73	0.77
Hexavalent Chromium	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Water Soluble Boron	0.7	1.2	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	0.7	<0.5	<0.5	<0.5	<0.5
Inorganics													
pH Value**	6.6	6.06	8.09	8.06	7.9	7.9	8.3	7.9	8.31	8.32	7.74	8.37	7.82
Total Sulphate	<0.05	<0.05	<0.05	<0.05	0.06	<0.05	<0.05	<0.05	0.12	0.11	0.3	0.07	0.07
Total Cyanide**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Sulphide	<2	<2	<2	<2	<2	5.3	<2	<2	<2	<2	<2	<2	<2
Elemental Sulphur**	121.4	11.8	<10	<10	<10	<10	<10	<10	<10	<10	66	<10	12
Total Monohydric Phenols**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
PAHs													
Naphthalene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benz(a)anthracene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b)fluoranthene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(123-cd)pyrene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenz(ah)anthracene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total PAH**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TPH Aromatic													
TPH Aromatic C5-C7	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH Aromatic C7-C8	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH Aromatic C8-C10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TPH aromatic C10-C12	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TPH Aromatic C12-C16	<0.1	<0.1	<0.1	<0.1	<0.1	0.18	<0.1	0.13	<0.1	<0.1	<0.1	<0.1	<0.1
TPH Aromatic C16-C21	<0.1	<0.1	0.42	<0.1	<0.1	0.15	0.13	<0.1	<0.1	<0.1	<0.1	0.12	<0.1
TPH Aromatic C21-C35	0.72	0.74	<0.1	5.86	2.24	0.28	0.32	0.38	<0.1	0.25	<0.1	<0.1	1.36
TPH Aliphatic													
TPH Aliphatic C5-C6	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH Aliphatic C6-C8	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH Aliphatic C8-C10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TPH Aliphatic C10-C12	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TPH Aliphatic C12-C16	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TPH Aliphatic C16-C21	<0.1	<0.1	<0.1	<0.1	<0.1	0.13	0.25	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TPH Aliphatic C21-C35	0.39	<0.1	0.3	1.83	<0.1	0.43	0.54	<0.1	0.16	<0.1	<0.1	0.14	<0.1
TPH (C5 - C35)	1.11	0.74	0.71	7.69	2.24	1.17	1.25	0.51	0.16	0.25	<0.1	0.25	1.36
Asbestos	-	-	none	-	-	-	none	-	none	none	-	none	-
VOCs													
Benzene**	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-
Toluene**	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-
Ethyl Benzene**	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-
mpXylene**	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-
oXylene**	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-
1, 2-Dichloroethene-cis**	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-
1, 1-Dichloroethane**	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-
Chloroform**	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-
Carbontetrachloride**	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-
1, 1, 1-Trichloroethane**	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-
Trichloroethylene**	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-
Tetrachloroethylene**	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-
1, 1, 1, 2-Tetrachloroethane**	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-
1, 1, 2, 2-Tetrachloroethane**	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-
Chlorobenzene**	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-
Bromobenzene**	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-
Bromodichloromethane**	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-
Methylethylbenzene**	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-
1, 1-Dichloro-1-propene**	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-
1, 2-Dichloroethene-trans	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-
2, 2-Dichloropropane	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-
Bromochloromethane	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-
1, 2-Dichloroethane	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-
Dibromomethane**	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-
1, 2-Dichloropropane**	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-
1, 3-Dichloro1propene**	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-
1, 3-Dichloro1propene trans	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-
1, 1, 2-Trichloroethane	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-
Dibromochloromethane	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-
1, 3-Dichloropropane	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-
Dibromoethane**	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-
Styrene	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-
Propylbenzene	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-
2-Chlorotoluene	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-
1, 2, 4-Trimethylbenzene	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-
4-Chlorotoluene	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-
t-Butylbenzene	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-
Trimethylbenzene	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-
1-Methylpropylbenzene	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-
o-Cymene	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-
1, 4-Dichlorobenzene	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-
Butylbenzene	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-
1, 2-Dibromo-3-chloropropane	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-
Hexachlorobutaciene	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-
1, 2, 3-Trichlorobenzene	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-
1, 2, 4-Trichlorobenzene	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-
1, 3-Dichlorobenzene	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-
1, 2-Dichlorobenzene	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-
Bromoform	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-
Vinyl Chloride	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-
SVOCs													
Pyridine	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-
Aniline	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-
Phenol	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-
Bis(2-chloroethyl) ether	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-
Benzene, 1,3-dichloro-	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-
Benzene, 1,4-dichloro-	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-
Benzene, 1,2-dichloro-	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-
Phenol, 2-methyl-	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-
Ethane, hexachloro-	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-
Phenol, 3-methyl-	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-
Nitrobenzene	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-
Isophorone	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-
Phenol, 2-nitro-	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-
Phenol, 2,4-dimethyl-	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-
Methane, bis(2-chloroethoxy)-	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-
Phenol, 2,4-dichloro-	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-
1,3,4-Trichlorobenzene,	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-
Naphthalene	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloroaniline	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-
Hexachloro-1,3-butadiene	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-
Phenol, 4-chloro-3-methyl-	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-
Naphthalene, 2-methyl-	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-
Naphthalene, 1-methyl-	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-
Hexachlorocyclopentadiene	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-
Phenol, 2,4,6-trichloro-	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-
Phenol, 2,4,5-trichloro-	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-
Naphthalene, 2-chloro-	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-
2-Nitroaniline	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-
1,4-Dinitrobenzene,	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-
Dimethylphthalate	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-
Acenaphthylene	-	-	-	-	-	-	-	-	-	-	-	-	-
1.3-Dinitrobenzene	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-
3-Nitroaniline	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-
Acenaphthene	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-
2,4-Dinitrotoluene	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-
2,3,4,6-Tetrachlorophenol,	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-

Constituent	TP42 ES2	TP42 ES3	TP42 ES6	TP43 ES1	TP43 ES2	TP44 ES2	TP44 ES5	TP45 ES2	TP45A ES4	TP46 ES2	TP46 ES3	TP47 ES2	TP47 ES3	TP47 ES4	TP48 ES4	TP50 ES1
Depth	0.5 - 0.6	1.5 - 1.6	3.9 - 4.0	GL - 0.2	1.2 - 1.3	0.7 - 0.8	3.5 - 3.6	0.9 - 1.0	2.5 - 2.6	0.5 - 0.6	1.5 - 1.6	0.5 - 0.6	1.5 - 1.6	2.5 - 2.6	2.5 - 2.6	0.5 - 0.6
Stone Content	11	9	2	3	<1	4	11	<1	3	4	<1	<1	<1	5	3	13
Metals/Metalloids																
Arsenic**	13.9	24.1	23.7	33.5	25.1	30.7	16.8	32.3	9.9	31.6	38.3	27.1	16.6	8.4	6.1	31.5
Cadmium**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium**	9	10	8	9	6	12	11	12	9	8	8	7	5	5	3	6
Lead**	5	6	45	5	15	4	5	4	13	5	4	5	4	5	5	5
Mercury**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Nickel**	6.2	6.9	4.8	4.9	4	8.8	6.5	9.2	5.3	7.6	7.9	5	4.2	3.2	1.9	4
Copper**	3.8	4.8	5.8	2	1.9	2.7	3.1	3.8	2.9	3.5	2.5	3.3	3.1	2.3	1.7	7
Zinc**	33.1	41.6	51	22.2	22.7	21.9	17	22.4	16.2	29.3	27.6	21.9	19.7	15.1	13	20
Selenium	<0.5	<0.5	<0.5	0.78	0.72	<0.5	<0.5	0.5	<0.5	0.77	0.8	0.65	0.77	0.75	<0.5	<0.5
Hexavalent Chromium	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Water Soluble Boron	<0.5	<0.5	1	<0.5	<0.5	0.6	<0.5	0.6	1.1	<0.5	<0.5	<0.5	<0.5	0.5	0.5	<0.5
Inorganics																
pH Value**	8.44	8.32	6.35	8.23	7.96	8	7.9	8.14	6.65	8.25	8	7.74	7.33	6.75	7.8	8.7
Total Sulphate	0.06	0.07	0.16	<0.05	0.06	0.07	0.05	0.06	0.07	<0.05	<0.05	0.06	<0.05	<0.05	<0.05	0.23
Total Cyanide**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Sulphide	<2	<2	<2	<2	<2	<2	<2	<2	<2	3.75	<2	<2	<2	<2	<2	<2
Elemental Sulphur**	<10	<10	414.72	<10	34.25	<10	35.9	<10	64.58	<10	<10	<10	<10	<10	<10	<10
Total Monohydric Phenols**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
PAHs																
Naphthalene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.9	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene**	<0.1	<0.1	0.11	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benz(a)anthracene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b)fluoranthene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(123-cd)pyrene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenz(ah)anthracene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total PAH**	<0.1	<0.1	0.11	<0.1	<0.1	<0.1	<0.1	<0.1	1.01	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TPH Aromatic																
TPH Aromatic C5-C7	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH Aromatic C7-C8	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH Aromatic C8-C10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TPH aromatic C10-C12	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TPH Aromatic C12-C16	0.12	<0.1	0.13	0.13	<0.1	<0.1	<0.1	<0.1	0.32	0.12	0.24	<0.1	<0.1	0.11	<0.1	<0.1
TPH Aromatic C16-C21	0.21	0.21	0.23	<0.1	<0.1	<0.1	0.48	<0.1	<0.1	0.16	0.56	<0.1	<0.1	<0.1	0.45	<0.1
TPH Aromatic C21-C35	0.19	0.19	0.97	0.26	0.13	0.35	2.25	0.13	0.14	0.13	1.96	2.8	0.45	<0.1	<0.1	3.9
TPH Aliphatic																
TPH Aliphatic C5-C6	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH Aliphatic C6-C8	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH Aliphatic C8-C10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TPH Aliphatic C10-C12	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TPH Aliphatic C12-C16	0.12	<0.1	0.13	<0.1	0.11	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TPH Aliphatic C16-C21	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.84	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TPH Aliphatic C21-C35	1.14	0.96	2.32	<0.1	<0.1	<0.1	3.08	<0.1	<0.1	0.21	<0.1	<0.1	0.16	<0.1	<0.1	2.4
TPH (C5 - C35)	1.77	1.35	3.79	0.39	0.24	0.35	7.66	0.13	0.46	0.62	2.76	2.8	0.61	0.11	0.45	6.3
Asbestos	none	none	-	-	none	none	-	none	-	-	none	none	-	-	-	-
VOCs																
Benzene**	<10	-	<10	-	<10	-	-	<10	-	-	<10	<10	-	-	-	-
Toluene**	<10	-	<10	-	<10	-	-	<10	-	-	<10	<10	-	-	-	-
Ethyl Benzene**	<10	-	<10	-	<10	-	-	<10	-	-	<10	<10	-	-	-	-
mpXylene**	<10	-	<10	-	<10	-	-	<10	-	-	<10	<10	-	-	-	-
oXylene**	<10	-	<10	-	<10	-	-		-	-	<10	<10	-	-	-	-
1, 2-Dichloroethene-cis**	<10	-	<10	-	<10	-	-	-	-	-	<10	<10	-	-	-	-
1, 1-Dichloroethane**	<10	-	<10	-	<10	-	-	-	-	-	<10	<10	-	-	-	-
Chloroform**	<10	-	<10	-	<10	-	-	-	-	-	12	<10	-	-	-	-
Carbontetrachloride**	<10	-	<10	-	<10	-	-	-	-	-	<10	<10	-	-	-	-
1, 1, 1-Trichloroethane**	<10	-	<10	-	<10	-	-	-	-	-	<10	<10	-	-	-	-
Trichloroethylene**	<10	-	<10	-	<10	-	-	-	-	-	<10	<10	-	-	-	-
Tetrachloroethylene**	<10	-	<10	-	<10	-	-	-	-	-	<10	<10	-	-	-	-
1, 1, 1, 2-Tetrachloroethane**	<10	-	<10	-	<10	-	-	-	-	-	<10	<10	-	-	-	-
1, 1, 2, 2-Tetrachloroethane**	<10	-	<10	-	<10	-	-	-	-	-	<10	<10	-	-	-	-
Chlorobenzene**	<10	-	<10	-	<10	-	-	-	-	-	<10	<10	-	-	-	-
Bromobenzene**	<10	-	<10	-	<10	-	-	-	-	-	<10	<10	-	-	-	-
Bromodichloromethane**	<10	-	<10	-	<10	-	-	-	-	-	<10	<10	-	-	-	-
Methylethylbenzene**	<10	-	<10	-	<10	-	-	-	-	-	<10	<10	-	-	-	-
1, 1-Dichloro-1-propene**	<10	-	<10	-	<10	-	-	-	-	-	<10	<10	-	-	-	-
1, 2-Dichloroethene-trans	<10	-	<10	-	<10	-	-	-	-	-	<10	<10	-	-	-	-
2, 2-Dichloropropane	<10	-	<10	-	<10	-	-	-	-	-	<10	<10	-	-	-	-
Bromochloromethane	<10	-	<10	-	<10	-	-	-	-	-	<10	<10	-	-	-	-
1, 2-Dichloroethane	<10	-	<10	-	<10	-	-	-	-	-	<10	<10	-	-	-	-
Dibromomethane**	<10	-	<10	-	<10	-	-	-	-	-	<10	<10	-	-	-	-
1, 2-Dichloropropane**	<10	-	<10	-	<10	-	-	-	-	-	<10	<10	-	-	-	-
1, 3-Dichloro1propene**	<10	-	<10	-	<10	-	-	-	-	-	<10	<10	-	-	-	-
1, 3-Dichloro1propene trans	<10	-	<10	-	<10	-	-	-	-	-	<10	<10	-	-	-	-
1, 1, 2-Trichloroethane	<10	-	<10	-	<10	-	-	-	-	-	<10	<10	-	-	-	-
Dibromochloromethane	<10	-	<10	-	<10	-	-	-	-	-	<10	<10	-	-	-	-
1, 3-Dichloropropane	<10	-	<10	-	<10	-	-	-	-	-	<10	<10	-	-	-	-
Dibromoethane**	<10	-	<10	-	<10	-	-	-	-	-	<10	<10	-	-	-	-
Styrene	<10	-	<10	-	<10	-	-	-	-	-	<10	<10	-	-	-	-
Propylbenzene	<10	-	<10	-	<10	-	-	-	-	-	<10	<10	-	-	-	-
2-Chlorotoluene	<10	-	<10	-	<10	-	-	-	-	-	<10	<10	-	-	-	-
1, 2, 4-Trimethylbenzene	<10	-	<10	-	<10	-	-	-	-	-	<10	<10	-	-	-	-
4-Chlorotoluene	<10	-	<10	-	<10	-	-	-	-	-	<10	<10	-	-	-	-
t-Butylbenzene	<10	-	<10	-	<10	-	-	-	-	-	<10	<10	-	-	-	-
Trimethylbenzene	<10	-	<10	-	<10	-	-	-	-	-	<10	<10	-	-	-	-
1-Methylpropylbenzene	<10	-	<10	-	<10	-	-	-	-	-	<10	<10	-	-	-	-
o-Cymene	<10	-	<10	-	<10	-	-	-	-	-	<10	<10	-	-	-	-
1, 4-Dichlorobenzene	<10	-	<10	-	<10	-	-	-	-	-	<10	<10	-	-	-	-
Butylbenzene	<10	-	<10	-	<10	-	-	-	-	-	<10	<10	-	-	-	-
1, 2-Dibromo-3-chloropropane	<10	-	<10	-	<10	-	-	-	-	-	<10	<10	-	-	-	-
Hexachlorobutaciene	<10	-	<10	-	<10	-	-	-	-	-	<10	<10	-	-	-	-
1, 2, 3-Trichlorobenzene	<10	-	<10	-	<10	-	-	-	-	-	<10	<10	-	-	-	-
1, 2, 4-Trichlorobenzene	<10	-	<10	-	<10	-	-	-	-	-	<10	<10	-	-	-	-
1, 3-Dichlorobenzene	<10	-	<10	-	<10	-	-	-	-	-	<10	<10	-	-	-	-
1, 2-Dichlorobenzene	<10	-	<10	-	<10	-	-	-	-	-	<10	<10	-	-	-	-
Bromoform	<10	-	<10	-	<10	-	-	-	-	-	<10	<10	-	-	-	-
Vinyl Chloride	-	-	-	-	<10	-	-	-	-	-	<10	<10	-	-	-	-
SVOCs																
Pyridine	<10	-	<10	-	<10	-	-	-	-	-	<10	<10	-	-	-	-
Aniline	<10	-	<10	-	<10	-	-	-	-	-	<10	<10	-	-	-	-
Phenol	<10	-	<10	-	<10	-	-	-	-	-	<10	<10	-	-	-	-
Bis(2-chloroethyl) ether	<10	-	<10	-	<10	-	-	-	-	-	<10	<10	-	-	-	-
Benzene, 1,3-dichloro-	<10	-	<10	-	<10	-	-	-	-	-	<10	<10	-	-	-	-
Benzene, 1,4-dichloro-	<10	-	<10	-	<10	-	-	-	-	-	<10	<10	-	-	-	-
Benzene, 1,2-dichloro-	<10	-	<10	-	<10	-	-	-	-	-	<10	<10	-	-	-	-
Phenol, 2-methyl-	<10	-	<10	-	<10	-	-	-	-	-	<10	<10	-	-	-	-
Ethane, hexachloro-	<10	-	<10	-	<10	-	-	-	-	-	<10	<10	-	-	-	-
Phenol, 3-methyl-	<10	-	<10	-	<10	-	-	-	-	-	<10	<10	-	-	-	-
Nitrobenzene	<10	-	<10	-	<10	-	-	-	-	-	<10	<10	-	-	-	-
Isophorone	<10	-	<10	-	<10	-	-	-	-	-	<10	<10	-	-	-	-
Phenol, 2-nitro-	<10	-	<10	-	<10	-	-	-	-	-	<10	<10	-	-	-	-
Phenol, 2,4-dimethyl-	<10	-	<10	-	<10	-	-	-	-	-	<10	<10	-	-	-	-
Methane, bis(2-chloroethoxy)-	<10	-	<10	-	<10	-	-	-	-	-	<10	<10	-	-	-	-
Phenol, 2,4-dichloro-	<10	-	<10	-	<10	-	-	-	-	-	<10	<10	-	-	-	-
1,3,4-Trichlorobenzene,	<10	-	<10	-	<10	-	-	-	-	-	<10	<10	-	-	-	-
Naphthalene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloroaniline	<10	-	<10	-	<10	-	-	-	-	-	<10	<10	-	-	-	-
Hexachloro-1,3-butadiene	<10	-	<10	-	<10	-	-	-	-	-	<10	<10	-	-	-	-
Phenol, 4-chloro-3-methyl-	<10	-	<10	-	<10	-	-	-	-	-	<10	<10	-	-	-	-
Naphthalene, 2-methyl-	<10	-	<10	-	<10	-	-	-	-	-	<10	<10	-	-	-	-
Naphthalene, 1-methyl-	<10	-	<10	-	<10	-	-	-	-	-	<10	<10	-	-	-	-
Hexachlorocyclopentadiene	<10	-	<10	-	<10	-	-	-	-	-	<10	<10	-	-	-	-
Phenol, 2,4,6-trichloro-	<10	-	<10	-	<10	-	-	-	-	-	<10	<10	-	-	-	-
Phenol, 2,4,5-trichloro-	<10	-	<10	-	<10	-	-	-	-	-	<10	<10	-	-	-	-
Naphthalene, 2-chloro-	<10	-	<10	-	<10	-	-	-	-	-	<10	<10	-	-	-	-
2-Nitroaniline	<10	-	<10	-	<10	-	-	-	-	-	<10	<10	-	-	-	-
1,4-Dinitrobenzene,	<10	-	<10	-	<10	-	-	-	-	-	<10	<10	-	-	-	-
Dimethylphthalate	<10	-	<10	-	<10	-	-	-	-	-	<10	<10	-	-	-	-
Acenaphthylene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.3-Dinitrobenzene	<10	-	<10	-	<10	-	-	-	-	-	<10	<10	-	-	-	-
3-Nitroaniline	<10	-	<10	-	<10	-	-	-	-	-	<10	<10	-	-	-	-
Acenaphthene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	<10	-	<10	-	<10	-	-	-	-	-	<10	<10	-	-	-	-
2,4-Dinitrotoluene	<10	-	<10	-	<10	-	-	-	-	-	<10	<10	-	-	-	-
2,3,4,6-Tetrachlorophenol,	<10	-	<10	-	<10	-	-	-	-	-	<10	<10	-	-	-	-

Constituent	TP51 ES1	TP51 ES3	TP52 ES2	TP52 ES3	TP53 ES2	TP53 ES3	TP54 ES3	TP55 ES2	TP56 ES3	TP57 ES2	TP57 ES3	TP57 ES5	TP58 ES2	TP58 ES3	TP60 ES1	TP62 ES5	TP65 ES3
Depth	0.3 - 0.4	1.5 - 1.6	0.5 - 0.6	1.5 - 1.6	0.5 - 0.6	1.5 - 1.6	1.5 - 1.7	0.5 - 0.6	1.5 - 1.6	0.5 - 0.6	1.5 - 1.6	3.5 - 3.6	0.5 - 0.6	1.5 - 1.6	0.5 - 0.6	3.5 - 3.7	1.6 - 1.7
Stone Content	<1	<1	8	6	6	<1	32	<1	<1	<1	8	6	<1	7	2	2	65
Metals/Metalloids																	
Arsenic**	137.8	46.8	12.3	11.6	28	158.9	16.9	16.3	36.4	32.9	41.5	74.9	139.8	19.3	24.6	13.7	<5
Cadmium**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium**	26.2	12	5	5	19	32	10	5	9	8	8	16	27.1	5	8	10	3
Lead**	6	4	4	4	8	14	4	3	5	4	5	8	9	4	5	5	2
Mercury**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Nickel**	12.1	5.6	3.7	3.9	11.2	14.1	7	2.7	6.2	4	4.4	11	13.6	2.6	7	6	2
Copper**	6.7	2.3	2.1	2.5	7.3	12.8	8	2.1	3.2	3.9	2.8	5.7	7.4	1.5	8	8	1.8
Zinc**	36.5	20.5	16.3	16.6	35.2	57	15	13.8	26.3	31.4	27.3	41.2	57.6	18.6	30	19	10.1
Selenium	1.1	<0.5	0.58	0.65	<0.5	1.13	<0.5	<0.5	<0.5	1.44	0.83	1.03	0.6	<0.5	<0.5	<0.5	<0.5
Hexavalent Chromium	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Water Soluble Boron	1.8	<0.5	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	<0.5	<0.5	<0.5	0.7
Inorganics																	
pH Value**	5.9	5.2	6.3	6.5	7.23	4.96	8.8	7.87	7.05	5	4.7	4.7	5.38	7.82	8.8	8.6	8.01
Total Sulphate	0.22	<0.05	<0.05	<0.05	0.26	0.59	0.17	0.09	0.1	0.05	<0.05	<0.05	0.44	<0.05	0.24	0.26	<0.05
Total Cyanide**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2.87
Sulphide	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Elemental Sulphur**	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Total Monohydric Phenols**	<1	1.3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
PAHs																	
Naphthalene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benz(a)anthracene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b)fluoranthene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(123-cd)pyrene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenz(ah)anthracene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total PAH**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TPH Aromatic																	
TPH Aromatic C5-C7	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH Aromatic C7-C8	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH Aromatic C8-C10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TPH aromatic C10-C12	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.22	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TPH Aromatic C12-C16	<0.1	<0.1	0.17	0.12	<0.1	<0.1	<0.1	0.25	<0.1	<0.1	<0.1	<0.1	0.13	0.12	<0.1	<0.1	<0.1
TPH Aromatic C16-C21	<0.1	<0.1	0.31	<0.1	0.21	0.11	<0.1	0.27	0.34	<0.1	<0.1	<0.1	0.22	0.37	<0.1	<0.1	0.99
TPH Aromatic C21-C35	0.39	<0.1	0.58	<0.1	0.24	0.2	1.3	0.21	0.37	1.48	0.48	<0.1	0.34	0.35	<0.1	<0.1	2.92
TPH Aliphatic																	
TPH Aliphatic C5-C6	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH Aliphatic C6-C8	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH Aliphatic C8-C10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TPH Aliphatic C10-C12	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TPH Aliphatic C12-C16	<0.1	<0.1	<0.1	<0.1	0.12	0.13	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.12	<0.1	<0.1	<0.1
TPH Aliphatic C16-C21	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	2.09
TPH Aliphatic C21-C35	<0.1	<0.1	0.16	<0.1	0.53	0.42	0.3	0.97	1.75	<0.1	<0.1	<0.1	<0.1	0.18	<0.1	0.6	0.37
TPH (C5 - C35)	0.39	<0.1	1.23	0.12	1.1	0.85	1.6	2.43	2.45	1.48	0.48	<0.1	0.69	1.13	<0.1	0.6	6.37
Asbestos	none	-	~	none	none	-	-	-	-	-	-	-	-	-	none	-	-
VOCs																	
Benzene**	<10	<10	-	<10	<10	-	-	<10	<10	-	-	-	-	-	-	-	<10
Toluene**	<10	<10	-	<10	<10	-	-	<10	<10	-	-	-	-	-	-	-	<10
Ethyl Benzene**	<10	<10	-	<10	<10	-	-	<10	<10	-	-	-	-	-	-	-	<10
mpXylene**	<10	<10	-	<10	<10	-	-	<10	<10	-	-	-	-	-	-	-	<10
oXylene**	<10		-	<10	<10	-	-			-	-	-	-	-	-	-	<10
1, 2-Dichloroethene-cis**	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
1, 1-Dichloroethane**	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Chloroform**	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Carbontetrachloride**	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
1, 1, 1-Trichloroethane**	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Trichloroethylene**	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Tetrachloroethylene**	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
1, 1, 1, 2-Tetrachloroethane**	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
1, 1, 2, 2-Tetrachloroethane**	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Chlorobenzene**	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Bromobenzene**	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Bromodichloromethane**	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Methylethylbenzene**	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
1, 1-Dichloro-1-propene**	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
1, 2-Dichloroethene-trans	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
2, 2-Dichloropropane	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Bromochloromethane	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
1, 2-Dichloroethane	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Dibromomethane**	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
1, 2-Dichloropropane**	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
1, 3-Dichloro1propene**	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
1, 3-Dichloro1propene trans	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
1, 1, 2-Trichloroethane	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Dibromochloromethane	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
1, 3-Dichloropropane	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Dibromoethane**	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Styrene	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Propylbenzene	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
2-Chlorotoluene	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
1, 2, 4-Trimethylbenzene	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
4-Chlorotoluene	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
t-Butylbenzene	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Trimethylbenzene	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
1-Methylpropylbenzene	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
o-Cymene	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
1, 4-Dichlorobenzene	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Butylbenzene	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
1, 2-Dibromo-3-chloropropane	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Hexachlorobutaciene	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
1, 2, 3-Trichlorobenzene	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
1, 2, 4-Trichlorobenzene	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
1, 3-Dichlorobenzene	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
1, 2-Dichlorobenzene	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Bromoform	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Vinyl Chloride	<10	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	-	<10
SVOCs																	
Pyridine	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Aniline	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Phenol	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Bis(2-chloroethyl) ether	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Benzene, 1,3-dichloro-	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Benzene, 1,4-dichloro-	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Benzene, 1,2-dichloro-	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Phenol, 2-methyl-	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Ethane, hexachloro-	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Phenol, 3-methyl-	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Nitrobenzene	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Isophorone	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Phenol, 2-nitro-	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Phenol, 2,4-dimethyl-	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Methane, bis(2-chloroethoxy)-	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Phenol, 2,4-dichloro-	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
1,3,4-Trichlorobenzene,	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Naphthalene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloroaniline	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Hexachloro-1,3-butadiene	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Phenol, 4-chloro-3-methyl-	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Naphthalene, 2-methyl-	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Naphthalene, 1-methyl-	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Hexachlorocyclopentadiene	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Phenol, 2,4,6-trichloro-	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Phenol, 2,4,5-trichloro-	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Naphthalene, 2-chloro-	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
2-Nitroaniline	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
1,4-Dinitrobenzene,	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Dimethylphthalate	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Acenaphthylene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.3-Dinitrobenzene	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
3-Nitroaniline	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Acenaphthene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
2,4-Dinitrotoluene	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
2,3,4,6-Tetrachlorophenol,	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10

ATKINS

Assessment Criteria :	Commercial - 1% SOM Sand
Use MRL Values?	

Analyte		Generic Assessment Criteria (mg/kg)	Number of Samples	Minimum Value	Maximum Value	Number of Exceedences	Locations of Exceedences	TP34 ES3	TP34 ES4	TP35 ES3	TP37 ES2	TP37 ES4	TP38 ES2	TP38 ES3	TP38 ES4	TP39 ES2	TP40 ES2	TP40 ES4	TP41 ES2	TP41 ES3	TP42 ES2	TP42 ES3	TP42 ES6	TP43 ES1	TP43 ES2	TP44 ES2	TP44 ES5	TP45 ES2	TP45A ES4	TP46 ES2	TP46 ES3	TP47 ES2	TP47 ES3	TP47 ES4	TP48 ES4	TP50 ES1	TP51 ES1	TP51 ES3	TP52 ES2	TP52 ES3	TP53 ES2	TP53 ES3	TP54 ES3	TP55 ES2	TP56 ES3	TP57 ES2	TP57 ES3	TP57 ES5	TP58 ES2	TP58 ES3	TP60 ES1	TP62 ES5	TP65 ES3
								1.5 - 1.6	2.5 - 2.6	1.5 - 1.6	0.8 - 0.9	2.5 - 2.7	0.5 - 0.6	1.5 - 1.6	2.5 - 2.6	0.5 - 0.6	0.5 - 0.6	2.1 - 2.2	0.5 - 0.6	1.2 - 1.3	0.5 - 0.6	1.5 - 1.6	3.9 - 4.0	GL - 0.2	1.2 - 1.3	0.7 - 0.8	3.5 - 3.6	0.9 - 1.0	2.5 - 2.6	0.5 - 0.6	1.5 - 1.6	0.5 - 0.6	1.5 - 1.6	2.5 - 2.6	2.5 - 2.6	0.5 - 0.6	0.3 - 0.4	1.5 - 1.6	0.5 - 0.6	1.5 - 1.6	0.5 - 0.6	1.5 - 1.6	1.5 - 1.7	0.5 - 0.6	1.5 - 1.6	0.5 - 0.6	1.5 - 1.6	3.5 - 3.6	0.5 - 0.6	1.5 - 1.6	0.5 - 0.6	3.5 - 3.7	1.6 - 1.7
2,3,5,6-Tetrachlorophenol,	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10	-	<10	-	-	-	-	<10	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Diethylphthalate	(µg/kg)	No SSV	48	<10	111.87	0		-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10	-	<10	-	-	-	-	<10	<10	-	-	-	-	<10	-	-	<10	65.43	-	-	-	-	-	-	-	-	-	-	-	<10
Fluorene	(µg/kg)	66500	4	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Diphenylamine	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10	-	<10	-	-	-	-	<10	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Azobenzene	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10	-	<10	-	-	-	-	<10	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
4-Bromophenyl phenyl ether	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10	-	<10	-	-	-	-	<10	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Hexachlorobenzene	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10	-	<10	-	-	-	-	<10	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Pentachlorophenol	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10	-	<10	-	-	-	-	<10	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Phenanthrene	(µg/kg)	No SSV	4	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	(µg/kg)	535000	4	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	(µg/kg)	72200	4	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	(µg/kg)	54100	4	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzylbutylphthalate	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10	-	<10	-	-	-	-	<10	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Bis(2-ethylhexyl)adipate	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10	-	<10	-	-	-	-	<10	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Benzo(a)anthracene	(µg/kg)	BaP Surrogate	4	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	(µg/kg)	13400	4	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bis(2-ethylhexyl)phthalate	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10	-	<10	-	-	-	-	<10	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Benzo(b)fluoranthene	(µg/kg)	BaP Surrogate	4	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	(µg/kg)	BaP Surrogate	4	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	(µg/kg)	76.3	4	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeno[1,2,3-cd]pyrene	(µg/kg)	BaP Surrogate	4	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenz(ah)anthracene	(µg/kg)	BaP Surrogate	4	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(ghi)perylene	(µg/kg)	BaP Surrogate	4	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCBs																																																											
PCB 28**	(µg/kg)	No SSV	12	<10	<10	0		-	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	<10	<10	-	-	-	-	-	-	-	-
PCB 52**	(µg/kg)	No SSV	12	<10	<10	0		-	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	<10	<10	-	-	-	-	-	-	-	-
PCB 101**	(µg/kg)	No SSV	12	<10	<10	0		-	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	<10	<10	-	-	-	-	-	-	-	-
PCB 118**	(µg/kg)	No SSV	12	<10	<10	0		-	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	<10	<10	-	-	-	-	-	-	-	-
PCB 138**	(µg/kg)	No SSV	12	<10	<10	0		-	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	<10	<10	-	-	-	-	-	-	-	-
PCB 153**	(µg/kg)	No SSV	12	<10	<10	0		-	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	<10	<10	-	-	-	-	-	-	-	-
PCB 180**	(µg/kg)	No SSV	12	<10	<10	0		-	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	<10	<10	-	-	-	-	-	-	-	-
OCPs																																																										
Alpha BHC**	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beta BHC**	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gamma BHC**	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Delta BHC**	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Heptachlor	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aldrin	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Heptachlor epoxide	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlordane	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endosulfan I	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
cis-Chlordane	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pp-DDE**	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dieldrin	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endrin	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pp-DDD**	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endrin Aldehyde	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pp-DDT**	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endosulfan II	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endrin Ketone	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pp-Methoxychlor	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OPPs																																																										
Mevinphos	(µg/kg)	No SSV	1	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dimethoate	(µg/kg)	No SSV	1	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Propetamphos	(µg/kg)	No SSV	1	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorpyriphos-methyl	(µg/kg)	No SSV	1	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fenitrothion	(µg/kg)	No SSV	1	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Malathion	(µg/kg)	No SSV	1	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Parathion	(µg/kg)	No SSV	1	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trans-Chlorfenvinphos	(µg/kg)	No SSV	1	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromophos	(µg/kg)	No SSV	1	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Triazophos	(µg/kg)	No SSV	1	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phosalone	(µg/kg)	No SSV	1	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Azinphos-methyl	(µg/kg)	No SSV	1	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Azinphos-ethyl	(µg/kg)	No SSV	1	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Assessment Criteria : *Commercial - 1% SOM Sand*

☐ Use MRL Values?

Constituent	Unit	Generic Assessment Criteria (mg/kg)	Number of Samples	Minimum Value	Maximum Value	Number of Exceedences	Locations of Exceedences
Stone Content	(%)	No SSV	165	<1	68	0	
Metals/Metalloids							
Arsenic**	(mg/kg)	635	165	<5	158.9	0	
Cadmium**	(mg/kg)	410	165	<0.5	2.92	0	
Chromium**	(mg/kg)	208000	165	2	72.8	0	
Lead**	(mg/kg)	2310	165	1	1206.8	0	
Mercury**	(mg/kg)	7.95	165	<0.5	3.44	0	
Nickel**	(mg/kg)	1770	165	1.9	146.98	0	
Copper**	(mg/kg)	106000	165	<1	256.91	0	
Zinc**	(mg/kg)	1100000	165	5.9	1220.3	0	
Selenium	(mg/kg)	13000	165	<0.5	3.57	0	
Hexavalent Chromium	(mg/kg)	49.1	165	<2	<2	0	
Water Soluble Boron	(mg/kg)	No SSV	165	<0.5	12.1	0	
Inorganics							
pH Value**	(Units)	No SSV	165	4.3	11.2	0	
Total Sulphate	(% as SO4)	No SSV	165	<0.05	0.59	0	
Total Cyanide**	(mg/kg)	No SSV	165	<1	4.78	0	
Sulphide	(mg/kg)	No SSV	165	<2	88	0	
Elemental Sulphur**	(mg/kg)	No SSV	165	<10	414.72	0	
Total Monohydric Phenols**	(mg/kg)	No SSV	165	<1	1.3	0	
PAHs							
Naphthalene**	(mg/kg)	90.1	165	<0.1	<0.1	0	
Acenaphthylene**	(mg/kg)	No SSV	165	<0.1	0.9	0	
Acenaphthene**	(mg/kg)	83600	165	<0.1	<0.1	0	
Fluorene**	(mg/kg)	66500	165	<0.1	0.11	0	
Phenanthrene**	(mg/kg)	No SSV	165	<0.1	0.97	0	
Anthracene**	(mg/kg)	535000	165	<0.1	0.45	0	
Fluoranthene**	(mg/kg)	72200	165	<0.1	2.69	0	
Pyrene**	(mg/kg)	54100	165	<0.1	2.06	0	
Benz(a)anthracene**	(mg/kg)	No SSV	165	<0.1	1.52	0	
Chrysene**	(mg/kg)	13400	165	<0.1	1.52	0	
Benzo(b)fluoranthene**	(mg/kg)	BaP Surrogate	165	<0.1	0.91	0	
Benzo(k)fluoranthene**	(mg/kg)	BaP Surrogate	165	<0.1	1.32	0	
Benzo(a)pyrene**	(mg/kg)	76.3	165	<0.1	1.31	0	
Indeno(123-cd)pyrene**	(mg/kg)	BaP Surrogate	165	<0.1	0.8	0	
Dibenz(ah)anthracene**	(mg/kg)	BaP Surrogate	165	<0.1	0.21	0	
Benzo(ghi)perylene**	(mg/kg)	BaP Surrogate	165	<0.1	0.89	0	
Total PAH**	(mg/kg)	No SSV	165	<0.1	14.72	0	
TPH Aromatic							
TPH Aromatic C5-C7	(mg/kg)	12.5	165	<0.01	<0.01	0	
TPH Aromatic C7-C8	(mg/kg)	27900	165	<0.01	<0.01	0	
TPH Aromatic C8-C10	(mg/kg)	2210	165	<0.1	0.4	0	
TPH aromatic C10-C12	(mg/kg)	12300	165	<0.1	0.22	0	
TPH Aromatic C12-C16	(mg/kg)	41300	165	<0.1	5.83	0	
TPH Aromatic C16-C21	(mg/kg)	28400	165	<0.1	19.85	0	
TPH Aromatic C21-C35	(mg/kg)	28400	165	<-68.01	42.05	0	
TPH Aliphatic							
TPH Aliphatic C5-C6	(mg/kg)	4490	165	<0.01	0.03	0	
TPH Aliphatic C6-C8	(mg/kg)	10400	165	<0.01	<0.1	0	
TPH Aliphatic C8-C10	(mg/kg)	1370	165	<0.1	0.15	0	
TPH Aliphatic C10-C12	(mg/kg)	7900	165	<0.1	0.52	0	
TPH Aliphatic C12-C16	(mg/kg)	34000	165	<0.1	5.62	0	
TPH Aliphatic C16-C21	(mg/kg)	3620000	165	<0.1	47.96	0	
TPH Aliphatic C21-C35	(mg/kg)	3620000	165	<-143.07	46.2	0	
TPH (C5 - C35)	(mg/kg)	No SSV	161	<-271.4	70.86	0	
Asbestos	% / type	Any	50	Not Detected	Present	49	
VOCs		No SSV	11	<10	<10	0	
Benzene**	(µg/kg)	12.5	61	<10	<10	0	
Toluene**	(µg/kg)	27900	61	<10	<10	0	
Ethyl Benzene**	(µg/kg)	7660	61	<10	16.19	0	
mpXylene**	(µg/kg)	No SSV	59	<10	15.07	0	
oXylene**	(µg/kg)	No SSV	48	<10	<10	0	
1, 2-Dichloroethene-cis**	(µg/kg)	No SSV	48	<10	14.88	0	
1, 1-Dichloroethane**	(µg/kg)	No SSV	48	<10	<10	0	
Chloroform**	(µg/kg)	45.2	48	<10	12	0	
Carbontetrachloride**	(µg/kg)	No SSV	48	<10	<10	0	
1, 1, 1-Trichloroethane**	(µg/kg)	No SSV	48	<10	<10	0	
Trichloroethylene**	(µg/kg)	No SSV	48	<10	<10	0	
Tetrachloroethylene**	(µg/kg)	No SSV	48	<10	12.34	0	
1, 1, 1, 2-Tetrachloroethane**	(µg/kg)	No SSV	48	<10	<10	0	
1, 1, 2, 2-Tetrachloroethane**	(µg/kg)	No SSV	39	<10	<10	0	
Chlorobenzene**	(µg/kg)	502	48	<10	<10	0	
Bromobenzene**	(µg/kg)	42.1	48	<10	12.55	0	
Bromodichloromethane**	(µg/kg)	0.854	48	<10	<10	0	
Methylethylbenzene**	(µg/kg)	No SSV	48	<10	<10	0	
1, 1-Dichloro-1-propene**	(µg/kg)	No SSV	48	<10	<10	0	
1, 2-Dichloroethene-trans	(µg/kg)	No SSV	48	<10	37.36	0	
2, 2-Dichloropropane	(µg/kg)	No SSV	48	<10	<10	0	
Bromochloromethane	(µg/kg)	No SSV	48	<10	<10	0	
1, 2-Dichloroethane	(µg/kg)	No SSV	48	<10	<10	0	
Dibromomethane**	(µg/kg)	No SSV	48	<10	<10	0	
1, 2-Dichloropropane**	(µg/kg)	No SSV	48	<10	<10	0	
1, 3-Dichloro1propene**	(µg/kg)	No SSV	48	<10	<10	0	
1, 3-Dichloro1propene trans	(µg/kg)	No SSV	48	<10	<10	0	
1, 1, 2-Trichloroethane	(µg/kg)	No SSV	48	<10	<10	0	
Dibromochloromethane	(µg/kg)	9.27	48	<10	<10	0	
1, 3-Dichloropropane	(µg/kg)	No SSV	48	<10	<10	0	
Dibromoethane**	(µg/kg)	No SSV	48	<10	<10	0	
Styrene	(µg/kg)	9670	48	<10	<10	0	
Propylbenzene	(µg/kg)	16200	48	<10	<10	0	
2-Chlorotoluene	(µg/kg)	No SSV	48	<10	<10	0	
1, 2, 4-Trimethylbenzene	(µg/kg)	No SSV	48	<10	<10	0	
4-Chlorotoluene	(µg/kg)	No SSV	48	<10	<10	0	
t-Butylbenzene	(µg/kg)	No SSV	48	<10	<10	0	
Trimethylbenzene	(µg/kg)	No SSV	48	<10	<10	0	
1-Methylpropylbenzene	(µg/kg)	No SSV	48	<10	<10	0	
o-Cymene	(µg/kg)	No SSV	48	<10	<10	0	
1, 4-Dichlorobenzene	(µg/kg)	No SSV	48	<10	<10	0	
Butylbenzene	(µg/kg)	No SSV	48	<10	<10	0	
1, 2-Dibromo-3-chloropropane	(µg/kg)	No SSV	48	<10	<10	0	
Hexachlorobutaciene	(µg/kg)	No SSV	48	<10	<10	0	
1, 2, 3-Trichlorobenzene	(µg/kg)	No SSV	48	<10	<10	0	
1, 2, 4-Trichlorobenzene	(µg/kg)	No SSV	48	<10	<10	0	
1, 3-Dichlorobenzene	(µg/kg)	No SSV	48	<10	<10	0	
1, 2-Dichlorobenzene	(µg/kg)	No SSV	48	<10	<10	0	
Bromoform	(µg/kg)	327	48	<10	<10	0	
Vinyl Chloride	(µg/kg)	0.0309	37	<10	<10	0	
SVOCs							
Pyridine	(µg/kg)	No SSV	48	<10	<10	0	
Aniline	(µg/kg)	No SSV	48	<10	<10	0	
Phenol	(µg/kg)	685	48	<10	20.37	0	
Bis(2-chloroethyl) ether	(µg/kg)	No SSV	48	<10	<10	0	
Benzene, 1,3-dichloro-	(µg/kg)	No SSV	48	<10	<10	0	
Benzene, 1,4-dichloro-	(µg/kg)	No SSV	48	<10	<10	0	
Benzene, 1,2-dichloro-	(µg/kg)	No SSV	48	<10	<10	0	
Phenol, 2-methyl-	(µg/kg)	No SSV	48	<10	22.46	0	
Ethane, hexachloro-	(µg/kg)	No SSV	48	<10	<10	0	
Phenol, 3-methyl-	(µg/kg)	No SSV	48	<10	<10	0	
Nitrobenzene	(µg/kg)	No SSV	48	<10	<10	0	
Isophorone	(µg/kg)	No SSV	48	<10	<10	0	
Phenol, 2-nitro-	(µg/kg)	No SSV	48	<10	<10	0	
Phenol, 2,4-dimethyl-	(µg/kg)	No SSV	48	<10	<10	0	
Methane, bis(2-chloroethoxy)-	(µg/kg)	No SSV	48	<10	<10	0	
Phenol, 2,4-dichloro-	(µg/kg)	No SSV	48	<10	<10	0	
1,3,4-Trichlorobenzene,	(µg/kg)	No SSV	48	<10	<10	0	
Naphthalene	(µg/kg)	90.1	4	<10	<10	0	
4-Chloroaniline	(µg/kg)	No SSV	48	<10	<10	0	
Hexachloro-1,3-butadiene	(µg/kg)	No SSV	48	<10	<10	0	
Phenol, 4-chloro-3-methyl-	(µg/kg)	No SSV	48	<10	<10	0	
Naphthalene, 2-methyl-	(µg/kg)	No SSV	48	<10	<10	0	
Naphthalene, 1-methyl-	(µg/kg)	No SSV	48	<10	<10	0	
Hexachlorocyclopentadiene	(µg/kg)	No SSV	48	<10	<10	0	
Phenol, 2,4,6-trichloro-	(µg/kg)	No SSV	48	<10	<10	0	
Phenol, 2,4,5-trichloro-	(µg/kg)	No SSV	48	<10	<10	0	
Naphthalene, 2-chloro-	(µg/kg)	No SSV	48	<10	<10	0	
2-Nitroaniline	(µg/kg)	No SSV	48	<10	<10	0	
1,4-Dinitrobenzene,	(µg/kg)	No SSV	48	<10	<10	0	
Dimethylphthalate	(µg/kg)	No SSV	48	<10	<10	0	
Acenaphthylene	(µg/kg)	No SSV	4	<10	<10	0	
1.3-Dinitrobenzene	(µg/kg)	No SSV	48	<10	<10	0	
3-Nitroaniline	(µg/kg)	No SSV	48	<10	<10	0	
Acenaphthene	(µg/kg)	83600	4	<10	<10	0	
Dibenzofuran	(µg/kg)	No SSV	48	<10	<10	0	
2,4-Dinitrotoluene	(µg/kg)	3730	48	<10	<10	0	
2,3,4,6-Tetrachlorophenol,	(µg/kg)	No SSV	48	<10	<10	0	

Constituent	TP66 ES2	TP66 ES3	TP67 ES2	TP67 ES3	TP68 ES5	TP69 ES3	TP70 ES1	TP71 ES1	TP71 ES2	TP72 ES1	TP72 ES3	TP73 ES2	TP74 ES1	TP74 ES3	TP76 ES2	TP76 ES4
	0.5 - 0.6	1.5 - 1.6	0.5 - 0.6	1.5 - 1.6	3.5 - 3.6	1.5 - 1.6	0 - 0.2	0 - 0.2	0.5 - 0.6	0 - 0.2	1.5 - 1.6	0.5 - 0.6	0 - 0.2	1.5 - 1.6	0.5 - 0.6	2.5 - 2.6
Stone Content	3	<1	<1	<1	<1	<1	7	-	<1	20	14	1	-	<1	-	<1
Metals/Metalloids																
Arsenic**	11	18.3	32	12.2	41	38.9	7.4	-	17	14	12.8	27.2	-	16.6	-	18.7
Cadmium**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5
Chromium**	7	10	19	8	26.1	10	6	-	7	8	4	13	-	8	-	19
Lead**	11	5	6	3	8	4	8	-	4	10	4	5	-	3	-	6
Mercury**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5
Nickel**	5.1	6.2	10.5	4.2	19.8	4.5	3.4	-	4.1	6.2	4.6	8	-	1.9	-	7.4
Copper**	7.7	6.1	9.6	4	8.6	3.4	4.2	-	3	5.3	7.5	5.5	-	2.2	-	4.3
Zinc**	41.7	30.3	37.9	22	40	24	24.6	-	17.9	21.6	34.1	28.4	-	11.4	-	24.6
Selenium	<0.5	<0.5	<0.5	<0.5	0.57	<0.5	<0.5	-	<0.5	<0.5	<0.5	0.54	-	<0.5	-	<0.5
Hexavalent Chromium	<2	<2	<2	<2	<2	<2	<2	-	<2	<2	<2	<2	-	<2	-	<2
Water Soluble Boron	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5
Inorganics																
pH Value**	7.6	7.43	5.6	6	5.7	7.51	7.5	-	8.1	7.74	7.4	7.43	-	7.71	-	7.5
Total Sulphate	0.16	0.16	<0.05	0.14	0.25	0.16	0.05	-	0.07	<0.05	0.07	0.24	-	0.05	-	0.1
Total Cyanide**	<1	<1	<1	<1	<1	<1	<1	-	<1	<1	<1	<1	-	<1	-	<1
Sulphide	<2	<2	<2	<2	<2	<2	<2	-	<2	<2	<2	<2	-	<2	-	<2
Elemental Sulphur**	<10	<10	<10	<10	<10	<10	<10	-	<10	<10	<10	<10	-	<10	-	<10
Total Monohydric Phenols**	<1	<1	<1	<1	<1	<1	<1	-	<1	<1	<1	<1	-	<1	-	<1
PAHs																
Naphthalene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	<0.1	-	<0.1
Acenaphthylene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	<0.1	-	<0.1
Acenaphthene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	<0.1	-	<0.1
Fluorene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	<0.1	-	<0.1
Phenanthrene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	<0.1	-	<0.1
Anthracene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	<0.1	-	<0.1
Fluoranthene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	<0.1	-	<0.1
Pyrene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	<0.1	-	<0.1
Benz(a)anthracene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	<0.1	-	<0.1
Chrysene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	<0.1	-	<0.1
Benzo(b)fluoranthene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	<0.1	-	<0.1
Benzo(k)fluoranthene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	<0.1	-	<0.1
Benzo(a)pyrene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	<0.1	-	<0.1
Indeno(123-cd)pyrene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	<0.1	-	<0.1
Dibenz(ah)anthracene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	<0.1	-	<0.1
Benzo(ghi)perylene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	<0.1	-	<0.1
Total PAH**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	<0.1	-	<0.1
TPH Aromatic																
TPH Aromatic C5-C7	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	<0.01	-	<0.01	-	<0.01
TPH Aromatic C7-C8	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	<0.01	-	<0.01	-	<0.01
TPH Aromatic C8-C10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	<0.1	-	<0.1
TPH aromatic C10-C12	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	<0.1	-	<0.1
TPH Aromatic C12-C16	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	<0.1	-	<0.1
TPH Aromatic C16-C21	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.36	-	0.34	<0.1	<0.1	<0.1	-	0.38	-	0.5
TPH Aromatic C21-C35	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.42	-	0.74	<0.1	<0.1	<0.1	-	0.74	-	0.55
TPH Aliphatic																
TPH Aliphatic C5-C6	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	<0.01	-	<0.01	-	<0.01
TPH Aliphatic C6-C8	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	<0.01	-	<0.01	-	<0.01
TPH Aliphatic C8-C10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	<0.1	-	<0.1
TPH Aliphatic C10-C12	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	<0.1	-	<0.1
TPH Aliphatic C12-C16	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	<0.1	-	<0.1
TPH Aliphatic C16-C21	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.67	-	0.71	<0.1	<0.1	<0.1	-	0.84	-	1.04
TPH Aliphatic C21-C35	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	0.51	0.28	0.14	0.31	-	<0.1	-	0.22
TPH (C5 - C35)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.45	-	2.3	0.28	0.14	0.31	-	1.96	-	2.31
Asbestos	None	-	None	-	-	-	-	-	-	-	-	-	-	-	none	-
VOCs																
Benzene**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethyl Benzene**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
mpXylene**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
oXylene**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1, 2-Dichloroethene-cis**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1, 1-Dichloroethane**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbontetrachloride**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1, 1, 1-Trichloroethane**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethylene**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethylene**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1, 1, 1, 2-Tetrachloroethane**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1, 1, 2, 2-Tetrachloroethane**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromobenzene**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylethylbenzene**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1, 1-Dichloro-1-propene**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1, 2-Dichloroethene-trans	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2, 2-Dichloropropane	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromochloromethane	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1, 2-Dichloroethane	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromomethane**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1, 2-Dichloropropane**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1, 3-Dichloro1propene**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1, 3-Dichloro1propene trans	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1, 1, 2-Trichloroethane	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1, 3-Dichloropropane	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromoethane**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Propylbenzene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Chlorotoluene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1, 2, 4-Trimethylbenzene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chlorotoluene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
t-Butylbenzene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trimethylbenzene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Methylpropylbenzene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
o-Cymene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1, 4-Dichlorobenzene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Butylbenzene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1, 2-Dibromo-3-chloropropane	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutaciene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1, 2, 3-Trichlorobenzene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1, 2, 4-Trichlorobenzene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1, 3-Dichlorobenzene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1, 2-Dichlorobenzene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SVOCs																
Pyridine	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aniline	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenol	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bis(2-chloroethyl) ether	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 1,3-dichloro-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 1,4-dichloro-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 1,2-dichloro-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenol, 2-methyl-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethane, hexachloro-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenol, 3-methyl-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrobenzene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isophorone	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenol, 2-nitro-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenol, 2,4-dimethyl-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methane, bis(2-chloroethoxy)-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenol, 2,4-dichloro-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3,4-Trichlorobenzene,	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloroaniline	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachloro-1,3-butadiene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenol, 4-chloro-3-methyl-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene, 2-methyl-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene, 1-methyl-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenol, 2,4,6-trichloro-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenol, 2,4,5-trichloro-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene, 2-chloro-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Nitroaniline	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dinitrobenzene,	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dimethylphthalate	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.3-Dinitrobenzene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3-Nitroaniline	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,3,4,6-Tetrachlorophenol,	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Constituent	TPN1 ES2	TPN2 ES2	TPN3 ES2	TPN4 ES3	BH1 ES1	BH1 ES3	BH4 ES2	BH6 ES8	BH7 ES6	BH7 ES13	GW1D ES2	GW1D ES3	GW1D ES5	GW1D ES6
	0.5 - 0.6	0.5 - 0.6	0.5 - 0.6	1.5 - 1.6	0.1 - 0.3	1.3 - 1.5	0.6 - 0.8	6.5 - 6.7	4.5 - 4.7	11.5 - 11.7	0.7 - 0.8	1.7 - 1.8	3.7 - 3.8	4.1 - 4.2
Stone Content	<1	<1	<1	<1	6	7	2	29	11	19	5	15	<1	3
Metals/Metalloids														
Arsenic**	20.9	<5	9	11.6	6.1	5.1	10.3	14.1	31.5	24.4	9.5	82.4	15.3	12
Cadmium**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1	2.92	<0.5	<0.5
Chromium**	7	7	8	8	6	4	7	9	9	25.6	14	72.8	22.8	16
Lead**	24	4	6	6	12	2	16	8	4	14	48	1206.8	66	39
Mercury**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	3.44	<0.5	<0.5
Nickel**	3.4	3.1	5.3	4	6.3	2.7	4.5	5.8	6	19.2	13.8	146.98	27.1	15.8
Copper**	5.9	1.5	1.4	1.6	6.5	1.8	5.7	5.7	3.5	9.8	25.7	256.91	36.9	22.3
Zinc**	31.4	43.7	25.8	22.4	53	14.8	24	29.1	26.1	54.2	86.4	1220.3	219.6	81.6
Selenium	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.25	<0.5	3.57	0.63	<0.5
Hexavalent Chromium	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Water Soluble Boron	<0.5	<0.5	<0.5	<0.5	0.8	<0.5	0.7	1	0.7	12.1	<0.5	<0.5	<0.5	<0.5
Inorganics														
pH Value**	4.3	5.4	4.88	4.39	7.7	7.85	6.62	9.44	9.3	7.95	8.24	7.71	8.7	8.71
Total Sulphate	0.11	<0.05	0.08	0.06	0.11	0.07	0.09	<0.05	<0.05	<0.05	<0.05	0.39	0.1	0.13
Total Cyanide**	1.21	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	4.78	<1	<1
Sulphide	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	6.5	5.04	<2
Elemental Sulphur**	<10	<10	<10	<10	<10	<10	<10	<10	<10	45.8	<10	131.04	<10	<10
Total Monohydric Phenols**	<1	<1	1.1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
PAHs														
Naphthalene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.11	<0.1	<0.1	<0.1
Phenanthrene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.97	0.21	<0.1	0.14
Anthracene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.45	0.38	<0.1	<0.1
Fluoranthene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	2.69	0.34	0.17	0.36
Pyrene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	2.06	0.77	0.15	0.28
Benz(a)anthracene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.52	0.43	<0.1	0.15
Chrysene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.52	0.79	0.17	0.31
Benzo(b)fluoranthene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.91	<0.1	<0.1	<0.1
Benzo(k)fluoranthene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.32	<0.1	<0.1	<0.1
Benzo(a)pyrene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.31	0.89	<0.1	0.14
Indeno(123-cd)pyrene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.8	0.32	<0.1	<0.1
Dibenz(ah)anthracene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.21	<0.1	<0.1	<0.1
Benzo(ghi)perylene**	<0.1	<0.1	<0.1	<0.1	0.12	<0.1	<0.1	<0.1	<0.1	<0.1	0.85	0.89	0.19	0.18
Total PAH**	<0.1	<0.1	<0.1	<0.1	0.12	<0.1	<0.1	<0.1	<0.1	<0.1	14.72	5.02	0.67	1.56
TPH Aromatic														
TPH Aromatic C5-C7	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH Aromatic C7-C8	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH Aromatic C8-C10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TPH aromatic C10-C12	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TPH Aromatic C12-C16	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.33	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TPH Aromatic C16-C21	<0.1	<0.1	0.38	0.35	<0.1	<0.1	0.57	0.33	<0.1	<0.1	<0.1	12.36	<0.1	0.24
TPH Aromatic C21-C35	<0.1	<0.1	<0.1	<0.1	<0.1	1.38	1.4	0.93	0.36	0.48	2.36	-68.01	0.51	2.25
TPH Aliphatic														
TPH Aliphatic C5-C6	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	<0.01
TPH Aliphatic C6-C8	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH Aliphatic C8-C10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TPH Aliphatic C10-C12	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TPH Aliphatic C12-C16	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.23	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TPH Aliphatic C16-C21	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.59	<0.1	<0.1	<0.1	47.96	<0.1	<0.1
TPH Aliphatic C21-C35	<0.1	0.13	0.18	0.19	<0.1	<0.1	<0.1	1.85	0.32	0.11	1.48	-143.07	1.08	2.36
TPH (C5 - C35)	<0.1	0.13	0.56	0.54	<0.1	1.38	2.54	3.71	0.68	0.62	3.84	-271.4	1.59	4.85
Asbestos	None	-	none	-	-	-	-	-	-	-	None	None	-	-
VOCs														
Benzene**	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-
Toluene**	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-
Ethyl Benzene**	<10	-	<10	-	-	-	-	-	-	<10	<10	16.19	-	-
mpXylene**	<10	-	<10	-	-	-	-	-	-	<10	<10	15.07	-	-
oXylene**	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-
1, 2-Dichloroethene-cis**	<10	-	<10	-	-	-	-	-	-	<10	<10	14.88	-	-
1, 1-Dichloroethane**	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-
Chloroform**	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-
Carbontetrachloride**	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-
1, 1, 1-Trichloroethane**	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-
Trichloroethylene**	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-
Tetrachloroethylene**	<10	-	<10	-	-	-	-	-	-	<10	<10	12.34	-	-
1, 1, 1, 2-Tetrachloroethane**	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-
1, 1, 2, 2-Tetrachloroethane**	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-
Chlorobenzene**	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-
Bromobenzene**	<10	-	<10	-	-	-	-	-	-	<10	<10	12.55	-	-
Bromodichloromethane**	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-
Methylethylbenzene**	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-
1, 1-Dichloro-1-propene**	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-
1, 2-Dichloroethene-trans	<10	-	<10	-	-	-	-	-	-	<10	<10	37.36	-	-
2, 2-Dichloropropane	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-
Bromochloromethane	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-
1, 2-Dichloroethane	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-
Dibromomethane**	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-
1, 2-Dichloropropane**	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-
1, 3-Dichloro1propene**	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-
1, 3-Dichloro1propene trans	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-
1, 1, 2-Trichloroethane	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-
Dibromochloromethane	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-
1, 3-Dichloropropane	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-
Dibromoethane**	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-
Styrene	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-
Propylbenzene	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-
2-Chlorotoluene	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-
1, 2, 4-Trimethylbenzene	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-
4-Chlorotoluene	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-
t-Butylbenzene	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-
Trimethylbenzene	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-
1-Methylpropylbenzene	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-
o-Cymene	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-
1, 4-Dichlorobenzene	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-
Butylbenzene	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-
1, 2-Dibromo-3-chloropropane	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-
Hexachlorobutaciene	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-
1, 2, 3-Trichlorobenzene	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-
1, 2, 4-Trichlorobenzene	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-
1, 3-Dichlorobenzene	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-
1, 2-Dichlorobenzene	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-
Bromoform	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-
Vinyl Chloride	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-
SVOCs														
Pyridine	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-
Aniline	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-
Phenol	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-
Bis(2-chloroethyl) ether	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-
Benzene, 1,3-dichloro-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-
Benzene, 1,4-dichloro-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-
Benzene, 1,2-dichloro-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-
Phenol, 2-methyl-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-
Ethane, hexachloro-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-
Phenol, 3-methyl-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-
Nitrobenzene	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-
Isophorone	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-
Phenol, 2-nitro-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-
Phenol, 2,4-dimethyl-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-
Methane, bis(2-chloroethoxy)-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-
Phenol, 2,4-dichloro-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-
1,3,4-Trichlorobenzene,	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-
Naphthalene	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloroaniline	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-
Hexachloro-1,3-butadiene	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-
Phenol, 4-chloro-3-methyl-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-
Naphthalene, 2-methyl-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-
Naphthalene, 1-methyl-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-
Hexachlorocyclopentadiene	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-
Phenol, 2,4,6-trichloro-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-
Phenol, 2,4,5-trichloro-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-
Naphthalene, 2-chloro-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-
2-Nitroaniline	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-
1,4-Dinitrobenzene,	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-
Dimethylphthalate	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-
Acenaphthylene	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.3-Dinitrobenzene	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-
3-Nitroaniline	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-
Acenaphthene	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-
2,4-Dinitrotoluene	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-
2,3,4,6-Tetrachlorophenol,	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-

Constituent	GW2 ES2	GW3 ES2	GW3 ES5	GW4 ES2	GW6D ES2	GW6D E	GW6D ES8	GW7 ES2	GW7 ES3	GW7 ES6	GW8 ES2	GW8 ES8	GW8 ES10	GW9D ES1	GW9D ES4	GW9D ES7
	0.8 - 0.9	0.9 - 1.0	3.7 - 3.8	0.5 - 0.6	0.5 - 0.6	3.5 - 3.7	4.9 - 5.1	0.8 - 1.0	1.5 - 1.7	4.4 - 4.6	0.5 - 0.6	6.5 - 6.7	8.5 - 8.7	0 - 0.2	2.7 - 2.9	5.7 - 5.9
Stone Content	<1	3	7	2	7	34	21	16	27	31	12	22	32	27	37	42
Metals/Metalloids																
Arsenic**	<5	<5	45.6	57.5	25.3	12.8	15.9	36	20	5	11	12	<5	<5	<5	<5
Cadmium**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium**	6	2	8	14	10	11	11	11	12	22	4	9	10	3	11	5
Lead**	8	3	4	7	9	6	7	5	3	2	3	3	2	2	2	1
Mercury**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Nickel**	4.4	2	4.7	6.4	7.5	7.5	7.1	6	6	11	3	5	6	2	6	3
Copper**	4.6	1.9	4.2	4.6	8.9	6.2	6.9	2	2	2	1	2	3	2	3	2
Zinc**	23.4	15.3	31.5	59	39.9	23	26.5	36	19	14	10	9	6	11	9	14
Selenium	<0.5	0.58	0.56	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Hexavalent Chromium	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Water Soluble Boron	<0.5	<0.5	<0.5	0.9	<0.5	0.8	2.2	0.6	0.6	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Inorganics																
pH Value**	8.11	7.62	7.7	5.1	8.33	10.53	8.15	8.6	8.6	8.7	8.6	8.1	8.3	8.31	8.5	8.27
Total Sulphate	0.15	0.11	0.14	0.16	0.08	0.06	0.13	0.22	0.22	0.14	<0.05	<0.05	<0.05	0.07	<0.05	<0.05
Total Cyanide**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Sulphide	<2	<2	<2	<2	<2	7.7	<2	<2	<2	<2	<2	<2	<2	<2	<2	11.8
Elemental Sulphur**	<10	<10	<10	<10	<10	25.06	37.44	<10	<10	<10	<10	36.7	14.4	<10	<10	85
Total Monohydric Phenols**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
PAHs																
Naphthalene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benz(a)anthracene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b)fluoranthene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.11	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(123-cd)pyrene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenz(ah)anthracene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.16	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total PAH**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.47	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TPH Aromatic																
TPH Aromatic C5-C7	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH Aromatic C7-C8	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH Aromatic C8-C10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TPH aromatic C10-C12	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TPH Aromatic C12-C16	<0.1	0.11	<0.1	<0.1	0.13	0.12	<0.1	0.38	<0.1	0.15	<0.1	<0.1	<0.1	<0.1	0.12	0.13
TPH Aromatic C16-C21	<0.1	0.33	0.11	0.33	0.35	1.05	0.21	0.3	<0.1	0.16	0.15	0.24	0.15	0.16	0.24	0.12
TPH Aromatic C21-C35	<0.1	0.44	0.19	<0.1	<0.1	2.16	2.05	<0.1	<0.1	<0.1	<0.1	0.19	0.1	0.33	0.54	0.86
TPH Aliphatic																
TPH Aliphatic C5-C6	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH Aliphatic C6-C8	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH Aliphatic C8-C10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.13	0.12	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TPH Aliphatic C10-C12	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.11	0.11	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TPH Aliphatic C12-C16	<0.1	0.11	0.13	<0.1	0.13	<0.1	<0.1	0.17	0.24	0.26	<0.1	<0.1	<0.1	<0.1	0.1	<0.1
TPH Aliphatic C16-C21	<0.1	<0.1	<0.1	<0.1	<0.1	0.44	<0.1	0.35	0.26	0.32	<0.1	<0.1	<0.1	0.11	0.11	<0.1
TPH Aliphatic C21-C35	<0.1	<0.1	0.37	0.19	<0.1	<0.1	<0.1	1.6	0.8	0.58	0.68	0.54	0.73	<0.1	<0.1	0.12
TPH (C5 - C35)	<0.1	1	0.8	0.52	0.61	3.77	2.26	2.8	1.54	1.69	0.84	0.98	0.99	0.6	1.12	1.24
Asbestos	-	-	-	-	none	-	-	None	-	-	none	-	-	-	-	-
VOCs																
Benzene**	-	-	-	-	-	-	-	<10	-	-	<10	<10	<10	-	-	-
Toluene**	-	-	-	-	-	-	-	<10	-	-	<10	<10	<10	-	-	-
Ethyl Benzene**	-	-	-	-	-	-	-	<10	-	-	<10	<10	<10	-	-	-
mpXylene**	-	-	-	-	-	-	-	<10	-	-	<10	<10	<10	-	-	-
oXylene**	-	-	-	-	-	-	-	<10	-	-	<10			-	-	-
1, 2-Dichloroethene-cis**	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
1, 1-Dichloroethane**	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Chloroform**	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Carbontetrachloride**	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
1, 1, 1-Trichloroethane**	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Trichloroethylene**	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Tetrachloroethylene**	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
1, 1, 1, 2-Tetrachloroethane**	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
1, 1, 2, 2-Tetrachloroethane**	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Chlorobenzene**	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Bromobenzene**	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Bromodichloromethane**	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Methylethylbenzene**	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
1, 1-Dichloro-1-propene**	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
1, 2-Dichloroethene-trans	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
2, 2-Dichloropropane	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Bromochloromethane	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
1, 2-Dichloroethane	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Dibromomethane**	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
1, 2-Dichloropropane**	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
1, 3-Dichloro1propene**	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
1, 3-Dichloro1propene trans	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
1, 1, 2-Trichloroethane	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Dibromochloromethane	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
1, 3-Dichloropropane	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Dibromoethane**	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Styrene	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Propylbenzene	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
2-Chlorotoluene	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
1, 2, 4-Trimethylbenzene	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
4-Chlorotoluene	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
t-Butylbenzene	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Trimethylbenzene	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
1-Methylpropylbenzene	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
o-Cymene	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
1, 4-Dichlorobenzene	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Butylbenzene	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
1, 2-Dibromo-3-chloropropane	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Hexachlorobutaciene	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
1, 2, 3-Trichlorobenzene	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
1, 2, 4-Trichlorobenzene	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
1, 3-Dichlorobenzene	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
1, 2-Dichlorobenzene	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Bromoform	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Vinyl Chloride	-	-	-	-	-	-	-	-	-	-	<10	-	-	-	-	-
SVOCs																
Pyridine	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Aniline	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Phenol	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Bis(2-chloroethyl) ether	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Benzene, 1,3-dichloro-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Benzene, 1,4-dichloro-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Benzene, 1,2-dichloro-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Phenol, 2-methyl-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Ethane, hexachloro-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Phenol, 3-methyl-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Nitrobenzene	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Isophorone	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Phenol, 2-nitro-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Phenol, 2,4-dimethyl-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Methane, bis(2-chloroethoxy)-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Phenol, 2,4-dichloro-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
1,3,4-Trichlorobenzene,	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Naphthalene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloroaniline	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Hexachloro-1,3-butadiene	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Phenol, 4-chloro-3-methyl-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Naphthalene, 2-methyl-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Naphthalene, 1-methyl-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Hexachlorocyclopentadiene	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Phenol, 2,4,6-trichloro-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Phenol, 2,4,5-trichloro-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Naphthalene, 2-chloro-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
2-Nitroaniline	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
1,4-Dinitrobenzene,	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Dimethylphthalate	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Acenaphthylene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.3-Dinitrobenzene	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
3-Nitroaniline	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Acenaphthene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
2,4-Dinitrotoluene	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
2,3,4,6-Tetrachlorophenol,	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-

Assessment Criteria : *Commercial - 1% SOM Sand*

☐ **Use MRL Values?**

stituent		eric essment eria (mg/kg)	nber of nples	imum Value	imum Value	nber of eedences	Locations of Exceedences	TP66 ES2	TP66 ES3	TP67 ES2	TP67 ES3	TP68 ES5	TP69 ES3	TP70 ES1	TP71 ES1	TP71 ES2	TP72 ES1	TP72 ES3	TP73 ES2	TP74 ES1	TP74 ES3	TP76 ES2	TP76 ES4	TPN1 ES2	TPN2 ES2	TPN3 ES2	TPN4 ES3	BH1 ES1	BH1 ES3	BH4 ES2	BH6 ES8	BH7 ES6	BH7 ES13	GW1D ES2	GW1D ES3	GW1D ES5	GW1D ES6	GW2 ES2	GW3 ES2	GW3 ES5	GW4 ES2	GW6D ES2	GW6D E	GW6D ES8	GW7 ES2	GW7 ES3	GW7 ES6	GW8 ES2	GW8 ES8	GW8 ES10	GW9D ES1	GW9D ES4	GW9D ES7
								0.5 - 0.6	1.5 - 1.6	0.5 - 0.6	1.5 - 1.6	3.5 - 3.6	1.5 - 1.6	0 - 0.2	0 - 0.2	0.5 - 0.6	0 - 0.2	1.5 - 1.6	0.5 - 0.6	0 - 0.2	1.5 - 1.6	0.5 - 0.6	2.5 - 2.6	0.5 - 0.6	0.5 - 0.6	0.5 - 0.6	1.5 - 1.6	0.1 - 0.3	1.3 - 1.5	0.6 - 0.8	6.5 - 6.7	4.5 - 4.7	11.5 - 11.7	0.7 - 0.8	1.7 - 1.8	3.7 - 3.8	4.1 - 4.2	0.8 - 0.9	0.9 - 1.0	3.7 - 3.8	0.5 - 0.6	0.5 - 0.6	3.5 - 3.7	4.9 - 5.1	0.8 - 1.0	1.5 - 1.7	4.4 - 4.6	0.5 - 0.6	6.5 - 6.7	8.5 - 8.7	0 - 0.2	2.7 - 2.9	5.7 - 5.9
2,3,5,6-Tetrachlorophenol,	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Diethylphthalate	(µg/kg)	No SSV	48	<10	111.87	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Fluorene	(µg/kg)	66500	4	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Diphenylamine	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Azobenzene	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
4-Bromophenyl phenyl ether	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Hexachlorobenzene	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Pentachlorophenol	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Phenanthrene	(µg/kg)	No SSV	4	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	(µg/kg)	535000	4	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	(µg/kg)	72200	4	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	(µg/kg)	54100	4	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzylbutylphthalate	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Bis(2-ethylhexyl)adipate	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Benzo(a)anthracene	(µg/kg)	BaP Surrogate	4	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	(µg/kg)	13400	4	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bis(2-ethylhexyl)phthalate	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Benzo(b)fluoranthene	(µg/kg)	BaP Surrogate	4	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	(µg/kg)	BaP Surrogate	4	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	(µg/kg)	76.3	4	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeno[1,2,3-cd]pyrene	(µg/kg)	BaP Surrogate	4	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenz(ah)anthracene	(µg/kg)	BaP Surrogate	4	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(ghi)perylene	(µg/kg)	BaP Surrogate	4	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCBs																																																					
PCB 28**	(µg/kg)	No SSV	12	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCB 52**	(µg/kg)	No SSV	12	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCB 101**	(µg/kg)	No SSV	12	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCB 118**	(µg/kg)	No SSV	12	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCB 138**	(µg/kg)	No SSV	12	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCB 153**	(µg/kg)	No SSV	12	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCB 180**	(µg/kg)	No SSV	12	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OCPs																																																					
Alpha BHC**	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	<10	<10	-	-	-	-	<10	-	<10	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beta BHC**	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	<10	<10	-	-	-	-	<10	-	<10	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gamma BHC**	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	<10	<10	-	-	-	-	<10	-	<10	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Delta BHC**	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	<10	<10	-	-	-	-	<10	-	<10	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Heptachlor	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	<10	<10	-	-	-	-	<10	-	<10	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aldrin	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	<10	<10	-	-	-	-	<10	-	<10	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Heptachlor epoxide	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	<10	<10	-	-	-	-	<10	-	<10	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlordane	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	<10	<10	-	-	-	-	<10	-	<10	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endosulfan I	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	<10	<10	-	-	-	-	<10	-	<10	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
cis-Chlordane	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	<10	<10	-	-	-	-	<10	-	<10	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pp-DDE**	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	<10	<10	-	-	-	-	<10	-	<10	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dieldrin	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	<10	<10	-	-	-	-	<10	-	<10	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endrin	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	<10	<10	-	-	-	-	<10	-	<10	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pp-DDD**	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	<10	<10	-	-	-	-	<10	-	<10	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endrin Aldehyde	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	<10	<10	-	-	-	-	<10	-	<10	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pp DDT**	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	<10	<10	-	-	-	-	<10	-	<10	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endosulfan II	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	<10	<10	-	-	-	-	<10	-	<10	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endrin Ketone	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	<10	<10	-	-	-	-	<10	-	<10	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pp-Methoxychlor	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	<10	<10	-	-	-	-	<10	-	<10	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OPPs																																																					
Mevinphos	(µg/kg)	No SSV	1	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dimethoate	(µg/kg)	No SSV	1	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Propetamphos	(µg/kg)	No SSV	1	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloropyriphos-methyl	(µg/kg)	No SSV	1	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fenitrithion	(µg/kg)	No SSV	1	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Malathion	(µg/kg)	No SSV	1	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Parathion	(µg/kg)	No SSV	1	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trans-Chlorfenvinphos	(µg/kg)	No SSV	1	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromophos	(µg/kg)	No SSV	1	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Triazophos	(µg/kg)	No SSV	1	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phosalone	(µg/kg)	No SSV	1	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Azinphos-methyl	(µg/kg)	No SSV	1	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Azinphos-ethyl	(µg/kg)	No SSV	1	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

ATKINS

Assessment Criteria : *Commercial - 1% SOM Sand*

☐ Use MRL Values?

Constituent	Unit	Generic Assessment Criteria (mg/kg)	Number of Samples	Minimum Value	Maximum Value	Number of Exceedences	Locations of Exceedences	GW10 ES1	GW10 ES2	GW10 ES7	GW12 ES8	GW12 ES9	GW13 ES2	GW13 ES4	GW13 ES9	GW15 ES2	GW15 ES	GW15 ES5	GW16D ES2	GW16D ES3	GW16D ES5	GW17 ES2	GW17 ES6	GW18 ES2	GW19 ES4	GW20 ES1	GW21 ES1	GW22 ES1	GW23 ES1	GW23 ES2	GW24D ES1	GW24D ES3	G2 ES1	G2 ES3	G3 ES2	G3 ES4	G3 ES6	G4 ES2	G4 ES4	G4 ES8	G6 ES6
								0.1 - 0.3	0.8 - 1.0	5.2 - 5.5	6.5 - 6.7	7.5 - 7.7	0.5 - 0.7	2.5 - 2.7	7.0 - 7.2	0.8 - 1.0	2.1 - 2.3	3.3 - 3.5	0.80 - 1.0	1.80 - 2.0	3.80 - 4.0	0.5 - 0.6	4.5 - 4.7	0.80 - 0.90	2.5 - 2.7	GL - 0.2	0 - 0.2	0 - 0.2	GL - 0.2	0.9 - 1.0	0 - 0.2	1.5 - 1.7	0.1 - 0.3	1.4 - 1.6	0.4 - 0.6	1.7 - 1.9	3.7 - 3.9	0.70 - 0.90	2.50 - 2.70	6.50 - 6.70	4.5 - 4.7
Stone Content	(%)	No SSV	165	<1	68	0		16	<1	5	41	36	20	68	20	-	<1	28	<1	5	<1	4	<1	6	2	5	2	<1	3	3	9	17	6	27	4	<1	<1	3	8	<1	7
Metals/Metalloids																																									
Arsenic**	(mg/kg)	635	165	<5	158.9	0		17.8	38.3	18.5	7.8	10.2	<5	<5	10.8	-	41	13.9	43.1	20.7	89.7	36.9	26.8	25.9	24.5	12.7	8.3	9.2	9.6	10.9	42.1	51.8	35.5	27.2	27.3	107.5	30	57.3	71.4	25.8	5.4
Cadmium**	(mg/kg)	410	165	<0.5	2.92	0		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium**	(mg/kg)	208000	165	2	72.8	0		14	10	37.8	9	10	3	3	22.9	-	9	11	7	4	13	9	5	9	8	11	7	5	8	6	12	15	10	11	10	21.6	40	11	20	40	7
Lead**	(mg/kg)	2310	165	1	1206.8	0		13	5	21	6	3	2	1	11	-	20	4	5	3	5	4	2	20	8	19	16	11	35	19	9	7	5	4	6	8.7	23.2	6	11	21	2
Mercury**	(mg/kg)	7.95	165	<0.5	3.44	0		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Nickel**	(mg/kg)	1770	165	1.9	146.98	0		7.3	5.3	34.9	6.1	6.1	2	2	18	-	5	6	3	2	9	4.5	3.7	6	5	6.4	4	4	6.3	5	6	7	4.9	6.6	5	21	30	6	12	32	4.2
Copper**	(mg/kg)	106000	165	<1	256.91	0		3.1	1.9	15.4	4	2.8	1.9	1.7	8.9	-	2	3	<1	<1	3	4.6	2	11	10	5.6	4	6	7.6	5	3	4	2.6	4.3	2	5	11	1	5	14	2.6
Zinc**	(mg/kg)	1100000	165	5.9	1220.3	0		21.5	124	99.2	17.5	12.4	11.7	21	48.4	-	37	17	22	22	47	25.7	21.2	26	24	32.3	35	25	33.4	13.7	30	33	23.3	19.7	30	47	75	38	43	86	10.1
Selenium	(mg/kg)	13000	165	<0.5	3.57	0		<0.5	<0.5	0.81	<0.5	<0.5	<0.5	<0.5	0.6	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	0.6	<0.5	<0.5	<0.5	<0.5	0.54	<0.5	<0.5	0.51	<0.5	<0.5	0.59	1	<0.5	0.9	1.2	<0.5
Hexavalent Chromium	(mg/kg)	49.1	165	<2	<2	0		<2	<2	<2	<2	<2	<2	<2	<2	-	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Water Soluble Boron	(mg/kg)	No SSV	165	<0.5	12.1	0		1.1	0.9	5.1	0.5	<0.5	<0.5	<0.5	7.6	-	<0.5	<0.5	0.6	0.5	0.6	8.2	0.5	<0.5	<0.5	<0.5	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	0.6	2.2	<0.5	<0.5	6.7	<0.5
Inorganics																																									
pH Value**	(Units)	No SSV	165	4.3	11.2	0		10.2	7.4	8.5	11.2	10.65	8.32	8.27	7.98	-	7.7	9.2	8.6	8.7	8.2	5.87	6.76	8.8	8.6	7.7	7	7.7	7.7	7.81	8.4	8.3	8.1	8.3	8.3	7.6	6.9	8.3	8.6	8	9.65
Total Sulphate	(% as SO4)	No SSV	165	<0.05	0.59	0		0.31	0.35	0.21	0.07	<0.05	<0.05	<0.05	<0.05	-	0.41	0.27	<0.05	<0.05	0.45	0.05	<0.05	0.24	0.23	0.06	<0.05	0.15	0.07	<0.05	<0.05	0.09	0.15	0.07	0.05	0.12	0.17	<0.05	<0.05	0.12	0.07
Total Cyanide**	(mg/kg)	No SSV	165	<1	4.78	0		<1	<1	<1	<1	<1	<1	<1	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Sulphide	(mg/kg)	No SSV	165	<2	88	0		<2	<2	88	<2	<2	<2	<2	<2	-	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	4.6	4.4	21.1	<2	<2	40.1	<2
Elemental Sulphur**	(mg/kg)	No SSV	165	<10	414.72	0		<10	<10	264.4	<10	<10	<10	<10	49.07	-	47	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	29.6	<10	<10	80	20	64	<10	15	199	<10
Total Monohydric Phenols**	(mg/kg)	No SSV	165	<1	1.3	0		<1	<1	<1	<1	<1	<1	<1	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
PAHs																																									
Naphthalene**	(mg/kg)	90.1	165	<0.1	<0.1	0		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene**	(mg/kg)	No SSV	165	<0.1	0.9	0		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene**	(mg/kg)	83600	165	<0.1	<0.1	0		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene**	(mg/kg)	66500	165	<0.1	0.11	0		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene**	(mg/kg)	No SSV	165	<0.1	0.97	0		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.13	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene**	(mg/kg)	535000	165	<0.1	0.45	0		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene**	(mg/kg)	72200	165	<0.1	2.69	0		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.14	<0.1	<0.1	<0.1	0.19	<0.1
Pyrene**	(mg/kg)	54100	165	<0.1	2.06	0		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.18	<0.1	<0.1	<0.1	<0.1	<0.1
Benz(a)anthracene**	(mg/kg)	No SSV	165	<0.1	1.52	0		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene**	(mg/kg)	13400	165	<0.1	1.52	0		<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b)fluoranthene**	(mg/kg)	BaP Surrogate	165	<0.1	0.91	0		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene**	(mg/kg)	BaP Surrogate	165	<0.1	1.32	0		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene**	(mg/kg)	76.3	165	<0.1	1.31	0		<0.1	<0.1	<0.1	<0.1	<0.1	0.11	<0.1	<0.1	-	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(123-cd)pyrene**	(mg/kg)	BaP Surrogate	165	<0.1	0.8	0		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1
Dibenz(ah)anthracene**	(mg/kg)	BaP Surrogate	165	<0.1	0.21	0		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene**	(mg/kg)	BaP Surrogate	165	<0.1	0.89	0		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1
Total PAH**	(mg/kg)	No SSV	165	<0.1	14.72	0		<0.1	<0.1	<0.1	0.1	<0.1	0.11	<0.1	<0.1	-	<0.1	<0.1	<0.1	0.4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.7	0.3	<0.1	<0.1	0.2	<0.1
TPH Aromatic																																									
TPH Aromatic C5-C7	(mg/kg)	12.5	165	<0.01	<0.01	0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH Aromatic C7-C8	(mg/kg)	27900	165	<0.01	<0.01	0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH Aromatic C8-C10	(mg/kg)	2210	165	<0.1	0.4	0		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TPH aromatic C10-C12	(mg/kg)	12300	165	<0.1	0.22	0		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TPH Aromatic C12-C16	(mg/kg)	41300	165	<0.1	5.83	0		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.12	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TPH Aromatic C16-C21	(mg/kg)	28400	165	<0.1	19.85	0		0.54	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	0.22	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.36	<0.1	<0.1	0.4	0.52	0.1	<0.1	<0.1	0.74	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TPH Aromatic C21-C35	(mg/kg)	28400	165	<-68.01	42.05	0		10.75	2.51	4.63	<0.1	<0.1	1.8	0.64	0.38	-	0.17	0.3	0.58	<0.1	0.25	1.8	<0.1	<0.1	0.3	0.44	<0.1	0.27	0.55	0.85	<0.1	-50.69	<0.1	<0.1	0.59	0.71	0.48	<0.1	<0.1	<0.1	0.14
TPH Aliphatic																																									
TPH Aliphatic C5-C6	(mg/kg)	4490	165	<0.01	0.03	0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH Aliphatic C6-C8	(mg/kg)	10400	165	<0.01	<0.1	0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.1	<0.1	<0.1	<0.1
TPH Aliphatic C8-C10	(mg/kg)	1370	165	<0.1	0.15	0		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TPH Aliphatic C10-C12	(mg/kg)	7900	165	<0.1	0.52	0		<0.1	<0.1	<0.1	<0.1	0.12	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TPH Aliphatic C12-C16	(mg/kg)	34000	165	<0.1	5.62	0		0.18	<0.1	0.44	<0.1	0.2	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.14	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.32	<0.1
TPH Aliphatic C16-C21	(mg/kg)	3620000	165	<0.1	47.96	0		1.08	<0.1	0.54	<0.1	0.13	<0.1	<0.1	<0.1	-	0.41	<0.1	0.15	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.69	<0.1	<0.1	0.84	0.99	<0.1	0.45	<0.1	0.47	<0.1	0.15	<0.1	0.85	0.61	1.62	<0.1
TPH Aliphatic C21-C35	(mg/kg)	3620000	165	<-143.07	46.2	0		11.8	1.45	1.59	<0.1	0.32	0.15	<0.1	<0.1	-	4.16	0.38	<0.1	0.11	0.11	0.62	<0.1	0.5	0.9	<0.1	0.16	<0.1	0.26	0.2	<0.1	46.2	2.25	1.71	1.13	0.48	0.15	0.85	0.61	1.94	0.14
TPH (C5 - C35)	(mg/kg)	No SSV	161	<-271.4	70.86	0		23.79	2.03	6.15	<0.1	0.76	1.95	0.64	0.38	-	4.7	0.68	1.4	0.3	1	2.42	<0.1	0.5	1.1	1.48	0.2	0.3	2.04	2.56	0.36	-97.34	2.25	2.91	1.72	1.34	0.63				
Asbestos	% / type	Any	50	Not Detected	Present	49		none	-	-	none	-	-	-	-	-	-	-	none	-	-	none	-	none	none	-	-	-	none	-	-	-	-	-	-	-	-				
VOCs		No SSV	11	<10	<10	0																																<10	-	-	-
Benzene**	(µg/kg)	12.5	61	<10	<10	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	<10	<10	-	-	-	-	-	-	<10	-	-	<10	-	-	-
Toluene**	(µg/kg)	27900	61	<10	<10	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	<10	<10	-	-	-	-	-	-	<10	-	-	<10	-	-	-
Ethyl Benzene**	(µg/kg)	7660	61	<10	16.19	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	<10	<10	-	-	-	-	-	-	<10	-	-	<10	-	-	-
mpXylene**	(µg/kg)	No SSV	59	<10	15.07	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	<10	<10	-	-	-	-	-	-	<10	-	-	<10	-	-	-
oXylene**	(µg/kg)	No SSV	48	<10	<10	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-			-	-	-	-	-	-	<10	-	-	<10	-	-	-
1, 2-Dichloroethene-cis**	(µg/kg)	No SSV	48	<10	14.88	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
1, 1-Dichloroethane**	(µg/kg)	No SSV	48	<10	<10	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
Chloroform**	(µg/kg)	45.2	48	<10	12	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
Carbontetrachloride**	(µg/kg)	No SSV	48	<10	<10	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
1, 1, 1-Trichloroethane**	(µg/kg)	No SSV	48	<10	<10	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
Trichloroethylene**	(µg/kg)	No SSV	48	<10	<10	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
Tetrachloroethylene**	(µg/kg)	No SSV	48	<10	12.34	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
1, 1, 1, 2-Tetrachloroethane**	(µg/kg)	No SSV	48	<10	<10	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
1, 1, 2, 2-Tetrachloroethane**	(µg/kg)	No SSV	39	<10	<10	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-				
Chlorobenzene**	(µg/kg)	502	48	<10	<10	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
Bromobenzene**	(µg/kg)	42.1	48	<10	12.55	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
Bromodichloromethane**	(µg/kg)	0.854	48	<10	<10	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
Methylethylbenzene**	(µg/kg)	No SSV	48	<10	<10	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
1, 1-Dichloro-1-propene**	(µg/kg)	No SSV	48	<10	<10	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
1, 2-Dichloroethene-trans	(µg/kg)	No SSV	48	<10	37.36	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
2, 2-Dichloropropane	(µg/kg)	No SSV	48	<10	<10	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
Bromochloromethane	(µg/kg)	No SSV	48	<10	<10	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
1, 2-Dichloroethane	(µg/kg)	No SSV	48	<10	<10	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
Dibromomethane**	(µg/kg)	No SSV	48	<10	<10	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
1, 2-Dichloropropane**	(µg/kg)	No SSV	48	<10	<10	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
1, 3-Dichloro1propene**	(µg/kg)	No SSV	48	<10	<10	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
1, 3-Dichloro1propene trans	(µg/kg)	No SSV	48	<10	<10	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
1, 1, 2-Trichloroethane	(µg/kg)	No SSV	48	<10	<10	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
Dibromochloromethane	(µg/kg)	9.27	48	<10	<10	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
1, 3-Dichloropropane	(µg/kg)	No SSV	48	<10	<10	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
Dibromoethane**	(µg/kg)	No SSV	48	<10	<10	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
Styrene	(µg/kg)	9670	48	<10	<10	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
Propylbenzene	(µg/kg)	16200	48	<10	<10	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
2-Chlorotoluene	(µg/kg)	No SSV	48	<10	<10	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
1, 2, 4-Trimethylbenzene	(µg/kg)	No SSV	48	<10	<10	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
4-Chlorotoluene	(µg/kg)	No SSV	48	<10	<10	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
t-Butylbenzene	(µg/kg)	No SSV	48	<10	<10	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
Trimethylbenzene	(µg/kg)	No SSV	48	<10	<10	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
1-Methylpropylbenzene	(µg/kg)	No SSV	48	<10	<10	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
o-Cymene	(µg/kg)	No SSV	48	<10	<10	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
1, 4-Dichlorobenzene	(µg/kg)	No SSV	48	<10	<10	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
Butylbenzene	(µg/kg)	No SSV	48	<10	<10	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
1, 2-Dibromo-3-chloropropane	(µg/kg)	No SSV	48	<10	<10	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
Hexachlorobutaciene	(µg/kg)	No SSV	48	<10	<10	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
1, 2, 3-Trichlorobenzene	(µg/kg)	No SSV	48	<10	<10	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
1, 2, 4-Trichlorobenzene	(µg/kg)	No SSV	48	<10	<10	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
1, 3-Dichlorobenzene	(µg/kg)	No SSV	48	<10	<10	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
1, 2-Dichlorobenzene	(µg/kg)	No SSV	48	<10	<10	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
Bromoform	(µg/kg)	327	48	<10	<10	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
Vinyl Chloride	(µg/kg)	0.0309	37	<10	<10	0		-	-	-	<10	-	-	-	-	-	-	-	-	-	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SVOCs																																									
Pyridine	(µg/kg)	No SSV	48	<10	<10	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
Aniline	(µg/kg)	No SSV	48	<10	<10	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
Phenol	(µg/kg)	685	48	<10	20.37	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
Bis(2-chloroethyl) ether	(µg/kg)	No SSV	48	<10	<10	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
Benzene, 1,3-dichloro-	(µg/kg)	No SSV	48	<10	<10	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
Benzene, 1,4-dichloro-	(µg/kg)	No SSV	48	<10	<10	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
Benzene, 1,2-dichloro-	(µg/kg)	No SSV	48	<10	<10	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
Phenol, 2-methyl-	(µg/kg)	No SSV	48	<10	22.46	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
Ethane, hexachloro-	(µg/kg)	No SSV	48	<10	<10	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
Phenol, 3-methyl-	(µg/kg)	No SSV	48	<10	<10	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
Nitrobenzene	(µg/kg)	No SSV	48	<10	<10	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
Isophorone	(µg/kg)	No SSV	48	<10	<10	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
Phenol, 2-nitro-	(µg/kg)	No SSV	48	<10	<10	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
Phenol, 2,4-dimethyl-	(µg/kg)	No SSV	48	<10	<10	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
Methane, bis(2-chloroethoxy)-	(µg/kg)	No SSV	48	<10	<10	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
Phenol, 2,4-dichloro-	(µg/kg)	No SSV	48	<10	<10	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
1,3,4-Trichlorobenzene,	(µg/kg)	No SSV	48	<10	<10	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
Naphthalene	(µg/kg)	90.1	4	<10	<10	0		<10	-	-	-	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloroaniline	(µg/kg)	No SSV	48	<10	<10	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
Hexachloro-1,3-butadiene	(µg/kg)	No SSV	48	<10	<10	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
Phenol, 4-chloro-3-methyl-	(µg/kg)	No SSV	48	<10	<10	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
Naphthalene, 2-methyl-	(µg/kg)	No SSV	48	<10	<10	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
Naphthalene, 1-methyl-	(µg/kg)	No SSV	48	<10	<10	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
Hexachlorocyclopentadiene	(µg/kg)	No SSV	48	<10	<10	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
Phenol, 2,4,6-trichloro-	(µg/kg)	No SSV	48	<10	<10	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
Phenol, 2,4,5-trichloro-	(µg/kg)	No SSV	48	<10	<10	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
Naphthalene, 2-chloro-	(µg/kg)	No SSV	48	<10	<10	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
2-Nitroaniline	(µg/kg)	No SSV	48	<10	<10	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
1,4-Dinitrobenzene,	(µg/kg)	No SSV	48	<10	<10	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
Dimethylphthalate	(µg/kg)	No SSV	48	<10	<10	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
Acenaphthylene	(µg/kg)	No SSV	4	<10	<10	0		<10	-	-	-	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.3-Dinitrobenzene	(µg/kg)	No SSV	48	<10	<10	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
3-Nitroaniline	(µg/kg)	No SSV	48	<10	<10	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
Acenaphthene	(µg/kg)	83600	4	<10	<10	0		<10	-	-	-	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	(µg/kg)	No SSV	48	<10	<10	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
2,4-Dinitrotoluene	(µg/kg)	3730	48	<10	<10	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
2,3,4,6-Tetrachlorophenol,	(µg/kg)	No SSV	48	<10	<10	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-

ATKINS

Assessment Criteria :	Commercial - 1% SOM Sand
Use MRL Values?	

Contaminant		Generic Assessment Criteria (mg/kg)	Number of Samples	Minimum Value	Maximum Value	Number of Exceedences	Locations of Exceedences	GW10 ES1	GW10 ES2	GW10 ES7	GW12 ES8	GW12 ES9	GW13 ES2	GW13 ES4	GW13 ES9	GW15 ES2	GW15 ES	GW15 ES5	GW16D ES2	GW16D ES3	GW16D ES5	GW17 ES2	GW17 ES6	GW18 ES2	GW19 ES4	GW20 ES1	GW21 ES1	GW22 ES1	GW23 ES1	GW23 ES2	GW24D ES1	GW24D ES3	G2 ES1	G2 ES3	G3 ES2	G3 ES4	G3 ES6	G4 ES2	G4 ES4	G4 ES8	G6 ES6
								0.1 - 0.3	0.8 - 1.0	5.2 - 5.5	6.5 - 6.7	7.5 - 7.7	0.5 - 0.7	2.5 - 2.7	7.0 - 7.2	0.8 - 1.0	2.1 - 2.3	3.3 - 3.5	0.80 - 1.0	1.80 - 2.0	3.80 - 4.0	0.5 - 0.6	4.5 - 4.7	0.80 - 0.90	2.5 - 2.7	GL - 0.2	0 - 0.2	0 - 0.2	GL - 0.2	0.9 - 1.0	0 - 0.2	1.5 - 1.7	0.1 - 0.3	1.4 - 1.6	0.4 - 0.6	1.7 - 1.9	3.7 - 3.9	0.70 - 0.90	2.50 - 2.70	6.50 - 6.70	4.5 - 4.7
2,3,5,6-Tetrachlorophenol,	(µg/kg)	No SSV	48	<10	<10	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
Diethylphthalate	(µg/kg)	No SSV	48	<10	111.87	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
Fluorene	(µg/kg)	66500	4	<10	<10	0		<10	-	-	-	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Diphenylamine	(µg/kg)	No SSV	48	<10	<10	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
Azobenzene	(µg/kg)	No SSV	48	<10	<10	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
4-Bromophenyl phenyl ether	(µg/kg)	No SSV	48	<10	<10	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
Hexachlorobenzene	(µg/kg)	No SSV	48	<10	<10	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
Pentachlorophenol	(µg/kg)	No SSV	48	<10	<10	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
Phenanthrene	(µg/kg)	No SSV	4	<10	<10	0		<10	-	-	-	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	(µg/kg)	535000	4	<10	<10	0		<10	-	-	-	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	(µg/kg)	72200	4	<10	<10	0		<10	-	-	-	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	(µg/kg)	54100	4	<10	<10	0		<10	-	-	-	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzylbutylphthalate	(µg/kg)	No SSV	48	<10	<10	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
Bis(2-ethylhexyl)adipate	(µg/kg)	No SSV	48	<10	<10	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
Benzo(a)anthracene	(µg/kg)	BaP Surrogate	4	<10	<10	0		<10	-	-	-	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	(µg/kg)	13400	4	<10	<10	0		<10	-	-	-	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bis(2-ethylhexyl)phthalate	(µg/kg)	No SSV	48	<10	<10	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
Benzo(b)fluoranthene	(µg/kg)	BaP Surrogate	4	<10	<10	0		<10	-	-	-	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	(µg/kg)	BaP Surrogate	4	<10	<10	0		<10	-	-	-	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	(µg/kg)	76.3	4	<10	<10	0		<10	-	-	-	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeno[1,2,3-cd]pyrene	(µg/kg)	BaP Surrogate	4	<10	<10	0		<10	-	-	-	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenz(ah)anthracene	(µg/kg)	BaP Surrogate	4	<10	<10	0		<10	-	-	-	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(ghi)perylene	(µg/kg)	BaP Surrogate	4	<10	<10	0		<10	-	-	-	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCBs																																									
PCB 28**	(µg/kg)	No SSV	12	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCB 52**	(µg/kg)	No SSV	12	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCB 101**	(µg/kg)	No SSV	12	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCB 118**	(µg/kg)	No SSV	12	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCB 138**	(µg/kg)	No SSV	12	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCB 153**	(µg/kg)	No SSV	12	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCB 180**	(µg/kg)	No SSV	12	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OCPs																																									
Alpha BHC**	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beta BHC**	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gamma BHC**	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Delta BHC**	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Heptachlor	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aldrin	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Heptachlor epoxide	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlordane	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endosulfan I	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
cis-Chlordane	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pp-DDE**	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dieldrin	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endrin	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pp-DDD**	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endrin Aldehyde	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pp DDT**	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endosulfan II	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endrin Ketone	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pp-Methoxychlor	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OPPs																																									
Mevinphos	(µg/kg)	No SSV	1	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dimethoate	(µg/kg)	No SSV	1	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Propetamphos	(µg/kg)	No SSV	1	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorpyriphos-methyl	(µg/kg)	No SSV	1	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fenitrothion	(µg/kg)	No SSV	1	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Malathion	(µg/kg)	No SSV	1	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Parathion	(µg/kg)	No SSV	1	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trans-Chlorfenvinphos	(µg/kg)	No SSV	1	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromophos	(µg/kg)	No SSV	1	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Triazophos	(µg/kg)	No SSV	1	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phosalone	(µg/kg)	No SSV	1	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Azinphos-methyl	(µg/kg)	No SSV	1	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Azinphos-ethyl	(µg/kg)	No SSV	1	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Assessment Criteria : *Public Open Space (Parks) - 1% SOM Sand*

☐ Use MRL Values?

Constituent	Unit	Generic Assessment Criteria (mg/kg)	Number of Samples	Minimum Value	Maximum Value	Number of Exceedences	Locations of Exceedences	TP1 ES3	TP1 ES4	TP2 ES1	TP2 ES3	TP3 ES2
Depth								1.5 - 1.6	2.5 - 2.6	GL - 0.2	1.0 - 1.1	0.5 - 0.6
Stone Content	(%)	No SSV	165	<1	68	0		8	7	5	21	7
Metals/Metalloids												
Arsenic**	(mg/kg)	168	165	<5	158.9	0		8.5	9.1	25.2	17.8	31
Cadmium**	(mg/kg)	882	165	<0.5	2.92	0		<0.5	<0.5	<0.5	<0.5	<0.5
Chromium**	(mg/kg)	83500	165	2	72.8	0		13.1	15.3	13	13	9
Lead**	(mg/kg)	1340	165	1	1206.8	0		7.1	6.3	10	8	7
Mercury**	(mg/kg)	61.2	165	<0.5	3.44	0		<0.5	<0.5	<0.5	<0.5	<0.5
Nickel**	(mg/kg)	804	165	1.9	146.98	0		7.6	7.9	6.9	12.6	5
Copper**	(mg/kg)	45200	165	<1	256.91	0		3	2.8	6.8	7.9	3.5
Zinc**	(mg/kg)	201000	165	5.9	1220.3	0		18.6	25.8	32.6	23.1	22.2
Selenium	(mg/kg)	2550	165	<0.5	3.57	0		<0.5	<0.5	<0.5	<0.5	<0.5
Hexavalent Chromium	(mg/kg)	251	165	<2	<2	0		<2	<2	<2	<2	<2
Water Soluble Boron	(mg/kg)	No SSV	165	<0.5	12.1	0		<0.5	<0.5	0.5	1.5	<0.5
Inorganics												
pH Value**	(Units)	No SSV	165	4.3	11.2	0		8.95	8.45	7.1	11.05	8.6
Total Sulphate	(% as SO4)	No SSV	165	<0.05	0.59	0		0.08	0.06	0.08	0.14	0.07
Total Cyanide**	(mg/kg)	No SSV	165	<1	4.78	0		<1	<1	<1	<1	<1
Sulphide	(mg/kg)	No SSV	165	<2	88	0		<2	<2	<2	<2	<2
Elemental Sulphur**	(mg/kg)	No SSV	165	<10	414.72	0		<10	<10	<10	<10	<10
Total Monohydric Phenols**	(mg/kg)	No SSV	165	<1	1.3	0		<1	<1	<1	<1	<1
PAHs												
Naphthalene**	(mg/kg)	623	165	<0.1	<0.1	0		<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene**	(mg/kg)	No SSV	165	<0.1	0.9	0		<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene**	(mg/kg)	28600	165	<0.1	<0.1	0		<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene**	(mg/kg)	19600	165	<0.1	0.11	0		<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene**	(mg/kg)	No SSV	165	<0.1	0.97	0		<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene**	(mg/kg)	150000	165	<0.1	0.45	0		<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene**	(mg/kg)	20200	165	<0.1	2.69	0		<0.1	0.1	<0.1	<0.1	<0.1
Pyrene**	(mg/kg)	15100	165	<0.1	2.06	0		<0.1	0.1	<0.1	<0.1	<0.1
Benz(a)anthracene**	(mg/kg)	No SSV	165	<0.1	1.52	0		<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene**	(mg/kg)	4660	165	<0.1	1.52	0		<0.1	0.1	<0.1	<0.1	<0.1
Benzo(b)fluoranthene**	(mg/kg)	BaP Surrogate	165	<0.1	0.91	0		<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene**	(mg/kg)	BaP Surrogate	165	<0.1	1.32	0		<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene**	(mg/kg)	21.4	165	<0.1	1.31	0		<0.1	0.1	<0.1	<0.1	<0.1
Indeno(123-cd)pyrene**	(mg/kg)	BaP Surrogate	165	<0.1	0.8	0		<0.1	<0.1	<0.1	<0.1	<0.1
Dibenz(ah)anthracene**	(mg/kg)	BaP Surrogate	165	<0.1	0.21	0		<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene**	(mg/kg)	BaP Surrogate	165	<0.1	0.89	0		<0.1	<0.1	<0.1	<0.1	<0.1
Total PAH**	(mg/kg)	No SSV	165	<0.1	14.72	0		<0.1	0.4	<0.1	<0.1	<0.1
TPH Aromatic												
TPH Aromatic C5-C7	(mg/kg)	139	165	<0.01	<0.01	0		<0.01	<0.01	<0.01	<0.01	<0.01
TPH Aromatic C7-C8	(mg/kg)	69900	165	<0.01	<0.01	0		<0.01	<0.01	<0.01	<0.01	<0.01
TPH Aromatic C8-C10	(mg/kg)	5140	165	<0.1	0.4	0		0.1	<0.1	<0.1	<0.1	<0.1
TPH aromatic C10-C12	(mg/kg)	8260	165	<0.1	0.22	0		<0.1	<0.1	<0.1	<0.1	<0.1
TPH Aromatic C12-C16	(mg/kg)	10600	165	<0.1	5.83	0		<0.1	<0.1	<0.1	<0.1	<0.1
TPH Aromatic C16-C21	(mg/kg)	7870	165	<0.1	19.85	0		<0.1	1.41	<0.1	<0.1	0.33
TPH Aromatic C21-C35	(mg/kg)	7870	165	<-68.01	42.05	0		0.57	24.77	0.25	0.93	0.37
TPH Aliphatic												
TPH Aliphatic C5-C6	(mg/kg)	109000	165	<0.01	0.03	0		<0.01	<0.01	<0.01	<0.01	<0.01
TPH Aliphatic C6-C8	(mg/kg)	163000	165	<0.01	<0.1	0		<0.01	<0.01	<0.01	<0.01	<0.01
TPH Aliphatic C8-C10	(mg/kg)	9720	165	<0.1	0.15	0		<0.1	<0.1	<0.1	<0.1	<0.1
TPH Aliphatic C10-C12	(mg/kg)	17700	165	<0.1	0.52	0		<0.1	<0.1	<0.1	<0.1	<0.1
TPH Aliphatic C12-C16	(mg/kg)	23800	165	<0.1	5.62	0		<0.1	<0.1	<0.1	0.12	<0.1
TPH Aliphatic C16-C21	(mg/kg)	864000	165	<0.1	47.96	0		<0.1	1.8	<0.1	0.55	0.76
TPH Aliphatic C21-C35	(mg/kg)	864000	165	<-143.07	46.2	0		0.57	42.78	0.53	1.83	0.15
TPH (C5 - C35)	(mg/kg)	No SSV	161	<-271.4	70.86	0		1.26	70.86	0.78	3.42	1.61
Asbestos	% / type	Any	50	Not Detected	Present	49		-	-	-	-	none
VOCs		No SSV	11	<10	<10	0		-	-	-	-	<10
Benzene**	(µg/kg)	139	61	<10	<10	0		-	-	-	-	<10
Toluene**	(µg/kg)	69900	61	<10	<10	0		-	-	-	-	<10
Ethyl Benzene**	(µg/kg)	21400	61	<10	16.19	0		-	-	-	-	<10
mpXylene**	(µg/kg)	No SSV	59	<10	15.07	0		-	-	-	-	<10
oXylene**	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	<10
1, 2-Dichloroethene-cis**	(µg/kg)	No SSV	48	<10	14.88	0		-	-	-	-	<10
1, 1-Dichloroethane**	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	<10
Chloroform**	(µg/kg)	2090	48	<10	12	0		-	-	-	-	<10
Carbontetrachloride**	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	<10
1, 1, 1-Trichloroethane**	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	<10
Trichloroethylene**	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	<10
Tetrachloroethylene**	(µg/kg)	No SSV	48	<10	12.34	0		-	-	-	-	<10
1, 1, 1, 2-Tetrachloroethane**	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	<10
1, 1, 2, 2-Tetrachloroethane**	(µg/kg)	No SSV	39	<10	<10	0						
Chlorobenzene**	(µg/kg)	13200	48	<10	<10	0		-	-	-	-	<10
Bromobenzene**	(µg/kg)	986	48	<10	12.55	0		-	-	-	-	<10
Bromodichloromethane**	(µg/kg)	33.9	48	<10	<10	0		-	-	-	-	<10
Methylethylbenzene**	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	<10
1, 1-Dichloro-1-propene**	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	<10
1, 2-Dichloroethene-trans	(µg/kg)	No SSV	48	<10	37.36	0		-	-	-	-	<10
2, 2-Dichloropropane	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	<10
Bromochloromethane	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	<10
1, 2-Dichloroethane	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	<10
Dibromomethane**	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	<10
1, 2-Dichloropropane**	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	<10
1, 3-Dichloro1propene**	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	<10
1, 3-Dichloro1propene trans	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	<10
1, 1, 2-Trichloroethane	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	<10
Dibromochloromethane	(µg/kg)	231	48	<10	<10	0		-	-	-	-	<10
1, 3-Dichloropropane	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	<10
Dibromoethane**	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	<10
Styrene	(µg/kg)	5640	48	<10	<10	0		-	-	-	-	<10
Propylbenzene	(µg/kg)	27500	48	<10	<10	0		-	-	-	-	<10
2-Chlorotoluene	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	<10
1, 2, 4-Trimethylbenzene	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	<10
4-Chlorotoluene	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	<10
t-Butylbenzene	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	<10
Trimethylbenzene	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	<10
1-Methylpropylbenzene	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	<10
o-Cymene	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	<10
1, 4-Dichlorobenzene	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	<10
Butylbenzene	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	<10
1, 2-Dibromo-3-chloropropane	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	<10
Hexachlorobutaciene	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	<10
1, 2, 3-Trichlorobenzene	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	<10
1, 2, 4-Trichlorobenzene	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	<10
1, 3-Dichlorobenzene	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	<10
1, 2-Dichlorobenzene	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	<10
Bromoform	(µg/kg)	2910	48	<10	<10	0		-	-	-	-	<10
Vinyl Chloride	(µg/kg)	3.68	37	<10	<10	0		-	-	-	-	<10
SVOCs												
Pyridine	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	<10
Aniline	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	<10
Phenol	(µg/kg)	685	48	<10	20.37	0		-	-	-	-	<10
Bis(2-chloroethyl) ether	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	<10
Benzene, 1,3-dichloro-	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	<10
Benzene, 1,4-dichloro-	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	<10
Benzene, 1,2-dichloro-	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	<10
Phenol, 2-methyl-	(µg/kg)	No SSV	48	<10	22.46	0		-	-	-	-	<10
Ethane, hexachloro-	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	<10
Phenol, 3-methyl-	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	<10
Nitrobenzene	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	<10
Isophorone	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	<10
Phenol, 2-nitro-	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	<10
Phenol, 2,4-dimethyl-	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	<10
Methane, bis(2-chloroethoxy)-	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	<10
Phenol, 2,4-dichloro-	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	<10
1,3,4-Trichlorobenzene,	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	<10
Naphthalene	(µg/kg)	623	4	<10	<10	0		-	-	-	-	-
4-Chloroaniline	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	<10
Hexachloro-1,3-butadiene	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	<10
Phenol, 4-chloro-3-methyl-	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	<10
Naphthalene, 2-methyl-	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	<10
Naphthalene, 1-methyl-	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	<10
Hexachlorocyclopentadiene	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	<10
Phenol, 2,4,6-trichloro-	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	<10
Phenol, 2,4,5-trichloro-	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	<10
Naphthalene, 2-chloro-	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	<10
2-Nitroaniline	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	<10
1,4-Dinitrobenzene,	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	<10
Dimethylphthalate	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	<10
Acenaphthylene	(µg/kg)	No SSV	4	<10	<10	0		-	-	-	-	-
1.3-Dinitrobenzene	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	<10
3-Nitroaniline	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	<10
Acenaphthene	(µg/kg)	28600	4	<10	<10	0		-	-	-	-	-
Dibenzofuran	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	<10
2,4-Dinitrotoluene	(µg/kg)	973	48	<10	<10	0		-	-	-	-	<10
2,3,4,6-Tetrachlorophenol,	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	<10

Constituent	TP4 ES4	TP4 ES5	TP6 ES1	TP6 ES2	TP7 ES3	TP8 ES2	TP8 ES4	TP9 ES2	TP9 ES3	TP12 ES2	TP12 ES3	TP13 ES1	TP14 ES2	TP14 ES3	TP15 ES4	TP17 ES2	TP17 ES3	TP18 ES2	TP19 ES1	TP20 ES1
Depth	2.20 - 2.60	3.50 - 3.60	0.7 - 0.8	1.2 - 1.3	1.5 - 1.6	0.5 - 0.6	2.5 - 2.6	0.50 - 0.60	1.50 - 1.60	0.8 - 0.9	1.7 - 1.8	0 - 0.2	0.5 - 0.6	1.1 - 1.2	2.5 - 2.5	0.5 - 0.6	1.4 - 1.5	0.5 - 0.6	0.4 - 0.5	GL - 0.2
Stone Content	19	16	21	11	14	<1	4	2	13	<1	5	<1	<1	<1	13	4	7	10	<1	9
Metals/Metalloids																				
Arsenic**	17.4	15.7	19.3	20.1	19	44.1	9.1	45	29.4	32.6	54.8	37.5	8.6	13.5	20.3	34.5	25.3	50.8	77.4	16.4
Cadmium**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium**	14	13	12	8	9	12	5	16	16	15	14	27	5	6	7	10	6	13	18	7
Lead**	8	8	8	5	7	6	15	7	11	8	7	19	3	3	4	8	5	7	6	6
Mercury**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Nickel**	8.2	7.9	7.8	5.6	6.1	6.9	3.1	8.3	9.5	9	8.3	18.1	2.8	3.3	4.5	6.5	4.9	6.8	10.6	5.8
Copper**	4.6	5.1	7.8	5.1	4.5	4.2	3.9	3.4	5.9	4.3	3.2	7	2.2	2.6	3.5	3.9	2.9	3.6	23.6	5.8
Zinc**	29.2	26.5	28.4	26.1	22.9	31.2	21.6	28.8	5.9	34.2	29.8	44.3	17.6	19.1	32.2	30	23.7	25.6	77.8	28
Selenium	<0.5	<0.5	<0.5	0.53	<0.5	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.9	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.65	<0.5
Hexavalent Chromium	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Water Soluble Boron	1.1	1.1	1.1	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	<0.5	<0.5	0.6
Inorganics																				
pH Value**	9.45	11	10.2	9.8	11.1	8.81	7.4	8.14	8.62	8.28	8.35	8.18	8.7	8.43	9.5	8.11	8.13	8.36	8.07	8.1
Total Sulphate	0.07	0.08	0.06	0.09	0.07	0.06	<0.05	0.09	0.08	0.09	0.13	0.14	0.06	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.06
Total Cyanide**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Sulphide	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Elemental Sulphur**	<10	<10	<10	39	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Total Monohydric Phenols**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
PAHs																				
Naphthalene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene**	<0.1	0.11	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene**	<0.1	0.11	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benz(a)anthracene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b)fluoranthene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(123-cd)pyrene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenz(ah)anthracene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total PAH**	<0.1	0.22	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TPH Aromatic																				
TPH Aromatic C5-C7	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH Aromatic C7-C8	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH Aromatic C8-C10	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TPH aromatic C10-C12	<0.1	<0.1	0.13	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TPH Aromatic C12-C16	<0.1	<0.1	1.15	0.14	<0.1	<0.1	<0.1	<0.1	<0.1	0.12	0.11	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TPH Aromatic C16-C21	<0.1	0.98	2.85	0.51	0.37	0.31	0.39	0.14	<0.1	0.17	0.21	0.11	0.2	0.22	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TPH Aromatic C21-C35	0.23	3.36	7.27	5.62	0.67	0.54	0.58	0.18	<0.1	0.59	0.38	0.32	0.54	<0.1	3.42	<0.1	<0.1	0.18	2.03	0.93
TPH Aliphatic																				
TPH Aliphatic C5-C6	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH Aliphatic C6-C8	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH Aliphatic C8-C10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TPH Aliphatic C10-C12	<0.1	<0.1	0.52	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TPH Aliphatic C12-C16	<0.1	<0.1	2.65	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.13	0.11	<0.1	<0.1
TPH Aliphatic C16-C21	<0.1	0.6	3.64	0.36	0.79	0.63	0.73	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TPH Aliphatic C21-C35	0.81	3.8	12.92	3.8	0.86	0.35	0.19	0.55	1.86	<0.1	0.13	0.54	<0.1	<0.1	2.01	0.76	0.43	1.56	0.52	0.18
TPH (C5 - C35)	1.05	8.74	31.23	10.62	2.69	1.83	1.89	0.87	1.86	0.88	0.83	0.97	0.75	0.22	5.43	0.76	0.55	1.8	2.56	1.11
Asbestos	-	-	none	-	none	none	-	none	-	none	-	-	none	-	none	none	-	-	None	none
VOCs	<10	<10	<10	-	-	<10	<10	<10	<10	<10	-	-	<10	-	-					
Benzene**	<10	<10	<10	-	-	<10	<10	<10	<10	<10	-	-	<10	-	-	<10	-	-	<10	-
Toluene**	<10	<10	<10	-	-	<10	<10	<10	<10	<10	-	-	<10	-	-	<10	-	-	<10	-
Ethyl Benzene**	<10	<10	<10	-	-	<10	<10	<10	<10	<10	-	-	<10	-	-	<10	-	-	<10	-
mpXylene**	<10	<10	<10	-	-	<10	<10	<10	<10	<10	-	-	<10	-	-	<10	-	-	<10	-
oXylene**	<10	<10	<10	-	-	<10		<10		<10	-	-	<10	-	-	<10	-	-	<10	-
1, 2-Dichloroethene-cis**	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-
1, 1-Dichloroethane**	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-
Chloroform**	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-
Carbontetrachloride**	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-
1, 1, 1-Trichloroethane**	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-
Trichloroethylene**	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-
Tetrachloroethylene**	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-
1, 1, 1, 2-Tetrachloroethane**	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-
1, 1, 2, 2-Tetrachloroethane**																<10	-	-	<10	-
Chlorobenzene**	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-
Bromobenzene**	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-
Bromodichloromethane**	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-
Methylethylbenzene**	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-
1, 1-Dichloro-1-propene**	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-
1, 2-Dichloroethene-trans	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-
2, 2-Dichloropropane	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-
Bromochloromethane	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-
1, 2-Dichloroethane	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-
Dibromomethane**	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-
1, 2-Dichloropropane**	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-
1, 3-Dichloro1propene**	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-
1, 3-Dichloro1propene trans	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-
1, 1, 2-Trichloroethane	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-
Dibromochloromethane	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-
1, 3-Dichloropropane	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-
Dibromoethane**	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-
Styrene	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-
Propylbenzene	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-
2-Chlorotoluene	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-
1, 2, 4-Trimethylbenzene	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-
4-Chlorotoluene	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-
t-Butylbenzene	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-
Trimethylbenzene	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-
1-Methylpropylbenzene	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-
o-Cymene	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-
1, 4-Dichlorobenzene	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-
Butylbenzene	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-
1, 2-Dibromo-3-chloropropane	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-
Hexachlorobutaciene	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-
1, 2, 3-Trichlorobenzene	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-
1, 2, 4-Trichlorobenzene	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-
1, 3-Dichlorobenzene	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-
1, 2-Dichlorobenzene	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-
Bromoform	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-
Vinyl Chloride	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	-	-	-	<10	-	-	<10	-
SVOCs																				
Pyridine	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-
Aniline	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-
Phenol	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-
Bis(2-chloroethyl) ether	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-
Benzene, 1,3-dichloro-	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-
Benzene, 1,4-dichloro-	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-
Benzene, 1,2-dichloro-	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-
Phenol, 2-methyl-	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-
Ethane, hexachloro-	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-
Phenol, 3-methyl-	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-
Nitrobenzene	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-
Isophorone	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-
Phenol, 2-nitro-	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-
Phenol, 2,4-dimethyl-	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-
Methane, bis(2-chloroethoxy)-	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-
Phenol, 2,4-dichloro-	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-
1,3,4-Trichlorobenzene,	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-
Naphthalene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloroaniline	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-
Hexachloro-1,3-butadiene	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-
Phenol, 4-chloro-3-methyl-	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-
Naphthalene, 2-methyl-	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-
Naphthalene, 1-methyl-	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-
Hexachlorocyclopentadiene	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-
Phenol, 2,4,6-trichloro-	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-
Phenol, 2,4,5-trichloro-	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-
Naphthalene, 2-chloro-	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-
2-Nitroaniline	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-
1,4-Dinitrobenzene,	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-
Dimethylphthalate	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-
Acenaphthylene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.3-Dinitrobenzene	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-
3-Nitroaniline	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-
Acenaphthene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-
2,4-Dinitrotoluene	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-
2,3,4,6-Tetrachlorophenol,	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-

Constituent	TP20 ES2	TP21 ES2	TP21 ES3	TP22 ES2	TP22 ES3	TP23 ES1	TP25 ES1	TP25 ES2	TP26 ES2D	TP27 ES2	TP28 ES1	TP28 ES4	TP29 ES2	TP29 ES3	TP30 ES2	TP32 ES1	TP33 ES2	TP33 ES3	TP34 ES2
Depth	0.4 - 0.5	0.5 - 0.6	1.5 - 1.6	0.50 - 0.60	1.50 - 1.60	GL - 0.2	0.4 - 0.5	1.8 - 1.9	0.8 - 0.9	0.7 - 0.8	GL - 0.20	2.50 - 2.60	0.7 - 0.8	1.2 - 1.3	0.5 - 0.6	0.4 - 0.5	0.5 - 0.6	1.4 - 1.5	0.5 - 0.6
Stone Content	40	<1	<1	13	<1	19	<1	<1	-	<1	16	15	<1	<1	2	10	2	13	17
Metals/Metalloids																			
Arsenic**	14.3	15.9	13.5	9.7	72.2	11.4	38.1	28.3	-	46	12.1	18.3	35	13.6	32.5	31.1	39.1	25.7	8.7
Cadmium**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium**	12	6	15	5	25.9	5	8	8	-	13	6	9	9	7	9	8	10	10	6
Lead**	5	3	11	6	9	7	4	5	-	6	9	7	4	3	14	4	8	5	6
Mercury**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Nickel**	7.1	3.3	9.8	2.8	13.3	4	5.3	6.1	-	7.6	3.8	5.3	5.1	3.7	7.2	4.7	8.7	5.7	3.7
Copper**	5.3	2.3	5.9	2.3	6.5	3.4	3.7	4.6	-	5.4	2.6	2.5	2.7	2.6	5.4	3.1	4.7	3.1	2.6
Zinc**	21	19.9	37.5	12.7	62.1	21.4	28.5	30.8	-	38	12.8	16.3	29.4	21.6	36.9	24.7	32.2	22.5	15.4
Selenium	<0.5	<0.5	0.5	<0.5	0.74	<0.5	<0.5	<0.5	-	0.72	<0.5	<0.5	0.59	<0.5	1.1	<0.5	<0.5	0.52	0.73
Hexavalent Chromium	<2	<2	<2	<2	<2	<2	<2	<2	-	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Water Soluble Boron	2.1	<0.5	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	-	0.67	<0.5	<0.5	<0.5	<0.5	1.6	<0.5	<0.5	<0.5	0.5
Inorganics																			
pH Value**	8.06	8.66	8.41	8.29	7.32	7.97	8.38	7.96	-	7.65	7.99	8.26	8	8.13	7.81	8.49	8.2	9.64	6.48
Total Sulphate	0.12	0.08	0.13	0.08	0.23	<0.05	<0.05	0.15	-	0.29	0.08	0.09	0.21	0.11	0.13	<0.05	<0.05	<0.05	<0.05
Total Cyanide**	<1	<1	<1	<1	<1	<1	<1	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Sulphide	27.1	<2	<2	<2	<2	<2	<2	6	-	<2	<2	<2	<2	27.3	<2	<2	<2	11.4	<2
Elemental Sulphur**	20	<10	<10	<10	<10	<10	<10	<10	-	74.75	<10	<10	<10	108	19.22	<10	27.2	29.4	<10
Total Monohydric Phenols**	<1	<1	<1	<1	<1	<1	<1	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
PAHs																			
Naphthalene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benz(a)anthracene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b)fluoranthene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(123-cd)pyrene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenz(ah)anthracene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total PAH**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TPH Aromatic																			
TPH Aromatic C5-C7	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH Aromatic C7-C8	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH Aromatic C8-C10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TPH aromatic C10-C12	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TPH Aromatic C12-C16	<0.1	0.12	<0.1	<0.1	<0.1	0.31	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	5.83	0.16
TPH Aromatic C16-C21	<0.1	0.22	0.11	<0.1	<0.1	0.41	<0.1	0.12	-	0.11	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.11	19.85	0.39
TPH Aromatic C21-C35	<0.1	<0.1	<0.1	<0.1	0.13	<0.1	<0.1	<0.1	-	1.91	<0.1	<0.1	<0.1	1.1	1.7	7.59	<0.1	42.05	0.62
TPH Aliphatic																			
TPH Aliphatic C5-C6	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH Aliphatic C6-C8	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH Aliphatic C8-C10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	0.15	<0.1	<0.1	<0.1	<0.1
TPH Aliphatic C10-C12	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TPH Aliphatic C12-C16	<0.1	0.12	0.14	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	0.12	<0.1	<0.1	<0.1	<0.1	5.62	<0.1
TPH Aliphatic C16-C21	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	0.1	<0.1	0.18	<0.1	<0.1	7.94	<0.1
TPH Aliphatic C21-C35	0.18	1.5	1.5	0.54	0.26	0.18	0.16	<0.1	-	0.59	0.12	0.65	<0.1	<0.1	3.15	2.48	<0.1	29.55	0.3
TPH (C5 - C35)	0.18	1.96	1.75	0.54	0.4	0.9	0.16	0.12	-	2.61	0.12	0.65	0.22	1.1	5.18	10.07	0.11	-110.85	1.48
Asbestos	-	-	-	none	-	-	-	-	None	-	-	-	-	none	-	-	none	-	none
VOCs																			
Benzene**	-	-	-	<10	<10	-	<10	<10	-	-	<10	<10	<10	-	-	-	<10	-	<10
Toluene**	-	-	-	<10	<10	-	<10	<10	-	-	<10	<10	<10	-	-	-	<10	-	<10
Ethyl Benzene**	-	-	-	<10	<10	-	<10	<10	-	-	<10	<10	<10	-	-	-	<10	-	<10
mpXylene**	-	-	-	<10	<10	-	<10	<10	-	-	<10	<10	<10	-	-	-	<10	-	<10
oXylene**	-	-	-	<10		-	<10	<10	-	-			<10	-	-	-	<10	-	<10
1, 2-Dichloroethene-cis**	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
1, 1-Dichloroethane**	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Chloroform**	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Carbontetrachloride**	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
1, 1, 1-Trichloroethane**	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Trichloroethylene**	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Tetrachloroethylene**	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
1, 1, 1, 2-Tetrachloroethane**	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
1, 1, 2, 2-Tetrachloroethane**	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Chlorobenzene**	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Bromobenzene**	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Bromodichloromethane**	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Methylethylbenzene**	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
1, 1-Dichloro-1-propene**	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
1, 2-Dichloroethene-trans	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
2, 2-Dichloropropane	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Bromochloromethane	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
1, 2-Dichloroethane	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Dibromomethane**	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
1, 2-Dichloropropane**	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
1, 3-Dichloro1propene**	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
1, 3-Dichloro1propene trans	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
1, 1, 2-Trichloroethane	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Dibromochloromethane	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
1, 3-Dichloropropane	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Dibromoethane**	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Styrene	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Propylbenzene	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
2-Chlorotoluene	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
1, 2, 4-Trimethylbenzene	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
4-Chlorotoluene	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
t-Butylbenzene	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Trimethylbenzene	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
1-Methylpropylbenzene	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
o-Cymene	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
1, 4-Dichlorobenzene	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Butylbenzene	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
1, 2-Dibromo-3-chloropropane	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Hexachlorobutaciene	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
1, 2, 3-Trichlorobenzene	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
1, 2, 4-Trichlorobenzene	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
1, 3-Dichlorobenzene	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
1, 2-Dichlorobenzene	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Bromoform	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Vinyl Chloride	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
SVOCs																			
Pyridine	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Aniline	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Phenol	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	20.37	-	<10
Bis(2-chloroethyl) ether	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Benzene, 1,3-dichloro-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Benzene, 1,4-dichloro-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Benzene, 1,2-dichloro-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Phenol, 2-methyl-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	22.46	-	<10
Ethane, hexachloro-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Phenol, 3-methyl-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Nitrobenzene	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Isophorone	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Phenol, 2-nitro-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Phenol, 2,4-dimethyl-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Methane, bis(2-chloroethoxy)-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Phenol, 2,4-dichloro-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
1,3,4-Trichlorobenzene,	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Naphthalene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloroaniline	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Hexachloro-1,3-butadiene	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Phenol, 4-chloro-3-methyl-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Naphthalene, 2-methyl-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Naphthalene, 1-methyl-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Hexachlorocyclopentadiene	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Phenol, 2,4,6-trichloro-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Phenol, 2,4,5-trichloro-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Naphthalene, 2-chloro-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
2-Nitroaniline	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
1,4-Dinitrobenzene,	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Dimethylphthalate	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Acenaphthylene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.3-Dinitrobenzene	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
3-Nitroaniline	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Acenaphthene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
2,4-Dinitrotoluene	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
2,3,4,6-Tetrachlorophenol,	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10

ATKINS

Assessment Criteria :	Public Open Space (Parks) - 1% SOM Sand
Use MRL Values?	

stituent		eric essment eria (mg/kg)	nber of nples	imum Value	imum Value	nber of eedences	Locations of Exceedences	Sample ID		TP1 ES3	TP1 ES4	TP2 ES1	TP2 ES3	TP3 ES2	TP4 ES4	TP4 ES5	TP6 ES1	TP6 ES2	TP7 ES3	TP8 ES2	TP8 ES4	TP9 ES2	TP9 ES3	TP12 ES2	TP12 ES3	TP13 ES1	TP14 ES2	TP14 ES3	TP15 ES4	TP17 ES2	TP17 ES3	TP18 ES2	TP19 ES1	TP20 ES1	TP20 ES2	TP21 ES2	TP21 ES3	TP22 ES2	TP22 ES3	TP23 ES1	TP25 ES1	TP25 ES2	TP26 ES2D	TP27 ES2	TP28 ES1	TP28 ES4	TP29 ES2	TP29 ES3	TP30 ES2	TP32 ES1	TP33 ES2	TP33 ES3	TP34 ES2
								Depth		1.5 - 1.6	2.5 - 2.6	GL - 0.2	1.0 - 1.1	0.5 - 0.6	2.20 - 2.60	3.50 - 3.60	0.7 - 0.8	1.2 - 1.3	1.5 - 1.6	0.5 - 0.6	2.5 - 2.6	0.50 - 0.60	1.50 - 1.60	0.8 - 0.9	1.7 - 1.8	0 - 0.2	0.5 - 0.6	1.1 - 1.2	2.5 - 2.5	0.5 - 0.6	1.4 - 1.5	0.5 - 0.6	0.4 - 0.5	GL - 0.2	0.4 - 0.5	0.5 - 0.6	1.5 - 1.6	0.50 - 0.60	1.50 - 1.60	GL - 0.2	0.4 - 0.5	1.8 - 1.9	0.8 - 0.9	0.7 - 0.8	GL - 0.20	2.50 - 2.60	0.7 - 0.8	1.2 - 1.3	0.5 - 0.6	0.4 - 0.5	0.5 - 0.6	1.4 - 1.5	0.5 - 0.6
								Strata																																													
2,3,5,6-Tetrachlorophenol,	(µg/kg)	No SSV	48	<10	<10	0				-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Diethylphthalate	(µg/kg)	No SSV	48	<10	111.87	0				-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	111.87	-	-	<10	-	-	<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Fluorene	(µg/kg)	19600	4	<10	<10	0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Diphenylamine	(µg/kg)	No SSV	48	<10	<10	0				-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Azobenzene	(µg/kg)	No SSV	48	<10	<10	0				-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
4-Bromophenyl phenyl ether	(µg/kg)	No SSV	48	<10	<10	0				-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Hexachlorobenzene	(µg/kg)	No SSV	48	<10	<10	0				-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Pentachlorophenol	(µg/kg)	No SSV	48	<10	<10	0				-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Phenanthrene	(µg/kg)	No SSV	4	<10	<10	0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	(µg/kg)	150000	4	<10	<10	0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	(µg/kg)	20200	4	<10	<10	0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	(µg/kg)	15100	4	<10	<10	0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzylbutylphthalate	(µg/kg)	No SSV	48	<10	<10	0				-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Bis(2-ethylhexyl)adipate	(µg/kg)	No SSV	48	<10	<10	0				-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Benzo(a)anthracene	(µg/kg)	BaP Surrogate	4	<10	<10	0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	(µg/kg)	4660	4	<10	<10	0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bis(2-ethylhexyl)phthalate	(µg/kg)	No SSV	48	<10	<10	0				-	-	-	-	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	-	-	<10	-	-	<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	<10	-	-	-	<10	-	<10
Benzo(b)fluoranthene	(µg/kg)	BaP Surrogate	4	<10	<10	0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	(µg/kg)	BaP Surrogate	4	<10	<10	0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	(µg/kg)	21.4	4	<10	<10	0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeno[1,2,3-cd]pyrene	(µg/kg)	BaP Surrogate	4	<10	<10	0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenz(ah)anthracene	(µg/kg)	BaP Surrogate	4	<10	<10	0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(ghi)perylene	(µg/kg)	BaP Surrogate	4	<10	<10	0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCBs																																																					
PCB 28**	(µg/kg)	No SSV	12	<10	<10	0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10
PCB 52**	(µg/kg)	No SSV	12	<10	<10	0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10
PCB 101**	(µg/kg)	No SSV	12	<10	<10	0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10
PCB 118**	(µg/kg)	No SSV	12	<10	<10	0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10
PCB 138**	(µg/kg)	No SSV	12	<10	<10	0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10
PCB 153**	(µg/kg)	No SSV	12	<10	<10	0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10
PCB 180**	(µg/kg)	No SSV	12	<10	<10	0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10
OCPs																																																					
Alpha BHC**	(µg/kg)	No SSV	5	<10	<10	0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beta BHC**	(µg/kg)	No SSV	5	<10	<10	0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gamma BHC**	(µg/kg)	No SSV	5	<10	<10	0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Delta BHC**	(µg/kg)	No SSV	5	<10	<10	0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Heptachlor	(µg/kg)	No SSV	5	<10	<10	0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aldrin	(µg/kg)	No SSV	5	<10	<10	0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Heptachlor epoxide	(µg/kg)	No SSV	5	<10	<10	0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlordane	(µg/kg)	No SSV	5	<10	<10	0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endosulfan I	(µg/kg)	No SSV	5	<10	<10	0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
cis-Chlordane	(µg/kg)	No SSV	5	<10	<10	0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pp-DDE**	(µg/kg)	No SSV	5	<10	<10	0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dieldrin	(µg/kg)	No SSV	5	<10	<10	0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endrin	(µg/kg)	No SSV	5	<10	<10	0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pp-DDD**	(µg/kg)	No SSV	5	<10	<10	0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endrin Aldehyde	(µg/kg)	No SSV	5	<10	<10	0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pp DDT**	(µg/kg)	No SSV	5	<10	<10	0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endosulfan II	(µg/kg)	No SSV	5	<10	<10	0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endrin Ketone	(µg/kg)	No SSV	5	<10	<10	0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pp-Methoxychlor	(µg/kg)	No SSV	5	<10	<10	0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OPPs																																																					
Mevinphos	(µg/kg)	No SSV	1	<10	<10	0				-	-	-	-	-			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dimethoate	(µg/kg)	No SSV	1	<10	<10	0				-	-	-	-	-			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Propetamphos	(µg/kg)	No SSV	1	<10	<10	0				-	-	-	-	-			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloropyriphos-methyl	(µg/kg)	No SSV	1	<10	<10	0				-	-	-	-	-			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fenitrithion	(µg/kg)	No SSV	1	<10	<10	0				-	-	-	-	-			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Malathion	(µg/kg)	No SSV	1	<10	<10	0				-	-	-	-	-			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Parathion	(µg/kg)	No SSV	1	<10	<10	0				-	-	-	-	-			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trans-Chlorfenvinphos	(µg/kg)	No SSV	1	<10	<10	0				-	-	-	-	-			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromophos	(µg/kg)	No SSV	1	<10	<10	0				-	-	-	-	-			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Triazophos	(µg/kg)	No SSV	1	<10	<10	0				-	-	-	-	-			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phosalone	(µg/kg)	No SSV	1	<10	<10	0				-	-	-	-	-			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Azinphos-methyl	(µg/kg)	No SSV	1	<10	<10	0				-	-	-	-	-			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Azinphos-ethyl	(µg/kg)	No SSV	1	<10	<10	0				-	-	-	-	-			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

ATKINS

Assessment Criteria : *Public Open Space (Parks) - 1% SOM Sand*

☐ Use MRL Values?

Constituent	Unit	Generic Assessment Criteria (mg/kg)	Number of Samples	Minimum Value	Maximum Value	Number of Exceedences	Locations of Exceedences
Stone Content	(%)	No SSV	165	<1	68	0	
Metals/Metalloids							
Arsenic**	(mg/kg)	168	165	<5	158.9	0	
Cadmium**	(mg/kg)	882	165	<0.5	2.92	0	
Chromium**	(mg/kg)	83500	165	2	72.8	0	
Lead**	(mg/kg)	1340	165	1	1206.8	0	
Mercury**	(mg/kg)	61.2	165	<0.5	3.44	0	
Nickel**	(mg/kg)	804	165	1.9	146.98	0	
Copper**	(mg/kg)	45200	165	<1	256.91	0	
Zinc**	(mg/kg)	201000	165	5.9	1220.3	0	
Selenium	(mg/kg)	2550	165	<0.5	3.57	0	
Hexavalent Chromium	(mg/kg)	251	165	<2	<2	0	
Water Soluble Boron	(mg/kg)	No SSV	165	<0.5	12.1	0	
Inorganics							
pH Value**	(Units)	No SSV	165	4.3	11.2	0	
Total Sulphate	(% as SO4)	No SSV	165	<0.05	0.59	0	
Total Cyanide**	(mg/kg)	No SSV	165	<1	4.78	0	
Sulphide	(mg/kg)	No SSV	165	<2	88	0	
Elemental Sulphur**	(mg/kg)	No SSV	165	<10	414.72	0	
Total Monohydric Phenols**	(mg/kg)	No SSV	165	<1	1.3	0	
PAHs							
Naphthalene**	(mg/kg)	623	165	<0.1	<0.1	0	
Acenaphthylene**	(mg/kg)	No SSV	165	<0.1	0.9	0	
Acenaphthene**	(mg/kg)	28600	165	<0.1	<0.1	0	
Fluorene**	(mg/kg)	19600	165	<0.1	0.11	0	
Phenanthrene**	(mg/kg)	No SSV	165	<0.1	0.97	0	
Anthracene**	(mg/kg)	150000	165	<0.1	0.45	0	
Fluoranthene**	(mg/kg)	20200	165	<0.1	2.69	0	
Pyrene**	(mg/kg)	15100	165	<0.1	2.06	0	
Benz(a)anthracene**	(mg/kg)	No SSV	165	<0.1	1.52	0	
Chrysene**	(mg/kg)	4660	165	<0.1	1.52	0	
Benzo(b)fluoranthene**	(mg/kg)	BaP Surrogate	165	<0.1	0.91	0	
Benzo(k)fluoranthene**	(mg/kg)	BaP Surrogate	165	<0.1	1.32	0	
Benzo(a)pyrene**	(mg/kg)	21.4	165	<0.1	1.31	0	
Indeno(123-cd)pyrene**	(mg/kg)	BaP Surrogate	165	<0.1	0.8	0	
Dibenz(ah)anthracene**	(mg/kg)	BaP Surrogate	165	<0.1	0.21	0	
Benzo(ghi)perylene**	(mg/kg)	BaP Surrogate	165	<0.1	0.89	0	
Total PAH**	(mg/kg)	No SSV	165	<0.1	14.72	0	
TPH Aromatic							
TPH Aromatic C5-C7	(mg/kg)	139	165	<0.01	<0.01	0	
TPH Aromatic C7-C8	(mg/kg)	69900	165	<0.01	<0.01	0	
TPH Aromatic C8-C10	(mg/kg)	5140	165	<0.1	0.4	0	
TPH aromatic C10-C12	(mg/kg)	8260	165	<0.1	0.22	0	
TPH Aromatic C12-C16	(mg/kg)	10600	165	<0.1	5.83	0	
TPH Aromatic C16-C21	(mg/kg)	7870	165	<0.1	19.85	0	
TPH Aromatic C21-C35	(mg/kg)	7870	165	<-68.01	42.05	0	
TPH Aliphatic							
TPH Aliphatic C5-C6	(mg/kg)	109000	165	<0.01	0.03	0	
TPH Aliphatic C6-C8	(mg/kg)	163000	165	<0.01	<0.1	0	
TPH Aliphatic C8-C10	(mg/kg)	9720	165	<0.1	0.15	0	
TPH Aliphatic C10-C12	(mg/kg)	17700	165	<0.1	0.52	0	
TPH Aliphatic C12-C16	(mg/kg)	23800	165	<0.1	5.62	0	
TPH Aliphatic C16-C21	(mg/kg)	864000	165	<0.1	47.96	0	
TPH Aliphatic C21-C35	(mg/kg)	864000	165	<-143.07	46.2	0	
TPH (C5 - C35)	(mg/kg)	No SSV	161	<-271.4	70.86	0	
Asbestos	% / type	Any	50	Not Detected	Present	49	
VOCs		No SSV	11	<10	<10	0	
Benzene**	(µg/kg)	139	61	<10	<10	0	
Toluene**	(µg/kg)	69900	61	<10	<10	0	
Ethyl Benzene**	(µg/kg)	21400	61	<10	16.19	0	
mpXylene**	(µg/kg)	No SSV	59	<10	15.07	0	
oXylene**	(µg/kg)	No SSV	48	<10	<10	0	
1, 2-Dichloroethene-cis**	(µg/kg)	No SSV	48	<10	14.88	0	
1, 1-Dichloroethane**	(µg/kg)	No SSV	48	<10	<10	0	
Chloroform**	(µg/kg)	2090	48	<10	12	0	
Carbontetrachloride**	(µg/kg)	No SSV	48	<10	<10	0	
1, 1, 1-Trichloroethane**	(µg/kg)	No SSV	48	<10	<10	0	
Trichloroethylene**	(µg/kg)	No SSV	48	<10	<10	0	
Tetrachloroethylene**	(µg/kg)	No SSV	48	<10	12.34	0	
1, 1, 1, 2-Tetrachloroethane**	(µg/kg)	No SSV	48	<10	<10	0	
1, 1, 2, 2-Tetrachloroethane**	(µg/kg)	No SSV	39	<10	<10	0	
Chlorobenzene**	(µg/kg)	13200	48	<10	<10	0	
Bromobenzene**	(µg/kg)	986	48	<10	12.55	0	
Bromodichloromethane**	(µg/kg)	33.9	48	<10	<10	0	
Methylethylbenzene**	(µg/kg)	No SSV	48	<10	<10	0	
1, 1-Dichloro-1-propene**	(µg/kg)	No SSV	48	<10	<10	0	
1, 2-Dichloroethene-trans	(µg/kg)	No SSV	48	<10	37.36	0	
2, 2-Dichloropropane	(µg/kg)	No SSV	48	<10	<10	0	
Bromochloromethane	(µg/kg)	No SSV	48	<10	<10	0	
1, 2-Dichloroethane	(µg/kg)	No SSV	48	<10	<10	0	
Dibromomethane**	(µg/kg)	No SSV	48	<10	<10	0	
1, 2-Dichloropropane**	(µg/kg)	No SSV	48	<10	<10	0	
1, 3-Dichloro1propene**	(µg/kg)	No SSV	48	<10	<10	0	
1, 3-Dichloro1propene trans	(µg/kg)	No SSV	48	<10	<10	0	
1, 1, 2-Trichloroethane	(µg/kg)	No SSV	48	<10	<10	0	
Dibromochloromethane	(µg/kg)	231	48	<10	<10	0	
1, 3-Dichloropropane	(µg/kg)	No SSV	48	<10	<10	0	
Dibromoethane**	(µg/kg)	No SSV	48	<10	<10	0	
Styrene	(µg/kg)	5640	48	<10	<10	0	
Propylbenzene	(µg/kg)	27500	48	<10	<10	0	
2-Chlorotoluene	(µg/kg)	No SSV	48	<10	<10	0	
1, 2, 4-Trimethylbenzene	(µg/kg)	No SSV	48	<10	<10	0	
4-Chlorotoluene	(µg/kg)	No SSV	48	<10	<10	0	
t-Butylbenzene	(µg/kg)	No SSV	48	<10	<10	0	
Trimethylbenzene	(µg/kg)	No SSV	48	<10	<10	0	
1-Methylpropylbenzene	(µg/kg)	No SSV	48	<10	<10	0	
o-Cymene	(µg/kg)	No SSV	48	<10	<10	0	
1, 4-Dichlorobenzene	(µg/kg)	No SSV	48	<10	<10	0	
Butylbenzene	(µg/kg)	No SSV	48	<10	<10	0	
1, 2-Dibromo-3-chloropropane	(µg/kg)	No SSV	48	<10	<10	0	
Hexachlorobutaciene	(µg/kg)	No SSV	48	<10	<10	0	
1, 2, 3-Trichlorobenzene	(µg/kg)	No SSV	48	<10	<10	0	
1, 2, 4-Trichlorobenzene	(µg/kg)	No SSV	48	<10	<10	0	
1, 3-Dichlorobenzene	(µg/kg)	No SSV	48	<10	<10	0	
1, 2-Dichlorobenzene	(µg/kg)	No SSV	48	<10	<10	0	
Bromoform	(µg/kg)	2910	48	<10	<10	0	
Vinyl Chloride	(µg/kg)	3.68	37	<10	<10	0	
SVOCs							
Pyridine	(µg/kg)	No SSV	48	<10	<10	0	
Aniline	(µg/kg)	No SSV	48	<10	<10	0	
Phenol	(µg/kg)	685	48	<10	20.37	0	
Bis(2-chloroethyl) ether	(µg/kg)	No SSV	48	<10	<10	0	
Benzene, 1,3-dichloro-	(µg/kg)	No SSV	48	<10	<10	0	
Benzene, 1,4-dichloro-	(µg/kg)	No SSV	48	<10	<10	0	
Benzene, 1,2-dichloro-	(µg/kg)	No SSV	48	<10	<10	0	
Phenol, 2-methyl-	(µg/kg)	No SSV	48	<10	22.46	0	
Ethane, hexachloro-	(µg/kg)	No SSV	48	<10	<10	0	
Phenol, 3-methyl-	(µg/kg)	No SSV	48	<10	<10	0	
Nitrobenzene	(µg/kg)	No SSV	48	<10	<10	0	
Isophorone	(µg/kg)	No SSV	48	<10	<10	0	
Phenol, 2-nitro-	(µg/kg)	No SSV	48	<10	<10	0	
Phenol, 2,4-dimethyl-	(µg/kg)	No SSV	48	<10	<10	0	
Methane, bis(2-chloroethoxy)-	(µg/kg)	No SSV	48	<10	<10	0	
Phenol, 2,4-dichloro-	(µg/kg)	No SSV	48	<10	<10	0	
1,3,4-Trichlorobenzene,	(µg/kg)	No SSV	48	<10	<10	0	
Naphthalene	(µg/kg)	623	4	<10	<10	0	
4-Chloroaniline	(µg/kg)	No SSV	48	<10	<10	0	
Hexachloro-1,3-butadiene	(µg/kg)	No SSV	48	<10	<10	0	
Phenol, 4-chloro-3-methyl-	(µg/kg)	No SSV	48	<10	<10	0	
Naphthalene, 2-methyl-	(µg/kg)	No SSV	48	<10	<10	0	
Naphthalene, 1-methyl-	(µg/kg)	No SSV	48	<10	<10	0	
Hexachlorocyclopentadiene	(µg/kg)	No SSV	48	<10	<10	0	
Phenol, 2,4,6-trichloro-	(µg/kg)	No SSV	48	<10	<10	0	
Phenol, 2,4,5-trichloro-	(µg/kg)	No SSV	48	<10	<10	0	
Naphthalene, 2-chloro-	(µg/kg)	No SSV	48	<10	<10	0	
2-Nitroaniline	(µg/kg)	No SSV	48	<10	<10	0	
1,4-Dinitrobenzene,	(µg/kg)	No SSV	48	<10	<10	0	
Dimethylphthalate	(µg/kg)	No SSV	48	<10	<10	0	
Acenaphthylene	(µg/kg)	No SSV	4	<10	<10	0	
1.3-Dinitrobenzene	(µg/kg)	No SSV	48	<10	<10	0	
3-Nitroaniline	(µg/kg)	No SSV	48	<10	<10	0	
Acenaphthene	(µg/kg)	28600	4	<10	<10	0	
Dibenzofuran	(µg/kg)	No SSV	48	<10	<10	0	
2,4-Dinitrotoluene	(µg/kg)	973	48	<10	<10	0	
2,3,4,6-Tetrachlorophenol,	(µg/kg)	No SSV	48	<10	<10	0	

Constituent	TP34 ES3	TP34 ES4	TP35 ES3	TP37 ES2	TP37 ES4	TP38 ES2	TP38 ES3	TP38 ES4	TP39 ES2	TP40 ES2	TP40 ES4	TP41 ES2	TP41 ES3	TP42 ES2	TP42 ES3	TP42 ES6
	1.5 - 1.6	2.5 - 2.6	1.5 - 1.6	0.8 - 0.9	2.5 - 2.7	0.5 - 0.6	1.5 - 1.6	2.5 - 2.6	0.5 - 0.6	0.5 - 0.6	2.1 - 2.2	0.5 - 0.6	1.2 - 1.3	0.5 - 0.6	1.5 - 1.6	3.9 - 4.0
Stone Content	<1	25	13	4	2	<1	<1	<1	4	<1	<1	11	<1	11	9	2
Metals/Metalloids																
Arsenic**	15.7	<5	19.8	32.9	34.3	35.1	42.4	22.8	25.9	23.7	86.5	19.6	29.3	13.9	24.1	23.7
Cadmium**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium**	6	9	8	7	8	10	7	5	7	8	19	7	6	9	10	8
Lead**	8	2	5	4	4	5	5	3	7	8	7	4	4	5	6	45
Mercury**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Nickel**	4.7	5	5.6	5.1	5.6	7.4	5.4	4.3	6	6.3	8.4	4.4	5.1	6.2	6.9	4.8
Copper**	11.7	2.2	3.8	2.7	3.3	2.9	2.5	2.3	3.2	3	9	2.3	1.6	3.8	4.8	5.8
Zinc**	36.8	8	26.6	25.9	28.2	28.2	27.1	23.4	28.5	26.4	36.8	19.3	22.7	33.1	41.6	51
Selenium	0.71	<0.5	<0.5	<0.5	<0.5	0.74	0.79	0.65	0.87	1.33	1.33	0.73	0.77	<0.5	<0.5	<0.5
Hexavalent Chromium	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Water Soluble Boron	0.7	1.2	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	0.7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1
Inorganics																
pH Value**	6.6	6.06	8.09	8.06	7.9	7.9	8.3	7.9	8.31	8.32	7.74	8.37	7.82	8.44	8.32	6.35
Total Sulphate	<0.05	<0.05	<0.05	<0.05	0.06	<0.05	<0.05	<0.05	0.12	0.11	0.3	0.07	0.07	0.06	0.07	0.16
Total Cyanide**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Sulphide	<2	<2	<2	<2	<2	5.3	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Elemental Sulphur**	121.4	11.8	<10	<10	<10	<10	<10	<10	<10	<10	66	<10	12	<10	<10	414.72
Total Monohydric Phenols**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
PAHs																
Naphthalene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.11
Pyrene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benz(a)anthracene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b)fluoranthene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(123-cd)pyrene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenz(ah)anthracene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total PAH**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.11
TPH Aromatic																
TPH Aromatic C5-C7	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH Aromatic C7-C8	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH Aromatic C8-C10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TPH aromatic C10-C12	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TPH Aromatic C12-C16	<0.1	<0.1	<0.1	<0.1	<0.1	0.18	<0.1	0.13	<0.1	<0.1	<0.1	<0.1	<0.1	0.12	<0.1	0.13
TPH Aromatic C16-C21	<0.1	<0.1	0.42	<0.1	<0.1	0.15	0.13	<0.1	<0.1	<0.1	<0.1	0.12	<0.1	0.21	0.21	0.23
TPH Aromatic C21-C35	0.72	0.74	<0.1	5.86	2.24	0.28	0.32	0.38	<0.1	0.25	<0.1	<0.1	1.36	0.19	0.19	0.97
TPH Aliphatic																
TPH Aliphatic C5-C6	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH Aliphatic C6-C8	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH Aliphatic C8-C10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TPH Aliphatic C10-C12	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TPH Aliphatic C12-C16	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.12	<0.1	0.13
TPH Aliphatic C16-C21	<0.1	<0.1	<0.1	<0.1	<0.1	0.13	0.25	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TPH Aliphatic C21-C35	0.39	<0.1	0.3	1.83	<0.1	0.43	0.54	<0.1	0.16	<0.1	<0.1	0.14	<0.1	1.14	0.96	2.32
TPH (C5 - C35)	1.11	0.74	0.71	7.69	2.24	1.17	1.25	0.51	0.16	0.25	<0.1	0.25	1.36	1.77	1.35	3.79
Asbestos	-	-	none	-	-	-	none	-	none	none	-	none	-	none	none	-
VOCs																
Benzene**	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10
Toluene**	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10
Ethyl Benzene**	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10
mpXylene**	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10
oXylene**	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10
1, 2-Dichloroethene-cis**	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10
1, 1-Dichloroethane**	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10
Chloroform**	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10
Carbontetrachloride**	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10
1, 1, 1-Trichloroethane**	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10
Trichloroethylene**	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10
Tetrachloroethylene**	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10
1, 1, 1, 2-Tetrachloroethane**	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10
1, 1, 2, 2-Tetrachloroethane**	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10
Chlorobenzene**	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10
Bromobenzene**	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10
Bromodichloromethane**	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10
Methylethylbenzene**	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10
1, 1-Dichloro-1-propene**	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10
1, 2-Dichloroethene-trans	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10
2, 2-Dichloropropane	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10
Bromochloromethane	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10
1, 2-Dichloroethane	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10
Dibromomethane**	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10
1, 2-Dichloropropane**	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10
1, 3-Dichloro1propene**	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10
1, 3-Dichloro1propene trans	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10
1, 1, 2-Trichloroethane	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10
Dibromochloromethane	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10
1, 3-Dichloropropane	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10
Dibromoethane**	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10
Styrene	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10
Propylbenzene	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10
2-Chlorotoluene	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10
1, 2, 4-Trimethylbenzene	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10
4-Chlorotoluene	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10
t-Butylbenzene	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10
Trimethylbenzene	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10
1-Methylpropylbenzene	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10
o-Cymene	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10
1, 4-Dichlorobenzene	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10
Butylbenzene	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10
1, 2-Dibromo-3-chloropropane	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10
Hexachlorobutaciene	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10
1, 2, 3-Trichlorobenzene	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10
1, 2, 4-Trichlorobenzene	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10
1, 3-Dichlorobenzene	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10
1, 2-Dichlorobenzene	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10
Bromoform	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10
Vinyl Chloride	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	-	-	-
SVOCs																
Pyridine	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10
Aniline	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10
Phenol	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10
Bis(2-chloroethyl) ether	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10
Benzene, 1,3-dichloro-	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10
Benzene, 1,4-dichloro-	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10
Benzene, 1,2-dichloro-	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10
Phenol, 2-methyl-	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10
Ethane, hexachloro-	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10
Phenol, 3-methyl-	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10
Nitrobenzene	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10
Isophorone	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10
Phenol, 2-nitro-	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10
Phenol, 2,4-dimethyl-	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10
Methane, bis(2-chloroethoxy)-	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10
Phenol, 2,4-dichloro-	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10
1,3,4-Trichlorobenzene,	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10
Naphthalene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloroaniline	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10
Hexachloro-1,3-butadiene	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10
Phenol, 4-chloro-3-methyl-	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10
Naphthalene, 2-methyl-	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10
Naphthalene, 1-methyl-	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10
Hexachlorocyclopentadiene	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10
Phenol, 2,4,6-trichloro-	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10
Phenol, 2,4,5-trichloro-	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10
Naphthalene, 2-chloro-	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10
2-Nitroaniline	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10
1,4-Dinitrobenzene,	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10
Dimethylphthalate	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10
Acenaphthylene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.3-Dinitrobenzene	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10
3-Nitroaniline	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10
Acenaphthene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10
2,4-Dinitrotoluene	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10
2,3,4,6-Tetrachlorophenol,	-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10

Constituent	TP43 ES1	TP43 ES2	TP44 ES2	TP44 ES5	TP45 ES2	TP45A ES4	TP46 ES2	TP46 ES3	TP47 ES2	TP47 ES3	TP47 ES4	TP48 ES4	TP50 ES1	TP51 ES1	TP51 ES3
	GL - 0.2	1.2 - 1.3	0.7 - 0.8	3.5 - 3.6	0.9 - 1.0	2.5 - 2.6	0.5 - 0.6	1.5 - 1.6	0.5 - 0.6	1.5 - 1.6	2.5 - 2.6	2.5 - 2.6	0.5 - 0.6	0.3 - 0.4	1.5 - 1.6
Stone Content	3	<1	4	11	<1	3	4	<1	<1	<1	5	3	13	<1	<1
Metals/Metalloids															
Arsenic**	33.5	25.1	30.7	16.8	32.3	9.9	31.6	38.3	27.1	16.6	8.4	6.1	31.5	137.8	46.8
Cadmium**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium**	9	6	12	11	12	9	8	8	7	5	5	3	6	26.2	12
Lead**	5	15	4	5	4	13	5	4	5	4	5	5	5	6	4
Mercury**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Nickel**	4.9	4	8.8	6.5	9.2	5.3	7.6	7.9	5	4.2	3.2	1.9	4	12.1	5.6
Copper**	2	1.9	2.7	3.1	3.8	2.9	3.5	2.5	3.3	3.1	2.3	1.7	7	6.7	2.3
Zinc**	22.2	22.7	21.9	17	22.4	16.2	29.3	27.6	21.9	19.7	15.1	13	20	36.5	20.5
Selenium	0.78	0.72	<0.5	<0.5	0.5	<0.5	0.77	0.8	0.65	0.77	0.75	<0.5	<0.5	1.1	<0.5
Hexavalent Chromium	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Water Soluble Boron	<0.5	<0.5	0.6	<0.5	0.6	1.1	<0.5	<0.5	<0.5	<0.5	0.5	0.5	<0.5	1.8	<0.5
Inorganics															
pH Value**	8.23	7.96	8	7.9	8.14	6.65	8.25	8	7.74	7.33	6.75	7.8	8.7	5.9	5.2
Total Sulphate	<0.05	0.06	0.07	0.05	0.06	0.07	<0.05	<0.05	0.06	<0.05	<0.05	<0.05	0.23	0.22	<0.05
Total Cyanide**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Sulphide	<2	<2	<2	<2	<2	<2	3.75	<2	<2	<2	<2	<2	<2	<2	<2
Elemental Sulphur**	<10	34.25	<10	35.9	<10	64.58	<10	<10	<10	<10	<10	<10	<10	<10	<10
Total Monohydric Phenols**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.3
PAHs															
Naphthalene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene**	<0.1	<0.1	<0.1	<0.1	<0.1	0.9	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benz(a)anthracene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b)fluoranthene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(123-cd)pyrene**	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenz(ah)anthracene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total PAH**	<0.1	<0.1	<0.1	<0.1	<0.1	1.01	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TPH Aromatic															
TPH Aromatic C5-C7	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH Aromatic C7-C8	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH Aromatic C8-C10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TPH aromatic C10-C12	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TPH Aromatic C12-C16	0.13	<0.1	<0.1	<0.1	<0.1	0.32	0.12	0.24	<0.1	<0.1	0.11	<0.1	<0.1	<0.1	<0.1
TPH Aromatic C16-C21	<0.1	<0.1	<0.1	0.48	<0.1	<0.1	0.16	0.56	<0.1	<0.1	<0.1	0.45	<0.1	<0.1	<0.1
TPH Aromatic C21-C35	0.26	0.13	0.35	2.25	0.13	0.14	0.13	1.96	2.8	0.45	<0.1	<0.1	3.9	0.39	<0.1
TPH Aliphatic															
TPH Aliphatic C5-C6	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH Aliphatic C6-C8	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH Aliphatic C8-C10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TPH Aliphatic C10-C12	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TPH Aliphatic C12-C16	<0.1	0.11	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TPH Aliphatic C16-C21	<0.1	<0.1	<0.1	1.84	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TPH Aliphatic C21-C35	<0.1	<0.1	<0.1	3.08	<0.1	<0.1	0.21	<0.1	<0.1	0.16	<0.1	<0.1	2.4	<0.1	<0.1
TPH (C5 - C35)	0.39	0.24	0.35	7.66	0.13	0.46	0.62	2.76	2.8	0.61	0.11	0.45	6.3	0.39	<0.1
Asbestos	-	none	none	-	none	-	-	none	none	-	-	-	-	none	-
VOCs															
Benzene**	-	<10	-	-	<10	-	-	<10	<10	-	-	-	-	<10	<10
Toluene**	-	<10	-	-	<10	-	-	<10	<10	-	-	-	-	<10	<10
Ethyl Benzene**	-	<10	-	-	<10	-	-	<10	<10	-	-	-	-	<10	<10
mpXylene**	-	<10	-	-	<10	-	-	<10	<10	-	-	-	-	<10	<10
oXylene**	-	<10	-	-		-	-	<10	<10	-	-	-	-	<10	
1, 2-Dichloroethene-cis**	-	<10	-	-	-	-	-	<10	<10	-	-	-	-	<10	-
1, 1-Dichloroethane**	-	<10	-	-	-	-	-	<10	<10	-	-	-	-	<10	-
Chloroform**	-	<10	-	-	-	-	-	12	<10	-	-	-	-	<10	-
Carbontetrachloride**	-	<10	-	-	-	-	-	<10	<10	-	-	-	-	<10	-
1, 1, 1-Trichloroethane**	-	<10	-	-	-	-	-	<10	<10	-	-	-	-	<10	-
Trichloroethylene**	-	<10	-	-	-	-	-	<10	<10	-	-	-	-	<10	-
Tetrachloroethylene**	-	<10	-	-	-	-	-	<10	<10	-	-	-	-	<10	-
1, 1, 1, 2-Tetrachloroethane**	-	<10	-	-	-	-	-	<10	<10	-	-	-	-	<10	-
1, 1, 2, 2-Tetrachloroethane**	-	<10	-	-	-	-	-	<10	<10	-	-	-	-	<10	-
Chlorobenzene**	-	<10	-	-	-	-	-	<10	<10	-	-	-	-	<10	-
Bromobenzene**	-	<10	-	-	-	-	-	<10	<10	-	-	-	-	<10	-
Bromodichloromethane**	-	<10	-	-	-	-	-	<10	<10	-	-	-	-	<10	-
Methylethylbenzene**	-	<10	-	-	-	-	-	<10	<10	-	-	-	-	<10	-
1, 1-Dichloro-1-propene**	-	<10	-	-	-	-	-	<10	<10	-	-	-	-	<10	-
1, 2-Dichloroethene-trans	-	<10	-	-	-	-	-	<10	<10	-	-	-	-	<10	-
2, 2-Dichloropropane	-	<10	-	-	-	-	-	<10	<10	-	-	-	-	<10	-
Bromochloromethane	-	<10	-	-	-	-	-	<10	<10	-	-	-	-	<10	-
1, 2-Dichloroethane	-	<10	-	-	-	-	-	<10	<10	-	-	-	-	<10	-
Dibromomethane**	-	<10	-	-	-	-	-	<10	<10	-	-	-	-	<10	-
1, 2-Dichloropropane**	-	<10	-	-	-	-	-	<10	<10	-	-	-	-	<10	-
1, 3-Dichloro1propene**	-	<10	-	-	-	-	-	<10	<10	-	-	-	-	<10	-
1, 3-Dichloro1propene trans	-	<10	-	-	-	-	-	<10	<10	-	-	-	-	<10	-
1, 1, 2-Trichloroethane	-	<10	-	-	-	-	-	<10	<10	-	-	-	-	<10	-
Dibromochloromethane	-	<10	-	-	-	-	-	<10	<10	-	-	-	-	<10	-
1, 3-Dichloropropane	-	<10	-	-	-	-	-	<10	<10	-	-	-	-	<10	-
Dibromoethane**	-	<10	-	-	-	-	-	<10	<10	-	-	-	-	<10	-
Styrene	-	<10	-	-	-	-	-	<10	<10	-	-	-	-	<10	-
Propylbenzene	-	<10	-	-	-	-	-	<10	<10	-	-	-	-	<10	-
2-Chlorotoluene	-	<10	-	-	-	-	-	<10	<10	-	-	-	-	<10	-
1, 2, 4-Trimethylbenzene	-	<10	-	-	-	-	-	<10	<10	-	-	-	-	<10	-
4-Chlorotoluene	-	<10	-	-	-	-	-	<10	<10	-	-	-	-	<10	-
t-Butylbenzene	-	<10	-	-	-	-	-	<10	<10	-	-	-	-	<10	-
Trimethylbenzene	-	<10	-	-	-	-	-	<10	<10	-	-	-	-	<10	-
1-Methylpropylbenzene	-	<10	-	-	-	-	-	<10	<10	-	-	-	-	<10	-
o-Cymene	-	<10	-	-	-	-	-	<10	<10	-	-	-	-	<10	-
1, 4-Dichlorobenzene	-	<10	-	-	-	-	-	<10	<10	-	-	-	-	<10	-
Butylbenzene	-	<10	-	-	-	-	-	<10	<10	-	-	-	-	<10	-
1, 2-Dibromo-3-chloropropane	-	<10	-	-	-	-	-	<10	<10	-	-	-	-	<10	-
Hexachlorobutaciene	-	<10	-	-	-	-	-	<10	<10	-	-	-	-	<10	-
1, 2, 3-Trichlorobenzene	-	<10	-	-	-	-	-	<10	<10	-	-	-	-	<10	-
1, 2, 4-Trichlorobenzene	-	<10	-	-	-	-	-	<10	<10	-	-	-	-	<10	-
1, 3-Dichlorobenzene	-	<10	-	-	-	-	-	<10	<10	-	-	-	-	<10	-
1, 2-Dichlorobenzene	-	<10	-	-	-	-	-	<10	<10	-	-	-	-	<10	-
Bromoform	-	<10	-	-	-	-	-	<10	<10	-	-	-	-	<10	-
Vinyl Chloride	-	<10	-	-	-	-	-	<10	<10	-	-	-	-	<10	-
SVOCs															
Pyridine	-	<10	-	-	-	-	-	<10	<10	-	-	-	-	<10	-
Aniline	-	<10	-	-	-	-	-	<10	<10	-	-	-	-	<10	-
Phenol	-	<10	-	-	-	-	-	<10	<10	-	-	-	-	<10	-
Bis(2-chloroethyl) ether	-	<10	-	-	-	-	-	<10	<10	-	-	-	-	<10	-
Benzene, 1,3-dichloro-	-	<10	-	-	-	-	-	<10	<10	-	-	-	-	<10	-
Benzene, 1,4-dichloro-	-	<10	-	-	-	-	-	<10	<10	-	-	-	-	<10	-
Benzene, 1,2-dichloro-	-	<10	-	-	-	-	-	<10	<10	-	-	-	-	<10	-
Phenol, 2-methyl-	-	<10	-	-	-	-	-	<10	<10	-	-	-	-	<10	-
Ethane, hexachloro-	-	<10	-	-	-	-	-	<10	<10	-	-	-	-	<10	-
Phenol, 3-methyl-	-	<10	-	-	-	-	-	<10	<10	-	-	-	-	<10	-
Nitrobenzene	-	<10	-	-	-	-	-	<10	<10	-	-	-	-	<10	-
Isophorone	-	<10	-	-	-	-	-	<10	<10	-	-	-	-	<10	-
Phenol, 2-nitro-	-	<10	-	-	-	-	-	<10	<10	-	-	-	-	<10	-
Phenol, 2,4-dimethyl-	-	<10	-	-	-	-	-	<10	<10	-	-	-	-	<10	-
Methane, bis(2-chloroethoxy)-	-	<10	-	-	-	-	-	<10	<10	-	-	-	-	<10	-
Phenol, 2,4-dichloro-	-	<10	-	-	-	-	-	<10	<10	-	-	-	-	<10	-
1,3,4-Trichlorobenzene,	-	<10	-	-	-	-	-	<10	<10	-	-	-	-	<10	-
Naphthalene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloroaniline	-	<10	-	-	-	-	-	<10	<10	-	-	-	-	<10	-
Hexachloro-1,3-butadiene	-	<10	-	-	-	-	-	<10	<10	-	-	-	-	<10	-
Phenol, 4-chloro-3-methyl-	-	<10	-	-	-	-	-	<10	<10	-	-	-	-	<10	-
Naphthalene, 2-methyl-	-	<10	-	-	-	-	-	<10	<10	-	-	-	-	<10	-
Naphthalene, 1-methyl-	-	<10	-	-	-	-	-	<10	<10	-	-	-	-	<10	-
Hexachlorocyclopentadiene	-	<10	-	-	-	-	-	<10	<10	-	-	-	-	<10	-
Phenol, 2,4,6-trichloro-	-	<10	-	-	-	-	-	<10	<10	-	-	-	-	<10	-
Phenol, 2,4,5-trichloro-	-	<10	-	-	-	-	-	<10	<10	-	-	-	-	<10	-
Naphthalene, 2-chloro-	-	<10	-	-	-	-	-	<10	<10	-	-	-	-	<10	-
2-Nitroaniline	-	<10	-	-	-	-	-	<10	<10	-	-	-	-	<10	-
1,4-Dinitrobenzene,	-	<10	-	-	-	-	-	<10	<10	-	-	-	-	<10	-
Dimethylphthalate	-	<10	-	-	-	-	-	<10	<10	-	-	-	-	<10	-
Acenaphthylene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.3-Dinitrobenzene	-	<10	-	-	-	-	-	<10	<10	-	-	-	-	<10	-
3-Nitroaniline	-	<10	-	-	-	-	-	<10	<10	-	-	-	-	<10	-
Acenaphthene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	-	<10	-	-	-	-	-	<10	<10	-	-	-	-	<10	-
2,4-Dinitrotoluene	-	<10	-	-	-	-	-	<10	<10	-	-	-	-	<10	-
2,3,4,6-Tetrachlorophenol,	-	<10	-	-	-	-	-	<10	<10	-	-	-	-	<10	-

Constituent	TP52 ES2	TP52 ES3	TP53 ES2	TP53 ES3	TP54 ES3	TP55 ES2	TP56 ES3	TP57 ES2	TP57 ES3	TP57 ES5	TP58 ES2	TP58 ES3	TP60 ES1	TP62 ES5	TP65 ES3
	0.5 - 0.6	1.5 - 1.6	0.5 - 0.6	1.5 - 1.6	1.5 - 1.7	0.5 - 0.6	1.5 - 1.6	0.5 - 0.6	1.5 - 1.6	3.5 - 3.6	0.5 - 0.6	1.5 - 1.6	0.5 - 0.6	3.5 - 3.7	1.6 - 1.7
Stone Content	8	6	6	<1	32	<1	<1	<1	8	6	<1	7	2	2	65
Metals/Metalloids															
Arsenic**	12.3	11.6	28	158.9	16.9	16.3	36.4	32.9	41.5	74.9	139.8	19.3	24.6	13.7	<5
Cadmium**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium**	5	5	19	32	10	5	9	8	8	16	27.1	5	8	10	3
Lead**	4	4	8	14	4	3	5	4	5	8	9	4	5	5	2
Mercury**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Nickel**	3.7	3.9	11.2	14.1	7	2.7	6.2	4	4.4	11	13.6	2.6	7	6	2
Copper**	2.1	2.5	7.3	12.8	8	2.1	3.2	3.9	2.8	5.7	7.4	1.5	8	8	1.8
Zinc**	16.3	16.6	35.2	57	15	13.8	26.3	31.4	27.3	41.2	57.6	18.6	30	19	10.1
Selenium	0.58	0.65	<0.5	1.13	<0.5	<0.5	<0.5	1.44	0.83	1.03	0.6	<0.5	<0.5	<0.5	<0.5
Hexavalent Chromium	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Water Soluble Boron	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	<0.5	<0.5	<0.5	0.7
Inorganics															
pH Value**	6.3	6.5	7.23	4.96	8.8	7.87	7.05	5	4.7	4.7	5.38	7.82	8.8	8.6	8.01
Total Sulphate	<0.05	<0.05	0.26	0.59	0.17	0.09	0.1	0.05	<0.05	<0.05	0.44	<0.05	0.24	0.26	<0.05
Total Cyanide**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2.87
Sulphide	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Elemental Sulphur**	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Total Monohydric Phenols**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
PAHs															
Naphthalene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benz(a)anthracene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b)fluoranthene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(123-cd)pyrene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenz(ah)anthracene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total PAH**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TPH Aromatic															
TPH Aromatic C5-C7	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH Aromatic C7-C8	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH Aromatic C8-C10	<0.1	<0.1	<0.1	<0.1	<0.1	0.4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TPH aromatic C10-C12	<0.1	<0.1	<0.1	<0.1	<0.1	0.22	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TPH Aromatic C12-C16	0.17	0.12	<0.1	<0.1	<0.1	0.25	<0.1	<0.1	<0.1	<0.1	0.13	0.12	<0.1	<0.1	<0.1
TPH Aromatic C16-C21	0.31	<0.1	0.21	0.11	<0.1	0.27	0.34	<0.1	<0.1	<0.1	0.22	0.37	<0.1	<0.1	0.99
TPH Aromatic C21-C35	0.58	<0.1	0.24	0.2	1.3	0.21	0.37	1.48	0.48	<0.1	0.34	0.35	<0.1	<0.1	2.92
TPH Aliphatic															
TPH Aliphatic C5-C6	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH Aliphatic C6-C8	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH Aliphatic C8-C10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TPH Aliphatic C10-C12	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TPH Aliphatic C12-C16	<0.1	<0.1	0.12	0.13	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.12	<0.1	<0.1	<0.1
TPH Aliphatic C16-C21	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	2.09
TPH Aliphatic C21-C35	0.16	<0.1	0.53	0.42	0.3	0.97	1.75	<0.1	<0.1	<0.1	<0.1	0.18	<0.1	0.6	0.37
TPH (C5 - C35)	1.23	0.12	1.1	0.85	1.6	2.43	2.45	1.48	0.48	<0.1	0.69	1.13	<0.1	0.6	6.37
Asbestos	~	none	none	-	-	-	-	-	-	-	-	-	none	-	-
VOCs															
Benzene**	-	<10	<10	-	-	<10	<10	-	-	-	-	-	-	-	<10
Toluene**	-	<10	<10	-	-	<10	<10	-	-	-	-	-	-	-	<10
Ethyl Benzene**	-	<10	<10	-	-	<10	<10	-	-	-	-	-	-	-	<10
mpXylene**	-	<10	<10	-	-	<10	<10	-	-	-	-	-	-	-	<10
oXylene**	-	<10	<10	-	-			-	-	-	-	-	-	-	<10
1, 2-Dichloroethene-cis**	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
1, 1-Dichloroethane**	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Chloroform**	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Carbontetrachloride**	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
1, 1, 1-Trichloroethane**	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Trichloroethylene**	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Tetrachloroethylene**	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
1, 1, 1, 2-Tetrachloroethane**	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
1, 1, 2, 2-Tetrachloroethane**	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Chlorobenzene**	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Bromobenzene**	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Bromodichloromethane**	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Methylethylbenzene**	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
1, 1-Dichloro-1-propene**	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
1, 2-Dichloroethene-trans	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
2, 2-Dichloropropane	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Bromochloromethane	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
1, 2-Dichloroethane	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Dibromomethane**	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
1, 2-Dichloropropane**	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
1, 3-Dichloro1propene**	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
1, 3-Dichloro1propene trans	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
1, 1, 2-Trichloroethane	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Dibromochloromethane	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
1, 3-Dichloropropane	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Dibromoethane**	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Styrene	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Propylbenzene	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
2-Chlorotoluene	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
1, 2, 4-Trimethylbenzene	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
4-Chlorotoluene	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
t-Butylbenzene	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Trimethylbenzene	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
1-Methylpropylbenzene	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
o-Cymene	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
1, 4-Dichlorobenzene	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Butylbenzene	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
1, 2-Dibromo-3-chloropropane	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Hexachlorobutaciene	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
1, 2, 3-Trichlorobenzene	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
1, 2, 4-Trichlorobenzene	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
1, 3-Dichlorobenzene	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
1, 2-Dichlorobenzene	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Bromoform	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Vinyl Chloride	-	<10	-	-	-	-	-	-	-	-	-	-	-	-	<10
SVOCs															
Pyridine	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Aniline	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Phenol	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Bis(2-chloroethyl) ether	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Benzene, 1,3-dichloro-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Benzene, 1,4-dichloro-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Benzene, 1,2-dichloro-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Phenol, 2-methyl-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Ethane, hexachloro-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Phenol, 3-methyl-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Nitrobenzene	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Isophorone	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Phenol, 2-nitro-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Phenol, 2,4-dimethyl-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Methane, bis(2-chloroethoxy)-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Phenol, 2,4-dichloro-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
1,3,4-Trichlorobenzene,	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Naphthalene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloroaniline	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Hexachloro-1,3-butadiene	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Phenol, 4-chloro-3-methyl-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Naphthalene, 2-methyl-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Naphthalene, 1-methyl-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Hexachlorocyclopentadiene	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Phenol, 2,4,6-trichloro-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Phenol, 2,4,5-trichloro-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Naphthalene, 2-chloro-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
2-Nitroaniline	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
1,4-Dinitrobenzene,	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Dimethylphthalate	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Acenaphthylene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.3-Dinitrobenzene	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
3-Nitroaniline	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Acenaphthene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
2,4-Dinitrotoluene	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
2,3,4,6-Tetrachlorophenol,	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10

ATKINS

Assessment Criteria :	Public Open Space (Parks) - 1% SOM Sand																																																				
☐ Use MRL Values?																																																					
stituent		eric essment eria (mg/kg)	nber of nples	imum Value	imum Value	nber of eedences	Locations of Exceedences	TP34 ES3	TP34 ES4	TP35 ES3	TP37 ES2	TP37 ES4	TP38 ES2	TP38 ES3	TP38 ES4	TP39 ES2	TP40 ES2	TP40 ES4	TP41 ES2	TP41 ES3	TP42 ES2	TP42 ES3	TP42 ES6	TP43 ES1	TP43 ES2	TP44 ES2	TP44 ES5	TP45 ES2	TP45A ES4	TP46 ES2	TP46 ES3	TP47 ES2	TP47 ES3	TP47 ES4	TP48 ES4	TP50 ES1	TP51 ES1	TP51 ES3	TP52 ES2	TP52 ES3	TP53 ES2	TP53 ES3	TP54 ES3	TP55 ES2	TP56 ES3	TP57 ES2	TP57 ES3	TP57 ES5	TP58 ES2	TP58 ES3	TP60 ES1	TP62 ES5	TP65 ES3
								1.5 - 1.6	2.5 - 2.6	1.5 - 1.6	0.8 - 0.9	2.5 - 2.7	0.5 - 0.6	1.5 - 1.6	2.5 - 2.6	0.5 - 0.6	0.5 - 0.6	2.1 - 2.2	0.5 - 0.6	1.2 - 1.3	0.5 - 0.6	1.5 - 1.6	3.9 - 4.0	GL - 0.2	1.2 - 1.3	0.7 - 0.8	3.5 - 3.6	0.9 - 1.0	2.5 - 2.6	0.5 - 0.6	1.5 - 1.6	0.5 - 0.6	1.5 - 1.6	2.5 - 2.6	2.5 - 2.6	0.5 - 0.6	0.3 - 0.4	1.5 - 1.6	0.5 - 0.6	1.5 - 1.6	0.5 - 0.6	1.5 - 1.6	1.5 - 1.7	0.5 - 0.6	1.5 - 1.6	0.5 - 0.6	1.5 - 1.6	3.5 - 3.6	0.5 - 0.6	1.5 - 1.6	0.5 - 0.6	3.5 - 3.7	1.6 - 1.7
2,3,5,6-Tetrachlorophenol,	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10	-	<10	-	-	-	-	-	<10	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Diethylphthalate	(µg/kg)	No SSV	48	<10	111.87	0		-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10	-	<10	-	-	-	-	-	<10	<10	-	-	-	-	<10	-	-	<10	65.43	-	-	-	-	-	-	-	-	-	-	-	<10
Fluorene	(µg/kg)	19600	4	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Diphenylamine	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10	-	<10	-	-	-	-	-	<10	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Azobenzene	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10	-	<10	-	-	-	-	-	<10	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
4-Bromophenyl phenyl ether	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10	-	<10	-	-	-	-	-	<10	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Hexachlorobenzene	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10	-	<10	-	-	-	-	-	<10	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Pentachlorophenol	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10	-	<10	-	-	-	-	-	<10	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Phenanthrene	(µg/kg)	No SSV	4	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	(µg/kg)	150000	4	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	(µg/kg)	20200	4	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	(µg/kg)	15100	4	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzylbutylphthalate	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10	-	<10	-	-	-	-	-	<10	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Bis(2-ethylhexyl)adipate	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10	-	<10	-	-	-	-	-	<10	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Benzo(a)anthracene	(µg/kg)	BaP Surrogate	4	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	(µg/kg)	4660	4	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bis(2-ethylhexyl)phthalate	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	<10	-	-	-	<10	<10	<10	-	<10	-	<10	-	<10	-	<10	-	-	-	-	-	<10	<10	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Benzo(b)fluoranthene	(µg/kg)	BaP Surrogate	4	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	(µg/kg)	BaP Surrogate	4	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	(µg/kg)	21.4	4	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeno[1,2,3-cd]pyrene	(µg/kg)	BaP Surrogate	4	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenz(ah)anthracene	(µg/kg)	BaP Surrogate	4	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(ghi)perylene	(µg/kg)	BaP Surrogate	4	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCBs																																																					
PCB 28**	(µg/kg)	No SSV	12	<10	<10	0		-	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	<10	<10	-	-	-	-	-	-	-	-
PCB 52**	(µg/kg)	No SSV	12	<10	<10	0		-	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	<10	<10	-	-	-	-	-	-	-	-
PCB 101**	(µg/kg)	No SSV	12	<10	<10	0		-	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	<10	<10	-	-	-	-	-	-	-	-
PCB 118**	(µg/kg)	No SSV	12	<10	<10	0		-	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	<10	<10	-	-	-	-	-	-	-	-
PCB 138**	(µg/kg)	No SSV	12	<10	<10	0		-	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	<10	<10	-	-	-	-	-	-	-	-
PCB 153**	(µg/kg)	No SSV	12	<10	<10	0		-	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	<10	<10	-	-	-	-	-	-	-	-
PCB 180**	(µg/kg)	No SSV	12	<10	<10	0		-	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	<10	<10	-	-	-	-	-	-	-	-
OCPs																																																					
Alpha BHC**	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beta BHC**	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gamma BHC**	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Delta BHC**	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Heptachlor	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aldrin	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Heptachlor epoxide	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlordane	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endosulfan I	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
cis-Chlordane	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pp-DDE**	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dieldrin	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endrin	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pp-DDD**	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endrin Aldehyde	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pp DDT**	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endosulfan II	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endrin Ketone	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pp-Methoxychlor	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OPPs																																																					
Mevinphos	(µg/kg)	No SSV	1	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dimethoate	(µg/kg)	No SSV	1	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Propetamphos	(µg/kg)	No SSV	1	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloropyriphos-methyl	(µg/kg)	No SSV	1	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fenitrithion	(µg/kg)	No SSV	1	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Malathion	(µg/kg)	No SSV	1	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Parathion	(µg/kg)	No SSV	1	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trans-Chlorfenvinphos	(µg/kg)	No SSV	1	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromophos	(µg/kg)	No SSV	1	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Triazophos	(µg/kg)	No SSV	1	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phosalone	(µg/kg)	No SSV	1	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Azinphos-methyl	(µg/kg)	No SSV	1	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Azinphos-ethyl	(µg/kg)	No SSV	1	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Assessment Criteria : *Public Open Space (Parks) - 1% SOM Sand*

☐ **Use MRL Values?**

	Unit	Generic Assessment Criteria (mg/kg)	Number of Samples	Minimum Value	Maximum Value	Number of Exceedences	Locations of Exceedences	TP66 ES2	TP66 ES3	TP67 ES2	TP67 ES3	TP68 ES5	TP69 ES3	TP70 ES1	TP71 ES1	TP71 ES2	TP72 ES1	TP72 ES3	TP73 ES2	TP74 ES1	TP74 ES3	TP76 ES2	TP76 ES4	TPN1 ES2	TPN2 ES2	TPN3 ES2	TPN4 ES3	BH1 ES1	BH1 ES3	BH4 ES2	BH6 ES8	BH7 ES6	BH7 ES13	GW1D ES2	GW1D ES3	GW1D ES5	GW1D ES6	GW2 ES2	GW3 ES2	GW3 ES5	GW4 ES2	GW6D ES2	GW6D E	GW6D ES8	GW7 ES2	GW7 ES3	GW7 ES6	GW8 ES2	GW8 ES8	GW8 ES10	GW9D ES1	GW9D ES4	GW9D ES7
								0.5 - 0.6	1.5 - 1.6	0.5 - 0.6	1.5 - 1.6	3.5 - 3.6	1.5 - 1.6	0 - 0.2	0 - 0.2	0.5 - 0.6	0 - 0.2	1.5 - 1.6	0.5 - 0.6	0 - 0.2	1.5 - 1.6	0.5 - 0.6	2.5 - 2.6	0.5 - 0.6	0.5 - 0.6	0.5 - 0.6	1.5 - 1.6	0.1 - 0.3	1.3 - 1.5	0.6 - 0.8	6.5 - 6.7	4.5 - 4.7	11.5 - 11.7	0.7 - 0.8	1.7 - 1.8	3.7 - 3.8	4.1 - 4.2	0.8 - 0.9	0.9 - 1.0	3.7 - 3.8	0.5 - 0.6	0.5 - 0.6	3.5 - 3.7	4.9 - 5.1	0.8 - 1.0	1.5 - 1.7	4.4 - 4.6	0.5 - 0.6	6.5 - 6.7	8.5 - 8.7	0 - 0.2	2.7 - 2.9	5.7 - 5.9
Stone Content	(%)	No SSV	165	<1	68	0		3	<1	<1	<1	<1	<1	7	-	<1	20	14	1	-	<1	-	<1	<1	<1	<1	<1	6	7	2	29	11	19	5	15	<1	3	<1	3	7	2	7	34	21	16	27	31	12	22	32	27	37	42
Metals/Metalloids																																																					
Arsenic**	(mg/kg)	168	165	<5	158.9	0		11	18.3	32	12.2	41	38.9	7.4	-	17	14	12.8	27.2	-	16.6	-	18.7	20.9	<5	9	11.6	6.1	5.1	10.3	14.1	31.5	24.4	9.5	82.4	15.3	12	<5	<5	45.6	57.5	25.3	12.8	15.9	36	20	5	11	12	<5	<5	<5	<5
Cadmium**	(mg/kg)	882	165	<0.5	2.92	0		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1	2.92	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium**	(mg/kg)	83500	165	2	72.8	0		7	10	19	8	26.1	10	6	-	7	8	4	13	-	8	-	19	7	7	8	8	6	4	7	9	9	25.6	14	72.8	22.8	16	6	2	8	14	10	11	11	11	12	22	4	9	10	3	11	5
Lead**	(mg/kg)	1340	165	1	1206.8	0		11	5	6	3	8	4	8	-	4	10	4	5	-	3	-	6	24	4	6	6	12	2	16	8	4	14	48	1206.8	66	39	8	3	4	7	9	6	7	5	3	2	3	3	2	2	2	1
Mercury**	(mg/kg)	61.2	165	<0.5	3.44	0		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	3.44	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Nickel**	(mg/kg)	804	165	1.9	146.98	0		5.1	6.2	10.5	4.2	19.8	4.5	3.4	-	4.1	6.2	4.6	8	-	1.9	-	7.4	3.4	3.1	5.3	4	6.3	2.7	4.5	5.8	6	19.2	13.8	146.98	27.1	15.8	4.4	2	4.7	6.4	7.5	7.5	7.1	6	6	11	3	5	6	2	6	3
Copper**	(mg/kg)	45200	165	<1	256.91	0		7.7	6.1	9.6	4	8.6	3.4	4.2	-	3	5.3	7.5	5.5	-	2.2	-	4.3	5.9	1.5	1.4	1.6	6.5	1.8	5.7	5.7	3.5	9.8	25.7	256.91	36.9	22.3	4.6	1.9	4.2	4.6	8.9	6.2	6.9	2	2	2	1	2	3	2	3	2
Zinc**	(mg/kg)	201000	165	5.9	1220.3	0		41.7	30.3	37.9	22	40	24	24.6	-	17.9	21.6	34.1	28.4	-	11.4	-	24.6	31.4	43.7	25.8	22.4	53	14.8	24	29.1	26.1	54.2	86.4	1220.3	219.6	81.6	23.4	15.3	31.5	59	39.9	23	26.5	36	19	14	10	9	6	11	9	14
Selenium	(mg/kg)	2550	165	<0.5	3.57	0		<0.5	<0.5	<0.5	<0.5	0.57	<0.5	<0.5	-	<0.5	<0.5	<0.5	0.54	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.25	<0.5	3.57	0.63	<0.5	<0.5	0.58	0.56	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Hexavalent Chromium	(mg/kg)	251	165	<2	<2	0		<2	<2	<2	<2	<2	<2	<2	-	<2	<2	<2	<2	-	<2	-	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Water Soluble Boron	(mg/kg)	No SSV	165	<0.5	12.1	0		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	0.8	<0.5	0.7	1	0.7	12.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.9	<0.5	0.8	2.2	0.6	0.6	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Inorganics																																																					
pH Value**	(Units)	No SSV	165	4.3	11.2	0		7.6	7.43	5.6	6	5.7	7.51	7.5	-	8.1	7.74	7.4	7.43	-	7.71	-	7.5	4.3	5.4	4.88	4.39	7.7	7.85	6.62	9.44	9.3	7.95	8.24	7.71	8.7	8.71	8.11	7.62	7.7	5.1	8.33	10.53	8.15	8.6	8.6	8.7	8.6	8.1	8.3	8.31	8.5	8.27
Total Sulphate	(% as SO4)	No SSV	165	<0.05	0.59	0		0.16	0.16	<0.05	0.14	0.25	0.16	0.05	-	0.07	<0.05	0.07	0.24	-	0.05	-	0.1	0.11	<0.05	0.08	0.06	0.11	0.07	0.09	<0.05	<0.05	<0.05	<0.05	0.39	0.1	0.13	0.15	0.11	0.14	0.16	0.08	0.06	0.13	0.22	0.22	0.14	<0.05	<0.05	<0.05	0.07	<0.05	<0.05
Total Cyanide**	(mg/kg)	No SSV	165	<1	4.78	0		<1	<1	<1	<1	<1	<1	<1	-	<1	<1	<1	<1	-	<1	-	<1	1.21	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	4.78	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Sulphide	(mg/kg)	No SSV	165	<2	88	0		<2	<2	<2	<2	<2	<2	<2	-	<2	<2	<2	<2	-	<2	-	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	6.5	5.04	<2	<2	<2	<2	<2	<2	7.7	<2	<2	<2	<2	<2	<2	<2	<2	<2	11.8
Elemental Sulphur**	(mg/kg)	No SSV	165	<10	414.72	0		<10	<10	<10	<10	<10	<10	<10	-	<10	<10	<10	<10	-	<10	-	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	45.8	<10	131.04	<10	<10	<10	<10	<10	<10	<10	25.06	37.44	<10	<10	<10	<10	36.7	14.4	<10	<10	85
Total Monohydric Phenols**	(mg/kg)	No SSV	165	<1	1.3	0		<1	<1	<1	<1	<1	<1	<1	-	<1	<1	<1	<1	-	<1	-	<1	<1	<1	1.1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
PAHs																																																					
Naphthalene**	(mg/kg)	623	165	<0.1	<0.1	0		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene**	(mg/kg)	No SSV	165	<0.1	0.9	0		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene**	(mg/kg)	28600	165	<0.1	<0.1	0		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene**	(mg/kg)	19600	165	<0.1	0.11	0		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.11	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene**	(mg/kg)	No SSV	165	<0.1	0.97	0		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.97	0.21	<0.1	0.14	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene**	(mg/kg)	150000	165	<0.1	0.45	0		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.45	0.38	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene**	(mg/kg)	20200	165	<0.1	2.69	0		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	2.69	0.34	0.17	0.36	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene**	(mg/kg)	15100	165	<0.1	2.06	0		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	2.06	0.77	0.15	0.28	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benz(a)anthracene**	(mg/kg)	No SSV	165	<0.1	1.52	0		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.52	0.43	<0.1	0.15	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene**	(mg/kg)	4660	165	<0.1	1.52	0		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.52	0.79	0.17	0.31	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b)fluoranthene**	(mg/kg)	BaP Surrogate	165	<0.1	0.91	0		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.91	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene**	(mg/kg)	BaP Surrogate	165	<0.1	1.32	0		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.32	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene**	(mg/kg)	21.4	165	<0.1	1.31	0		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.31	0.89	<0.1	0.14	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.11	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(123-cd)pyrene**	(mg/kg)	BaP Surrogate	165	<0.1	0.8	0		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.8	0.32	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenz(ah)anthracene**	(mg/kg)	BaP Surrogate	165	<0.1	0.21	0		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.21	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.16	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene**	(mg/kg)	BaP Surrogate	165	<0.1	0.89	0		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	0.12	<0.1	<0.1	<0.1	<0.1	<0.1	0.85	0.89	0.19	0.18	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total PAH**	(mg/kg)	No SSV	165	<0.1	14.72	0		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	0.12	<0.1	<0.1	<0.1	<0.1	<0.1	14.72	5.02	0.67	1.56	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.47	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TPH Aromatic																																																					
TPH Aromatic C5-C7	(mg/kg)	139	165	<0.01	<0.01	0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	<0.01	-	<0.01	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH Aromatic C7-C8	(mg/kg)	69900	165	<0.01	<0.01	0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	<0.01	-	<0.01	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH Aromatic C8-C10	(mg/kg)	5140	165	<0.1	0.4	0		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TPH aromatic C10-C12	(mg/kg)	8260	165	<0.1	0.22	0		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TPH Aromatic C12-C16	(mg/kg)	10600	165	<0.1	5.83	0		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.33	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.11	<0.1	<0.1	0.13	0.12	<0.1	0.38	<0.1	0.15	<0.1	<0.1	<0.1	<0.1	0.12	0.13
TPH Aromatic C16-C21	(mg/kg)	7870	165	<0.1	19.85	0		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.36	-	0.34	<0.1	<0.1	<0.1	-	0.38	-	0.5	<0.1	<0.1	0.38	0.35	<0.1	<0.1	0.57	0.33	<0.1	<0.1	<0.1	12.36	<0.1	0.24	<0.1	0.33	0.11	0.33	0.35	1.05	0.21	0.3	<0.1	0.16	0.15	0.24	0.15	0.16	0.24	0.12
TPH Aromatic C21-C35	(mg/kg)	7870	165	<-68.01	42.05	0		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.42	-	0.74	<0.1	<0.1	<0.1	-	0.74	-	0.55	<0.1	<0.1	<0.1	<0.1	<0.1	1.38	1.4	0.93	0.36	0.48	2.36	-68.01	0.51	2.25	<0.1	0.44	0.19	<0.1	<0.1	2.16	2.05	<0.1	<0.1	<0.1	<0.1	0.19	0.1	0.33	0.54	0.86
TPH Aliphatic																																																					
TPH Aliphatic C5-C6	(mg/kg)	109000	165	<0.01	0.03	0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	<0.01	-	<0.01	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH Aliphatic C6-C8	(mg/kg)	163000	165	<0.01	<0.1	0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	<0.01	-	<0.01	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH Aliphatic C8-C10	(mg/kg)	9720	165	<0.1	0.15	0		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.13	0.12	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TPH Aliphatic C10-C12	(mg/kg)	17700	165	<0.1	0.52	0		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.11	0.11	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TPH Aliphatic C12-C16	(mg/kg)	23800	165	<0.1	5.62	0		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.23	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.11	0.13	<0.1	0.13	<0.1	<0.1	0.17	0.24	0.26	<0.1	<0.1	<0.1	<0.1	0.1	<0.1
TPH Aliphatic C16-C21	(mg/kg)	864000	165	<0.1	47.96	0		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.67	-	0.71	<0.1	<0.1	<0.1	-	0.84	-	1.04	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.59	<0.1	<0.1	<0.1	47.96	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.44	<0.1	0.35	0.26	0.32	<0.1	<0.1	<0.1	0.11	0.11	<0.1
TPH Aliphatic C21-C35	(mg/kg)	864000	165	<-143.07	46.2	0		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	0.51	0.28	0.14	0.31	-	<0.1	-	0.22	<0.1	0.13	0.18	0.19	<0.1	<0.1	<0.1	1.85	0.32	0.11	1.48	-143.07	1.08	2.36	<0.1	<0.1	0.37	0.19	<0.1	<0.1	<0.1	1.6	0.8	0.58	0.68	0.54	0.73	<0.1	<0.1	0.12
TPH (C5 - C35)	(mg/kg)	No SSV	161	<-271.4	70.86	0		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.45	-	2.3	0.28	0.14	0.31	-	1.96	-	2.31	<0.1	0.13	0.56	0.54	<0.1	1.38	2.54	3.71	0.68	0.62	3.84	-271.4	1.59	4.85	<0.1	1	0.8	0.52	0.61	3.77	2.26	2.8	1.54	1.69	0.84	0.98	0.99	0.6	1.12	1.24
Asbestos	% / type	Any	50	Not Detected	Present	49		None	-	None	-	-	-	-	-	-	-	-	-	-	-	none	-	None	-	none	-	-	-	-	-	-	-	None	None	-	-	-	-	-	-	none	-	-	None	-	-	none	-	-	-	-	-
VOCs		No SSV	11	<10	<10	0																																															
Benzene**	(µg/kg)	139	61	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	<10	<10	-	-	-
Toluene**	(µg/kg)	69900	61	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	<10	<10	-	-	-
Ethyl Benzene**	(µg/kg)	21400	61	<10	16.19	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	16.19	-	-	-	-	-	-	-	-	-	<10	-	-	<10	<10	<10	-	-	-
mpXylene**	(µg/kg)	No SSV	59	<10	15.07	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	15.07	-	-	-	-	-	-	-	-	-	<10	-	-	<10	<10	<10	-	-	-
oXylene**	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10			-	-	-
1, 2-Dichloroethene-cis**	(µg/kg)	No SSV	48	<10	14.88	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	14.88	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
1, 1-Dichloroethane**	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Chloroform**	(µg/kg)	2090	48	<10	12	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Carbontetrachloride**	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
1, 1, 1-Trichloroethane**	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Trichloroethylene**	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Tetrachloroethylene**	(µg/kg)	No SSV	48	<10	12.34	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	12.34	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
1, 1, 1, 2-Tetrachloroethane**	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
1, 1, 2, 2-Tetrachloroethane**	(µg/kg)	No SSV	39	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Chlorobenzene**	(µg/kg)	13200	48	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Bromobenzene**	(µg/kg)	986	48	<10	12.55	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	12.55	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Bromodichloromethane**	(µg/kg)	33.9	48	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Methylethylbenzene**	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
1, 1-Dichloro-1-propene**	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
1, 2-Dichloroethene-trans	(µg/kg)	No SSV	48	<10	37.36	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	37.36	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
2, 2-Dichloropropane	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Bromochloromethane	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
1, 2-Dichloroethane	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Dibromomethane**	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
1, 2-Dichloropropane**	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
1, 3-Dichloro1propene**	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
1, 3-Dichloro1propene trans	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
1, 1, 2-Trichloroethane	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Dibromochloromethane	(µg/kg)	231	48	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
1, 3-Dichloropropane	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Dibromoethane**	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Styrene	(µg/kg)	5640	48	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Propylbenzene	(µg/kg)	27500	48	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
2-Chlorotoluene	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
1, 2, 4-Trimethylbenzene	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
4-Chlorotoluene	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
t-Butylbenzene	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Trimethylbenzene	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
1-Methylpropylbenzene	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
o-Cymene	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
1, 4-Dichlorobenzene	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Butylbenzene	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
1, 2-Dibromo-3-chloropropane	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Hexachlorobutaciene	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
1, 2, 3-Trichlorobenzene	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
1, 2, 4-Trichlorobenzene	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
1, 3-Dichlorobenzene	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
1, 2-Dichlorobenzene	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Bromoform	(µg/kg)	2910	48	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Vinyl Chloride	(µg/kg)	3.68	37	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	-	-	-	-
SVOCs																																																					
Pyridine	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Aniline	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Phenol	(µg/kg)	685	48	<10	20.37	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Bis(2-chloroethyl) ether	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Benzene, 1,3-dichloro-	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Benzene, 1,4-dichloro-	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Benzene, 1,2-dichloro-	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Phenol, 2-methyl-	(µg/kg)	No SSV	48	<10	22.46	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Ethane, hexachloro-	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Phenol, 3-methyl-	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Nitrobenzene	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Isophorone	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Phenol, 2-nitro-	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Phenol, 2,4-dimethyl-	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Methane, bis(2-chloroethoxy)-	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Phenol, 2,4-dichloro-	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
1,3,4-Trichlorobenzene,	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Naphthalene	(µg/kg)	623	4	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloroaniline	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Hexachloro-1,3-butadiene	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Phenol, 4-chloro-3-methyl-	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Naphthalene, 2-methyl-	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Naphthalene, 1-methyl-	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Hexachlorocyclopentadiene	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Phenol, 2,4,6-trichloro-	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Phenol, 2,4,5-trichloro-	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Naphthalene, 2-chloro-	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
2-Nitroaniline	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
1,4-Dinitrobenzene,	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Dimethylphthalate	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Acenaphthylene	(µg/kg)	No SSV	4	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.3-Dinitrobenzene	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
3-Nitroaniline	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Acenaphthene	(µg/kg)	28600	4	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
2,4-Dinitrotoluene	(µg/kg)	973	48	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
2,3,4,6-Tetrachlorophenol,	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-

ATKINS

Assessment Criteria :	*Public Open Space (Parks) - 1% SOM Sand*
Use MRL Values?	

Contaminant		Generic Assessment Criteria (mg/kg)	Number of Samples	Minimum Value	Maximum Value	Number of Exceedences	Locations of Exceedences	TP66 ES2	TP66 ES3	TP67 ES2	TP67 ES3	TP68 ES5	TP69 ES3	TP70 ES1	TP71 ES1	TP71 ES2	TP72 ES1	TP72 ES3	TP73 ES2	TP74 ES1	TP74 ES3	TP76 ES2	TP76 ES4	TPN1 ES2	TPN2 ES2	TPN3 ES2	TPN4 ES3	BH1 ES1	BH1 ES3	BH4 ES2	BH6 ES8	BH7 ES6	BH7 ES13	GW1D ES2	GW1D ES3	GW1D ES5	GW1D ES6	GW2 ES2	GW3 ES2	GW3 ES5	GW4 ES2	GW6D ES2	GW6D E	GW6D ES8	GW7 ES2	GW7 ES3	GW7 ES6	GW8 ES2	GW8 ES8	GW8 ES10	GW9D ES1	GW9D ES4	GW9D ES7
								0.5 - 0.6	1.5 - 1.6	0.5 - 0.6	1.5 - 1.6	3.5 - 3.6	1.5 - 1.6	0 - 0.2	0 - 0.2	0.5 - 0.6	0 - 0.2	1.5 - 1.6	0.5 - 0.6	0 - 0.2	1.5 - 1.6	0.5 - 0.6	2.5 - 2.6	0.5 - 0.6	0.5 - 0.6	0.5 - 0.6	1.5 - 1.6	0.1 - 0.3	1.3 - 1.5	0.6 - 0.8	6.5 - 6.7	4.5 - 4.7	11.5 - 11.7	0.7 - 0.8	1.7 - 1.8	3.7 - 3.8	4.1 - 4.2	0.8 - 0.9	0.9 - 1.0	3.7 - 3.8	0.5 - 0.6	0.5 - 0.6	3.5 - 3.7	4.9 - 5.1	0.8 - 1.0	1.5 - 1.7	4.4 - 4.6	0.5 - 0.6	6.5 - 6.7	8.5 - 8.7	0 - 0.2	2.7 - 2.9	5.7 - 5.9
2,3,5,6-Tetrachlorophenol,	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Diethylphthalate	(µg/kg)	No SSV	48	<10	111.87	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Fluorene	(µg/kg)	19600	4	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Diphenylamine	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Azobenzene	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
4-Bromophenyl phenyl ether	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Hexachlorobenzene	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Pentachlorophenol	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Phenanthrene	(µg/kg)	No SSV	4	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	(µg/kg)	150000	4	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	(µg/kg)	20200	4	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	(µg/kg)	15100	4	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzylbutylphthalate	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Bis(2-ethylhexyl)adipate	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Benzo(a)anthracene	(µg/kg)	BaP Surrogate	4	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	(µg/kg)	4660	4	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bis(2-ethylhexyl)phthalate	(µg/kg)	No SSV	48	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10	-	-	-	-	-	<10	<10	<10	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-	-	-
Benzo(b)fluoranthene	(µg/kg)	BaP Surrogate	4	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	(µg/kg)	BaP Surrogate	4	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	(µg/kg)	21.4	4	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeno[1,2,3-cd]pyrene	(µg/kg)	BaP Surrogate	4	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenz(ah)anthracene	(µg/kg)	BaP Surrogate	4	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(ghi)perylene	(µg/kg)	BaP Surrogate	4	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCBs																																																										
PCB 28**	(µg/kg)	No SSV	12	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCB 52**	(µg/kg)	No SSV	12	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCB 101**	(µg/kg)	No SSV	12	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCB 118**	(µg/kg)	No SSV	12	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCB 138**	(µg/kg)	No SSV	12	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCB 153**	(µg/kg)	No SSV	12	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCB 180**	(µg/kg)	No SSV	12	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OCPs																																																									
Alpha BHC**	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	<10	<10	-	-	-	-	<10	-	<10	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beta BHC**	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	<10	<10	-	-	-	-	<10	-	<10	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gamma BHC**	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	<10	<10	-	-	-	-	<10	-	<10	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Delta BHC**	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	<10	<10	-	-	-	-	<10	-	<10	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Heptachlor	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	<10	<10	-	-	-	-	<10	-	<10	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aldrin	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	<10	<10	-	-	-	-	<10	-	<10	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Heptachlor epoxide	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	<10	<10	-	-	-	-	<10	-	<10	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlordane	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	<10	<10	-	-	-	-	<10	-	<10	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endosulfan I	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	<10	<10	-	-	-	-	<10	-	<10	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
cis-Chlordane	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	<10	<10	-	-	-	-	<10	-	<10	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pp-DDE**	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	<10	<10	-	-	-	-	<10	-	<10	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dieldrin	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	<10	<10	-	-	-	-	<10	-	<10	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endrin	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	<10	<10	-	-	-	-	<10	-	<10	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pp-DDD**	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	<10	<10	-	-	-	-	<10	-	<10	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endrin Aldehyde	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	<10	<10	-	-	-	-	<10	-	<10	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pp DDT**	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	<10	<10	-	-	-	-	<10	-	<10	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endosulfan II	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	<10	<10	-	-	-	-	<10	-	<10	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endrin Ketone	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	<10	<10	-	-	-	-	<10	-	<10	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pp-Methoxychlor	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	<10	<10	-	-	-	-	<10	-	<10	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OPPs																																																									
Mevinphos	(µg/kg)	No SSV	1	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dimethoate	(µg/kg)	No SSV	1	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Propetamphos	(µg/kg)	No SSV	1	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloropyriphos-methyl	(µg/kg)	No SSV	1	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fenitrothion	(µg/kg)	No SSV	1	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Malathion	(µg/kg)	No SSV	1	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Parathion	(µg/kg)	No SSV	1	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trans-Chlorfenvinphos	(µg/kg)	No SSV	1	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromophos	(µg/kg)	No SSV	1	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Triazophos	(µg/kg)	No SSV	1	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phosalone	(µg/kg)	No SSV	1	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Azinphos-methyl	(µg/kg)	No SSV	1	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Azinphos-ethyl	(µg/kg)	No SSV	1	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

ATKINS

Assessment Criteria : *Public Open Space (Parks) - 1% SOM Sand*

☐ **Use MRL Values?**

Constituent	Unit	Generic Assessment Criteria (mg/kg)	Number of Samples	Minimum Value	Maximum Value	Number of Exceedences	Locations of Exceedences
Stone Content	(%)	No SSV	165	<1	68	0	
Metals/Metalloids							
Arsenic**	(mg/kg)	168	165	<5	158.9	0	
Cadmium**	(mg/kg)	882	165	<0.5	2.92	0	
Chromium**	(mg/kg)	83500	165	2	72.8	0	
Lead**	(mg/kg)	1340	165	1	1206.8	0	
Mercury**	(mg/kg)	61.2	165	<0.5	3.44	0	
Nickel**	(mg/kg)	804	165	1.9	146.98	0	
Copper**	(mg/kg)	45200	165	<1	256.91	0	
Zinc**	(mg/kg)	201000	165	5.9	1220.3	0	
Selenium	(mg/kg)	2550	165	<0.5	3.57	0	
Hexavalent Chromium	(mg/kg)	251	165	<2	<2	0	
Water Soluble Boron	(mg/kg)	No SSV	165	<0.5	12.1	0	
Inorganics							
pH Value**	(Units)	No SSV	165	4.3	11.2	0	
Total Sulphate	(% as SO4)	No SSV	165	<0.05	0.59	0	
Total Cyanide**	(mg/kg)	No SSV	165	<1	4.78	0	
Sulphide	(mg/kg)	No SSV	165	<2	88	0	
Elemental Sulphur**	(mg/kg)	No SSV	165	<10	414.72	0	
Total Monohydric Phenols**	(mg/kg)	No SSV	165	<1	1.3	0	
PAHs							
Naphthalene**	(mg/kg)	623	165	<0.1	<0.1	0	
Acenaphthylene**	(mg/kg)	No SSV	165	<0.1	0.9	0	
Acenaphthene**	(mg/kg)	28600	165	<0.1	<0.1	0	
Fluorene**	(mg/kg)	19600	165	<0.1	0.11	0	
Phenanthrene**	(mg/kg)	No SSV	165	<0.1	0.97	0	
Anthracene**	(mg/kg)	150000	165	<0.1	0.45	0	
Fluoranthene**	(mg/kg)	20200	165	<0.1	2.69	0	
Pyrene**	(mg/kg)	15100	165	<0.1	2.06	0	
Benz(a)anthracene**	(mg/kg)	No SSV	165	<0.1	1.52	0	
Chrysene**	(mg/kg)	4660	165	<0.1	1.52	0	
Benzo(b)fluoranthene**	(mg/kg)	BaP Surrogate	165	<0.1	0.91	0	
Benzo(k)fluoranthene**	(mg/kg)	BaP Surrogate	165	<0.1	1.32	0	
Benzo(a)pyrene**	(mg/kg)	21.4	165	<0.1	1.31	0	
Indeno(123-cd)pyrene**	(mg/kg)	BaP Surrogate	165	<0.1	0.8	0	
Dibenz(ah)anthracene**	(mg/kg)	BaP Surrogate	165	<0.1	0.21	0	
Benzo(ghi)perylene**	(mg/kg)	BaP Surrogate	165	<0.1	0.89	0	
Total PAH**	(mg/kg)	No SSV	165	<0.1	14.72	0	
TPH Aromatic							
TPH Aromatic C5-C7	(mg/kg)	139	165	<0.01	<0.01	0	
TPH Aromatic C7-C8	(mg/kg)	69900	165	<0.01	<0.01	0	
TPH Aromatic C8-C10	(mg/kg)	5140	165	<0.1	0.4	0	
TPH aromatic C10-C12	(mg/kg)	8260	165	<0.1	0.22	0	
TPH Aromatic C12-C16	(mg/kg)	10600	165	<0.1	5.83	0	
TPH Aromatic C16-C21	(mg/kg)	7870	165	<0.1	19.85	0	
TPH Aromatic C21-C35	(mg/kg)	7870	165	<-68.01	42.05	0	
TPH Aliphatic							
TPH Aliphatic C5-C6	(mg/kg)	109000	165	<0.01	0.03	0	
TPH Aliphatic C6-C8	(mg/kg)	163000	165	<0.01	<0.1	0	
TPH Aliphatic C8-C10	(mg/kg)	9720	165	<0.1	0.15	0	
TPH Aliphatic C10-C12	(mg/kg)	17700	165	<0.1	0.52	0	
TPH Aliphatic C12-C16	(mg/kg)	23800	165	<0.1	5.62	0	
TPH Aliphatic C16-C21	(mg/kg)	864000	165	<0.1	47.96	0	
TPH Aliphatic C21-C35	(mg/kg)	864000	165	<-143.07	46.2	0	
TPH (C5 - C35)	(mg/kg)	No SSV	161	<-271.4	70.86	0	
Asbestos	% / type	Any	50	Not Detected	Present	49	
VOCs		No SSV	11	<10	<10	0	
Benzene**	(µg/kg)	139	61	<10	<10	0	
Toluene**	(µg/kg)	69900	61	<10	<10	0	
Ethyl Benzene**	(µg/kg)	21400	61	<10	16.19	0	
mpXylene**	(µg/kg)	No SSV	59	<10	15.07	0	
oXylene**	(µg/kg)	No SSV	48	<10	<10	0	
1, 2-Dichloroethene-cis**	(µg/kg)	No SSV	48	<10	14.88	0	
1, 1-Dichloroethane**	(µg/kg)	No SSV	48	<10	<10	0	
Chloroform**	(µg/kg)	2090	48	<10	12	0	
Carbontetrachloride**	(µg/kg)	No SSV	48	<10	<10	0	
1, 1, 1-Trichloroethane**	(µg/kg)	No SSV	48	<10	<10	0	
Trichloroethylene**	(µg/kg)	No SSV	48	<10	<10	0	
Tetrachloroethylene**	(µg/kg)	No SSV	48	<10	12.34	0	
1, 1, 1, 2-Tetrachloroethane**	(µg/kg)	No SSV	48	<10	<10	0	
1, 1, 2, 2-Tetrachloroethane**	(µg/kg)	No SSV	39	<10	<10	0	
Chlorobenzene**	(µg/kg)	13200	48	<10	<10	0	
Bromobenzene**	(µg/kg)	986	48	<10	12.55	0	
Bromodichloromethane**	(µg/kg)	33.9	48	<10	<10	0	
Methylethylbenzene**	(µg/kg)	No SSV	48	<10	<10	0	
1, 1-Dichloro-1-propene**	(µg/kg)	No SSV	48	<10	<10	0	
1, 2-Dichloroethene-trans	(µg/kg)	No SSV	48	<10	37.36	0	
2, 2-Dichloropropane	(µg/kg)	No SSV	48	<10	<10	0	
Bromochloromethane	(µg/kg)	No SSV	48	<10	<10	0	
1, 2-Dichloroethane	(µg/kg)	No SSV	48	<10	<10	0	
Dibromomethane**	(µg/kg)	No SSV	48	<10	<10	0	
1, 2-Dichloropropane**	(µg/kg)	No SSV	48	<10	<10	0	
1, 3-Dichloro1propene**	(µg/kg)	No SSV	48	<10	<10	0	
1, 3-Dichloro1propene trans	(µg/kg)	No SSV	48	<10	<10	0	
1, 1, 2-Trichloroethane	(µg/kg)	No SSV	48	<10	<10	0	
Dibromochloromethane	(µg/kg)	231	48	<10	<10	0	
1, 3-Dichloropropane	(µg/kg)	No SSV	48	<10	<10	0	
Dibromoethane**	(µg/kg)	No SSV	48	<10	<10	0	
Styrene	(µg/kg)	5640	48	<10	<10	0	
Propylbenzene	(µg/kg)	27500	48	<10	<10	0	
2-Chlorotoluene	(µg/kg)	No SSV	48	<10	<10	0	
1, 2, 4-Trimethylbenzene	(µg/kg)	No SSV	48	<10	<10	0	
4-Chlorotoluene	(µg/kg)	No SSV	48	<10	<10	0	
t-Butylbenzene	(µg/kg)	No SSV	48	<10	<10	0	
Trimethylbenzene	(µg/kg)	No SSV	48	<10	<10	0	
1-Methylpropylbenzene	(µg/kg)	No SSV	48	<10	<10	0	
o-Cymene	(µg/kg)	No SSV	48	<10	<10	0	
1, 4-Dichlorobenzene	(µg/kg)	No SSV	48	<10	<10	0	
Butylbenzene	(µg/kg)	No SSV	48	<10	<10	0	
1, 2-Dibromo-3-chloropropane	(µg/kg)	No SSV	48	<10	<10	0	
Hexachlorobutaciene	(µg/kg)	No SSV	48	<10	<10	0	
1, 2, 3-Trichlorobenzene	(µg/kg)	No SSV	48	<10	<10	0	
1, 2, 4-Trichlorobenzene	(µg/kg)	No SSV	48	<10	<10	0	
1, 3-Dichlorobenzene	(µg/kg)	No SSV	48	<10	<10	0	
1, 2-Dichlorobenzene	(µg/kg)	No SSV	48	<10	<10	0	
Bromoform	(µg/kg)	2910	48	<10	<10	0	
Vinyl Chloride	(µg/kg)	3.68	37	<10	<10	0	
SVOCs							
Pyridine	(µg/kg)	No SSV	48	<10	<10	0	
Aniline	(µg/kg)	No SSV	48	<10	<10	0	
Phenol	(µg/kg)	685	48	<10	20.37	0	
Bis(2-chloroethyl) ether	(µg/kg)	No SSV	48	<10	<10	0	
Benzene, 1,3-dichloro-	(µg/kg)	No SSV	48	<10	<10	0	
Benzene, 1,4-dichloro-	(µg/kg)	No SSV	48	<10	<10	0	
Benzene, 1,2-dichloro-	(µg/kg)	No SSV	48	<10	<10	0	
Phenol, 2-methyl-	(µg/kg)	No SSV	48	<10	22.46	0	
Ethane, hexachloro-	(µg/kg)	No SSV	48	<10	<10	0	
Phenol, 3-methyl-	(µg/kg)	No SSV	48	<10	<10	0	
Nitrobenzene	(µg/kg)	No SSV	48	<10	<10	0	
Isophorone	(µg/kg)	No SSV	48	<10	<10	0	
Phenol, 2-nitro-	(µg/kg)	No SSV	48	<10	<10	0	
Phenol, 2,4-dimethyl-	(µg/kg)	No SSV	48	<10	<10	0	
Methane, bis(2-chloroethoxy)-	(µg/kg)	No SSV	48	<10	<10	0	
Phenol, 2,4-dichloro-	(µg/kg)	No SSV	48	<10	<10	0	
1,3,4-Trichlorobenzene,	(µg/kg)	No SSV	48	<10	<10	0	
Naphthalene	(µg/kg)	623	4	<10	<10	0	
4-Chloroaniline	(µg/kg)	No SSV	48	<10	<10	0	
Hexachloro-1,3-butadiene	(µg/kg)	No SSV	48	<10	<10	0	
Phenol, 4-chloro-3-methyl-	(µg/kg)	No SSV	48	<10	<10	0	
Naphthalene, 2-methyl-	(µg/kg)	No SSV	48	<10	<10	0	
Naphthalene, 1-methyl-	(µg/kg)	No SSV	48	<10	<10	0	
Hexachlorocyclopentadiene	(µg/kg)	No SSV	48	<10	<10	0	
Phenol, 2,4,6-trichloro-	(µg/kg)	No SSV	48	<10	<10	0	
Phenol, 2,4,5-trichloro-	(µg/kg)	No SSV	48	<10	<10	0	
Naphthalene, 2-chloro-	(µg/kg)	No SSV	48	<10	<10	0	
2-Nitroaniline	(µg/kg)	No SSV	48	<10	<10	0	
1,4-Dinitrobenzene,	(µg/kg)	No SSV	48	<10	<10	0	
Dimethylphthalate	(µg/kg)	No SSV	48	<10	<10	0	
Acenaphthylene	(µg/kg)	No SSV	4	<10	<10	0	
1.3-Dinitrobenzene	(µg/kg)	No SSV	48	<10	<10	0	
3-Nitroaniline	(µg/kg)	No SSV	48	<10	<10	0	
Acenaphthene	(µg/kg)	28600	4	<10	<10	0	
Dibenzofuran	(µg/kg)	No SSV	48	<10	<10	0	
2,4-Dinitrotoluene	(µg/kg)	973	48	<10	<10	0	
2,3,4,6-Tetrachlorophenol,	(µg/kg)	No SSV	48	<10	<10	0	

Constituent	GW10 ES1	GW10 ES2	GW10 ES7	GW12 ES8	GW12 ES9	GW13 ES2	GW13 ES4	GW13 ES9	GW15 ES2	GW15 ES	GW15 ES5	GW16D ES2
	0.1 - 0.3	0.8 - 1.0	5.2 - 5.5	6.5 - 6.7	7.5 - 7.7	0.5 - 0.7	2.5 - 2.7	7.0 - 7.2	0.8 - 1.0	2.1 - 2.3	3.3 - 3.5	0.80 - 1.0
Stone Content	16	<1	5	41	36	20	68	20	-	<1	28	<1
Metals/Metalloids												
Arsenic**	17.8	38.3	18.5	7.8	10.2	<5	<5	10.8	-	41	13.9	43.1
Cadmium**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5
Chromium**	14	10	37.8	9	10	3	3	22.9	-	9	11	7
Lead**	13	5	21	6	3	2	1	11	-	20	4	5
Mercury**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5
Nickel**	7.3	5.3	34.9	6.1	6.1	2	2	18	-	5	6	3
Copper**	3.1	1.9	15.4	4	2.8	1.9	1.7	8.9	-	2	3	<1
Zinc**	21.5	124	99.2	17.5	12.4	11.7	21	48.4	-	37	17	22
Selenium	<0.5	<0.5	0.81	<0.5	<0.5	<0.5	<0.5	0.6	-	<0.5	<0.5	<0.5
Hexavalent Chromium	<2	<2	<2	<2	<2	<2	<2	<2	-	<2	<2	<2
Water Soluble Boron	1.1	0.9	5.1	0.5	<0.5	<0.5	<0.5	7.6	-	<0.5	<0.5	0.6
Inorganics												
pH Value**	10.2	7.4	8.5	11.2	10.65	8.32	8.27	7.98	-	7.7	9.2	8.6
Total Sulphate	0.31	0.35	0.21	0.07	<0.05	<0.05	<0.05	<0.05	-	0.41	0.27	<0.05
Total Cyanide**	<1	<1	<1	<1	<1	<1	<1	<1	-	<1	<1	<1
Sulphide	<2	<2	88	<2	<2	<2	<2	<2	-	<2	<2	<2
Elemental Sulphur**	<10	<10	264.4	<10	<10	<10	<10	49.07	-	47	<10	<10
Total Monohydric Phenols**	<1	<1	<1	<1	<1	<1	<1	<1	-	<1	<1	<1
PAHs												
Naphthalene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1
Acenaphthylene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1
Acenaphthene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1
Fluorene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1
Phenanthrene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1
Anthracene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1
Fluoranthene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1
Pyrene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1
Benz(a)anthracene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1
Chrysene**	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1
Benzo(b)fluoranthene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1
Benzo(k)fluoranthene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1
Benzo(a)pyrene**	<0.1	<0.1	<0.1	<0.1	<0.1	0.11	<0.1	<0.1	-	<0.1	<0.1	<0.1
Indeno(123-cd)pyrene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1
Dibenz(ah)anthracene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1
Benzo(ghi)perylene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1
Total PAH**	<0.1	<0.1	<0.1	0.1	<0.1	0.11	<0.1	<0.1	-	<0.1	<0.1	<0.1
TPH Aromatic												
TPH Aromatic C5-C7	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01
TPH Aromatic C7-C8	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01
TPH Aromatic C8-C10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1
TPH aromatic C10-C12	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1
TPH Aromatic C12-C16	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1
TPH Aromatic C16-C21	0.54	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	0.22
TPH Aromatic C21-C35	10.75	2.51	4.63	<0.1	<0.1	1.8	0.64	0.38	-	0.17	0.3	0.58
TPH Aliphatic												
TPH Aliphatic C5-C6	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01
TPH Aliphatic C6-C8	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01
TPH Aliphatic C8-C10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1
TPH Aliphatic C10-C12	<0.1	<0.1	<0.1	<0.1	0.12	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1
TPH Aliphatic C12-C16	0.18	<0.1	0.44	<0.1	0.2	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1
TPH Aliphatic C16-C21	1.08	<0.1	0.54	<0.1	0.13	<0.1	<0.1	<0.1	-	0.41	<0.1	0.15
TPH Aliphatic C21-C35	11.8	1.45	1.59	<0.1	0.32	0.15	<0.1	<0.1	-	4.16	0.38	<0.1
TPH (C5 - C35)	23.79	2.03	6.15	<0.1	0.76	1.95	0.64	0.38	-	4.7	0.68	1.4
Asbestos	none	-	-	none	-	-	-	-	-	-	-	none
VOCs												
Benzene**	<10	-	-	<10	-	-	-	-	<10	-	-	<10
Toluene**	<10	-	-	<10	-	-	-	-	<10	-	-	<10
Ethyl Benzene**	<10	-	-	<10	-	-	-	-	<10	-	-	<10
mpXylene**	<10	-	-	<10	-	-	-	-	<10	-	-	<10
oXylene**	<10	-	-	<10	-	-	-	-	<10	-	-	<10
1, 2-Dichloroethene-cis**	<10	-	-	<10	-	-	-	-	<10	-	-	<10
1, 1-Dichloroethane**	<10	-	-	<10	-	-	-	-	<10	-	-	<10
Chloroform**	<10	-	-	<10	-	-	-	-	<10	-	-	<10
Carbontetrachloride**	<10	-	-	<10	-	-	-	-	<10	-	-	<10
1, 1, 1-Trichloroethane**	<10	-	-	<10	-	-	-	-	<10	-	-	<10
Trichloroethylene**	<10	-	-	<10	-	-	-	-	<10	-	-	<10
Tetrachloroethylene**	<10	-	-	<10	-	-	-	-	<10	-	-	<10
1, 1, 1, 2-Tetrachloroethane**	<10	-	-	<10	-	-	-	-	<10	-	-	<10
1, 1, 2, 2-Tetrachloroethane**	<10	-	-	<10	-	-	-	-	<10	-	-	<10
Chlorobenzene**	<10	-	-	<10	-	-	-	-	<10	-	-	<10
Bromobenzene**	<10	-	-	<10	-	-	-	-	<10	-	-	<10
Bromodichloromethane**	<10	-	-	<10	-	-	-	-	<10	-	-	<10
Methylethylbenzene**	<10	-	-	<10	-	-	-	-	<10	-	-	<10
1, 1-Dichloro-1-propene**	<10	-	-	<10	-	-	-	-	<10	-	-	<10
1, 2-Dichloroethene-trans	<10	-	-	<10	-	-	-	-	<10	-	-	<10
2, 2-Dichloropropane	<10	-	-	<10	-	-	-	-	<10	-	-	<10
Bromochloromethane	<10	-	-	<10	-	-	-	-	<10	-	-	<10
1, 2-Dichloroethane	<10	-	-	<10	-	-	-	-	<10	-	-	<10
Dibromomethane**	<10	-	-	<10	-	-	-	-	<10	-	-	<10
1, 2-Dichloropropane**	<10	-	-	<10	-	-	-	-	<10	-	-	<10
1, 3-Dichloro1propene**	<10	-	-	<10	-	-	-	-	<10	-	-	<10
1, 3-Dichloro1propene trans	<10	-	-	<10	-	-	-	-	<10	-	-	<10
1, 1, 2-Trichloroethane	<10	-	-	<10	-	-	-	-	<10	-	-	<10
Dibromochloromethane	<10	-	-	<10	-	-	-	-	<10	-	-	<10
1, 3-Dichloropropane	<10	-	-	<10	-	-	-	-	<10	-	-	<10
Dibromoethane**	<10	-	-	<10	-	-	-	-	<10	-	-	<10
Styrene	<10	-	-	<10	-	-	-	-	<10	-	-	<10
Propylbenzene	<10	-	-	<10	-	-	-	-	<10	-	-	<10
2-Chlorotoluene	<10	-	-	<10	-	-	-	-	<10	-	-	<10
1, 2, 4-Trimethylbenzene	<10	-	-	<10	-	-	-	-	<10	-	-	<10
4-Chlorotoluene	<10	-	-	<10	-	-	-	-	<10	-	-	<10
t-Butylbenzene	<10	-	-	<10	-	-	-	-	<10	-	-	<10
Trimethylbenzene	<10	-	-	<10	-	-	-	-	<10	-	-	<10
1-Methylpropylbenzene	<10	-	-	<10	-	-	-	-	<10	-	-	<10
o-Cymene	<10	-	-	<10	-	-	-	-	<10	-	-	<10
1, 4-Dichlorobenzene	<10	-	-	<10	-	-	-	-	<10	-	-	<10
Butylbenzene	<10	-	-	<10	-	-	-	-	<10	-	-	<10
1, 2-Dibromo-3-chloropropane	<10	-	-	<10	-	-	-	-	<10	-	-	<10
Hexachlorobutaciene	<10	-	-	<10	-	-	-	-	<10	-	-	<10
1, 2, 3-Trichlorobenzene	<10	-	-	<10	-	-	-	-	<10	-	-	<10
1, 2, 4-Trichlorobenzene	<10	-	-	<10	-	-	-	-	<10	-	-	<10
1, 3-Dichlorobenzene	<10	-	-	<10	-	-	-	-	<10	-	-	<10
1, 2-Dichlorobenzene	<10	-	-	<10	-	-	-	-	<10	-	-	<10
Bromoform	<10	-	-	<10	-	-	-	-	<10	-	-	<10
Vinyl Chloride	-	-	-	<10	-	-	-	-	-	-	-	-
SVOCs												
Pyridine	<10	-	-	<10	-	-	-	-	<10	-	-	<10
Aniline	<10	-	-	<10	-	-	-	-	<10	-	-	<10
Phenol	<10	-	-	<10	-	-	-	-	<10	-	-	<10
Bis(2-chloroethyl) ether	<10	-	-	<10	-	-	-	-	<10	-	-	<10
Benzene, 1,3-dichloro-	<10	-	-	<10	-	-	-	-	<10	-	-	<10
Benzene, 1,4-dichloro-	<10	-	-	<10	-	-	-	-	<10	-	-	<10
Benzene, 1,2-dichloro-	<10	-	-	<10	-	-	-	-	<10	-	-	<10
Phenol, 2-methyl-	<10	-	-	<10	-	-	-	-	<10	-	-	<10
Ethane, hexachloro-	<10	-	-	<10	-	-	-	-	<10	-	-	<10
Phenol, 3-methyl-	<10	-	-	<10	-	-	-	-	<10	-	-	<10
Nitrobenzene	<10	-	-	<10	-	-	-	-	<10	-	-	<10
Isophorone	<10	-	-	<10	-	-	-	-	<10	-	-	<10
Phenol, 2-nitro-	<10	-	-	<10	-	-	-	-	<10	-	-	<10
Phenol, 2,4-dimethyl-	<10	-	-	<10	-	-	-	-	<10	-	-	<10
Methane, bis(2-chloroethoxy)-	<10	-	-	<10	-	-	-	-	<10	-	-	<10
Phenol, 2,4-dichloro-	<10	-	-	<10	-	-	-	-	<10	-	-	<10
1,3,4-Trichlorobenzene,	<10	-	-	<10	-	-	-	-	<10	-	-	<10
Naphthalene	<10	-	-	-	-	-	-	-	<10	-	-	<10
4-Chloroaniline	<10	-	-	<10	-	-	-	-	<10	-	-	<10
Hexachloro-1,3-butadiene	<10	-	-	<10	-	-	-	-	<10	-	-	<10
Phenol, 4-chloro-3-methyl-	<10	-	-	<10	-	-	-	-	<10	-	-	<10
Naphthalene, 2-methyl-	<10	-	-	<10	-	-	-	-	<10	-	-	<10
Naphthalene, 1-methyl-	<10	-	-	<10	-	-	-	-	<10	-	-	<10
Hexachlorocyclopentadiene	<10	-	-	<10	-	-	-	-	<10	-	-	<10
Phenol, 2,4,6-trichloro-	<10	-	-	<10	-	-	-	-	<10	-	-	<10
Phenol, 2,4,5-trichloro-	<10	-	-	<10	-	-	-	-	<10	-	-	<10
Naphthalene, 2-chloro-	<10	-	-	<10	-	-	-	-	<10	-	-	<10
2-Nitroaniline	<10	-	-	<10	-	-	-	-	<10	-	-	<10
1,4-Dinitrobenzene,	<10	-	-	<10	-	-	-	-	<10	-	-	<10
Dimethylphthalate	<10	-	-	<10	-	-	-	-	<10	-	-	<10
Acenaphthylene	<10	-	-	-	-	-	-	-	<10	-	-	<10
1.3-Dinitrobenzene	<10	-	-	<10	-	-	-	-	<10	-	-	<10
3-Nitroaniline	<10	-	-	<10	-	-	-	-	<10	-	-	<10
Acenaphthene	<10	-	-	-	-	-	-	-	<10	-	-	<10
Dibenzofuran	<10	-	-	<10	-	-	-	-	<10	-	-	<10
2,4-Dinitrotoluene	<10	-	-	<10	-	-	-	-	<10	-	-	<10
2,3,4,6-Tetrachlorophenol,	<10	-	-	<10	-	-	-	-	<10	-	-	<10

Constituent	GW16D ES3	GW16D ES5	GW17 ES2	GW17 ES6	GW18 ES2	GW19 ES4	GW20 ES1	GW21 ES1	GW22 ES1	GW23 ES1	GW23 ES2	GW24D ES1
	1.80 - 2.0	3.80 - 4.0	0.5 - 0.6	4.5 - 4.7	0.80 - 0.90	2.5 - 2.7	GL - 0.2	0 - 0.2	0 - 0.2	GL - 0.2	0.9 - 1.0	0 - 0.2
Stone Content	5	<1	4	<1	6	2	5	2	<1	3	3	9
Metals/Metalloids												
Arsenic**	20.7	89.7	36.9	26.8	25.9	24.5	12.7	8.3	9.2	9.6	10.9	42.1
Cadmium**	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium**	4	13	9	5	9	8	11	7	5	8	6	12
Lead**	3	5	4	2	20	8	19	16	11	35	19	9
Mercury**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Nickel**	2	9	4.5	3.7	6	5	6.4	4	4	6.3	5	6
Copper**	<1	3	4.6	2	11	10	5.6	4	6	7.6	5	3
Zinc**	22	47	25.7	21.2	26	24	32.3	35	25	33.4	13.7	30
Selenium	<0.5	<0.5	<0.5	<0.5	0.6	0.6	<0.5	<0.5	<0.5	<0.5	0.54	<0.5
Hexavalent Chromium	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Water Soluble Boron	0.5	0.6	8.2	0.5	<0.5	<0.5	<0.5	0.5	<0.5	<0.5	<0.5	<0.5
Inorganics												
pH Value**	8.7	8.2	5.87	6.76	8.8	8.6	7.7	7	7.7	7.7	7.81	8.4
Total Sulphate	<0.05	0.45	0.05	<0.05	0.24	0.23	0.06	<0.05	0.15	0.07	<0.05	<0.05
Total Cyanide**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Sulphide	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Elemental Sulphur**	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Total Monohydric Phenols**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
PAHs												
Naphthalene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benz(a)anthracene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b)fluoranthene**	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene**	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene**	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(123-cd)pyrene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenz(ah)anthracene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total PAH**	0.4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TPH Aromatic												
TPH Aromatic C5-C7	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH Aromatic C7-C8	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH Aromatic C8-C10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TPH aromatic C10-C12	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TPH Aromatic C12-C16	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.12
TPH Aromatic C16-C21	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.36	<0.1	<0.1	0.4	0.52	0.1
TPH Aromatic C21-C35	<0.1	0.25	1.8	<0.1	<0.1	0.3	0.44	<0.1	0.27	0.55	0.85	<0.1
TPH Aliphatic												
TPH Aliphatic C5-C6	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH Aliphatic C6-C8	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH Aliphatic C8-C10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TPH Aliphatic C10-C12	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TPH Aliphatic C12-C16	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.14
TPH Aliphatic C16-C21	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.69	<0.1	<0.1	0.84	0.99	<0.1
TPH Aliphatic C21-C35	0.11	0.11	0.62	<0.1	0.5	0.9	<0.1	0.16	<0.1	0.26	0.2	<0.1
TPH (C5 - C35)	0.3	1	2.42	<0.1	0.5	1.1	1.48	0.2	0.3	2.04	2.56	0.36
Asbestos	-	-	none	-	none	none	-	-	-	none	-	-
VOCs												
Benzene**	<10	-	<10	<10	<10	<10	-	<10	<10	-	-	-
Toluene**	<10	-	<10	<10	<10	<10	-	<10	<10	-	-	-
Ethyl Benzene**	<10	-	<10	<10	<10	<10	-	<10	<10	-	-	-
mpXylene**	<10	-	<10	<10	<10	<10	-	<10	<10	-	-	-
oXylene**	<10	-	<10	<10	<10	<10	-			-	-	-
1, 2-Dichloroethene-cis**	<10	-	<10	<10	<10	<10	-	-	-	-	-	-
1, 1-Dichloroethane**	<10	-	<10	<10	<10	<10	-	-	-	-	-	-
Chloroform**	<10	-	<10	<10	<10	<10	-	-	-	-	-	-
Carbontetrachloride**	<10	-	<10	<10	<10	<10	-	-	-	-	-	-
1, 1, 1-Trichloroethane**	<10	-	<10	<10	<10	<10	-	-	-	-	-	-
Trichloroethylene**	<10	-	<10	<10	<10	<10	-	-	-	-	-	-
Tetrachloroethylene**	<10	-	<10	<10	<10	<10	-	-	-	-	-	-
1, 1, 1, 2-Tetrachloroethane**	<10	-	<10	<10	<10	<10	-	-	-	-	-	-
1, 1, 2, 2-Tetrachloroethane**	<10	-	<10	<10	<10	<10	-	-	-	-	-	-
Chlorobenzene**	<10	-	<10	<10	<10	<10	-	-	-	-	-	-
Bromobenzene**	<10	-	<10	<10	<10	<10	-	-	-	-	-	-
Bromodichloromethane**	<10	-	<10	<10	<10	<10	-	-	-	-	-	-
Methylethylbenzene**	<10	-	<10	<10	<10	<10	-	-	-	-	-	-
1, 1-Dichloro-1-propene**	<10	-	<10	<10	<10	<10	-	-	-	-	-	-
1, 2-Dichloroethene-trans	<10	-	<10	<10	<10	<10	-	-	-	-	-	-
2, 2-Dichloropropane	<10	-	<10	<10	<10	<10	-	-	-	-	-	-
Bromochloromethane	<10	-	<10	<10	<10	<10	-	-	-	-	-	-
1, 2-Dichloroethane	<10	-	<10	<10	<10	<10	-	-	-	-	-	-
Dibromomethane**	<10	-	<10	<10	<10	<10	-	-	-	-	-	-
1, 2-Dichloropropane**	<10	-	<10	<10	<10	<10	-	-	-	-	-	-
1, 3-Dichloro1propene**	<10	-	<10	<10	<10	<10	-	-	-	-	-	-
1, 3-Dichloro1propene trans	<10	-	<10	<10	<10	<10	-	-	-	-	-	-
1, 1, 2-Trichloroethane	<10	-	<10	<10	<10	<10	-	-	-	-	-	-
Dibromochloromethane	<10	-	<10	<10	<10	<10	-	-	-	-	-	-
1, 3-Dichloropropane	<10	-	<10	<10	<10	<10	-	-	-	-	-	-
Dibromoethane**	<10	-	<10	<10	<10	<10	-	-	-	-	-	-
Styrene	<10	-	<10	<10	<10	<10	-	-	-	-	-	-
Propylbenzene	<10	-	<10	<10	<10	<10	-	-	-	-	-	-
2-Chlorotoluene	<10	-	<10	<10	<10	<10	-	-	-	-	-	-
1, 2, 4-Trimethylbenzene	<10	-	<10	<10	<10	<10	-	-	-	-	-	-
4-Chlorotoluene	<10	-	<10	<10	<10	<10	-	-	-	-	-	-
t-Butylbenzene	<10	-	<10	<10	<10	<10	-	-	-	-	-	-
Trimethylbenzene	<10	-	<10	<10	<10	<10	-	-	-	-	-	-
1-Methylpropylbenzene	<10	-	<10	<10	<10	<10	-	-	-	-	-	-
o-Cymene	<10	-	<10	<10	<10	<10	-	-	-	-	-	-
1, 4-Dichlorobenzene	<10	-	<10	<10	<10	<10	-	-	-	-	-	-
Butylbenzene	<10	-	<10	<10	<10	<10	-	-	-	-	-	-
1, 2-Dibromo-3-chloropropane	<10	-	<10	<10	<10	<10	-	-	-	-	-	-
Hexachlorobutaciene	<10	-	<10	<10	<10	<10	-	-	-	-	-	-
1, 2, 3-Trichlorobenzene	<10	-	<10	<10	<10	<10	-	-	-	-	-	-
1, 2, 4-Trichlorobenzene	<10	-	<10	<10	<10	<10	-	-	-	-	-	-
1, 3-Dichlorobenzene	<10	-	<10	<10	<10	<10	-	-	-	-	-	-
1, 2-Dichlorobenzene	<10	-	<10	<10	<10	<10	-	-	-	-	-	-
Bromoform	<10	-	<10	<10	<10	<10	-	-	-	-	-	-
Vinyl Chloride	-	-	<10	<10	<10	<10	-	-	-	-	-	-
SVOCs												
Pyridine	<10	-	<10	<10	<10	<10	-	-	-	-	-	-
Aniline	<10	-	<10	<10	<10	<10	-	-	-	-	-	-
Phenol	<10	-	<10	<10	<10	<10	-	-	-	-	-	-
Bis(2-chloroethyl) ether	<10	-	<10	<10	<10	<10	-	-	-	-	-	-
Benzene, 1,3-dichloro-	<10	-	<10	<10	<10	<10	-	-	-	-	-	-
Benzene, 1,4-dichloro-	<10	-	<10	<10	<10	<10	-	-	-	-	-	-
Benzene, 1,2-dichloro-	<10	-	<10	<10	<10	<10	-	-	-	-	-	-
Phenol, 2-methyl-	<10	-	<10	<10	<10	<10	-	-	-	-	-	-
Ethane, hexachloro-	<10	-	<10	<10	<10	<10	-	-	-	-	-	-
Phenol, 3-methyl-	<10	-	<10	<10	<10	<10	-	-	-	-	-	-
Nitrobenzene	<10	-	<10	<10	<10	<10	-	-	-	-	-	-
Isophorone	<10	-	<10	<10	<10	<10	-	-	-	-	-	-
Phenol, 2-nitro-	<10	-	<10	<10	<10	<10	-	-	-	-	-	-
Phenol, 2,4-dimethyl-	<10	-	<10	<10	<10	<10	-	-	-	-	-	-
Methane, bis(2-chloroethoxy)-	<10	-	<10	<10	<10	<10	-	-	-	-	-	-
Phenol, 2,4-dichloro-	<10	-	<10	<10	<10	<10	-	-	-	-	-	-
1,3,4-Trichlorobenzene,	<10	-	<10	<10	<10	<10	-	-	-	-	-	-
Naphthalene	<10	-	-	-	-	-	-	-	-	-	-	-
4-Chloroaniline	<10	-	<10	<10	<10	<10	-	-	-	-	-	-
Hexachloro-1,3-butadiene	<10	-	<10	<10	<10	<10	-	-	-	-	-	-
Phenol, 4-chloro-3-methyl-	<10	-	<10	<10	<10	<10	-	-	-	-	-	-
Naphthalene, 2-methyl-	<10	-	<10	<10	<10	<10	-	-	-	-	-	-
Naphthalene, 1-methyl-	<10	-	<10	<10	<10	<10	-	-	-	-	-	-
Hexachlorocyclopentadiene	<10	-	<10	<10	<10	<10	-	-	-	-	-	-
Phenol, 2,4,6-trichloro-	<10	-	<10	<10	<10	<10	-	-	-	-	-	-
Phenol, 2,4,5-trichloro-	<10	-	<10	<10	<10	<10	-	-	-	-	-	-
Naphthalene, 2-chloro-	<10	-	<10	<10	<10	<10	-	-	-	-	-	-
2-Nitroaniline	<10	-	<10	<10	<10	<10	-	-	-	-	-	-
1,4-Dinitrobenzene,	<10	-	<10	<10	<10	<10	-	-	-	-	-	-
Dimethylphthalate	<10	-	<10	<10	<10	<10	-	-	-	-	-	-
Acenaphthylene	<10	-	-	-	-	-	-	-	-	-	-	-
1.3-Dinitrobenzene	<10	-	<10	<10	<10	<10	-	-	-	-	-	-
3-Nitroaniline	<10	-	<10	<10	<10	<10	-	-	-	-	-	-
Acenaphthene	<10	-	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	<10	-	<10	<10	<10	<10	-	-	-	-	-	-
2,4-Dinitrotoluene	<10	-	<10	<10	<10	<10	-	-	-	-	-	-
2,3,4,6-Tetrachlorophenol,	<10	-	<10	<10	<10	<10	-	-	-	-	-	-

Constituent	GW24D ES3	G2 ES1	G2 ES3	G3 ES2	G3 ES4	G3 ES6	G4 ES2	G4 ES4	G4 ES8	G6 ES6
	1.5 - 1.7	0.1 - 0.3	1.4 - 1.6	0.4 - 0.6	1.7 - 1.9	3.7 - 3.9	0.70 - 0.90	2.50 - 2.70	6.50 - 6.70	4.5 - 4.7
Stone Content	17	6	27	4	<1	<1	3	8	<1	7
Metals/Metalloids										
Arsenic**	51.8	35.5	27.2	27.3	107.5	30	57.3	71.4	25.8	5.4
Cadmium**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium**	15	10	11	10	21.6	40	11	20	40	7
Lead**	7	5	4	6	8.7	23.2	6	11	21	2
Mercury**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Nickel**	7	4.9	6.6	5	21	30	6	12	32	4.2
Copper**	4	2.6	4.3	2	5	11	1	5	14	2.6
Zinc**	33	23.3	19.7	30	47	75	38	43	86	10.1
Selenium	<0.5	0.51	<0.5	<0.5	0.59	1	<0.5	0.9	1.2	<0.5
Hexavalent Chromium	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Water Soluble Boron	<0.5	<0.5	0.6	<0.5	0.6	2.2	<0.5	<0.5	6.7	<0.5
Inorganics										
pH Value**	8.3	8.1	8.3	8.3	7.6	6.9	8.3	8.6	8	9.65
Total Sulphate	0.09	0.15	0.07	0.05	0.12	0.17	<0.05	<0.05	0.12	0.07
Total Cyanide**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Sulphide	<2	<2	<2	4.6	4.4	21.1	<2	<2	40.1	<2
Elemental Sulphur**	29.6	<10	<10	80	20	64	<10	15	199	<10
Total Monohydric Phenols**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
PAHs										
Naphthalene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene**	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene**	<0.1	<0.1	<0.1	<0.1	0.13	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene**	<0.1	<0.1	<0.1	<0.1	0.14	<0.1	<0.1	<0.1	0.19	<0.1
Pyrene**	<0.1	<0.1	<0.1	<0.1	0.18	<0.1	<0.1	<0.1	<0.1	<0.1
Benz(a)anthracene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b)fluoranthene**	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(123-cd)pyrene**	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1
Dibenz(ah)anthracene**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene**	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1
Total PAH**	<0.1	<0.1	<0.1	<0.1	0.7	0.3	<0.1	<0.1	0.2	<0.1
TPH Aromatic										
TPH Aromatic C5-C7	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH Aromatic C7-C8	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH Aromatic C8-C10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TPH aromatic C10-C12	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TPH Aromatic C12-C16	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TPH Aromatic C16-C21	<0.1	<0.1	0.74	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TPH Aromatic C21-C35	-50.69	<0.1	<0.1	0.59	0.71	0.48	<0.1	<0.1	<0.1	0.14
TPH Aliphatic										
TPH Aliphatic C5-C6	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TPH Aliphatic C6-C8	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.1	<0.1	<0.1	<0.1
TPH Aliphatic C8-C10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TPH Aliphatic C10-C12	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TPH Aliphatic C12-C16	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.32	<0.1
TPH Aliphatic C16-C21	0.45	<0.1	0.47	<0.1	0.15	<0.1	0.85	0.61	1.62	<0.1
TPH Aliphatic C21-C35	46.2	2.25	1.71	1.13	0.48	0.15	0.85	0.61	1.94	0.14
TPH (C5 - C35)	-97.34	2.25	2.91	1.72	1.34	0.63				
Asbestos	-	-	-	-	-	-				
VOCs							<10	-	-	-
Benzene**	-	-	-	<10	-	-	<10	-	-	-
Toluene**	-	-	-	<10	-	-	<10	-	-	-
Ethyl Benzene**	-	-	-	<10	-	-	<10	-	-	-
mpXylene**	-	-	-	<10	-	-	<10	-	-	-
oXylene**	-	-	-	<10	-	-	<10	-	-	-
1, 2-Dichloroethene-cis**	-	-	-	<10	-	-	<10	-	-	-
1, 1-Dichloroethane**	-	-	-	<10	-	-	<10	-	-	-
Chloroform**	-	-	-	<10	-	-	<10	-	-	-
Carbontetrachloride**	-	-	-	<10	-	-	<10	-	-	-
1, 1, 1-Trichloroethane**	-	-	-	<10	-	-	<10	-	-	-
Trichloroethylene**	-	-	-	<10	-	-	<10	-	-	-
Tetrachloroethylene**	-	-	-	<10	-	-	<10	-	-	-
1, 1, 1, 2-Tetrachloroethane**	-	-	-	<10	-	-	<10	-	-	-
1, 1, 2, 2-Tetrachloroethane**	-	-	-	<10	-	-				
Chlorobenzene**	-	-	-	<10	-	-	<10	-	-	-
Bromobenzene**	-	-	-	<10	-	-	<10	-	-	-
Bromodichloromethane**	-	-	-	<10	-	-	<10	-	-	-
Methylethylbenzene**	-	-	-	<10	-	-	<10	-	-	-
1, 1-Dichloro-1-propene**	-	-	-	<10	-	-	<10	-	-	-
1, 2-Dichloroethene-trans	-	-	-	<10	-	-	<10	-	-	-
2, 2-Dichloropropane	-	-	-	<10	-	-	<10	-	-	-
Bromochloromethane	-	-	-	<10	-	-	<10	-	-	-
1, 2-Dichloroethane	-	-	-	<10	-	-	<10	-	-	-
Dibromomethane**	-	-	-	<10	-	-	<10	-	-	-
1, 2-Dichloropropane**	-	-	-	<10	-	-	<10	-	-	-
1, 3-Dichloro1propene**	-	-	-	<10	-	-	<10	-	-	-
1, 3-Dichloro1propene trans	-	-	-	<10	-	-	<10	-	-	-
1, 1, 2-Trichloroethane	-	-	-	<10	-	-	<10	-	-	-
Dibromochloromethane	-	-	-	<10	-	-	<10	-	-	-
1, 3-Dichloropropane	-	-	-	<10	-	-	<10	-	-	-
Dibromoethane**	-	-	-	<10	-	-	<10	-	-	-
Styrene	-	-	-	<10	-	-	<10	-	-	-
Propylbenzene	-	-	-	<10	-	-	<10	-	-	-
2-Chlorotoluene	-	-	-	<10	-	-	<10	-	-	-
1, 2, 4-Trimethylbenzene	-	-	-	<10	-	-	<10	-	-	-
4-Chlorotoluene	-	-	-	<10	-	-	<10	-	-	-
t-Butylbenzene	-	-	-	<10	-	-	<10	-	-	-
Trimethylbenzene	-	-	-	<10	-	-	<10	-	-	-
1-Methylpropylbenzene	-	-	-	<10	-	-	<10	-	-	-
o-Cymene	-	-	-	<10	-	-	<10	-	-	-
1, 4-Dichlorobenzene	-	-	-	<10	-	-	<10	-	-	-
Butylbenzene	-	-	-	<10	-	-	<10	-	-	-
1, 2-Dibromo-3-chloropropane	-	-	-	<10	-	-	<10	-	-	-
Hexachlorobutaciene	-	-	-	<10	-	-	<10	-	-	-
1, 2, 3-Trichlorobenzene	-	-	-	<10	-	-	<10	-	-	-
1, 2, 4-Trichlorobenzene	-	-	-	<10	-	-	<10	-	-	-
1, 3-Dichlorobenzene	-	-	-	<10	-	-	<10	-	-	-
1, 2-Dichlorobenzene	-	-	-	<10	-	-	<10	-	-	-
Bromoform	-	-	-	<10	-	-	<10	-	-	-
Vinyl Chloride	-	-	-	-	-	-	-	-	-	-
SVOCs										
Pyridine	-	-	-	<10	-	-	<10	-	-	-
Aniline	-	-	-	<10	-	-	<10	-	-	-
Phenol	-	-	-	<10	-	-	<10	-	-	-
Bis(2-chloroethyl) ether	-	-	-	<10	-	-	<10	-	-	-
Benzene, 1,3-dichloro-	-	-	-	<10	-	-	<10	-	-	-
Benzene, 1,4-dichloro-	-	-	-	<10	-	-	<10	-	-	-
Benzene, 1,2-dichloro-	-	-	-	<10	-	-	<10	-	-	-
Phenol, 2-methyl-	-	-	-	<10	-	-	<10	-	-	-
Ethane, hexachloro-	-	-	-	<10	-	-	<10	-	-	-
Phenol, 3-methyl-	-	-	-	<10	-	-	<10	-	-	-
Nitrobenzene	-	-	-	<10	-	-	<10	-	-	-
Isophorone	-	-	-	<10	-	-	<10	-	-	-
Phenol, 2-nitro-	-	-	-	<10	-	-	<10	-	-	-
Phenol, 2,4-dimethyl-	-	-	-	<10	-	-	<10	-	-	-
Methane, bis(2-chloroethoxy)-	-	-	-	<10	-	-	<10	-	-	-
Phenol, 2,4-dichloro-	-	-	-	<10	-	-	<10	-	-	-
1,3,4-Trichlorobenzene,	-	-	-	<10	-	-	<10	-	-	-
Naphthalene	-	-	-	-	-	-	-	-	-	-
4-Chloroaniline	-	-	-	<10	-	-	<10	-	-	-
Hexachloro-1,3-butadiene	-	-	-	<10	-	-	<10	-	-	-
Phenol, 4-chloro-3-methyl-	-	-	-	<10	-	-	<10	-	-	-
Naphthalene, 2-methyl-	-	-	-	<10	-	-	<10	-	-	-
Naphthalene, 1-methyl-	-	-	-	<10	-	-	<10	-	-	-
Hexachlorocyclopentadiene	-	-	-	<10	-	-	<10	-	-	-
Phenol, 2,4,6-trichloro-	-	-	-	<10	-	-	<10	-	-	-
Phenol, 2,4,5-trichloro-	-	-	-	<10	-	-	<10	-	-	-
Naphthalene, 2-chloro-	-	-	-	<10	-	-	<10	-	-	-
2-Nitroaniline	-	-	-	<10	-	-	<10	-	-	-
1,4-Dinitrobenzene,	-	-	-	<10	-	-	<10	-	-	-
Dimethylphthalate	-	-	-	<10	-	-	<10	-	-	-
Acenaphthylene	-	-	-	-	-	-	-	-	-	-
1.3-Dinitrobenzene	-	-	-	<10	-	-	<10	-	-	-
3-Nitroaniline	-	-	-	<10	-	-	<10	-	-	-
Acenaphthene	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	-	-	-	<10	-	-	<10	-	-	-
2,4-Dinitrotoluene	-	-	-	<10	-	-	<10	-	-	-
2,3,4,6-Tetrachlorophenol,	-	-	-	<10	-	-	<10	-	-	-

ATKINS

Assessment Criteria :	*Public Open Space (Parks) - 1% SOM Sand*
Use MRL Values?	

Contaminant		Generic Assessment Criteria (mg/kg)	Number of Samples	Minimum Value	Maximum Value	Number of Exceedences	Locations of Exceedences	GW10 ES1	GW10 ES2	GW10 ES7	GW12 ES8	GW12 ES9	GW13 ES2	GW13 ES4	GW13 ES9	GW15 ES2	GW15 ES	GW15 ES5	GW16D ES2	GW16D ES3	GW16D ES5	GW17 ES2	GW17 ES6	GW18 ES2	GW19 ES4	GW20 ES1	GW21 ES1	GW22 ES1	GW23 ES1	GW23 ES2	GW24D ES1	GW24D ES3	G2 ES1	G2 ES3	G3 ES2	G3 ES4	G3 ES6	G4 ES2	G4 ES4	G4 ES8	G6 ES6
								0.1 - 0.3	0.8 - 1.0	5.2 - 5.5	6.5 - 6.7	7.5 - 7.7	0.5 - 0.7	2.5 - 2.7	7.0 - 7.2	0.8 - 1.0	2.1 - 2.3	3.3 - 3.5	0.80 - 1.0	1.80 - 2.0	3.80 - 4.0	0.5 - 0.6	4.5 - 4.7	0.80 - 0.90	2.5 - 2.7	GL - 0.2	0 - 0.2	0 - 0.2	GL - 0.2	0.9 - 1.0	0 - 0.2	1.5 - 1.7	0.1 - 0.3	1.4 - 1.6	0.4 - 0.6	1.7 - 1.9	3.7 - 3.9	0.70 - 0.90	2.50 - 2.70	6.50 - 6.70	4.5 - 4.7
2,3,5,6-Tetrachlorophenol,	(µg/kg)	No SSV	48	<10	<10	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
Diethylphthalate	(µg/kg)	No SSV	48	<10	111.87	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
Fluorene	(µg/kg)	19600	4	<10	<10	0		<10	-	-	-	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Diphenylamine	(µg/kg)	No SSV	48	<10	<10	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
Azobenzene	(µg/kg)	No SSV	48	<10	<10	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
4-Bromophenyl phenyl ether	(µg/kg)	No SSV	48	<10	<10	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
Hexachlorobenzene	(µg/kg)	No SSV	48	<10	<10	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
Pentachlorophenol	(µg/kg)	No SSV	48	<10	<10	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
Phenanthrene	(µg/kg)	No SSV	4	<10	<10	0		<10	-	-	-	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	(µg/kg)	150000	4	<10	<10	0		<10	-	-	-	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	(µg/kg)	20200	4	<10	<10	0		<10	-	-	-	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	(µg/kg)	15100	4	<10	<10	0		<10	-	-	-	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzylbutylphthalate	(µg/kg)	No SSV	48	<10	<10	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
Bis(2-ethylhexyl)adipate	(µg/kg)	No SSV	48	<10	<10	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
Benzo(a)anthracene	(µg/kg)	BaP Surrogate	4	<10	<10	0		<10	-	-	-	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	(µg/kg)	4660	4	<10	<10	0		<10	-	-	-	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bis(2-ethylhexyl)phthalate	(µg/kg)	No SSV	48	<10	<10	0		<10	-	-	<10	-	-	-	-	<10	-	-	<10	<10	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	<10	-	-	<10	-	-	-
Benzo(b)fluoranthene	(µg/kg)	BaP Surrogate	4	<10	<10	0		<10	-	-	-	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	(µg/kg)	BaP Surrogate	4	<10	<10	0		<10	-	-	-	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	(µg/kg)	21.4	4	<10	<10	0		<10	-	-	-	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeno[1,2,3-cd]pyrene	(µg/kg)	BaP Surrogate	4	<10	<10	0		<10	-	-	-	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenz(ah)anthracene	(µg/kg)	BaP Surrogate	4	<10	<10	0		<10	-	-	-	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(ghi)perylene	(µg/kg)	BaP Surrogate	4	<10	<10	0		<10	-	-	-	-	-	-	-	<10	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCBs																																										
PCB 28**	(µg/kg)	No SSV	12	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	<10	-	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCB 52**	(µg/kg)	No SSV	12	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	<10	-	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCB 101**	(µg/kg)	No SSV	12	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	<10	-	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCB 118**	(µg/kg)	No SSV	12	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	<10	-	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCB 138**	(µg/kg)	No SSV	12	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	<10	-	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCB 153**	(µg/kg)	No SSV	12	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	<10	-	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCB 180**	(µg/kg)	No SSV	12	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	<10	-	-	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OCPs																																									
Alpha BHC**	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beta BHC**	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gamma BHC**	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Delta BHC**	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Heptachlor	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aldrin	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Heptachlor epoxide	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlordane	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endosulfan I	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
cis-Chlordane	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pp-DDE**	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dieldrin	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endrin	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pp-DDD**	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endrin Aldehyde	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pp DDT**	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endosulfan II	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endrin Ketone	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pp-Methoxychlor	(µg/kg)	No SSV	5	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OPPs																																									
Mevinphos	(µg/kg)	No SSV	1	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dimethoate	(µg/kg)	No SSV	1	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Propetamphos	(µg/kg)	No SSV	1	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorpyriphos-methyl	(µg/kg)	No SSV	1	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fenitrothion	(µg/kg)	No SSV	1	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Malathion	(µg/kg)	No SSV	1	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Parathion	(µg/kg)	No SSV	1	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trans-Chlorfenvinphos	(µg/kg)	No SSV	1	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromophos	(µg/kg)	No SSV	1	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Triazophos	(µg/kg)	No SSV	1	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phosalone	(µg/kg)	No SSV	1	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Azinphos-methyl	(µg/kg)	No SSV	1	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Azinphos-ethyl	(µg/kg)	No SSV	1	<10	<10	0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

ATKINS CatWasteSoil

Classification Assessment Tool of Soil Wastes - Hazard Summary Sheet

Site Name	Sizewell
Location	Sizewell, Suffolk
Site ID	Sizewell C
Job Number	5166065
Date	6/8/2018
User Name	Joe.Rogers@atkinsglobal.com
Company Name	Atkins

Hole ID	Sample Depth	Hazardous Waste Y/N	HP1	HP2	HP3	HP4	HP5	HP6	HP7	HP8	HP9	HP10	HP11	HP12	HP13	HP14	HP15	HP16
TP72 ES3	1.5 - 1.6	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
TP73 ES2	0.5 - 0.6	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
TP74 ES1	0 - 0.2	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
TP74 ES3	1.5 - 1.6	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
TP76 ES2	0.5 - 0.6	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
TP76 ES4	2.5 - 2.6	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
TPN1 ES2	0.5 - 0.6	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
TPN2 ES2	0.5 - 0.6	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
TPN3 ES2	0.5 - 0.6	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
TPN4 ES3	1.5 - 1.6	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
BH1 ES1	0.1 - 0.3	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
BH1 ES3	1.3 - 1.5	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
BH4 ES2	0.6 - 0.8	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
BH6 ES8	6.5 - 6.7	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
BH7 ES6	4.5 - 4.7	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
BH7 ES13	11.5 - 11.7	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
GW1D ES2	0.7 - 0.8	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
GW1D ES3	1.7 - 1.8	Y	No	No	No	No	No	No	No	No	No	No	No	No	No	Yes	No	No
GW1D ES5	3.7 - 3.8	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
GW1D ES6	4.1 - 4.2	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
GW2 ES2	0.8 - 0.9	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
GW3 ES2	0.9 - 1.0	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
GW3 ES5	3.7 - 3.8	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
GW4 ES2	0.5 - 0.6	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
GW6D ES2	0.5 - 0.6	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
GW6D E	3.5 - 3.7	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
GW6D ES8	4.9 - 5.1	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
GW7 ES2	0.8 - 1.0	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
GW7 ES3	1.5 - 1.7	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
GW7 ES6	4.4 - 4.6	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
GW8 ES2	0.5 - 0.6	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
GW8 ES8	6.5 - 6.7	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
GW8 ES10	8.5 - 8.7	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
GW9D ES1	0 - 0.2	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
GW9D ES4	2.7 - 2.9	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
GW9D ES7	5.7 - 5.9	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
GW10 ES1	0.1 - 0.3	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
GW10 ES2	0.8 - 1.0	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
GW10 ES7	5.2 - 5.5	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
GW12 ES8	6.5 - 6.7	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
GW12 ES9	7.5 - 7.7	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
GW13 ES2	0.5 - 0.7	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
GW13 ES4	2.5 - 2.7	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
GW13 ES9	7.0 - 7.2	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
GW15 ES2	0.8 - 1.0	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
GW15 ES	2.1 - 2.3	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
GW15 ES5	3.3 - 3.5	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
GW16D ES2	0.80 - 1.0	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
GW16D ES3	1.80 - 2.0	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
GW16D ES5	3.80 - 4.0	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
GW17 ES2	0.5 - 0.6	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No

ATKINS CatWasteSoil

Classification Assessment Tool of Soil Wastes - Hazard Summary Sheet

Site Name	Sizewell
Location	Sizewell, Suffolk
Site ID	Sizewell C
Job Number	5166065
Date	6/8/2018
User Name	Joe.Rogers@atkinsglobal.com
Company Name	Atkins

Hole ID	Sample Depth	Hazardous Waste Y/N	HP1	HP2	HP3	HP4	HP5	HP6	HP7	HP8	HP9	HP10	HP11	HP12	HP13	HP14	HP15	HP16
GW17 ES6	4.5 - 4.7	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
GW18 ES2	0.80 - 0.90	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
GW19 ES4	2.5 - 2.7	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
GW20 ES1	GL - 0.2	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
GW21 ES1	0 - 0.2	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
GW22 ES1	0 - 0.2	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
GW23 ES1	GL - 0.2	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
GW23 ES2	0.9 - 1.0	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
GW24D ES1	0 - 0.2	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
GW24D ES3	1.5 - 1.7	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
G2 ES1	0.1 - 0.3	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
G2 ES3	1.4 - 1.6	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
G3 ES2	0.4 - 0.6	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
G3 ES4	1.7 - 1.9	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
G3 ES6	3.7 - 3.9	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
G4 ES2	0.70 - 0.90	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
G4 ES4	2.50 - 2.70	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
G4 ES8	6.50 - 6.70	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
G6 ES6	4.5 - 4.7	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No

Appendix I – Leachate Screening Results

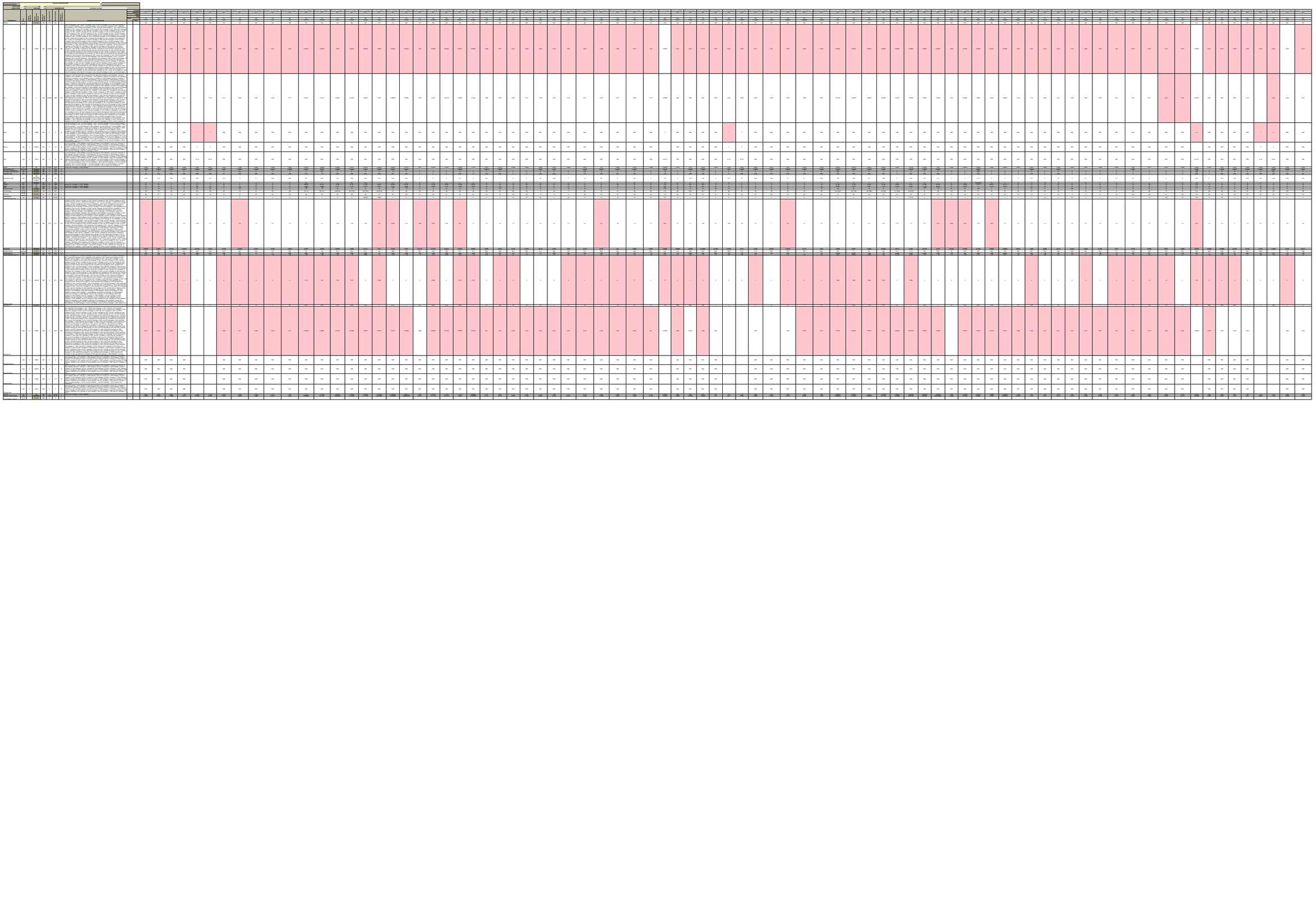
ATKINS

Assessment Criteria :	Drinking Water Standard
CaCO	0.00
Calcium	0.00
DOC	0.00
DOC	0.00
Catchment area	Freshwater not listed

Constituents	Unit	Generic Assessment Criteria (mg/l)	Number of Samples	Minimum Value	Maximum Value	Number of Exceedences	Locations of Exceedences	Zone	CP BP7	CP BP7	CP BP7	CP BP7	CP BP7	CP BP11	CP BP11	CP BP11	CP BP11	CP BP11	CPBBP9	CPBBP9	CPBBP9	CPBBP9	cpbBP13	cpbBP13	cpbBP13	cpbBP13	cpbBP13	
#% Stones >10mmA	% w/w	No WSV	19	<0.1	1.4	0			2.2	<0.1	<0.1	1.4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Carbonate as CaCO3D	% w/w	No WSV	12	<0.8	8.4	0			-	-	<0.8	4.7	<0.8	-	-	<0.8	<0.8	<0.8	-	-	<0.8	2.5	-	-	8.4	2	1.5	
#Fraction of organic carbonD	N/A	No WSV	8	<0.0003	0.0006	0			-	-	<0.0003	-	-	-	-	<0.0003			-	-	<0.0003	-	-	-	0.0006	-		
Leachate Prep BS EN 12457-2 (10:1)A		No WSV	15	0	0	0													*	*	-	-	*	*	-	-		
pH	pH	6.5-9.5	11	6.25	7.83	1	cpbBP13		7.19	7.15	-	-	-	7.5	7.53	-			7.17	7.83	-	-	6.74	6.25	-	-		
Chloride	mg/l	250	11	<1	3.54	0			<1.00	<1	-	-	-	1.61	<1	-			<1	<1	-	-	3.14	3.54	-	-		
Sulphate	mg/l	250	11	<1	11.46	0			2.19	<1	-	-	-	1.84	<1	-			1.92	1.84	-	-	11.46	10.72	-	-		
Arsenic	mg/l	0.01	11	0.001	0.004	0			<0.001	0.002	-	-	-	0.001	0.003	-			0.002	0.004	-	-	0.003	0.002	-	-		
Cadmium	mg/l	0.005	11	0.001	<0.001	0			<0.001	<0.001	-	-	-	<0.001	<0.001	-			<0.001	<0.001	-	-	<0.001	<0.001	-	-		
Copper	mg/l	2	11	0.001	0.001	0			<0.001	<0.001	-	-	-	<0.001	<0.001	-			0.001	<0.001	-	-	0.001	<0.001	-	-		
Chromium	mg/l	0.05	11	0.001	0.001	0			<0.001	<0.001	-	-	-	<0.001	<0.001	-			0.001	<0.001	-	-	<0.001	<0.001	-	-		
Lead	mg/l	0.01	11	0.001	<0.001	0			0.004	<0.001	-	-	-	<0.001	<0.001	-			<0.001	<0.001	-	-	<0.001	<0.001	-	-		
Mercury	mg/l	0.001	11	0.0001	<0.0001	0			<0.0001	<0.0001	-	-	-	<0.0001	<0.0001	-			<0.0001	<0.0001	-	-	<0.0001	<0.0001	-	-		
Nickel	mg/l	0.02	11	0.001	<0.001	0			<0.001	<0.001	-	-	-	<0.001	<0.001	-			<0.001	<0.001	-	-	<0.001	<0.001	-	-		
Selenium	mg/l	0.01	11	0.001	<0.001	0			<0.001	<0.001	-	-	-	<0.001	<0.001	-			<0.001	<0.001	-	-	<0.001	<0.001	-	-		
Zinc	mg/l	3	11	0.002	0.01	0			0.003	0.004	-	-	-	0.003	0.002	-			0.005	0.004	-	-	0.004	0.01	-	-		
PAH 16MS		No WSV	15	0.06	0.08	0			<0.02	0.06	-	-	-	0.08	0.08	-												
Acenaphthene	mg/l	See BaP	11	0.00002	0.00003	0			<0.00002	<0.00002	-	-	-	<0.00002	<0.00002	-			0.00002	0.00003	-	-	<0.00002	<0.00002	-	-		
Acenaphthylene	mg/l	See BaP	11	0.00002	0.00002	0			<0.00002	<0.00002	-	-	-	0.00002	<0.00002	-			<0.00002	<0.00002	-	-	<0.00002	<0.00002	-	-		
Anthracene	mg/l	See BaP	11	0.00002	<0.00002	0			<0.00002	<0.00002	-	-	-	<0.00002	<0.00002	-			<0.00002	<0.00002	-	-	<0.00002	<0.00002	-	-		
Benzo(a)anthracene	mg/l	See BaP	11	0.00002	<0.00002	0			<0.00002	<0.00002	-	-	-	<0.00002	<0.00002	-			<0.00002	<0.00002	-	-	<0.00002	<0.00002	-	-		
Benzo(a)pyrene	mg/l	0.00001	11	0.00002	<0.00002	0			<0.00002	<0.00002	-	-	-	<0.00002	<0.00002	-			<0.00002	<0.00002	-	-	<0.00002	<0.00002	-	-		
Benzo(b)fluoranthene	mg/l	See PAH Sum of 4	11	0.00002	<0.00002	0			<0.00002	<0.00002	-	-	-	<0.00002	<0.00002	-			<0.00002	<0.00002	-	-	<0.00002	<0.00002	-	-		
Benzo(ghi)perylene	mg/l	See PAH Sum of 4	11	0.00002	0.00002	0			<0.00002	<0.00002	-	-	-	<0.00002	<0.00002	-			0.00002	<0.00002	-	-	<0.00002	<0.00002	-	-		
Benzo(k)fluoranthene	mg/l	See PAH Sum of 4	11	0.00002	<0.00002	0			<0.00002	<0.00002	-	-	-	<0.00002	<0.00002	-			<0.00002	<0.00002	-	-	<0.00002	<0.00002	-	-		
Chrysene	mg/l	See BaP	11	0.00002	<0.00002	0			<0.00002	<0.00002	-	-	-	<0.00002	<0.00002	-			<0.00002	<0.00002	-	-	<0.00002	<0.00002	-	-		
Dibenzo(ah)anthracene	mg/l	No WSV	11	0.00002	<0.00002	0			<0.00002	<0.00002	-	-	-	<0.00002	<0.00002	-			<0.00002	<0.00002	-	-	<0.00002	<0.00002	-	-		
Fluoranthene	mg/l	See BaP	11	0.00002	0.00004	0			<0.00002	0.00002	-	-	-	0.00004	0.00003	-			<0.00002	<0.00002	-	-	<0.00002	<0.00002	-	-		
Fluorene	mg/l	See BaP	11	0.00002	<0.00002	0			<0.00002	<0.00002	-	-	-	<0.00002	<0.00002	-			<0.00002	<0.00002	-	-	<0.00002	<0.00002	-	-		
Indeno(123-cd)pyrene	mg/l	See PAH Sum of 4	11	<0.00002	0.00007	0			<0.00002	0.00007	-	-	-	<0.00002	<0.00002	-			<0.00002	<0.00002	-	-	<0.00002	<0.00002	-	-		
Naphthalene	mg/l	See BaP	11	0.00002	<0.00002	0			<0.00002	<0.00002	-	-	-	<0.00002	<0.00002	-			<0.00002	<0.00002	-	-	<0.00002	<0.00002	-	-		
Phenanthrene	mg/l	See BaP	11	0.00002	0.00002	0			<0.00002	<0.00002	-	-	-	0.00002	<0.00002	-			<0.00002	<0.00002	-	-	<0.00002	<0.00002	-	-		
Pyrene	mg/l	See BaP	11	<0.00002	0.00016	0			<0.00002	0.00015	-	-	-	0.00016	0.00011	-			<0.00002	<0.00002	-	-	<0.00002	<0.00002	-	-		
PAH (total 16)	mg/l	No WSV	15	<0.00002	0.00004	0													0.00004	0.00003	-	-	<0.00002	<0.00002	-	-		

Assessment Criteria :	Coastal and Estuarine EQS																													
CaCO	0.00		0.00	DOC	0.00																									
Calcium	0.00	DOC	0.00	Catchment area	Freshwater not listed																									
Constituents	**Unit**	**Generic Assessment Criteria (mg/l)**	**Number of Samples**	**Minimum Value**	**Maximum Value**	**Number of Exceedences**	**Locations of Exceedences**	**Zone**	CP BP7	CP BP7	CP BP7	CP BP7	CP BP7	CP BP11	CP BP11	CP BP11	CP BP11	CP BP11	CPBBP9	CPBBP9	CPBBP9	CPBBP9	cpbBP13	cpbBP13	cpbBP13	cpbBP13	cpbBP13	
#% Stones >10mmA	% w/w	No WSV	19	<0.1	1.4	0			2.2	<0.1	<0.1	1.4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Carbonate as CaCO3D	% w/w	No WSV	12	<0.8	8.4	0			-	-	<0.8	4.7	<0.8	-	-	<0.8	<0.8	<0.8	-	-	<0.8	2.5	-	-	8.4	2	1.5	
#Fraction of organic carbonD	N/A	No WSV	8	<0.0003	0.0006	0			-	-	<0.0003	-	-	-	-	<0.0003			-	-	<0.0003	-	-	-	0.0006	-		
Leachate Prep BS EN 12457-2 (10:1)A		No WSV	15	0	0	0													*	*	-	-	*	*	-	-		
pH	pH	7 - 9.0	11	6.25	7.83	2	cpbBP13; cpbBP13		7.19	7.15	-	-	-	7.5	7.53	-			7.17	7.83	-	-	6.74	6.25	-	-		
Chloride	mg/l	N/A	11	<1	3.54	0			<1.00	<1	-	-	-	1.61	<1	-			<1	<1	-	-	3.14	3.54	-	-		
Sulphate	mg/l	N/A	11	<1	11.46	0			2.19	<1	-	-	-	1.84	<1	-			1.92	1.84	-	-	11.46	10.72	-	-		
Arsenic	mg/l	0.025	11	0.001	0.004	0			<0.001	0.002	-	-	-	0.001	0.003	-			0.002	0.004	-	-	0.003	0.002	-	-		
Cadmium	mg/l	0.0002	11	0.001	<0.001	0			<0.001	<0.001	-	-	-	<0.001	<0.001	-			<0.001	<0.001	-	-	<0.001	<0.001	-	-		
Copper	mg/l	0.00376	11	0.001	0.001	0			<0.001	<0.001	-	-	-	<0.001	<0.001	-			0.001	<0.001	-	-	0.001	<0.001	-	-		
Chromium	mg/l	0.0006	11	0.001	0.001	1	CPBBP9		<0.001	<0.001	-	-	-	<0.001	<0.001	-			0.001	<0.001	-	-	<0.001	<0.001	-	-		
Lead	mg/l	0.0013	11	0.001	<0.001	0			0.004	<0.001	-	-	-	<0.001	<0.001	-			<0.001	<0.001	-	-	<0.001	<0.001	-	-		
Mercury	mg/l	0.00007	11	0.0001	<0.0001	0			<0.0001	<0.0001	-	-	-	<0.0001	<0.0001	-			<0.0001	<0.0001	-	-	<0.0001	<0.0001	-	-		
Nickel	mg/l	0.0086	11	0.001	<0.001	0			<0.001	<0.001	-	-	-	<0.001	<0.001	-			<0.001	<0.001	-	-	<0.001	<0.001	-	-		
Selenium	mg/l	N/A	11	0.001	<0.001	0			<0.001	<0.001	-	-	-	<0.001	<0.001	-			<0.001	<0.001	-	-	<0.001	<0.001	-	-		
Zinc	mg/l	0.0068	11	0.002	0.01	1	cpbBP13		0.003	0.004	-	-	-	0.003	0.002	-			0.005	0.004	-	-	0.004	0.01	-	-		
PAH 16MS		No WSV	15	0.06	0.08	0			<0.02	0.06	-	-	-	0.08	0.08	-												
Acenaphthene	mg/l	N/A	11	0.00002	0.00003	0			<0.00002	<0.00002	-	-	-	<0.00002	<0.00002	-			0.00002	0.00003	-	-	<0.00002	<0.00002	-	-		
Acenaphthylene	mg/l	N/A	11	0.00002	0.00002	0			<0.00002	<0.00002	-	-	-	0.00002	<0.00002	-			<0.00002	<0.00002	-	-	<0.00002	<0.00002	-	-		
Anthracene	mg/l	0.0001	11	0.00002	<0.00002	0			<0.00002	<0.00002	-	-	-	<0.00002	<0.00002	-			<0.00002	<0.00002	-	-	<0.00002	<0.00002	-	-		
Benzo(a)anthracene	mg/l	N/A	11	0.00002	<0.00002	0			<0.00002	<0.00002	-	-	-	<0.00002	<0.00002	-			<0.00002	<0.00002	-	-	<0.00002	<0.00002	-	-		
Benzo(a)pyrene	mg/l	0.00000017	11	0.00002	<0.00002	0			<0.00002	<0.00002	-	-	-	<0.00002	<0.00002	-			<0.00002	<0.00002	-	-	<0.00002	<0.00002	-	-		
Benzo(b)fluoranthene	mg/l	0.000017	11	0.00002	<0.00002	0			<0.00002	<0.00002	-	-	-	<0.00002	<0.00002	-			<0.00002	<0.00002	-	-	<0.00002	<0.00002	-	-		
Benzo(ghi)perylene	mg/l	0.00000082	11	0.00002	0.00002	1	CPBBP9		<0.00002	<0.00002	-	-	-	<0.00002	<0.00002	-			0.00002	<0.00002	-	-	<0.00002	<0.00002	-	-		
Benzo(k)fluoranthene	mg/l	0.000017	11	0.00002	<0.00002	0			<0.00002	<0.00002	-	-	-	<0.00002	<0.00002	-			<0.00002	<0.00002	-	-	<0.00002	<0.00002	-	-		
Chrysene	mg/l	See BaP	11	0.00002	<0.00002	0			<0.00002	<0.00002	-	-	-	<0.00002	<0.00002	-			<0.00002	<0.00002	-	-	<0.00002	<0.00002	-	-		
Dibenzo(ah)anthracene	mg/l	No WSV	11	0.00002	<0.00002	0			<0.00002	<0.00002	-	-	-	<0.00002	<0.00002	-			<0.00002	<0.00002	-	-	<0.00002	<0.00002	-	-		
Fluoranthene	mg/l	0.0000063	11	0.00002	0.00004	3	CP BP7; CP BP11; CP BP11		<0.00002	0.00002	-	-	-	0.00004	0.00003	-			<0.00002	<0.00002	-	-	<0.00002	<0.00002	-	-		
Fluorene	mg/l	N/A	11	0.00002	<0.00002	0			<0.00002	<0.00002	-	-	-	<0.00002	<0.00002	-			<0.00002	<0.00002	-	-	<0.00002	<0.00002	-	-		
Indeno(123-cd)pyrene	mg/l	N/A	11	<0.00002	0.00007	0			<0.00002	0.00007	-	-	-	<0.00002	<0.00002	-			<0.00002	<0.00002	-	-	<0.00002	<0.00002	-	-		
Naphthalene	mg/l	0.002	11	0.00002	<0.00002	0			<0.00002	<0.00002	-	-	-	<0.00002	<0.00002	-			<0.00002	<0.00002	-	-	<0.00002	<0.00002	-	-		
Phenanthrene	mg/l	See BaP	11	0.00002	0.00002	0			<0.00002	<0.00002	-	-	-	0.00002	<0.00002	-			<0.00002	<0.00002	-	-	<0.00002	<0.00002	-	-		
Pyrene	mg/l	N/A	11	<0.00002	0.00016	0			<0.00002	0.00015	-	-	-	0.00016	0.00011	-			<0.00002	<0.00002	-	-	<0.00002	<0.00002	-	-		
PAH (total 16)	mg/l	No WSV	15	<0.00002	0.00004	0													0.00004	0.00003	-	-	<0.00002	<0.00002	-	-		

Appendix J – Surface Water Screening Results



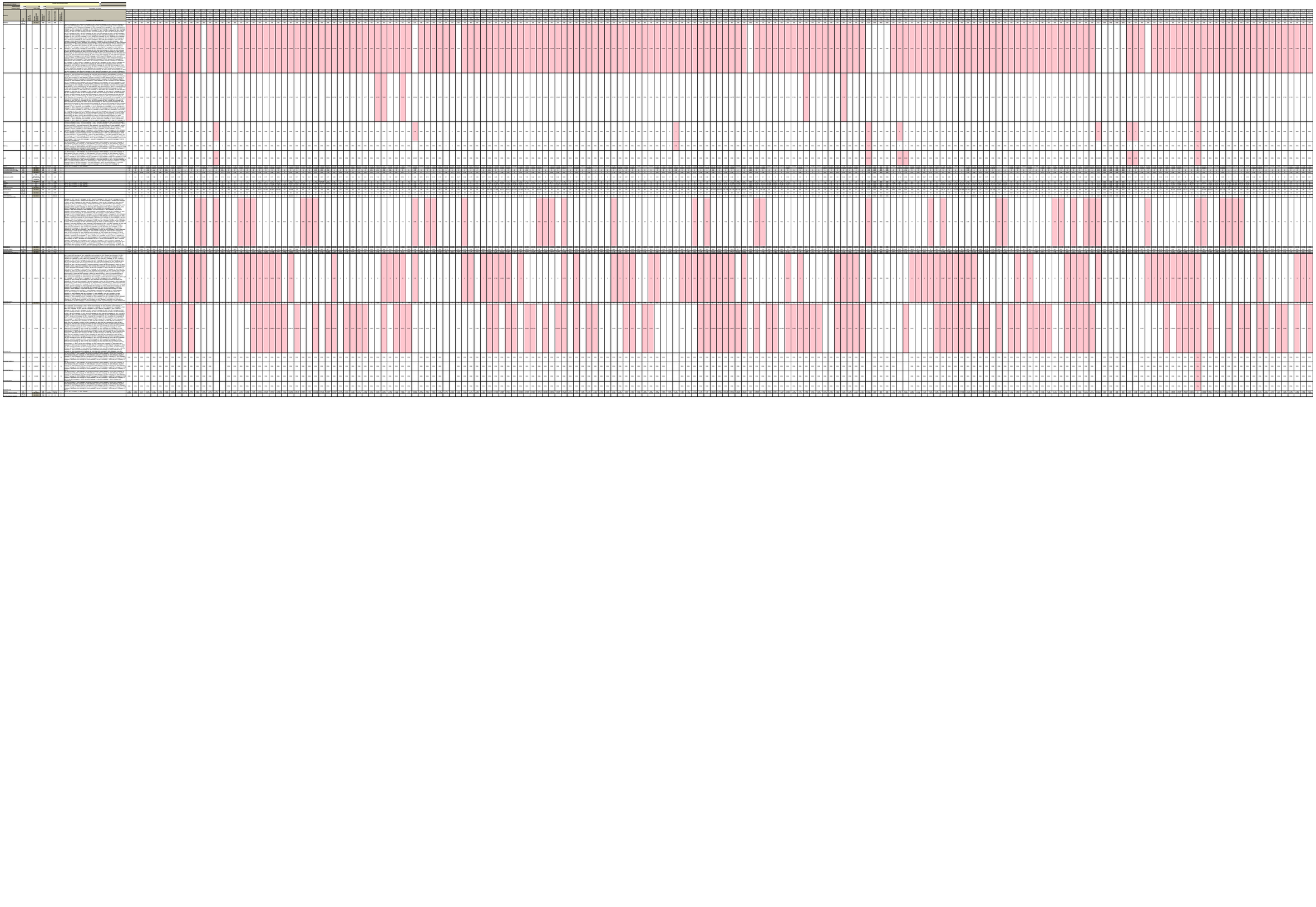
ATKINS

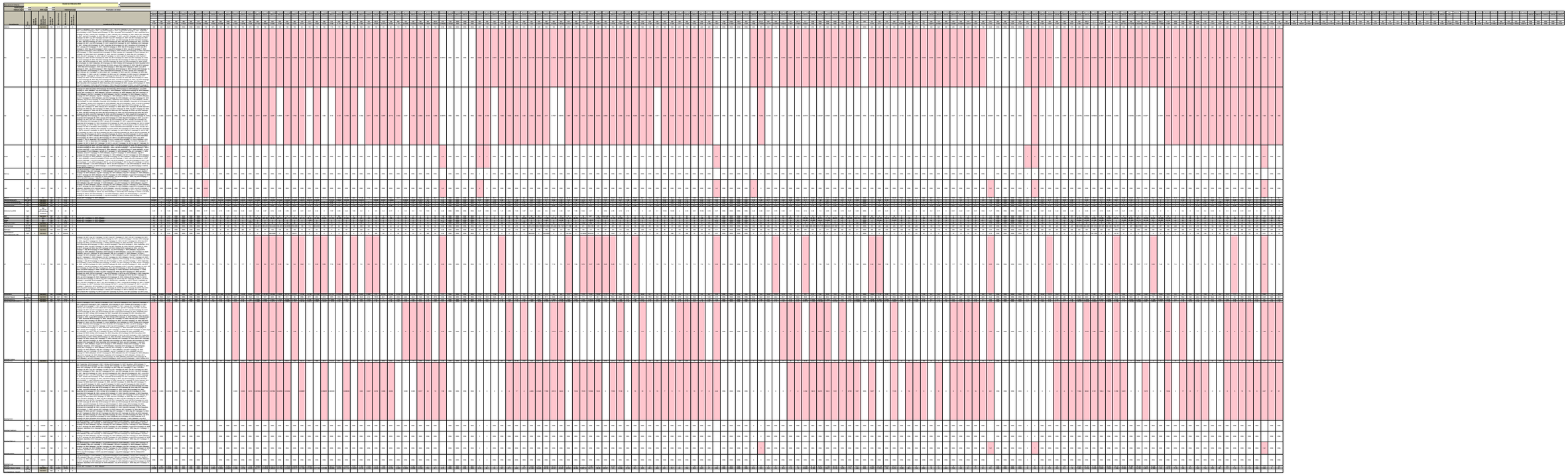
Assessment Criteria :	Coastal and Estuarine EQS			
CaCO (mg/l): 0.00	pH: 0.00			
Calcium (mg/l): 0.00	DOC (mg/l): 0.00	Catchment area:	Freshwater not listed	

Constituents	Unit	Limit of Detection	Generic Assessment Criteria	Number of Samples	Minimum Value	Maximum Value	Number of Exceedences	Locations of Exceedences
Alkalinity	mg/l as CaCO3		No WSV	592	0.16	650	0	
Zinc	mg/l		0.0068	592	0.00042	112	540	[illegible]
Iron	mg/l		1	592	0.00078	1689	136	[illegible]
Nickel	mg/l	0	0.0086	592	0	6	42	[illegible]
Mercury	mg/l	0	0.00007	592	0	1.41	16	[illegible]
Lead	mg/l	0	0.0013	592	0	16	29	[illegible]
Sodium	mg/l		N/A	592	0.0002	2396	1	January 2011 Campaign 13, SW5 (Stillwater)
Total Ammonia as N	mg/l as N		No WSV	592	0	8.24	0	
Un-ionised ammonia as N	mg/l		No WSV	592	0	3.66	0	
Un-ionised ammonia as NH3	mg/l		No WSV	592	0	3.66	0	
Ammonium as N	mg/l		No WSV	592	0	39.24	0	
Ammonium as NH4	mg/l		Not appropriate, see Unionised Ammonia	592	0	48	0	
BOD	mg/l		No WSV	592	0	130	0	
Chloride	mg/l		N/A	592	0.22	15655	1	January 2011 Campaign 13, SW5 (Stillwater)
Nitrate	mg/l		N/A	592	0	94	1	January 2011 Campaign 13, SW5 (Stillwater)
Nitrite	mg/l		N/A	592	0	5.92	1	January 2011 Campaign 13, SW5 (Stillwater)
Suspended Solids	mg/l		No WSV	592	0	8378	0	
Total Hardness	mg/l as CaCO3		No WSV	592	0.23	6487	0	
Hardness~	mg/l as CaCO3		No WSV	592	0.23	4325	0	
Total Petroleum Hydrocarbons(C8-C35)	mg/l	0	No WSV	592	0	3169.93	0	
pH	pH units		7 - 9.0	592	0.05	8.4	134	[illegible]
Temperature	oC		No WSV	592	0.00028	20.3	0	
Dissolved Oxygen	% saturation		No WSV	592	0.21	159.3	0	
Total Phosphorus	mg/l		No WSV	592	0.02	25.74	0	
Soluble Reactive Phosphorus	mg/l		No WSV	592	0	4.32	0	
Dissolved Copper	mg/l	0	0.00376	592	0	30.1	259	[illegible]
Dissolved Iron	mg/l	0	No WSV	592	10	31740	0	
Dissolved Zinc	mg/l	0	0.0068	592	0	237.8	354	[illegible]
Dissolved Cadmium	mg/l	0	0.0002	592	0	0	14	[illegible]
Dissolved Mercury	mg/l	0	0.00007	592	0	0	14	[illegible]
Dissolved Nickel	mg/l	0	0.0086	592	0	1.41	18	[illegible]
Dissolved Lead	mg/l	0	0.0013	592	0	0	14	[illegible]
Sulphate	mg/l		N/A	592	0	410.447	1	January 2011 Campaign 13, SW5 (Stillwater)
Dissolved Organic Carbon	mg/l		No WSV	592	0.0001	139.56	0	
Acid Neutralising Capacity	mg/l as CaCO3		No WSV	592	0	0	0	

Assessment Criteria :	Coastal and Estuarine EQS									
CaCO (mg/l):	0.00	pH	0.00							
Calcium (mg/l):	0.00	DOC (mg/l)	0.00	Catchment area:	Freshwater not listed					

Constituents	Unit	Limit of Detection	Generic Assessment Criteria	Number of Samples	Minimum Value	Maximum Value	Number of Exceedences	Locations of Exceedences	June 2011 Campaign 18 SW5 (Stillwater) 380 0.03852	Aug 2011 Campaign 19 SW5 (Stillwater) 440 0.01629
Alkalinity	mg/l as CaCO3		No WSV	592	0.16	650	0		Dry	Dry
Zinc	mg/l		0.0068	592	0.00042	112	540	[illegible]	Dry	Dry
Iron	mg/l		1	592	0.00078	1689	136	[illegible]	Dry	Dry
Nickel	mg/l	0	0.0086	592	0	6	42	[illegible]	Dry	Dry
Mercury	mg/l	0	0.00007	592	0	1.41	16	[illegible]	Dry	Dry
Lead	mg/l	0	0.0013	592	0	16	29	[illegible]	Dry	Dry
Sodium	mg/l		N/A	592	0.0002	2396	1	January 2011 Campaign 13, SW5 (Stillwater)	Dry	Dry
Total Ammonia as N	mg/l as N		No WSV	592	0	8.24	0		Dry	Dry
Un-ionised ammonia as N	mg/l		No WSV	592	0	3.66	0		Dry	Dry
Un-ionised ammonia as NH3	mg/l		No WSV	592	0	3.66	0		Dry	Dry
Ammonium as N	mg/l		No WSV	592	0	39.24	0		Dry	Dry
Ammonium as NH4	mg/l		Not appropriate, see Unionised Ammonia	592	0	48	0		Dry	Dry
BOD	mg/l		No WSV	592	0	130	0		Dry	Dry
Chloride	mg/l		N/A	592	0.22	15655	1	January 2011 Campaign 13, SW5 (Stillwater)	Dry	Dry
Nitrate	mg/l		N/A	592	0	94	1	January 2011 Campaign 13, SW5 (Stillwater)	Dry	Dry
Nitrite	mg/l		N/A	592	0	5.92	1	January 2011 Campaign 13, SW5 (Stillwater)	Dry	Dry
Suspended Solids	mg/l		No WSV	592	0	6378	0		Dry	Dry
Total Hardness	mg/l as CaCO3		No WSV	592	0.23	6487	0		Dry	Dry
Hardness~	mg/l as CaCO3		No WSV	592	0.23	4325	0		Dry	Dry
Total Petroleum Hydrocarbons(C8-C35)	mg/l	0	No WSV	592	0	3169.93	0		Dry	Dry
pH	pH units		7 - 9.0	592	0.05	8.4	134	[illegible]	Dry	Dry
Temperature	oC		No WSV	592	0.00028	20.3	0		Dry	Dry
Dissolved Oxygen	% saturation		No WSV	592	0.21	159.3	0		Dry	Dry
Total Phosphorus	mg/l		No WSV	592	0.02	25.74	0		Dry	Dry
Soluble Reactive Phosphorus	mg/l		No WSV	592	0	4.32	0		Dry	Dry
Dissolved Copper	mg/l	0	0.00376	592	0	30.1	259	[illegible]	Dry	Dry
Dissolved Iron	mg/l	0	No WSV	592	10	31740	0		Dry	Dry
Dissolved Zinc	mg/l	0	0.0068	592	0	237.8	354	[illegible]	Dry	Dry
Dissolved Cadmium	mg/l	0	0.0002	592	0	0	14	[illegible]	Dry	Dry
Dissolved Mercury	mg/l	0	0.00007	592	0	0	14	[illegible]	Dry	Dry
Dissolved Nickel	mg/l	0	0.0086	592	0	1.41	18	[illegible]	Dry	Dry
Dissolved Lead	mg/l	0	0.0013	592	0	0	14	[illegible]	Dry	Dry
Sulphate	mg/l		N/A	592	0	410.447	1	January 2011 Campaign 13, SW5 (Stillwater)	Dry	Dry
Dissolved Organic Carbon	mg/l		No WSV	592	0.0001	139.56	0		Dry	Dry
Acid Neutralising Capacity	mg/l as CaCO3		No WSV	592	0	0	0			





Assessment Criteria :	Coastal and Estuarine EQS				
CaCO (mg/l):	0.00	pH	0.00		
Calcium (mg/l):	0.00	DOC (mg/l)	0.00	Catchment area:	Freshwater not listed

Constituents	Unit	Limit of Detection	Generic Assessment Criteria	Number of Samples	Minimum Value	Maximum Value	Number of Exceedences	Locations of Exceedences
Electrical Conductivity	µS/cm		No WSV	29	650	1400	0	
Suspended Solids At 105C	mg/l		No WSV	29	<5	670	0	
Biochemical Oxygen Demand Low Level	mg O2/l		No WSV	29	1	16	0	
Chemical Oxygen Demand Low Level	mg O2/l		No WSV	29	8.7	88	0	
Alkalinity (Total)	mg CaCO3/l		No WSV	29	130	470	0	
Chloride	mg/l		N/A	29	50	280	0	
Ammoniacal Nitrogen	mg/l		No WSV	29	0.061	0.66	0	
Ammonium	mg/l		No WSV	29	0.025	1.1	0	
Nitrite	mg/l		N/A	29	<0.02	1.1	0	
Nitrate	mg/l		N/A	29	<0.5	75	0	
Phosphate	mg/l		No WSV	29	0.05	0.9	0	
Phosphorus (Total)	mg/l		No WSV	29	<0.02	0.3	0	
Sulphate	mg/l		N/A	29	51	110	0	
Total Oxidised Nitrogen	mg/l		No WSV	29	<0.2	16	0	
Cyanide (Free) Low-Level	mg/l		No WSV	29	<0.005	0.006	0	
Calcium	mg/l		N/A	29	95	180	0	
Potassium	mg/l		N/A	29	1.8	12	0	
Magnesium	mg/l		N/A	29	7	22	0	
Sodium	mg/l		N/A	29	19	140	0	
Arsenic (Dissolved)	mg/l		0.025	29	<0.001	0.0054	0	
Boron (Dissolved)	mg/l		No WSV	29	0.02	0.69	0	
Cadmium (Dissolved)	mg/l		0.0002	29	<0.00008	0.0002	0	
Chromium (Dissolved)	mg/l		0.0006	29	<0.001	0.068	24	G7, 69876; G3, 151074; G4, 151075; G5, 151076; G8, 151077; SW1, 151078; SW4, 151079; G1, 152244; SW2, 152245; G6A, 155740; G7A, 155741; SW3, 155742; SW8, 155743; G3, 165549; SW1, 166085; SW4, 166086; G4, 166087; G8, 166088; G6A, 169379; SW8, 169380; SW10, 169381; G7a, 169669; SW2, 169670; C7, 205961
Copper (Dissolved)	mg/l		0.00376	29	<0.001	0.0039	1	G7, 69876
Manganese (Dissolved)	mg/l		N/A	29	0.0068	0.0068	0	
Nickel (Dissolved)	mg/l		0.0086	29	0.001	0.0051	0	
Lead (Dissolved)	mg/l		0.0013	29	<0.001	<0.001	0	
Zinc (Dissolved)	mg/l		0.0068	29	0.004	0.046	21	G6a, 69222; G1, 69223; G3, 69224; G4, 69225; G5, 69226; G7, 69876; G3, 151074; G4, 151075; G5, 151076; G8, 151077; SW1, 151078; G1, 152244; SW2, 152245; G6A, 155740; G7A, 155741; SW3, 155742; G4, 166087; G8, 166088; G6A, 169379; SW2, 169670; C7, 205961
Mercury Low Level	mg/l		No WSV	29	<0.00001	0.00019	0	
Iron (Dissolved)	mg/l		1	29	0.02	0.53	0	
Total Organic Carbon	mg/l		No WSV	29	2.2	11	0	
Total TPH >C6-C40	mg/l		No WSV	29	<0.00001	0.031	0	
Naphthalene	mg/l		0.002	29	<0.00001	<0.00001	0	
Acenaphthylene	mg/l		N/A	29	<0.00001	<0.00001	0	
Acenaphthene	mg/l		N/A	29	<0.00001	<0.00001	0	
Fluorene	mg/l		N/A	29	<0.00001	<0.00001	0	
Phenanthrene	mg/l		See BaP	29	<0.00001	<0.00001	0	
Anthracene	mg/l		0.0001	29	<0.00001	<0.00001	0	
Fluoranthene	mg/l		0.0000063	29	<0.00001	<0.00001	0	
Pyrene	mg/l		N/A	29	<0.00001	<0.00001	0	
Benzo[a]anthracene	mg/l		N/A	29	<0.00001	<0.00001	0	
Chrysene	mg/l		See BaP	29	<0.00001	<0.00001	0	
Benzo[b]fluoranthene	mg/l		0.000017	29	<0.00001	<0.00001	0	
Benzo[k]fluoranthene	mg/l		0.000017	29	<0.00001	<0.00001	0	
Benzo[a]pyrene	mg/l		0.00000017	29	<0.00001	<0.00001	0	
Indeno(1,2,3-c,d)Pyrene	mg/l		N/A	29	<0.00001	<0.00001	0	
Dibenz(a,h)Anthracene	mg/l		N/A	29	<0.00001	<0.00001	0	
Benzo[g,h,i]perylene	mg/l		0.00000082	29	<0.00001	<0.00001	0	
Total Of 16 PAH's	mg/l		No WSV	29	<0.0002	<0.0002	0	
Dichlorodifluoromethane	mg/l		No WSV	29	<0.00001	<0.001	0	
Chloromethane	mg/l		No WSV	29	<0.001	<0.001	0	
Vinyl Chloride	mg/l		N/A	29	<0.001	<0.001	0	
Bromomethane	mg/l		No WSV	29	<0.005	<0.005	0	
Chloroethane	mg/l		No WSV	29	<0.002	<0.002	0	
Trichlorofluoromethane	mg/l		No WSV	29	<0.001	<0.001	0	
1,1-Dichloroethene	mg/l		No WSV	29	<0.001	<0.001	0	
Trans 1,2-Dichloroethene	mg/l		No WSV	29	<0.001	<0.001	0	
1,1-Dichloroethane	mg/l		No WSV	29	<0.001	<0.001	0	
cis 1,2-Dichloroethene	mg/l		No WSV	29	<0.001	<0.001	0	
Bromochloromethane	mg/l		No WSV	29	<0.005	<0.005	0	
Trichloromethane	mg/l		0.0025	29	<0.001	<0.001	0	
1,1,1-Trichloroethane	mg/l		0.1	29	<0.001	<0.001	0	
Tetrachloromethane	mg/l		0.012	29	<0.001	<0.001	0	
1,1-Dichloropropene	mg/l		No WSV	29	<0.001	<0.001	0	
Benzene	mg/l		0.008	29	<0.001	<0.001	0	
1,2-Dichloroethane	mg/l		0.01	29	<0.002	<0.002	0	
Trichloroethene	mg/l		0.01	29	<0.001	<0.001	0	
1,2-Dichloropropane	mg/l		N/A	29	<0.001	<0.001	0	
Dibromomethane	mg/l		No WSV	29	<0.01	<0.01	0	
Bromodichloromethane	mg/l		N/A	29	<0.005	<0.005	0	
cis-1,3-Dichloropropene	mg/l		No WSV	29	<0.01	<0.01	0	
Toluene	mg/l		0.074	29	<0.001	<0.001	0	
Trans-1,3-Dichloropropene	mg/l		No WSV	29	<0.01	<0.01	0	
1,1,2-Trichloroethane	mg/l		0.3	29	<0.01	<0.01	0	
Tetrachloroethene	mg/l		0.01	29	<0.001	<0.001	0	
1,3-Dichloropropane	mg/l		No WSV	29	<0.002	<0.002	0	
Dibromochloromethane	mg/l		N/A	29	<0.01	<0.01	0	
1,2-Dibromoethane	mg/l		N/A	29	<0.005	<0.005	0	
Chlorobenzene	mg/l		No WSV	29	<0.001	<0.001	0	
1,1,1,2-Tetrachloroethane	mg/l		No WSV	29	<0.002	<0.002	0	
Ethylbenzene	mg/l		0.02	29	<0.001	<0.001	0	
m & p-Xylene	mg/l		0.03	29	<0.001	<0.001	0	
o-Xylene	mg/l		0.03	29	<0.001	<0.001	0	
Styrene	mg/l		0.05	29	<0.001	<0.001	0	
Tribromomethane	mg/l		No WSV	29	<0.001	<0.001	0	
Isopropylbenzene	mg/l		No WSV	29	<0.001	<0.001	0	
Bromobenzene	mg/l		No WSV	29	<0.001	<0.001	0	
1,2,3-Trichloropropane	mg/l		No WSV	29	<0.05	<0.05	0	
N-Propylbenzene	mg/l		No WSV	29	<0.001	<0.001	0	
2-Chlorotoluene	mg/l		No WSV	29	<0.001	<0.001	0	
1,3,5-Trimethylbenzene	mg/l		No WSV	29	<0.001	<0.001	0	
4-Chlorotoluene	mg/l		No WSV	29	<0.001	<0.001	0	
Tert-Butylbenzene	mg/l		No WSV	29	<0.001	<0.001	0	
1,2,4-Trimethylbenzene	mg/l		No WSV	29	<0.001	<0.001	0	
Sec-Butylbenzene	mg/l		No WSV	29	<0.001	<0.001	0	
1,3-Dichlorobenzene	mg/l		No WSV	29	<0.001	<0.001	0	
4-Isopropyltoluene	mg/l		No WSV	29	<0.001	<0.001	0	
1,4-Dichlorobenzene	mg/l		0.02	29	<0.001	<0.001	0	
N-Butylbenzene	mg/l		No WSV	29	<0.001	<0.001	0	
1,2-Dichlorobenzene	mg/l		0.02	29	<0.001	<0.001	0	
1,2-Dibromo-3-Chloropropane	mg/l		N/A	29	<0.05	<0.05	0	
1,2,4-Trichlorobenzene	mg/l		No WSV	29	<0.001	<0.001	0	
Hexachlorobutadiene	mg/l		0.0006	29	<0.001	<0.001	0	
1,2,3-Trichlorobenzene	mg/l		No WSV	29	<0.002	<0.002	0	
Methyl Tert-Butyl Ether	mg/l		No WSV	29	<0.001	<0.001	0	
PCB 28	mg/l		No WSV	29	<0.00001	<0.00001	0	
PCB 52	mg/l		No WSV	29	<0.00001	<0.00001	0	
PCB 101	mg/l		No WSV	29	<0.00001	<0.00001	0	
PCB 118	mg/l		No WSV	29	<0.00001	<0.00001	0	
PCB 153	mg/l		No WSV	29	<0.00001	<0.00001	0	
PCB 138	mg/l		No WSV	29	<0.00001	<0.00001	0	
PCB 180	mg/l		No WSV	29	<0.00001	<0.00001	0	
Total PCBs (7 congeners)	mg/l		No WSV	29	<0.00001	<0.00001	0	
Total Phenols	mg/l		No WSV	29	<0.03	<0.03	0	

Location	G6a	G1	G3	G4	G5	G7	G3	G4	G5	G8	SW1	SW4	G1	SW2	G6A
Sample ID	69222	69223	69224	69225	69226	69876	151074	151075	151076	151077	151078	151079	152244	152245	155740
Depth															
Date															
Strata															
Zone															
Electrical Conductivity	650	700	740	890	920	760	870	990	1100	1200	900	840	1000	990	940
Suspended Solids At 105C	7	670	39	37	110	38	16	29	34	79	9	17	<5	<5	<5
Biochemical Oxygen Demand Low Level	3	4	<1	2	<1	4	<1	<1	<1	1.1	<1	<1	1.9	1.8	<1
Chemical Oxygen Demand Low Level	41	43	19	18	13	24	20	25	12	15	13	12	11	9	11
Alkalinity (Total)	250	130	260	280	250	220	430	360	330	330	370	420	220	210	260
Chloride	66	94	55	62	84	91	59	94	130	200	130	56	150	95	96
Ammoniacal Nitrogen							0.22	0.48	0.27	0.16	0.16	0.1			0.078
Ammonium	0.91	0.57	1.1	0.59	0.6	0.31	0.28	0.62	0.35	0.21	0.2	0.13	0.45	0.34	0.1
Nitrite							0.19	1	0.8	0.071	0.71	<0.02			0.14
Nitrate	17	3	21	42	53	7.2	2.3	56	72	22	65	<0.5	31	44	34
Phosphate							0.069	0.47	0.54	0.33	0.53	0.05			0.45
Phosphorus (Total)							0.023	0.16	0.18	0.11	0.18	<0.02			0.15
Sulphate	55	51	61	75	78	53	97	100	110	95	110	80	86	100	96
Total Oxidised Nitrogen							0.59	13	16	5	15	<0.2			7.7
Cyanide (Free) Low-Level	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium	120	95	120	140	140	99	180	150	160	150	150	160	130	170	130
Potassium	6.9	8.6	7.9	6.5	7.8	7.8	8.7	8.2	12	8.1	10	6.3	8.5	9.8	7.7
Magnesium	7	7.9	7.4	8.1	7.9	8.6	12	10	11	14	11	13	17	14	11
Sodium	31	31	29	34	43	40	29	54	79	87	77	37	84	67	54
Arsenic (Dissolved)	<0.001	<0.001	<0.001	0.0012	<0.001	0.0054	0.0015	0.0013	0.0013	0.0021	0.0014	0.0013	0.0019	0.0018	0.0029
Boron (Dissolved)	<0.02	<0.02	<0.02	0.038	0.02	0.69	0.2	0.32	0.23	0.29	0.25	0.25	0.049	0.05	0.048
Cadmium (Dissolved)	0.0002	0.00013	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	0.000087	<0.00008	<0.00008	<0.00008	<0.00008	0.000088	<0.00008
Chromium (Dissolved)	<0.001	<0.001	<0.001	<0.001	<0.001	0.068	0.002	0.0026	0.0031	0.0041	0.0041	0.0032	0.014	0.01	0.016
Copper (Dissolved)	0.0023	0.0027	0.0021	0.0019	0.0022	0.0039	<0.001	0.0022	0.0031	0.0029	0.0027	<0.001	0.0019	0.0022	0.0021
Manganese (Dissolved)															
Nickel (Dissolved)	0.0021	0.0015	0.0013	0.0012	0.0016	0.0014	0.0011	0.0021	0.0051	0.0015	0.0017	<0.001	0.0016	0.0013	0.0017
Lead (Dissolved)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Zinc (Dissolved)	0.014	0.046	0.012	0.014	0.017	0.0069	0.0078	0.015	0.018	0.012	0.016	0.0053	0.0089	0.014	0.013
Mercury Low Level	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Iron (Dissolved)	0.2	0.13	0.03	0.03	0.03	0.15	0.44	0.43	0.43	0.44	0.46	0.42	0.52	0.53	<0.02
Total Organic Carbon							8.9	6	9.6	10	6.5	9.2	6.9	2.6	4.1
Total TPH >C6-C40	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.01	<0.01	<0.01
Naphthalene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Acenaphthylene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Acenaphthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Fluorene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Phenanthrene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Anthracene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Fluoranthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Pyrene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo[a]anthracene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Chrysene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo[b]fluoranthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo[k]fluoranthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo[a]pyrene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Indeno(1,2,3-c,d)Pyrene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Dibenz(a,h)Anthracene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo[g,h,i]perylene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Total Of 16 PAH's	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Dichlorodifluoromethane	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.001	<0.001	<0.001
Chloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vinyl Chloride	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromomethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloroethane	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Trichlorofluoromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trans 1,2-Dichloroethene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
cis 1,2-Dichloroethene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromochloromethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Trichloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,1-Trichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tetrachloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloropropene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Benzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichloroethane	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Trichloroethene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichloropropane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dibromomethane	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bromodichloromethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
cis-1,3-Dichloropropene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Toluene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trans-1,3-Dichloropropene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
1,1,2-Trichloroethane	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Tetrachloroethene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,3-Dichloropropane	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Dibromochloromethane	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
1,2-Dibromoethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,1,2-Tetrachloroethane	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Ethylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
m & p-Xylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
o-Xylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Styrene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tribromomethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Isopropylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2,3-Trichloropropane	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
N-Propylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2-Chlorotoluene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,3,5-Trimethylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
4-Chlorotoluene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tert-Butylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2,4-Trimethylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Sec-Butylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,3-Dichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
4-Isopropyltoluene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,4-Dichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
N-Butylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dibromo-3-Chloropropane	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,2,4-Trichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Hexachlorobutadiene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2,3-Trichlorobenzene	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Methyl Tert-Butyl Ether	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
PCB 28	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
PCB 52	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
PCB 101	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
PCB 118	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
PCB 153	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
PCB 138	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
PCB 180	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Total PCBs (7 congeners)	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Total Phenols	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03

Location	G7A	SW3	SW8	G3	SW1	SW4	G4	G8	G6A	SW8	SW10	G7a	SW2	C7
Sample ID	155741	155742	155743	165549	166085	166086	166087	166088	169379	169380	169381	169669	169670	205961
Depth														
Date														
Strata														
Zone														
Electrical Conductivity	1200	930	1200	880	970	830	970	1400	950	1200	940	1100	990	900
Suspended Solids At 105C	34	9	99	36	40	<5	<5	<5	28	170	410	27	14	<5
Biochemical Oxygen Demand Low Level	<1	<1	1.1	13	1	<1	<1	<1	3.4	3.4	<1	16	5	
Chemical Oxygen Demand Low Level	13	10	30	27	8.7	9.8	9.9	14	8.7	43	12	88	12	
Alkalinity (Total)	290	310	270	430	370	470	450	450	360	350	330	400	400	210
Chloride	240	98	260	58	76	50	88	280	92	230	130	220	130	78
Ammoniacal Nitrogen	0.28	0.061	0.27	0.44	0.66	0.44	0.28	0.19	0.44	0.34	0.074	0.65	0.23	
Ammonium	0.36	0.078	0.35	0.56	0.85	0.57	0.36	0.25	0.57	0.44	0.095	0.83	0.3	0.025
Nitrite	0.1	0.13	0.1	0.024	1.1	0.06	0.56	0.23	0.29	0.082	0.3	<0.02	0.16	<0.02
Nitrate	3.2	33	<0.5	<0.5	47	<0.5	47	16	47	5.6	22	<0.5	44	75
Phosphate	0.27	0.46	0.21	0.62	0.9	0.078	0.77	0.53	0.52	0.29	0.43	0.26	0.58	
Phosphorus (Total)	0.09	0.15	0.07	0.21	0.3	0.026	0.26	0.18	0.17	0.097	0.14	0.087	0.19	
Sulphate	64	98	63	91	95	66	100	100	100	61	78	54	90	88
Total Oxidised Nitrogen	0.75	7.5	<0.2	<0.2	11	<0.2	11	3.6	11	1.3	5	<0.2	9.9	
Cyanide (Free) Low-Level	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.006	<0.005	<0.005	
Calcium	150	130	150	130	140	140	130	140	120	140	130	120	110	120
Potassium	4.6	7.8	4.7	8.1	9.1	6.4	9.8	10	7.3	4.6	7.5	3.8	6.6	1.8
Magnesium	14	11	15	12	10	13	10	22	10	12	10	12	9.3	14
Sodium	70	55	74	30	52	27	55	140	46	62	49	56	48	19
Arsenic (Dissolved)	0.0035	0.0022	0.0034	0.0017	0.002	0.0015	0.0016	0.0034	0.0015	0.0039	0.0023	0.0032	0.0011	<0.001
Boron (Dissolved)	0.044	0.05	0.037	0.44	0.037	<0.02	0.042	0.072	0.036	0.028	0.026	0.023	<0.02	0.031
Cadmium (Dissolved)	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	0.00016	<0.00008	<0.00008	<0.00008	<0.00008
Chromium (Dissolved)	0.013	0.01	0.011	0.0043	0.0035	0.0033	0.0045	0.01	0.0086	0.0056	0.0068	0.0037	0.0023	0.0028
Copper (Dissolved)	<0.001	0.0019	<0.001	<0.001	0.0016	<0.001	0.0017	0.0023	0.0019	0.0016	0.0012	<0.001	0.0016	0.0037
Manganese (Dissolved)														0.0068
Nickel (Dissolved)	0.001	0.0018	<0.001	0.0011	0.0024	<0.001	0.0039	0.004	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Lead (Dissolved)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Zinc (Dissolved)	0.0085	0.014	0.004	0.0061	0.0061	0.0042	0.0089	0.013	0.0088	0.0053	0.006	0.0053	0.0099	0.012
Mercury Low Level	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.00019	0.000019	0.000011	<0.00001	<0.00001	<0.00001
Iron (Dissolved)	<0.02	<0.02	<0.02	0.02	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.08	<0.02	<0.02
Total Organic Carbon	6	6.1	5	11	6.1	4	2.2	2.8	5	5.8	5.5	5.8	5.5	2.5
Total TPH >C6-C40	<0.01	<0.01	<0.01	<0.01	0.021	0.027	0.01	0.031	<0.01	<0.01	<0.01	<0.01	<0.01	
Naphthalene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Acenaphthylene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Acenaphthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Fluorene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Phenanthrene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Anthracene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Fluoranthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Pyrene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo[a]anthracene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Chrysene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo[b]fluoranthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo[k]fluoranthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo[a]pyrene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Indeno(1,2,3-c,d)Pyrene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Dibenz(a,h)Anthracene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo[g,h,i]perylene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Total Of 16 PAH's	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Dichlorodifluoromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vinyl Chloride	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromomethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloroethane	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Trichlorofluoromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trans 1,2-Dichloroethene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
cis 1,2-Dichloroethene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromochloromethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Trichloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,1-Trichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tetrachloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloropropene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Benzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichloroethane	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Trichloroethene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichloropropane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dibromomethane	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bromodichloromethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
cis-1,3-Dichloropropene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Toluene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trans-1,3-Dichloropropene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
1,1,2-Trichloroethane	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Tetrachloroethene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,3-Dichloropropane	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Dibromochloromethane	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
1,2-Dibromoethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,1,2-Tetrachloroethane	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Ethylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
m & p-Xylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
o-Xylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Styrene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tribromomethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Isopropylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2,3-Trichloropropane	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
N-Propylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2-Chlorotoluene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,3,5-Trimethylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
4-Chlorotoluene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tert-Butylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2,4-Trimethylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Sec-Butylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,3-Dichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
4-Isopropyltoluene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,4-Dichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
N-Butylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dibromo-3-Chloropropane	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,2,4-Trichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Hexachlorobutadiene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2,3-Trichlorobenzene	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Methyl Tert-Butyl Ether	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
PCB 28	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	
PCB 52	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	
PCB 101	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	
PCB 118	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	
PCB 153	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	
PCB 138	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	
PCB 180	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	
Total PCBs (7 congeners)	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	
Total Phenols	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	

Appendix K – Groundwater Screening Results

Assessment Criteria : *Drinking Water Standard*

CaCO 0.00 | 0.00 | DOC 0.00

Calcium 0.00 | DOC 0.00 | Catchment area | Freshwater not listed

Constituents	Unit	Generic Assessment Criteria (mg/l)	Number of Samples	Minimum Value	Maximum Value	Number of Exceedences	Locations of Exceedences	Zone	69227	69228	69229	69877	70795	70796	70797	71194	71195	72187	72188	72189	72190	72754	72755	72756	72757	72758
Electrical Conductivity	µS/cm	No WSV	104	1	24000	0			270	2000	9200	360	650	820	740	1000	690	680	180	4100	920	890	560	390	560	1300
Suspended Solids At 105C	mg/l	No WSV	104	<5	4300	0			4100	4300	150	15	34	140	13	910	910	73	210	97	120	12	<5	47	<5	14
Biochemical Oxygen Demand Low Level	mg O2/l	No WSV	104	1	72	0			1	2	3	11	<1	10	17	32	19	<1	<1	<1	1	12	11	16	15	14
Chemical Oxygen Demand Low Level	mg O2/l	No WSV	104	1	650	0			11	15	86	57	14	10	17	37	25	17	6	72	650	11	12	18	9	15
Alkalinity (Total)	mg CaCO3/l	No WSV	104	<10	930	0			170	110	930	140	82	350	210	420	90	91	45	150	170	180	80	160	220	240
Chloride	mg/l	250	104	<1	9500	24	69228; 69229; 72189; 72758; 60017; 62157; 61415; 61416; 61932; 61933; 61935; 62522; 62523; 152242; 152243; 152748; 154534; 154537; 154538; 155737; 155739; 166089; 168450; 169668		66	700	3100	38	130	40	41	84	120	55	24	1500	65	110	49	21	50	340
Ammoniacal Nitrogen	mg/l	No WSV	104	0.019	5.1	0																				
Ammonium	mg/l	No WSV	104	<0.01	14	0			0.14	0.21	13	6.4	0.054	0.11	0.049	0.9	0.36	5.8	7.1	9.2	9.2	8.8	14	6.5	4.6	4.6
Nitrite	mg/l	0.5	104	0.02	0.96	1	205955																			
Nitrate	mg/l	0.05	104	<0.5	190	54	70795; 70797; 71195; 72187; 72188; 72190; 72754; 72755; 72756; 72757; 72758; 62521; 62524; 93535; 93536; 93537; 93538; 93539; 132764; 132765; 132766; 132767; 132768; 132769; 152243; 152749; 152750; 152751; 154536; 155736; 155738; 155773; 165545; 165546; 165547; 165548; 168447; 168448; 168449; 169378; 169383; 169384; 169666; 169667; 194409; 194410; 194411; 194412; 205955; 205956; 205957; 205958; 205959; 205960		4.4	<0.5	<0.5	<0.5	66	<0.5	70	<0.5	9.1	150	12	<0.5	140	150	150	21	1.5	19
Phosphate	mg/l	No WSV	104	0.05	0.64	0																				
Phosphorus (Total)	mg/l	No WSV	104	<0.02	0.21	0																				
Sulphate	mg/l	250	104	<1	1400	1	62157		15	31	<1	11	5.7	47	61	38	96	51	28	54	64	95	98	25	51	28
Total Oxidised Nitrogen	mg/l	No WSV	104	<0.2	36	0																				
Cyanide (Free) Low-Level	mg/l	No WSV	104	0.005	<0.005	0			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium	mg/l	N/A	104	<5	2300	0			67	310	110	52	80	140	110	100	99	90	9.7	610	100	140	80	62	82	140
Potassium	mg/l	N/A	104	<0.5	36	0			13	6.1	6.7	1.7	2.6	6.4	11	10	3.6	4.7	3.5	17	32	4.5	3.8	4.1	1.5	6.2
Magnesium	mg/l	N/A	104	<0.5	490	0			10	22	6.4	3.2	8.2	9	7	25	9.8	9.5	4.6	42	8.1	23	23	10	6.9	11
Sodium	mg/l	200	104	1.1	2100	13	69229; 72189; 62157; 61415; 61932; 61933; 61935; 62523; 154534; 154537; 154538; 155737; 155739		30	120	2100	19	52	34	27	90	73	25	23	280	35	39	19	12	41	170
Arsenic (Dissolved)	mg/l	0.01	104	0.001	0.067	10	69229; 72189; 62157; 61932; 61935; 154534; 154537; 154538; 155737; 155739		0.0023	0.0029	0.012	0.0054	<0.001	0.0015	<0.001	0.0071	0.0025	<0.001	<0.001	0.012	<0.001	<0.001	<0.001	<0.001	0.0011	0.0011
Boron (Dissolved)	mg/l	No WSV	104	0.02	1.5	0			0.096	<0.02	0.82	0.72	0.024	0.04	0.02	0.52	0.69	<0.02	<0.02	<0.02	0.076	0.029	0.026	0.053	0.041	0.02
Cadmium (Dissolved)	mg/l	0.005	104	<0.00008	0.0006	0			<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
Chromium (Dissolved)	mg/l	0.05	104	<0.001	0.067	2	69877; 155737		0.0025	0.0066	0.035	0.067	0.0033	<0.001	0.0017	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0024	0.0013	<0.001	0.0013	0.0021
Copper (Dissolved)	mg/l	2	104	0.001	0.03	0			0.0015	<0.001	0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0013	<0.001	0.0016
Manganese (Dissolved)	mg/l	0.05	104	<0.001	0.45	5	194412; 205953; 205954; 205955; 205960																			
Nickel (Dissolved)	mg/l	0.02	104	0.001	0.03	1	155737		0.0037	0.0062	0.0015	0.0012	<0.001	0.0015	<0.001	0.003	0.0031	<0.001	0.0012	0.0066	<0.001	0.0011	0.0093	<0.001	<0.001	<0.001
Lead (Dissolved)	mg/l	0.01	104	<0.001	0.0071	0			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Zinc (Dissolved)	mg/l	3	104	<0.001	0.053	0			0.0086	0.0023	0.004	0.0043	<0.001	0.0026	0.0033	0.0023	0.0066	0.0076	0.0034	0.005	0.0053	0.0093	0.013	0.0079	0.006	0.018
Mercury Low Level	mg/l	No WSV	104	0.00001	0.000044	0			<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.000024	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Iron (Dissolved)	mg/l	0.2	104	0.02	18	24	69877; 70796; 71195; 60016; 60017; 60018; 61415; 61416; 61931; 62521; 62522; 62523; 62524; 62525; 152239; 152240; 152241; 152242; 152748; 152750; 168451; 169668; 205953; 205954		0.05	<0.02	0.04	1.5	<0.02	1.1	<0.02	0.13	0.61	<0.02	<0.02	<0.02	<0.02	<0.02	0.06	<0.02	<0.02	<0.02
Total Organic Carbon	mg/l	No WSV	104	<2	160	0																				
Total TPH >C6-C40	mg/l	No WSV	104	-10	<0.01	0			<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Naphthalene	mg/l	See BaP	104	0.00001	<0.00001	0			<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Acenaphthylene	mg/l	See BaP	104	0.00001	<0.00001	0			<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Acenaphthene	mg/l	See BaP	104	0.00001	<0.00001	0			<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Fluorene	mg/l	See BaP	104	0.00001	<0.00001	0			<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Phenanthrene	mg/l	See BaP	104	0.00001	<0.00001	0			<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Anthracene	mg/l	See BaP	104	0.00001	<0.00001	0			<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Fluoranthene	mg/l	See BaP	104	0.00001	<0.00001	0			<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Pyrene	mg/l	See BaP	104	0.00001	<0.00001	0			<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo[a]anthracene	mg/l	See BaP	104	0.00001	<0.00001	0			<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Chrysene	mg/l	See BaP	104	0.00001	<0.00001	0			<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo[b]fluoranthene	mg/l	See PAH Sum of 4	104	0.00001	<0.00001	0			<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo[k]fluoranthene	mg/l	See PAH Sum of 4	104	0.00001	<0.00001	0			<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo[a]pyrene	mg/l	0.00001	104	0.00001	<0.00001	0			<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Indeno(1,2,3-c,d)Pyrene	mg/l	See PAH Sum of 4	104	0.00001	<0.00001	0			<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Dibenz(a,h)Anthracene	mg/l	See BaP	104	0.00001	<0.00001	0			<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo[g,h,i]perylene	mg/l	See PAH Sum of 4	104	0.00001	<0.00001	0			<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Total Of 16 PAH's	mg/l	No WSV	104	0.0002	<0.0002	0			<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Dichlorodifluoromethane	mg/l	No WSV	104	0.00001	<1	0			<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Chloromethane	mg/l	No WSV	104	0.001	<0.001	0			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vinyl Chloride	mg/l	0.0005	104	0.001	<0.001	0			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromomethane	mg/l	No WSV	104	0.005	<0.005	0			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloroethane	mg/l	No WSV	104	0.002	<0.002	0			<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Trichlorofluoromethane	mg/l	No WSV	104	0.001	<0.001	0			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethene	mg/l	No WSV	104	0.001	<0.001	0			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trans 1,2-Dichloroethene	mg/l	No WSV	104	0.001	<0.001	0			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethane	mg/l	No WSV	104	0.001	<0.001	0			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
cis 1,2-Dichloroethene	mg/l	No WSV	104	0.001	<0.001	0			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromochloromethane	mg/l	No WSV	104	<0.001	<0.005	0			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Trichloromethane	mg/l	See Trihalomethanes	104	0.001	<0.001	0			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,1-Trichloroethane	mg/l	2	104	0.001	<0.001	0			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tetrachloromethane	mg/l	0.003	104	0.001	<0.001	0			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloropropene	mg/l	No WSV	104	0.001	<0.001	0			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Benzene	mg/l	0.001	104	0.001	<0.001	0			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichloroethane	mg/l	0.003	104	0.002	<0.002	0			<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Trichloroethene	mg/l	0.01 (sum of TCE & PCE)	104	0.001	<0.001	0			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichloropropane	mg/l	0.04	104	0.001	<0.001	0			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dibromomethane	mg/l	No WSV	104	0.01	<0.01	0			<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bromodichloromethane	mg/l	See Trihalomethanes	104	0.005	<0.005	0			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
cis-1,3-Dichloropropene	mg/l	No WSV	104	0.01	<0.01	0			<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Toluene	mg/l	0.7	104	<0.001	0.0019	0			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trans-1,3-Dichloropropene	mg/l	No WSV	104	0.01	<0.01	0			<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
1,1,2-Trichloroethane	mg/l	N/A	104	0.01	<0.01	0			<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Tetrachloroethene	mg/l	0.01 (sum of TCE & PCE)	104	0.001	<0.001	0			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,3-Dichloropropane	mg/l	No WSV	104	0.002	<0.002	0			<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Dibromochloromethane	mg/l	See Trihalomethanes	104	0.01	<0.01	0			<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
1,2-Dibromoethane	mg/l	0.0004	104	0.005	<0.005	0			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chlorobenzene	mg/l	No WSV	104	0.001	<0.001	0			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,1,2-Tetrachloroethane	mg/l	No WSV	104	0.002	<0.002	0			<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Ethylbenzene	mg/l	0.3	104	0.001	<0.001	0			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
m & p-Xylene	mg/l	0.5	104	0.001	<0.001	0			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
o-Xylene	mg/l	0.5	104	0.001	<0.001	0			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Styrene	mg/l	0.02	104	0.001	<0.001	0			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tribromomethane	mg/l	No WSV	104	0.001	<0.001	0			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Isopropylbenzene	mg/l	No WSV	104	0.001	<0.001	0			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromobenzene	mg/l	No WSV	104	0.001	<0.001	0			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2,3-Trichloropropane	mg/l	No WSV	104	0.05	<0.05	0			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
N-Propylbenzene	mg/l	No WSV	104	0.001	<0.001	0			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2-Chlorotoluene	mg/l	No WSV	104	0.001	<0.001	0			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,3,5-Trimethylbenzene	mg/l	No WSV	104	0.001	<0.001	0			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
4-Chlorotoluene	mg/l	No WSV	104	0.001	<0.001	0			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tert-Butylbenzene	mg/l	No WSV	104	0.001	<0.001	0			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2,4-Trimethylbenzene	mg/l	No WSV	104	0.001	<0.001	0			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Sec-Butylbenzene	mg/l	No WSV	104	0.001	<0.001	0			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,3-Dichlorobenzene	mg/l	No WSV	104	0.001	<0.001	0			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
4-Isopropyltoluene	mg/l	No WSV	104	0.001	<0.001	0			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,4-Dichlorobenzene	mg/l	No WSV	104	0.001	<0.001	0			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
N-Butylbenzene	mg/l	No WSV	104	0.001	<0.001	0			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichlorobenzene	mg/l	No WSV	104	0.001	<0.001	0			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dibromo-3-Chloropropane	mg/l	0.001	104	0.05	<0.05	0			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,2,4-Trichlorobenzene	mg/l	No WSV	104	0.001	<0.001	0			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Hexachlorobutadiene	mg/l	0.0006	104	0.001	<0.001	0			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2,3-Trichlorobenzene	mg/l	No WSV	104	0.002	<0.002	0			<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Methyl Tert-Butyl Ether	mg/l	No WSV	104	0.001	<0.001	0			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
PCB 28	mg/l	No WSV	104	0.00001	<0.00001	0			<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
PCB 52	mg/l	No WSV	104	0.00001	<0.00001	0			<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
PCB 101	mg/l	No WSV	104	0.00001	<0.00001	0			<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
PCB 118	mg/l	No WSV	104	0.00001	<0.00001	0			<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
PCB 153	mg/l	No WSV	104	0.00001	<0.00001	0			<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
PCB 138	mg/l	No WSV	104	0.00001	<0.00001	0			<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001

Constituents	60014	60015	60016	60017	60018	62157	61414	61415	61416	61417	61930	61931	61932	61933	61935	61936
Electrical Conductivity	4000	3900	920	1500	440	24000	750	4900	1400	940	600	560	1900	1800	2000	2.1
Suspended Solids At 105C	9	13	44	<5	8	240	1400	67	38	37	66	57	130	140	150	<5
Biochemical Oxygen Demand Low Level	<1	<1	<1	<1	4	<1	<1	<1	5	4	7.2	72	27	27	58	4.2
Chemical Oxygen Demand Low Level	<1	<1	41	90	83	76	8	19	86	23	7	72	27	27	58	17
Alkalinity (Total)	51	47	400	460	150	160	75	55	380	380	660	240	760	760	740	12
Chloride	5.1	<1	170	320	38	9500	220	1700	280	80	42	38	460	410	450	<1
Ammoniacal Nitrogen																
Ammonium	1.6	0.91	0.79	0.64	1.5	5.2	0.022	0.15	1.7	0.23	0.55	2.8	7.3	6.7	7.2	0.018
Nitrite																
Nitrate	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Phosphate																
Phosphorus (Total)																
Sulphate	2.4	<1	<1	<1	63	1400	1.6	6.1	18	81	<1	65	<1	<1	<1	<1
Total Oxidised Nitrogen																
Cyanide (Free) Low-Level	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium	7.6	<5	96	150	51	1500	90	970	280	240	220	220	180	180	200	98
Potassium	20	<0.5	1.7	10	1.8	32	9.4	18	2.4	2.9	4.9	3.3	35	33	36	2.1
Magnesium	<0.5	<0.5	9.9	13	4.5	490	25	93	24	14	9.1	9.6	44	52	59	19
Sodium	45	1.1	62	99	22	1100	44	270	190	52	28	20	380	330	380	17
Arsenic (Dissolved)	<0.001	<0.001	<0.001	<0.001	<0.001	0.057	0.001	0.01	0.0014	<0.001	<0.001	0.0079	0.037	0.003	0.04	<0.001
Boron (Dissolved)	<0.02	<0.02	0.091	0.025	0.052	0.11	0.91	0.67	0.69	0.89	1.1	0.78	1.4	1.3	1.5	0.12
Cadmium (Dissolved)	0.000082	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
Chromium (Dissolved)	<0.001	<0.001	<0.001	<0.001	<0.001	0.045	<0.001	0.0078	<0.001	<0.001	0.0085	0.0063	0.012	0.0093	0.011	0.0034
Copper (Dissolved)	0.012	<0.001	<0.001	0.0015	<0.001	0.03	<0.001	0.0018	<0.001	<0.001	<0.001	0.0033	0.004	0.0033	0.0042	<0.001
Manganese (Dissolved)																
Nickel (Dissolved)	<0.001	<0.001	<0.001	0.0011	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Lead (Dissolved)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Zinc (Dissolved)	0.0095	<0.001	<0.001	<0.001	<0.001	0.04	0.0027	0.0058	<0.001	0.0025	0.0061	0.01	0.0048	0.0039	0.0057	0.002
Mercury Low Level	0.000022	0.000027	<0.00001	0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.000013	0.00001	0.000013
Iron (Dissolved)	<0.02	<0.02	1.5	1.1	1.7	<0.02	<0.02	2.9	0.33	<0.02	0.07	5.6	0.03	<0.02	<0.02	<0.02
Total Organic Carbon																
Total TPH >C6-C40	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.004	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Naphthalene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Acenaphthylene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Acenaphthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Fluorene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Phenanthrene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Anthracene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Fluoranthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Pyrene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo[a]anthracene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Chrysene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo[b]fluoranthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo[k]fluoranthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo[a]pyrene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Indeno(1,2,3-c,d)Pyrene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Dibenz(a,h)Anthracene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo[g,h,i]perylene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Total Of 16 PAH's	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Dichlorodifluoromethane	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<1
Chloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vinyl Chloride	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromomethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloroethane	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Trichlorofluoromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trans 1,2-Dichloroethene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
cis 1,2-Dichloroethene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromochloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Trichloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,1-Trichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tetrachloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloropropene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Benzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichloroethane	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Trichloroethene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichloropropane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dibromomethane	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bromodichloromethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
cis-1,3-Dichloropropene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Toluene	<0.001	<0.001	0.0019	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trans-1,3-Dichloropropene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
1,1,2-Trichloroethane	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Tetrachloroethene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,3-Dichloropropane	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Dibromochloromethane	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
1,2-Dibromoethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,1,2-Tetrachloroethane	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Ethylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
m & p-Xylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
o-Xylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Styrene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tribromomethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Isopropylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2,3-Trichloropropane	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
N-Propylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2-Chlorotoluene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,3,5-Trimethylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
4-Chlorotoluene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tert-Butylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2,4-Trimethylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Sec-Butylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,3-Dichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
4-Isopropyltoluene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,4-Dichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
N-Butylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dibromo-3-Chloropropane	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,2,4-Trichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Hexachlorobutadiene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2,3-Trichlorobenzene	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Methyl Tert-Butyl Ether	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
PCB 28	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
PCB 52	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
PCB 101	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
PCB 118	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
PCB 153	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
PCB 138	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001

Constituents	62521	62522	62523	62524	62525	93535	93536	93537	93538	93539	93540	132764	132765	132766	132767	132768
Electrical Conductivity	250	2900	2900	180	940	1100	910	780	920	580		1100	860	810	940	540
Suspended Solids At 105C	110	100	72	61	250	350	420	56	36	51		25	21	12	8	18
Biochemical Oxygen Demand Low Level	<1	3	3	1	1											
Chemical Oxygen Demand Low Level	1	10	10	10	17											
Alkalinity (Total)	36	77	200	40	580	240	230	110	200	21		150	190	150	200	35
Chloride	65	980	830	26	88	87	71	68	61	59		90	63	80	75	60
Ammoniacal Nitrogen																
Ammonium	0.27	0.37	0.22	0.61	0.77	0.084	0.07	0.077	0.067	0.21		0.32	0.4	0.18	0.14	0.2
Nitrite						<0.02	<0.02	<0.02	<0.02	<0.02		0.15	0.15	0.16	0.16	0.15
Nitrate	4.6	<0.5	<0.5	12	<0.5	190	110	130	140	120		190	99	130	150	110
Phosphate																
Phosphorus (Total)																
Sulphate	16	28	46	29	50	70	73	68	64	58		68	64	74	67	62
Total Oxidised Nitrogen																
Cyanide (Free) Low-Level	<0.005	<0.005	<0.005	<0.005	<0.005											
Calcium	<5	430	590	5.5	150	210	160	100	140	56		150	110	74	87	41
Potassium	7.3	5.7	21	4	9.1	<0.5	<0.5	3.9	32	8.6		0.83	<0.5	4.1	19	7.6
Magnesium	5.4	28	34	5.1	23	9.6	5.4	14	9.3	9.9		8.2	7.8	12	6.3	10
Sodium	39	190	220	23	160	22	18	16	33	24		18	15	15	19	19
Arsenic (Dissolved)	<0.001	0.0036	0.0034	<0.001	<0.001	<0.001	<0.001	0.0013	<0.001	<0.001		0.002	0.0016	0.0034	0.0012	0.0011
Boron (Dissolved)	0.84	0.7	0.77	0.99	0.79	<0.02	<0.02	0.026	0.11	0.061		<0.02	<0.02	<0.02	<0.02	<0.02
Cadmium (Dissolved)	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	0.00057		<0.00008	<0.00008	<0.00008	<0.00008	0.0006
Chromium (Dissolved)	<0.001	0.0021	0.0037	<0.001	<0.001	0.0025	0.0023	0.0028	0.0017	0.0027		0.0088	0.0086	0.0079	0.006	0.0053
Copper (Dissolved)	<0.001	0.0013	0.0013	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		0.0012	0.0047	<0.001	<0.001	<0.001
Manganese (Dissolved)																
Nickel (Dissolved)	<0.001	<0.001	0.0031	0.0016	<0.001	<0.001	<0.001	<0.001	<0.001	0.018		<0.001	<0.001	0.001	<0.001	0.016
Lead (Dissolved)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001
Zinc (Dissolved)	0.011	0.0059	0.0058	0.0028	0.0035	0.0044	0.0035	0.0067	0.0034	0.015		0.0071	0.0019	0.0052	0.0031	0.014
Mercury Low Level	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Iron (Dissolved)	0.29	0.22	1.1	1	3.6	<0.02	<0.02	<0.02	<0.02	0.02		<0.02	<0.02	<0.02	<0.02	<0.02
Total Organic Carbon						<2.5	<2.5	<2.5	<2.5	<2.5		<2	<2	<2	<2	<2
Total TPH >C6-C40	<0.00001	0.00013	<0.00001	<0.00001	<0.00001											
Naphthalene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Acenaphthylene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Acenaphthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Fluorene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Phenanthrene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Anthracene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Fluoranthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Pyrene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo[a]anthracene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Chrysene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo[b]fluoranthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo[k]fluoranthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo[a]pyrene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Indeno(1,2,3-c,d)Pyrene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Dibenz(a,h)Anthracene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo[g,h,i]perylene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Total Of 16 PAH's	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Dichlorodifluoromethane	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Chloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vinyl Chloride	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromomethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloroethane	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Trichlorofluoromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trans 1,2-Dichloroethene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
cis 1,2-Dichloroethene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromochloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Trichloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,1-Trichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tetrachloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloropropene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Benzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichloroethane	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Trichloroethene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichloropropane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dibromomethane	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bromodichloromethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
cis-1,3-Dichloropropene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Toluene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trans-1,3-Dichloropropene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
1,1,2-Trichloroethane	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Tetrachloroethene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,3-Dichloropropane	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Dibromochloromethane	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
1,2-Dibromoethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,1,2-Tetrachloroethane	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Ethylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
m & p-Xylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
o-Xylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Styrene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tribromomethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Isopropylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2,3-Trichloropropane	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
N-Propylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2-Chlorotoluene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,3,5-Trimethylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
4-Chlorotoluene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tert-Butylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2,4-Trimethylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Sec-Butylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,3-Dichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
4-Isopropyltoluene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,4-Dichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
N-Butylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dibromo-3-Chloropropane	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,2,4-Trichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Hexachlorobutadiene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2,3-Trichlorobenzene	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Methyl Tert-Butyl Ether	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
PCB 28	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001											
PCB 52	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001											
PCB 101	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001											
PCB 118	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001											
PCB 153	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001											
PCB 138	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001											

Assessment Criteria :	Drinking Water Standard
CaCO	0.00
Calcium	0.00
DOC	0.00
DOC	0.00
Catchment area	Freshwater not listed

Constituents	Unit	Generic Assessment Criteria (mg/l)	Number of Samples	Minimum Value	Maximum Value	Number of Exceedances	Locations of Exceedences	Zone	69227	69228	69229	69877	70795	70796	70797	71194	71195	72187	72188	72189	72190	72754	72755	72756	72757	72758	60014	60015	60016	60017	60018	62157	61414	61415	61416	61417	61930	61931	61932	61933	61935	61936	62521	62522	62523	62524	62525	93535	93536	93537	93538	93539	93540	132764	132765	132766	132767	132768
Electrical Conductivity	µS/cm	No WSV	104	1	24000	0			270	2000	9200	360	650	820	740	1000	690	680	180	4100	920	890	560	390	560	1300	4000	3900	920	1500	440	24000	750	4900	1400	940	600	560	1900	1800	2000	2.1	250	2900	2900	180	940	1100	910	780	920	580		1100	860	810	940	540
Suspended Solids At 105C	mg/l	No WSV	104	<5	4300	0			4100	4300	150	15	34	140	13	910	910	73	210	97	120	12	<5	47	<5	14	9	13	44	<5	8	240	1400	67	38	37	66	57	130	140	150	<5	110	100	72	61	250	350	420	56	36	51		25	21	12	8	18
Biochemical Oxygen Demand Low Level	mg O2/l	No WSV	104	1	72	0			1	2	3	11	<1	10	17	32	19	<1	<1	<1	1	12	11	16	15	14	<1	<1	<1	<1	4	<1	<1	<1	5	4	7.2	72	27	27	58	4.2	<1	3	3	1	1											
Chemical Oxygen Demand Low Level	mg O2/l	No WSV	104	1	650	0			11	15	86	57	14	10	17	37	25	17	6	72	650	11	12	18	9	15	<1	<1	41	90	83	76	8	19	86	23	7	72	27	27	58	17	1	10	10	10	17											
PCB 180	mg/l	No WSV	104	0.00001	<0.00001	0			<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001											
Total PCBs (7 congeners)	mg/l	No WSV	104	0.00001	<0.00001	0			<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001											
Total Phenols	mg/l	No WSV	104	0.03	<0.03	0			<0.030	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03											

Assessment Criteria : Drinking Water Standard

CaCO 0.00 | 0.00 DOC 0.00

Calcium 0.00 DOC 0.00 Catchment area Freshwater not listed

Constituents	Unit	Generic Assessment Criteria (mg/l)	Number of Samples	Minimum Value	Maximum Value	Number of Exceedences	Locations of Exceedences	132769	152238	152239	152240	152241	152242	152243	152748	152749	152750	152751	154534	154535	154536	154537	154538	155736	155737	155738	155739	155773	155774	155775	155776	165544	165545	165546	165547	165548	166089	168447	168448	168449	168450	168451	169378	169382	169383	169384	169666	169667	169668	194409	194410	194411	194412	205953	205954	205955	205956	205957	205958
Electrical Conductivity	µS/cm	No WSV	104	1	24000	0		960	1	960	270	640	1300	1100	1400	580	930	570	6900	800	610	3600	1600	170	16	690	4300	620	760	650	750	810	620	1100	780	750	1500	530	780	580	2700	570	720	840	620	750	1300	560	860	570	750	720	610	1100	540	830	1000	780	710
Suspended Solids At 105C	mg/l	No WSV	104	<5	4300	0		23	<5	15	<5	46	90	21	54	830	<5	830	95	540	330	240	160	11	220	23	27	93	150	<5	28	93	49	340	<5	38	19	26	15	<5	350	800	10	390	290	9	6	<5	82	160	30	24	36	98	<5	10	<5	17	<5
Biochemical Oxygen Demand Low Level	mg O2/l	No WSV	104	1	72	0			1.1	5.5	14	8.6	<1	<1	12	<1	<1	2.8	2	2	1	1	4	<1	2.3	<1	4.6	<1	<1	<1	<1	4	1	<1	1	<1	<1	<1	<1	1	<1	<1	1.1	<1	1.1	<1	7	3	9										
Chemical Oxygen Demand Low Level	mg O2/l	No WSV	104	1	650	0			2	16	31	30	9	11	47	2	4	11	22	23	11	32	26	<1	70	<1	14	<1	<1	17	<1	8.3	5.4	1.8	6	7.3	32	<1	3.1	2.8	8.3	38	6.2	18	1.7	1	13	8.8	34										
Alkalinity (Total)	mg CaCO3/l	No WSV	104	<10	930	0		210	15	400	110	53	56	18	460	79	200	28	100	250	45	310	380	<10	130	220	25	65	380	310	390	480	110	220	240	140	540	25	130	12	66	47	240	500	190	220	440	230	400	270	210	210	180	500	170	400	310	310	120
Chloride	mg/l	250	104	<1	9500	24	69228; 69229; 72189; 72758; 60017; 62157; 61415; 61416; 61932; 61933; 61935; 62522; 62523; 152242; 152243; 152748; 154534; 154537; 154538; 155737; 155739; 166089; 168450; 169668	86	<1	83	31	210	400	380	270	49	74	58	2400	67	110	1200	320	24	6700	55	1700	140	41	45	41	40	130	83	60	76	310	47	79	200	880	190	73	70	130	76	240	82	320	27	69	71	45	83	54	48	74	61	71
Ammoniacal Nitrogen	mg/l	No WSV	104	0.019	5.1	0									1.9	0.43	0.3	0.43	0.076	0.026	0.078	5.1	3.7	0.03	0.093	0.019	0.086	0.02	0.043	0.78	0.25	0.072	0.093	0.11	0.12	0.1	0.15	0.12	0.078	0.17	0.19	0.38	0.23	0.26	0.19	0.12	0.061	0.12	2.9										
Ammonium	mg/l	No WSV	104	<0.01	14	0		0.16	0.7	0.8	1.1	0.43	0.49	0.53	2.5	0.55	0.39	0.55	0.098	0.033	0.1	6.5	4.8	0.039	0.12	0.025	0.11	0.026	0.055	1	0.32	0.093	0.12	0.14	0.15	0.13	0.19	0.16	0.1	0.22	0.24	0.49	0.3	0.34	0.25	0.15	0.078	0.15	3.7	0.079	0.21	0.92	0.26	0.4	1.3	0.07	<0.01	<0.01	<0.01
Nitrite	mg/l	0.5	104	0.02	0.96	1	205955	0.16							<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.13	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.023	0.025	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.055	0.039	0.1	0.03	0.072	<0.02	<0.02	<0.02	<0.02	0.026	0.089	<0.02	<0.02	0.96	<0.02	<0.02	<0.02
Nitrate	mg/l	0.05	104	<0.5	190	54	70795; 70797; 71195; 72187; 72188; 72190; 72754; 72755; 72756; 72757; 72758; 62521; 62524; 93535; 93536; 93537; 93538; 93539; 132764; 132765; 132766; 132767; 132768; 132769; 152243; 152749; 152750; 152751; 154536; 155736; 155738; 155773; 165545; 165546; 165547; 165548; 168447; 168448; 168449; 169378; 169383; 169384; 169666; 169667; 194409; 194410; 194411; 194412; 205955; 205956; 205957; 205958; 205959; 205960	150	<0.5	<0.5	<0.5	<0.5	<0.5	5.6	<0.5	93	160	120	<0.5	<0.5	19	<0.5	<0.5	14	<0.5	66	<0.5	61	<0.5	<0.5	<0.5	<0.5	6.9	29	85	140	<0.5	70	87	6	<0.5	<0.5	160	<0.5	24	150	23	4.4	<0.5	26	120	110	47	<0.5	<0.5	55	36	67	120
Phosphate	mg/l	No WSV	104	0.05	0.64	0									0.055	0.17	0.14	0.093	0.05	0.054	0.054	0.059	0.057	0.18	0.05	0.18	0.052	0.16	0.055	0.17	0.052	0.075	0.19	0.077	0.1	0.64	0.053	0.12	0.12	0.059	<0.05	<0.05	0.096	<0.05	<0.05	0.095	0.25	0.25	0.059										
Phosphorus (Total)	mg/l	No WSV	104	<0.02	0.21	0									<0.02	0.057	0.047	0.031	<0.02	<0.02	<0.02	<0.02	<0.02	0.06	<0.02	0.06	<0.02	0.053	<0.02	0.057	<0.02	0.025	0.063	0.026	0.033	0.21	<0.02	0.04	0.04	<0.02	<0.02	<0.02	0.032	<0.02	<0.02	0.032	0.083	0.083	<0.02										
Sulphate	mg/l	250	104	<1	1400	1	62157	99	<1	100	14	<1	35	28	25	68	60	59	66	11	100	10	<1	26	160	62	7	6	48	6.7	4.4	47	5.5	73	68	77	<1	91	80	21	26	<1	67	15	100	67	48	50	42	27	61	46	79	120	64	46	75	61	66
Total Oxidised Nitrogen	mg/l	No WSV	104	<0.2	36	0									<0.2	21	36	27	<0.2	<0.2	4.3	<0.2	<0.2	3.2	<0.2	15	<0.2	14	<0.2	<0.2	<0.2	<0.2	1.6	6.6	19	32	<0.2	16	20	1.4	<0.2	<0.2	36	<0.2	5.4	34	5.2	0.99	<0.2										
Cyanide (Free) Low-Level	mg/l	No WSV	104	0.005	<0.005	0			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005										
Calcium	mg/l	N/A	104	<5	2300	0		99	8.4	120	110	80	160	51	230	76	110	63	940	140	93	240	140	6.1	2300	120	550	72	130	110	130	130	76	170	130	110	200	61	130	7.7	290	55	89	110	42	91	120	66	78	100	120	110	110	130	58	130	150	110	82
Potassium	mg/l	N/A	104	<0.5	36	0		1.8	27	10	3.2	8.6	5.7	9.4	8.1	6.2	26	14	19	6.7	4.7	31	25	2.4	19	10	15	2.3	5.3	2.5	3.2	5.6	2.2	0.71	<0.5	6.2	3.1	4.3	5.1	8.4	7	7.8	3.9	3	2.8	4.2	4.1	1.3	11	<0.5	3.3	2	1.5	30	13	5	0.58	<0.5	4.2
Magnesium	mg/l	N/A	104	<0.5	490	0		13	3.2	12	7.2	16	14	31	18	13	7.8	9.9	69	18	12	60	37	6.5	170	9.9	68	9	9.1	13	9.2	8.7	8.8	7.8	7.7	15	16	19	15	21	20	18	15	15	6.9	16	12	8.4	14	3.7	6.9	5.2	5.8	12	6.5	5.2	7.6	6.1	12
Sodium	mg/l	200	104	1.1	2100	13	69229; 72189; 62157; 61415; 61932; 61933; 61935; 62523; 154534; 154537; 154538; 155737; 155739	16	54	55	29	36	74	170	67	29	31	31	440	78	71	550	240	23	1300	31	210	47	30	21	27	30	45	22	22	22	92	18	28	77	150	27	20	58	72	23	130	35	67	14	25	27	21	73	24	17	23	18	16
Arsenic (Dissolved)	mg/l	0.01	104	0.001	0.067	10	69229; 72189; 62157; 61932; 61935; 154534; 154537; 154538; 155737; 155739	0.0011	<0.001	<0.001	<0.001	0.0073	0.0034	0.0013	0.0016	<0.001	<0.001	<0.001	0.021	0.0028	0.0015	0.011	0.017	0.001	0.067	0.0025	0.011	0.0015	0.002	0.0034	0.0011	0.001	<0.001	<0.001	<0.001	<0.001	0.0024	<0.001	<0.001	<0.001	0.0046	0.0034	<0.001	0.0047	0.001	<0.001	0.0012	<0.001	0.003	<0.001	0.002	<0.001	0.0031	0.0024	0.0021	<0.001	<0.001	<0.001	0.0013
Boron (Dissolved)	mg/l	No WSV	104	0.02	1.5	0		<0.02	<0.02	0.046	0.049	0.038	<0.02	0.033	0.54	0.6	0.81	0.81	0.44	0.43	0.66	0.95	0.81	0.027	0.038	0.038	0.029	<0.02	0.04	0.027	0.048	0.49	0.48	0.57	0.53	0.53	0.034	0.63	0.45	0.62	0.59	0.4	<0.02	0.051	0.036	0.029	0.046	<0.02	0.1	0.44	0.45	0.54	0.49	0.3	0.046	0.073	0.025	0.021	0.034
Cadmium (Dissolved)	mg/l	0.005	104	<0.00008	0.0006	0		<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	0.00011	<0.00008	<0.00008	<0.00008	0.00049	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	0.00009	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	0.00015	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
Chromium (Dissolved)	mg/l	0.05	104	<0.001	0.067	2	69877; 155737	0.0068	<0.001	0.0068	0.0059	0.0039	0.0051	0.012	0.0048	0.0013	0.0019	0.0012	0.034	0.0079	0.0044	0.014	0.0091	0.0014	0.064	0.017	0.031	0.015	0.0081	0.0071	0.0077	0.0021	0.0034	0.0035	0.0027	0.0029	0.011	0.0023	0.0028	0.0038	0.019	0.018	0.0058	0.0027	0.0018	0.0081	0.0037	0.0014	0.0027	<0.001	<0.001	<0.001	<0.001	0.0082	0.0021	0.0026	0.009	0.0024	0.0024
Copper (Dissolved)	mg/l	2	104	0.001	0.03	0		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0022	<0.001	<0.001	<0.001	<0.001	0.0055	0.001	<0.001	0.0054	0.0029	<0.001	0.014	<0.001	0.0023	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0011	<0.001	<0.001	<0.001	0.0012	0.0033	<0.001	<0.001	0.0016	0.0011	0.0015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0043	<0.001	0.004	<0.001	<0.001	0.001
Manganese (Dissolved)	mg/l	0.05	104	<0.001	0.45	5	194412; 205953; 205954; 205955; 205960																																											0.016	<0.001	0.0062	0.18	0.45	0.2	0.2	0.0035	0.0044	0.0023
Nickel (Dissolved)	mg/l	0.02	104	0.001	0.03	1	155737	<0.001	<0.001	<0.001	<0.001	0.0058	<0.001	0.0068	<0.001	<0.001	<0.001	0.017	0.0093	0.0014	0.0021	0.0037	0.0012	0.0021	0.03	0.0014	0.0017	<0.001	0.0027	0.0028	0.0031	0.001	<0.001	<0.001	<0.001	<0.001	0.006	0.0082	0.0011	0.0046	0.0016	0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0015	0.0012	<0.001	<0.001	0.0097	0.0016	0.0026	<0.001	<0.001	<0.001
Lead (Dissolved)	mg/l	0.01	104	<0.001	0.0071	0		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0071	<0.001	<0.001	0.0014	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0048	<0.001	<0.001	<0.001	<0.001	<0.001
Zinc (Dissolved)	mg/l	3	104	<0.001	0.053	0		0.004	<0.001	0.0066	0.0053	0.0022	0.004	0.014	<0.001	<0.001	0.0012	0.0098	0.027	0.0045	0.0059	0.0033	0.0024	0.0041	0.01	0.0043	0.0048	0.0061	0.0064	0.0052	0.0037	0.0021	<0.001	0.0019	0.0022	0.0025	0.0093	0.0075	0.0067	0.0076	0.0053	0.033	0.011	0.0029	0.025	0.0061	0.012	0.0088	0.0093	0.0025	0.0053	0.0033	0.0069	0.053	0.0047	0.011	0.0045	0.0094	0.0063
Mercury Low Level	mg/l	No WSV	104	0.00001	0.000044	0		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.000016	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.000037	0.000044	<0.00001	0.000014	0.000017	0.000013	0.000022	<0.00001	<0.00001	<0.00001	0.00001	0.000011	0.000011	0.000011	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Iron (Dissolved)	mg/l	0.2	104	0.02	18	24	69877; 70796; 71195; 60016; 60017; 60018; 61415; 61416; 61931; 62521; 62522; 62523; 62524; 62525; 152239; 152240; 152241; 152242; 152748; 152750; 168451; 169668; 205953; 205954	<0.02	0.027	0.48	0.25	18	0.9	0.1	0.59	0.17	0.38	0.17	<0.02	0.02	0.04	<0.02	0.04	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.06	<0.02	0.11	<0.02	<0.02	<0.02	<0.02	0.06	<0.02	<0.02	<0.02	<0.02	1.7	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	4.2	0.05	<0.02	<0.02	0.02	1.1	0.36	<0.02	<0.02	<0.02	<0.02
Total Organic Carbon	mg/l	No WSV	104	<2	160	0		<2	11	7.3	14	7.9	2.9	6.2	19	6.9	5.8	3.8	12	15	16	16	19	4.2	3.3	3.2	2.7	2.9	3.5	11	8.6	10	7.3	9.9	7.2	7.1	9.6	6.3	5.6	6.6	5.4	4.8	3.1	8	4.9	4.2	5.1	2.8	9.4	<2	<2	<2	<2	160	45	6.6	<2	<2	<2
Total TPH >C6-C40	mg/l	No WSV	104	-10	<0.01	0			-10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01										
Naphthalene	mg/l	See BaP	104	0.00001	<0.00001	0		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Acenaphthylene	mg/l	See BaP	104	0.00001	<0.00001	0		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Acenaphthene	mg/l	See BaP	104	0.00001	<0.00001	0		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Fluorene	mg/l	See BaP	104	0.00001	<0.00001	0		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Phenanthrene	mg/l	See BaP	104	0.00001	<0.00001	0		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Anthracene	mg/l	See BaP	104	0.00001	<0.00001	0		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Fluoranthene	mg/l	See BaP	104	0.00001	<0.00001	0		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Pyrene	mg/l	See BaP	104	0.00001	<0.00001	0		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo[a]anthracene	mg/l	See BaP	104	0.00001	<0.00001	0		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Chrysene	mg/l	See BaP	104	0.00001	<0.00001	0		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo[b]fluoranthene	mg/l	See PAH Sum of 4	104	0.00001	<0.00001	0		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo[k]fluoranthene	mg/l	See PAH Sum of 4	104	0.00001	<0.00001	0		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo[a]pyrene	mg/l	0.00001	104	0.00001	<0.00001	0		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Indeno(1,2,3-c,d)Pyrene	mg/l	See PAH Sum of 4	104	0.00001	<0.00001	0		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Dibenz(a,h)Anthracene	mg/l	See BaP	104	0.00001	<0.00001	0		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo[g,h,i]perylene	mg/l	See PAH Sum of 4	104	0.00001	<0.00001	0		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Total Of 16 PAH's	mg/l	No WSV	104	0.0002	<0.0002	0		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Dichlorodifluoromethane	mg/l	No WSV	104	0.00001	<1	0		<0.00001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloromethane	mg/l	No WSV	104	0.001	<0.001	0		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vinyl Chloride	mg/l	0.0005	104	0.001	<0.001	0		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromomethane	mg/l	No WSV	104	0.005	<0.005	0		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloroethane	mg/l	No WSV	104	0.002	<0.002	0		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Trichlorofluoromethane	mg/l	No WSV	104	0.001	<0.001	0		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethene	mg/l	No WSV	104	0.001	<0.001	0		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trans 1,2-Dichloroethene	mg/l	No WSV	104	0.001	<0.001	0		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethane	mg/l	No WSV	104	0.001	<0.001	0		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
cis 1,2-Dichloroethene	mg/l	No WSV	104	0.001	<0.001	0		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromochloromethane	mg/l	No WSV	104	<0.001	<0.005	0		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Trichloromethane	mg/l	See Trihalomethanes	104	0.001	<0.001	0		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,1-Trichloroethane	mg/l	2	104	0.001	<0.001	0		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tetrachloromethane	mg/l	0.003	104	0.001	<0.001	0		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloropropene	mg/l	No WSV	104	0.001	<0.001	0		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Benzene	mg/l	0.001	104	0.001	<0.001	0		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichloroethane	mg/l	0.003	104	0.002	<0.002	0		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Trichloroethene	mg/l	0.01 (sum of TCE & PCE)	104	0.001	<0.001	0		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichloropropane	mg/l	0.04	104	0.001	<0.001	0		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dibromomethane	mg/l	No WSV	104	0.01	<0.01	0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bromodichloromethane	mg/l	See Trihalomethanes	104	0.005	<0.005	0		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
cis-1,3-Dichloropropene	mg/l	No WSV	104	0.01	<0.01	0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Toluene	mg/l	0.7	104	<0.001	0.0019	0		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trans-1,3-Dichloropropene	mg/l	No WSV	104	0.01	<0.01	0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
1,1,2-Trichloroethane	mg/l	N/A	104	0.01	<0.01	0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Tetrachloroethene	mg/l	0.01 (sum of TCE & PCE)	104	0.001	<0.001	0		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,3-Dichloropropane	mg/l	No WSV	104	0.002	<0.002	0		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Dibromochloromethane	mg/l	See Trihalomethanes	104	0.01	<0.01	0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
1,2-Dibromoethane	mg/l	0.0004	104	0.005	<0.005	0		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chlorobenzene	mg/l	No WSV	104	0.001	<0.001	0		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,1,2-Tetrachloroethane	mg/l	No WSV	104	0.002	<0.002	0		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Ethylbenzene	mg/l	0.3	104	0.001	<0.001	0		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
m & p-Xylene	mg/l	0.5	104	0.001	<0.001	0		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
o-Xylene	mg/l	0.5	104	0.001	<0.001	0		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Styrene	mg/l	0.02	104	0.001	<0.001	0		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tribromomethane	mg/l	No WSV	104	0.001	<0.001	0		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Isopropylbenzene	mg/l	No WSV	104	0.001	<0.001	0		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromobenzene	mg/l	No WSV	104	0.001	<0.001	0		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2,3-Trichloropropane	mg/l	No WSV	104	0.05	<0.05	0		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
N-Propylbenzene	mg/l	No WSV	104	0.001	<0.001	0		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2-Chlorotoluene	mg/l	No WSV	104	0.001	<0.001	0		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,3,5-Trimethylbenzene	mg/l	No WSV	104	0.001	<0.001	0		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
4-Chlorotoluene	mg/l	No WSV	104	0.001	<0.001	0		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tert-Butylbenzene	mg/l	No WSV	104	0.001	<0.001	0		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2,4-Trimethylbenzene	mg/l	No WSV	104	0.001	<0.001	0		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Sec-Butylbenzene	mg/l	No WSV	104	0.001	<0.001	0		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,3-Dichlorobenzene	mg/l	No WSV	104	0.001	<0.001	0		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
4-Isopropyltoluene	mg/l	No WSV	104	0.001	<0.001	0		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,4-Dichlorobenzene	mg/l	No WSV	104	0.001	<0.001	0		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
N-Butylbenzene	mg/l	No WSV	104	0.001	<0.001	0		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichlorobenzene	mg/l	No WSV	104	0.001	<0.001	0		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dibromo-3-Chloropropane	mg/l	0.001	104	0.05	<0.05	0		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,2,4-Trichlorobenzene	mg/l	No WSV	104	0.001	<0.001	0		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Hexachlorobutadiene	mg/l	0.0006	104	0.001	<0.001	0		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2,3-Trichlorobenzene	mg/l	No WSV	104	0.002	<0.002	0		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Methyl Tert-Butyl Ether	mg/l	No WSV	104	0.001	<0.001	0		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
PCB 28	mg/l	No WSV	104	0.00001	<0.00001	0			<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001										
PCB 52	mg/l	No WSV	104	0.00001	<0.00001	0			<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001										
PCB 101	mg/l	No WSV	104	0.00001	<0.00001	0			<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001										
PCB 118	mg/l	No WSV	104	0.00001	<0.00001	0			<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001										
PCB 153	mg/l	No WSV	104	0.00001	<0.00001	0			<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001										
PCB 138	mg/l	No WSV	104	0.00001	<0.00001	0			<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001										

Assessment Criteria :	Drinking Water Standard							
CaCO	0.00		0.00	DOC	0.00			
Calcium	0.00	DOC	0.00		Catchment area		Freshwater not listed	
Constituents	Unit	Generic Assessment Criteria (mg/l)	Number of Samples	Minimum Value	Maximum Value	Number of Exceedences	Locations of Exceedences	
Electrical Conductivity	µS/cm	No WSV	104	1	24000	0		
Suspended Solids At 105C	mg/l	No WSV	104	<5	4300	0		
Biochemical Oxygen Demand Low Level	mg O2/l	No WSV	104	1	72	0		
Chemical Oxygen Demand Low Level	mg O2/l	No WSV	104	1	650	0		
PCB 180	mg/l	No WSV	104	0.00001	<0.00001	0		
Total PCBs (7 congeners)	mg/l	No WSV	104	0.00001	<0.00001	0		
Total Phenols	mg/l	No WSV	104	0.03	<0.03	0		

Constituents	132769	152238	152239	152240	152241	152242	152243	152748	152749	152750	152751	154534	154535	154536	154537	154538	155736	155737
Electrical Conductivity	960	1	960	270	640	1300	1100	1400	580	930	570	6900	800	610	3600	1600	170	16
Suspended Solids At 105C	23	<5	15	<5	46	90	21	54	830	<5	830	95	540	330	240	160	11	220
Biochemical Oxygen Demand Low Level		1.1	5.5	14	8.6	<1	<1	12	<1	<1	2.8	2	2	1	1	4	<1	2.3
Chemical Oxygen Demand Low Level		2	16	31	30	9	11	47	2	4	11	22	23	11	32	26	<1	70
PCB 180		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Total PCBs (7 congeners)		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Total Phenols		<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03

Constituents	155738	155739	155773	155774	155775	155776	165544	165545	165546	165547	165548	166089	168447	168448	168449	168450	168451	169378
Electrical Conductivity	690	4300	620	760	650	750	810	620	1100	780	750	1500	530	780	580	2700	570	720
Suspended Solids At 105C	23	27	93	150	<5	28	93	49	340	<5	38	19	26	15	<5	350	800	10
Biochemical Oxygen Demand Low Level	<1	4.6	<1	<1	<1	<1	4	1	<1	1	<1	<1	<1	<1	1	<1	<1	1.1
Chemical Oxygen Demand Low Level	<1	14	<1	<1	17	<1	8.3	5.4	1.8	6	7.3	32	<1	3.1	2.8	8.3	38	6.2
PCB 180	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Total PCBs (7 congeners)	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Total Phenols	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03

Constituents	169382	169383	169384	169666	169667	169668	194409	194410	194411	194412	205953	205954	205955	205956	205957	205958
Electrical Conductivity	840	620	750	1300	560	860	570	750	720	610	1100	540	830	1000	780	710
Suspended Solids At 105C	390	290	9	6	<5	82	160	30	24	36	98	<5	10	<5	17	<5
Biochemical Oxygen Demand Low Level	<1	1.1	<1	7	3	9										
Chemical Oxygen Demand Low Level	18	1.7	1	13	8.8	34										
PCB 180	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001										
Total PCBs (7 congeners)	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001										
Total Phenols	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03										

Assessment Criteria : *Drinking Water Standard*

CaCO	0.00		0.00	DOC	0.00	
Calcium	0.00	DOC	0.00	Catchment area		Freshwater not listed

Constituents	Unit	Generic Assessment Criteria (mg/l)	Number of Samples	Minimum Value	Maximum Value	Number of Exceedences	Locations of Exceedences	205959	205960	168447
Electrical Conductivity	µS/cm	No WSV	104	1	24000	0		910	500	
Suspended Solids At 105C	mg/l	No WSV	104	<5	4300	0		10	<5	
Biochemical Oxygen Demand Low Level	mg O2/l	No WSV	104	1	72	0				
Chemical Oxygen Demand Low Level	mg O2/l	No WSV	104	1	650	0				
Alkalinity (Total)	mg CaCO3/l	No WSV	104	<10	930	0		250	33	
Chloride	mg/l	250	104	<1	9500	24	69228; 69229; 72189; 72758; 60017; 62157; 61415; 61416; 61932; 61933; 61935; 62522; 62523; 152242; 152243; 152748; 154534; 154537; 154538; 155737; 155739; 166089; 168450; 169668	74	53	
Ammoniacal Nitrogen	mg/l	No WSV	104	0.019	5.1	0				
Ammonium	mg/l	No WSV	104	<0.01	14	0		0.011	<0.01	
Nitrite	mg/l	0.5	104	0.02	0.96	1	205955	<0.02	<0.02	
Nitrate	mg/l	0.05	104	<0.5	190	54	70795; 70797; 71195; 72187; 72188; 72190; 72754; 72755; 72756; 72757; 72758; 62521; 62524; 93535; 93536; 93537; 93538; 93539; 132764; 132765; 132766; 132767; 132768; 132769; 152243; 152749; 152750; 152751; 154536; 155736; 155738; 155773; 165545; 165546; 165547; 165548; 168447; 168448; 168449; 169378; 169383; 169384; 169666; 169667; 194409; 194410; 194411; 194412; 205955; 205956; 205957; 205958; 205959; 205960	130	91	
Phosphate	mg/l	No WSV	104	0.05	0.64	0				
Phosphorus (Total)	mg/l	No WSV	104	<0.02	0.21	0				
Sulphate	mg/l	250	104	<1	1400	1	62157	62	62	
Total Oxidised Nitrogen	mg/l	No WSV	104	<0.2	36	0				
Cyanide (Free) Low-Level	mg/l	No WSV	104	0.005	<0.005	0				
Calcium	mg/l	N/A	104	<5	2300	0		120	43	
Potassium	mg/l	N/A	104	<0.5	36	0		25	7.8	
Magnesium	mg/l	N/A	104	<0.5	490	0		6	7	
Sodium	mg/l	200	104	1.1	2100	13	69229; 72189; 62157; 61415; 61932; 61933; 61935; 62523; 154534; 154537; 154538; 155737; 155739	23	22	
Arsenic (Dissolved)	mg/l	0.01	104	0.001	0.067	10	69229; 72189; 62157; 61932; 61935; 154534; 154537; 154538; 155737; 155739	<0.001	<0.001	
Boron (Dissolved)	mg/l	No WSV	104	0.02	1.5	0		0.16	0.076	
Cadmium (Dissolved)	mg/l	0.005	104	<0.00008	0.0006	0		0.00014	0.00058	
Chromium (Dissolved)	mg/l	0.05	104	<0.001	0.067	2	69877; 155737	0.0089	0.0078	
Copper (Dissolved)	mg/l	2	104	0.001	0.03	0		0.0012	0.002	
Manganese (Dissolved)	mg/l	0.05	104	<0.001	0.45	5	194412; 205953; 205954; 205955; 205960	0.0014	0.084	
Nickel (Dissolved)	mg/l	0.02	104	0.001	0.03	1	155737	0.0026	0.016	
Lead (Dissolved)	mg/l	0.01	104	<0.001	0.0071	0		<0.001	<0.001	
Zinc (Dissolved)	mg/l	3	104	<0.001	0.053	0		0.0027	0.0094	
Mercury Low Level	mg/l	No WSV	104	0.00001	0.000044	0		<0.00001	<0.00001	
Iron (Dissolved)	mg/l	0.2	104	0.02	18	24	69877; 70796; 71195; 60016; 60017; 60018; 61415; 61416; 61931; 62521; 62522; 62523; 62524; 62525; 152239; 152240; 152241; 152242; 152748; 152750; 168451; 169668; 205953; 205954	<0.02	<0.02	
Total Organic Carbon	mg/l	No WSV	104	<2	160	0		<2	3.3	
Total TPH >C6-C40	mg/l	No WSV	104	-10	<0.01	0				
Naphthalene	mg/l	See BaP	104	0.00001	<0.00001	0		<0.00001	<0.00001	
Acenaphthylene	mg/l	See BaP	104	0.00001	<0.00001	0		<0.00001	<0.00001	
Acenaphthene	mg/l	See BaP	104	0.00001	<0.00001	0		<0.00001	<0.00001	
Fluorene	mg/l	See BaP	104	0.00001	<0.00001	0		<0.00001	<0.00001	
Phenanthrene	mg/l	See BaP	104	0.00001	<0.00001	0		<0.00001	<0.00001	
Anthracene	mg/l	See BaP	104	0.00001	<0.00001	0		<0.00001	<0.00001	
Fluoranthene	mg/l	See BaP	104	0.00001	<0.00001	0		<0.00001	<0.00001	
Pyrene	mg/l	See BaP	104	0.00001	<0.00001	0		<0.00001	<0.00001	
Benzo[a]anthracene	mg/l	See BaP	104	0.00001	<0.00001	0		<0.00001	<0.00001	
Chrysene	mg/l	See BaP	104	0.00001	<0.00001	0		<0.00001	<0.00001	
Benzo[b]fluoranthene	mg/l	See PAH Sum of 4	104	0.00001	<0.00001	0		<0.00001	<0.00001	
Benzo[k]fluoranthene	mg/l	See PAH Sum of 4	104	0.00001	<0.00001	0		<0.00001	<0.00001	
Benzo[a]pyrene	mg/l	0.00001	104	0.00001	<0.00001	0		<0.00001	<0.00001	
Indeno(1,2,3-c,d)Pyrene	mg/l	See PAH Sum of 4	104	0.00001	<0.00001	0		<0.00001	<0.00001	
Dibenz(a,h)Anthracene	mg/l	See BaP	104	0.00001	<0.00001	0		<0.00001	<0.00001	
Benzo[g,h,i]perylene	mg/l	See PAH Sum of 4	104	0.00001	<0.00001	0		<0.00001	<0.00001	
Total Of 16 PAH's	mg/l	No WSV	104	0.0002	<0.0002	0		<0.0002	<0.0002	
Dichlorodifluoromethane	mg/l	No WSV	104	0.00001	<1	0		<0.001	<0.001	
Chloromethane	mg/l	No WSV	104	0.001	<0.001	0		<0.001	<0.001	
Vinyl Chloride	mg/l	0.0005	104	0.001	<0.001	0		<0.001	<0.001	
Bromomethane	mg/l	No WSV	104	0.005	<0.005	0		<0.005	<0.005	
Chloroethane	mg/l	No WSV	104	0.002	<0.002	0		<0.002	<0.002	
Trichlorofluoromethane	mg/l	No WSV	104	0.001	<0.001	0		<0.001	<0.001	
1,1-Dichloroethene	mg/l	No WSV	104	0.001	<0.001	0		<0.001	<0.001	
Trans 1,2-Dichloroethene	mg/l	No WSV	104	0.001	<0.001	0		<0.001	<0.001	
1,1-Dichloroethane	mg/l	No WSV	104	0.001	<0.001	0		<0.001	<0.001	
cis 1,2-Dichloroethene	mg/l	No WSV	104	0.001	<0.001	0		<0.001	<0.001	
Bromochloromethane	mg/l	No WSV	104	<0.001	<0.005	0		<0.005	<0.005	
Trichloromethane	mg/l	See Trihalomethanes	104	0.001	<0.001	0		<0.001	<0.001	
1,1,1-Trichloroethane	mg/l	2	104	0.001	<0.001	0		<0.001	<0.001	
Tetrachloromethane	mg/l	0.003	104	0.001	<0.001	0		<0.001	<0.001	
1,1-Dichloropropene	mg/l	No WSV	104	0.001	<0.001	0		<0.001	<0.001	
Benzene	mg/l	0.001	104	0.001	<0.001	0		<0.001	<0.001	
1,2-Dichloroethane	mg/l	0.003	104	0.002	<0.002	0		<0.002	<0.002	
Trichloroethene	mg/l	0.01 (sum of TCE & PCE)	104	0.001	<0.001	0		<0.001	<0.001	
1,2-Dichloropropane	mg/l	0.04	104	0.001	<0.001	0		<0.001	<0.001	
Dibromomethane	mg/l	No WSV	104	0.01	<0.01	0		<0.01	<0.01	
Bromodichloromethane	mg/l	See Trihalomethanes	104	0.005	<0.005	0		<0.005	<0.005	
cis-1,3-Dichloropropene	mg/l	No WSV	104	0.01	<0.01	0		<0.01	<0.01	
Toluene	mg/l	0.7	104	<0.001	0.0019	0		<0.001	<0.001	
Trans-1,3-Dichloropropene	mg/l	No WSV	104	0.01	<0.01	0		<0.01	<0.01	
1,1,2-Trichloroethane	mg/l	N/A	104	0.01	<0.01	0		<0.01	<0.01	
Tetrachloroethene	mg/l	0.01 (sum of TCE & PCE)	104	0.001	<0.001	0		<0.001	<0.001	
1,3-Dichloropropane	mg/l	No WSV	104	0.002	<0.002	0		<0.002	<0.002	
Dibromochloromethane	mg/l	See Trihalomethanes	104	0.01	<0.01	0		<0.01	<0.01	
1,2-Dibromoethane	mg/l	0.0004	104	0.005	<0.005	0		<0.005	<0.005	
Chlorobenzene	mg/l	No WSV	104	0.001	<0.001	0		<0.001	<0.001	
1,1,1,2-Tetrachloroethane	mg/l	No WSV	104	0.002	<0.002	0		<0.002	<0.002	
Ethylbenzene	mg/l	0.3	104	0.001	<0.001	0		<0.001	<0.001	
m & p-Xylene	mg/l	0.5	104	0.001	<0.001	0		<0.001	<0.001	
o-Xylene	mg/l	0.5	104	0.001	<0.001	0		<0.001	<0.001	
Styrene	mg/l	0.02	104	0.001	<0.001	0		<0.001	<0.001	
Tribromomethane	mg/l	No WSV	104	0.001	<0.001	0		<0.001	<0.001	
Isopropylbenzene	mg/l	No WSV	104	0.001	<0.001	0		<0.001	<0.001	
Bromobenzene	mg/l	No WSV	104	0.001	<0.001	0		<0.001	<0.001	
1,2,3-Trichloropropane	mg/l	No WSV	104	0.05	<0.05	0		<0.05	<0.05	
N-Propylbenzene	mg/l	No WSV	104	0.001	<0.001	0		<0.001	<0.001	
2-Chlorotoluene	mg/l	No WSV	104	0.001	<0.001	0		<0.001	<0.001	
1,3,5-Trimethylbenzene	mg/l	No WSV	104	0.001	<0.001	0		<0.001	<0.001	
4-Chlorotoluene	mg/l	No WSV	104	0.001	<0.001	0		<0.001	<0.001	
Tert-Butylbenzene	mg/l	No WSV	104	0.001	<0.001	0		<0.001	<0.001	
1,2,4-Trimethylbenzene	mg/l	No WSV	104	0.001	<0.001	0		<0.001	<0.001	
Sec-Butylbenzene	mg/l	No WSV	104	0.001	<0.001	0		<0.001	<0.001	
1,3-Dichlorobenzene	mg/l	No WSV	104	0.001	<0.001	0		<0.001	<0.001	
4-Isopropyltoluene	mg/l	No WSV	104	0.001	<0.001	0		<0.001	<0.001	
1,4-Dichlorobenzene	mg/l	No WSV	104	0.001	<0.001	0		<0.001	<0.001	
N-Butylbenzene	mg/l	No WSV	104	0.001	<0.001	0		<0.001	<0.001	
1,2-Dichlorobenzene	mg/l	No WSV	104	0.001	<0.001	0		<0.001	<0.001	
1,2-Dibromo-3-Chloropropane	mg/l	0.001	104	0.05	<0.05	0		<0.05	<0.05	
1,2,4-Trichlorobenzene	mg/l	No WSV	104	0.001	<0.001	0		<0.001	<0.001	
Hexachlorobutadiene	mg/l	0.0006	104	0.001	<0.001	0		<0.001	<0.001	
1,2,3-Trichlorobenzene	mg/l	No WSV	104	0.002	<0.002	0		<0.002	<0.002	
Methyl Tert-Butyl Ether	mg/l	No WSV	104	0.001	<0.001	0		<0.001	<0.001	
PCB 28	mg/l	No WSV	104	0.00001	<0.00001	0				
PCB 52	mg/l	No WSV	104	0.00001	<0.00001	0				
PCB 101	mg/l	No WSV	104	0.00001	<0.00001	0				
PCB 118	mg/l	No WSV	104	0.00001	<0.00001	0				
PCB 153	mg/l	No WSV	104	0.00001	<0.00001	0				
PCB 138	mg/l	No WSV	104	0.00001	<0.00001	0				

168448	168449	168450	168451	169378	169379	169380	169381	169382	169383	169384	169666	169667	169668	169669	169670	194409	194410	194411	194412	205953	205954	205955	205956	205957	205958	205959	205960	205961	

Assessment Criteria : *Drinking Water Standard*

CaCO 0.00 | 0.00 **DOC** 0.00

Calcium 0.00 **DOC** 0.00 **Catchment area** **Freshwater not listed**

Constituents	Unit	Generic Assessment Criteria (mg/l)	Number of Samples	Minimum Value	Maximum Value	Number of Exceedences	Locations of Exceedences	205959	205960	168447	168448	168449	168450	168451	169378	169379	169380	169381	169382	169383	169384	169666	169667	169668	169669	169670	194409	194410	194411	194412	205953	205954	205955	205956	205957	205958	205959	205960	205961	
Electrical Conductivity	µS/cm	No WSV	104	1	24000	0		910	500																															
Suspended Solids At 105C	mg/l	No WSV	104	<5	4300	0		10	<5																															
Biochemical Oxygen Demand Low Level	mg O2/l	No WSV	104	1	72	0																																		
Chemical Oxygen Demand Low Level	mg O2/l	No WSV	104	1	650	0																																		
PCB 180	mg/l	No WSV	104	0.00001	<0.00001	0																																		
Total PCBs (7 congeners)	mg/l	No WSV	104	0.00001	<0.00001	0																																		
Total Phenols	mg/l	No WSV	104	0.03	<0.03	0																																		

Assessment Criteria : *Coastal and Estuarine EQS*

CaCO 0.00 | 0.00 DOC 0.00

Calcium 0.00 DOC 0.00 Catchment area Freshwater not listed

Constituents	Unit	Generic Assessment Criteria (mg/l)	Number of Samples	Minimum Value	Maximum Value	Number of Exceedences	Locations of Exceedences	Zone	69227	69228	69229	69877	70795	70796	70797	71194	71195	72187	72188	72189	72190	72754	72755	72756	72757	72758	60014	60015	60016	60017	60018	62157	61414	61415	61416	61417	61930	61931	61932	61933	61935	61936	62521	62522	62523	62524	62525	93535	93536	93537	93538	93539	93540	132764	132765	132766	132767	132768
Electrical Conductivity	µS/cm	No WSV	104	1	24000	0			270	2000	9200	360	650	820	740	1000	690	680	180	4100	920	890	560	390	560	1300	4000	3900	920	1500	440	24000	750	4900	1400	940	600	560	1900	1800	2000	2.1	250	2900	2900	180	940	1100	910	780	920	580		1100	860	810	940	540
Suspended Solids At 105C	mg/l	No WSV	104	<5	4300	0			4100	4300	150	15	34	140	13	910	910	73	210	97	120	12	<5	47	<5	14	9	13	44	<5	8	240	1400	67	38	37	66	57	130	140	150	<5	110	100	72	61	250	350	420	56	36	51		25	21	12	8	18
Biochemical Oxygen Demand Low Level	mg O2/l	No WSV	104	1	72	0			1	2	3	11	<1	10	17	32	19	<1	<1	<1	1	12	11	16	15	14	<1	<1	<1	<1	4	<1	<1	<1	5	4	7.2	72	27	27	58	4.2	<1	3	3	1	1											
Chemical Oxygen Demand Low Level	mg O2/l	No WSV	104	1	650	0			11	15	86	57	14	10	17	37	25	17	6	72	650	11	12	18	9	15	<1	<1	41	90	83	76	8	19	86	23	7	72	27	27	58	17	1	10	10	10	17											
Alkalinity (Total)	mg CaCO3/l	No WSV	104	<10	930	0			170	110	930	140	82	350	210	420	90	91	45	150	170	180	80	160	220	240	51	47	400	460	150	160	75	55	380	380	660	240	760	760	740	12	36	77	200	40	580	240	230	110	200	21		150	190	150	200	35
Chloride	mg/l	N/A	104	<1	9500	0			66	700	3100	38	130	40	41	84	120	55	24	1500	65	110	49	21	50	340	5.1	<1	170	320	38	9500	220	1700	280	80	42	38	460	410	450	<1	65	980	830	26	88	87	71	68	61	59		90	63	80	75	60
Ammoniacal Nitrogen	mg/l	No WSV	104	0.019	5.1	0																																																				
Ammonium	mg/l	No WSV	104	<0.01	14	0			0.14	0.21	13	6.4	0.054	0.11	0.049	0.9	0.36	5.8	7.1	9.2	9.2	8.8	14	6.5	4.6	4.6	1.6	0.91	0.79	0.64	1.5	5.2	0.022	0.15	1.7	0.23	0.55	2.8	7.3	6.7	7.2	0.018	0.27	0.37	0.22	0.61	0.77	0.084	0.07	0.077	0.067	0.21		0.32	0.4	0.18	0.14	0.2
Nitrite	mg/l	N/A	104	0.02	0.96	0																																										<0.02	<0.02	<0.02	<0.02	<0.02		0.15	0.15	0.16	0.16	0.15
Nitrate	mg/l	N/A	104	<0.5	190	0			4.4	<0.5	<0.5	<0.5	66	<0.5	70	<0.5	9.1	150	12	<0.5	140	150	150	21	1.5	19	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	4.6	<0.5	<0.5	12	<0.5	190	110	130	140	120		190	99	130	150	110
Phosphate	mg/l	No WSV	104	0.05	0.64	0																																																				
Phosphorus (Total)	mg/l	No WSV	104	<0.02	0.21	0																																																				
Sulphate	mg/l	N/A	104	<1	1400	0			15	31	<1	11	5.7	47	61	38	96	51	28	54	64	95	98	25	51	28	2.4	<1	<1	<1	63	1400	1.6	6.1	18	81	<1	65	<1	<1	<1	<1	16	28	46	29	50	70	73	68	64	58		68	64	74	67	62
Total Oxidised Nitrogen	mg/l	No WSV	104	<0.2	36	0																																																				
Cyanide (Free) Low-Level	mg/l	No WSV	104	0.005	<0.005	0			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005											
Calcium	mg/l	N/A	104	<5	2300	0			67	310	110	52	80	140	110	100	99	90	9.7	610	100	140	80	62	82	140	7.6	<5	96	150	51	1500	90	970	280	240	220	220	180	180	200	98	<5	430	590	5.5	150	210	160	100	140	56		150	110	74	87	41
Potassium	mg/l	N/A	104	<0.5	36	0			13	6.1	6.7	1.7	2.6	6.4	11	10	3.6	4.7	3.5	17	32	4.5	3.8	4.1	1.5	6.2	20	<0.5	1.7	10	1.8	32	9.4	18	2.4	2.9	4.9	3.3	35	33	36	2.1	7.3	5.7	21	4	9.1	<0.5	<0.5	3.9	32	8.6		0.83	<0.5	4.1	19	7.6
Magnesium	mg/l	N/A	104	<0.5	490	0			10	22	6.4	3.2	8.2	9	7	25	9.8	9.5	4.6	42	8.1	23	23	10	6.9	11	<0.5	<0.5	9.9	13	4.5	490	25	93	24	14	9.1	9.6	44	52	59	19	5.4	28	34	5.1	23	9.6	5.4	14	9.3	9.9		8.2	7.8	12	6.3	10
Sodium	mg/l	N/A	104	1.1	2100	0			30	120	2100	19	52	34	27	90	73	25	23	280	35	39	19	12	41	170	45	1.1	62	99	22	1100	44	270	190	52	28	20	380	330	380	17	39	190	220	23	160	22	18	16	33	24		18	15	15	19	19
Arsenic (Dissolved)	mg/l	0.025	104	0.001	0.067	4	62157; 61932; 61935; 155737		0.0023	0.0029	0.012	0.0054	<0.001	0.0015	<0.001	0.0071	0.0025	<0.001	<0.001	0.012	<0.001	<0.001	<0.001	<0.001	0.0011	0.0011	<0.001	<0.001	<0.001	<0.001	<0.001	0.057	0.001	0.01	0.0014	<0.001	<0.001	0.0079	0.037	0.003	0.04	<0.001	<0.001	0.0036	0.0034	<0.001	<0.001	<0.001	<0.001	0.0013	<0.001	<0.001		0.002	0.0016	0.0034	0.0012	0.0011
Boron (Dissolved)	mg/l	No WSV	104	0.02	1.5	0			0.096	<0.02	0.82	0.72	0.024	0.04	0.02	0.52	0.69	<0.02	<0.02	<0.02	0.076	0.029	0.026	0.053	0.041	0.02	<0.02	<0.02	0.091	0.025	0.052	0.11	0.91	0.67	0.69	0.89	1.1	0.78	1.4	1.3	1.5	0.12	0.84	0.7	0.77	0.99	0.79	<0.02	<0.02	0.026	0.11	0.061		<0.02	<0.02	<0.02	<0.02	<0.02
Cadmium (Dissolved)	mg/l	0.0002	104	<0.00008	0.0006	4	93539; 132768; 152751; 205960		<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	0.000082	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	0.00057		<0.00008	<0.00008	<0.00008	<0.00008	0.0006
Chromium (Dissolved)	mg/l	0.0006	104	<0.001	0.067	78	69228; 69229; 69877; 70795; 70797; 72754; 72755; 72757; 72758; 62157; 61415; 61930; 61931; 61932; 61933; 61935; 61936; 62522; 62523; 93535; 93536; 93537; 93538; 93539; 132764; 132765; 132766; 132767; 132768; 132769; 152239; 152240; 152241; 152242; 152243; 152748; 152749; 152750; 152751; 154534; 154535; 154536; 154537; 154538; 155736; 155737; 155738; 155739; 155773; 155774; 155775; 155776; 165544; 165545; 165546; 165547; 165548; 166089; 168447; 168448; 168449; 168450; 168451; 169378; 169382; 169383; 169384; 169666; 169667; 169668; 205953; 205954; 205955; 205956; 205957; 205958; 205959; 205960		0.0025	0.0066	0.035	0.067	0.0033	<0.001	0.0017	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0024	0.0013	<0.001	0.0013	0.0021	<0.001	<0.001	<0.001	<0.001	<0.001	0.045	<0.001	0.0078	<0.001	<0.001	0.0085	0.0063	0.012	0.0093	0.011	0.0034	<0.001	0.0021	0.0037	<0.001	<0.001	0.0025	0.0023	0.0028	0.0017	0.0027		0.0088	0.0086	0.0079	0.006	0.0053
Copper (Dissolved)	mg/l	0.00376	104	0.001	0.03	11	69229; 60014; 62157; 61932; 61935; 132765; 154534; 154537; 155737; 205953; 205955		0.0015	<0.001	0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0013	<0.001	0.0016	0.012	<0.001	<0.001	0.0015	<0.001	0.03	<0.001	0.0018	<0.001	<0.001	<0.001	0.0033	0.004	0.0033	0.0042	<0.001	<0.001	0.0013	0.0013	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		0.0012	0.0047	<0.001	<0.001	<0.001
Manganese (Dissolved)	mg/l	N/A	104	<0.001	0.45	0																																																				
Nickel (Dissolved)	mg/l	0.0086	104	0.001	0.03	9	72755; 93539; 132768; 152751; 154534; 155737; 168451; 205953; 205960		0.0037	0.0062	0.0015	0.0012	<0.001	0.0015	<0.001	0.003	0.0031	<0.001	0.0012	0.0066	<0.001	0.0011	0.0093	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0011	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0031	0.0016	<0.001	<0.001	<0.001	<0.001	<0.001	0.018		<0.001	<0.001	0.001	<0.001	0.016
Lead (Dissolved)	mg/l	0.0013	104	<0.001	0.0071	3	168451; 169383; 205953		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001
Zinc (Dissolved)	mg/l	0.0068	104	<0.001	0.053	30	72187; 72754; 72755; 72756; 72758; 60014; 62157; 61931; 62521; 93539; 132764; 132768; 152243; 152751; 154534; 155737; 166089; 168447; 168449; 168451; 169378; 169383; 169666; 169667; 169668; 194412; 205953; 205955; 205957; 205960		0.0086	0.0023	0.004	0.0043	<0.001	0.0026	0.0033	0.0023	0.0066	0.0076	0.0034	0.005	0.0053	0.0093	0.013	0.0079	0.006	0.018	0.0095	<0.001	<0.001	<0.001	<0.001	0.04	0.0027	0.0058	<0.001	0.0025	0.0061	0.01	0.0048	0.0039	0.0057	0.002	0.011	0.0059	0.0058	0.0028	0.0035	0.0044	0.0035	0.0067	0.0034	0.015		0.0071	0.0019	0.0052	0.0031	0.014
Mercury Low Level	mg/l	No WSV	104	0.00001	0.000044	0			<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.000024	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.000022	0.000027	<0.00001	0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.000013	0.00001	0.000013	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Iron (Dissolved)	mg/l	1	104	0.02	18	13	69877; 70796; 60016; 60017; 60018; 61415; 61931; 62523; 62525; 152241; 168451; 169668; 205953		0.05	<0.02	0.04	1.5	<0.02	1.1	<0.02	0.13	0.61	<0.02	<0.02	<0.02	<0.02	<0.02	0.06	<0.02	<0.02	<0.02	<0.02	<0.02	1.5	1.1	1.7	<0.02	<0.02	2.9	0.33	<0.02	0.07	5.6	0.03	<0.02	<0.02	<0.02	0.29	0.22	1.1	1	3.6	<0.02	<0.02	<0.02	<0.02	0.02		<0.02	<0.02	<0.02	<0.02	<0.02
Total Organic Carbon	mg/l	No WSV	104	<2	160	0																																										<2.5	<2.5	<2.5	<2.5	<2.5		<2	<2	<2	<2	<2
Total TPH >C6-C40	mg/l	No WSV	104	-10	<0.01	0			<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.004	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.00013	<0.00001	<0.00001	<0.00001											
Naphthalene	mg/l	0.002	104	0.00001	<0.00001	0			<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Acenaphthylene	mg/l	N/A	104	0.00001	<0.00001	0			<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Acenaphthene	mg/l	N/A	104	0.00001	<0.00001	0			<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Fluorene	mg/l	N/A	104	0.00001	<0.00001	0			<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Phenanthrene	mg/l	See BaP	104	0.00001	<0.00001	0			<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Anthracene	mg/l	0.0001	104	0.00001	<0.00001	0			<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Fluoranthene	mg/l	0.0000063	104	0.00001	<0.00001	0			<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Pyrene	mg/l	N/A	104	0.00001	<0.00001	0			<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo[a]anthracene	mg/l	N/A	104	0.00001	<0.00001	0			<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Chrysene	mg/l	See BaP	104	0.00001	<0.00001	0			<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo[b]fluoranthene	mg/l	0.000017	104	0.00001	<0.00001	0			<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo[k]fluoranthene	mg/l	0.000017	104	0.00001	<0.00001	0			<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo[a]pyrene	mg/l	0.00000017	104	0.00001	<0.00001	0			<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Indeno(1,2,3-c,d)Pyrene	mg/l	N/A	104	0.00001	<0.00001	0			<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Dibenz(a,h)Anthracene	mg/l	N/A	104	0.00001	<0.00001	0			<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo[g,h,i]perylene	mg/l	0.00000082	104	0.00001	<0.00001	0			<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Total Of 16 PAH's	mg/l	No WSV	104	0.0002	<0.0002	0			<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Dichlorodifluoromethane	mg/l	No WSV	104	0.00001	<1	0			<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<1	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Chloromethane	mg/l	No WSV	104	0.001	<0.001	0			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vinyl Chloride	mg/l	N/A	104	0.001	<0.001	0			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromomethane	mg/l	No WSV	104	0.005	<0.005	0			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloroethane	mg/l	No WSV	104	0.002	<0.002	0			<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Trichlorofluoromethane	mg/l	No WSV	104	0.001	<0.001	0			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethene	mg/l	No WSV	104	0.001	<0.001	0			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trans 1,2-Dichloroethene	mg/l	No WSV	104	0.001	<0.001	0			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethane	mg/l	No WSV	104	0.001	<0.001	0			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
cis 1,2-Dichloroethene	mg/l	No WSV	104	0.001	<0.001	0			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromochloromethane	mg/l	No WSV	104	<0.001	<0.005	0			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Trichloromethane	mg/l	See Trihalomethanes	104	0.001	<0.001	0			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,1-Trichloroethane	mg/l	0.1	104	0.001	<0.001	0			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tetrachloromethane	mg/l	0.012	104	0.001	<0.001	0			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloropropene	mg/l	No WSV	104	0.001	<0.001	0			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Benzene	mg/l	0.008	104	0.001	<0.001	0			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichloroethane	mg/l	0.01	104	0.002	<0.002	0			<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Trichloroethene	mg/l	0.01	104	0.001	<0.001	0			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichloropropane	mg/l	N/A	104	0.001	<0.001	0			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dibromomethane	mg/l	No WSV	104	0.01	<0.01	0			<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bromodichloromethane	mg/l	N/A	104	0.005	<0.005	0			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
cis-1,3-Dichloropropene	mg/l	No WSV	104	0.01	<0.01	0			<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Toluene	mg/l	0.074	104	<0.001	0.0019	0			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0019	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trans-1,3-Dichloropropene	mg/l	No WSV	104	0.01	<0.01	0			<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
1,1,2-Trichloroethane	mg/l	0.3	104	0.01	<0.01	0			<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Tetrachloroethene	mg/l	0.01	104	0.001	<0.001	0			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,3-Dichloropropane	mg/l	No WSV	104	0.002	<0.002	0			<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Dibromochloromethane	mg/l	N/A	104	0.01	<0.01	0			<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
1,2-Dibromoethane	mg/l	N/A	104	0.005	<0.005	0			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chlorobenzene	mg/l	No WSV	104	0.001	<0.001	0			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,1,2-Tetrachloroethane	mg/l	No WSV	104	0.002	<0.002	0			<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Ethylbenzene	mg/l	0.02	104	0.001	<0.001	0			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
m & p-Xylene	mg/l	0.03	104	0.001	<0.001	0			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
o-Xylene	mg/l	0.03	104	0.001	<0.001	0			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Styrene	mg/l	0.05	104	0.001	<0.001	0			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tribromomethane	mg/l	No WSV	104	0.001	<0.001	0			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Isopropylbenzene	mg/l	No WSV	104	0.001	<0.001	0			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromobenzene	mg/l	No WSV	104	0.001	<0.001	0			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2,3-Trichloropropane	mg/l	No WSV	104	0.05	<0.05	0			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
N-Propylbenzene	mg/l	No WSV	104	0.001	<0.001	0			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2-Chlorotoluene	mg/l	No WSV	104	0.001	<0.001	0			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,3,5-Trimethylbenzene	mg/l	No WSV	104	0.001	<0.001	0			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
4-Chlorotoluene	mg/l	No WSV	104	0.001	<0.001	0			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tert-Butylbenzene	mg/l	No WSV	104	0.001	<0.001	0			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2,4-Trimethylbenzene	mg/l	No WSV	104	0.001	<0.001	0			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Sec-Butylbenzene	mg/l	No WSV	104	0.001	<0.001	0			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,3-Dichlorobenzene	mg/l	No WSV	104	0.001	<0.001	0			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
4-Isopropyltoluene	mg/l	No WSV	104	0.001	<0.001	0			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,4-Dichlorobenzene	mg/l	No WSV	104	0.001	<0.001	0			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
N-Butylbenzene	mg/l	No WSV	104	0.001	<0.001	0			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichlorobenzene	mg/l	No WSV	104	0.001	<0.001	0			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dibromo-3-Chloropropane	mg/l	N/A	104	0.05	<0.05	0			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,2,4-Trichlorobenzene	mg/l	No WSV	104	0.001	<0.001	0			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Hexachlorobutadiene	mg/l	0.0006	104	0.001	<0.001	0			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2,3-Trichlorobenzene	mg/l	No WSV	104	0.002	<0.002	0			<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Methyl Tert-Butyl Ether	mg/l	No WSV	104	0.001	<0.001	0			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
PCB 28	mg/l	No WSV	104	0.00001	<0.00001	0			<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001											
PCB 52	mg/l	No WSV	104	0.00001	<0.00001	0			<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001											
PCB 101	mg/l	No WSV	104	0.00001	<0.00001	0			<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001											
PCB 118	mg/l	No WSV	104	0.00001	<0.00001	0			<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001											
PCB 153	mg/l	No WSV	104	0.00001	<0.00001	0			<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001											
PCB 138	mg/l	No WSV	104	0.00001	<0.00001	0			<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001											
PCB 180	mg/l	No WSV	104	0.00001	<0.00001	0			<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001											

Assessment Criteria :	Coastal and Estuarine EQS
CaCO	0.00
Calcium	0.00
DOC	0.00
DOC	0.00
Catchment area	Freshwater not listed

Constituents	Unit	Generic Assessment Criteria (mg/l)	Number of Samples	Minimum Value	Maximum Value	Number of Exceedances	Locations of Exceedences	Zone	69227	69228	69229	69877	70795	70796	70797	71194	71195	72187	72188	72189	72190	72754	72755	72756	72757	72758	60014	60015	60016	60017	60018	62157	61414	61415	61416	61417	61930	61931	61932	61933	61935	61936	62521	62522	62523	62524	62525	93535	93536	93537	93538	93539	93540	132764	132765	132766	132767	132768
Electrical Conductivity	µS/cm	No WSV	104	1	24000	0			270	2000	9200	360	650	820	740	1000	690	680	180	4100	920	890	560	390	560	1300	4000	3900	920	1500	440	24000	750	4900	1400	940	600	560	1900	1800	2000	2.1	250	2900	2900	180	940	1100	910	780	920	580		1100	860	810	940	540
Suspended Solids At 105C	mg/l	No WSV	104	<5	4300	0			4100	4300	150	15	34	140	13	910	910	73	210	97	120	12	<5	47	<5	14	9	13	44	<5	8	240	1400	67	38	37	66	57	130	140	150	<5	110	100	72	61	250	350	420	56	36	51		25	21	12	8	18
Biochemical Oxygen Demand Low Level	mg O2/l	No WSV	104	1	72	0			1	2	3	11	<1	10	17	32	19	<1	<1	<1	1	12	11	16	15	14	<1	<1	<1	<1	4	<1	<1	<1	5	4	7.2	72	27	27	58	4.2	<1	3	3	1	1											
Chemical Oxygen Demand Low Level	mg O2/l	No WSV	104	1	650	0			11	15	86	57	14	10	17	37	25	17	6	72	650	11	12	18	9	15	<1	<1	41	90	83	76	8	19	86	23	7	72	27	27	58	17	1	10	10	10	17											
Total PCBs (7 congeners)	mg/l	No WSV	104	0.00001	<0.00001	0			<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001											
Total Phenols	mg/l	No WSV	104	0.03	<0.03	0			<0.030	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03											

Assessment Criteria :	Coastal and Estuarine EQS					
CaCO	0.00		0.00	DOC	0.00	
Calcium	0.00	DOC	0.00	Catchment area	Freshwater not listed	

Constituents	Unit	Generic Assessment Criteria (mg/l)	Number of Samples	Minimum Value	Maximum Value	Number of Exceedences	Locations of Exceedences
Electrical Conductivity	µS/cm	No WSV	104	1	24000	0	
Suspended Solids At 105C	mg/l	No WSV	104	<5	4300	0	
Biochemical Oxygen Demand Low Level	mg O2/l	No WSV	104	1	72	0	
Chemical Oxygen Demand Low Level	mg O2/l	No WSV	104	1	650	0	
Alkalinity (Total)	mg CaCO3/l	No WSV	104	<10	930	0	
Chloride	mg/l	N/A	104	<1	9500	0	
Ammoniacal Nitrogen	mg/l	No WSV	104	0.019	5.1	0	
Ammonium	mg/l	No WSV	104	<0.01	14	0	
Nitrite	mg/l	N/A	104	0.02	0.96	0	
Nitrate	mg/l	N/A	104	<0.5	190	0	
Phosphate	mg/l	No WSV	104	0.05	0.64	0	
Phosphorus (Total)	mg/l	No WSV	104	<0.02	0.21	0	
Sulphate	mg/l	N/A	104	<1	1400	0	
Total Oxidised Nitrogen	mg/l	No WSV	104	<0.2	36	0	
Cyanide (Free) Low-Level	mg/l	No WSV	104	0.005	<0.005	0	
Calcium	mg/l	N/A	104	<5	2300	0	
Potassium	mg/l	N/A	104	<0.5	36	0	
Magnesium	mg/l	N/A	104	<0.5	490	0	
Sodium	mg/l	N/A	104	1.1	2100	0	
Arsenic (Dissolved)	mg/l	0.025	104	0.001	0.067	4	62157; 61932; 61935; 155737
Boron (Dissolved)	mg/l	No WSV	104	0.02	1.5	0	
Cadmium (Dissolved)	mg/l	0.0002	104	<0.00008	0.0006	4	93539; 132768; 152751; 205960
Chromium (Dissolved)	mg/l	0.0006	104	<0.001	0.067	78	69228; 69229; 69877; 70795; 70797; 72754; 72755; 72757; 72758; 62157; 61415; 61930; 61931; 61932; 61933; 61935; 61936; 62522; 62523; 93535; 93536; 93537; 93538; 93539; 132764; 132765; 132766; 132767; 132768; 132769; 152239; 152240; 152241; 152242; 152243; 152748; 152749; 152750; 152751; 154534; 154535; 154536; 154537; 154538; 155736; 155737; 155738; 155739; 155773; 155774; 155775; 155776; 165544; 165545; 165546; 165547; 165548; 166089; 168447; 168448; 168449; 168450; 168451; 169378; 169382; 169383; 169384; 169666; 169667; 169668; 205953; 205954; 205955; 205956; 205957; 205958; 205959; 205960
Copper (Dissolved)	mg/l	0.00376	104	0.001	0.03	11	69229; 60014; 62157; 61932; 61935; 132765; 154534; 154537; 155737; 205953; 205955
Manganese (Dissolved)	mg/l	N/A	104	<0.001	0.45	0	
Nickel (Dissolved)	mg/l	0.0086	104	0.001	0.03	9	72755; 93539; 132768; 152751; 154534; 155737; 168451; 205953; 205960
Lead (Dissolved)	mg/l	0.0013	104	<0.001	0.0071	3	168451; 169383; 205953
Zinc (Dissolved)	mg/l	0.0068	104	<0.001	0.053	30	72187; 72754; 72755; 72756; 72758; 60014; 62157; 61931; 62521; 93539; 132764; 132768; 152243; 152751; 154534; 155737; 166089; 168447; 168449; 168451; 169378; 169383; 169666; 169667; 169668; 194412; 205953; 205955; 205957; 205960
Mercury Low Level	mg/l	No WSV	104	0.00001	0.000044	0	
Iron (Dissolved)	mg/l	1	104	0.02	18	13	69877; 70796; 60016; 60017; 60018; 61415; 61931; 62523; 62525; 152241; 168451; 169668; 205953
Total Organic Carbon	mg/l	No WSV	104	<2	160	0	
Total TPH >C6-C40	mg/l	No WSV	104	-10	<0.01	0	
Naphthalene	mg/l	0.002	104	0.00001	<0.00001	0	
Acenaphthylene	mg/l	N/A	104	0.00001	<0.00001	0	
Acenaphthene	mg/l	N/A	104	0.00001	<0.00001	0	
Fluorene	mg/l	N/A	104	0.00001	<0.00001	0	
Phenanthrene	mg/l	See BaP	104	0.00001	<0.00001	0	
Anthracene	mg/l	0.0001	104	0.00001	<0.00001	0	
Fluoranthene	mg/l	0.0000063	104	0.00001	<0.00001	0	
Pyrene	mg/l	N/A	104	0.00001	<0.00001	0	
Benzo[a]anthracene	mg/l	N/A	104	0.00001	<0.00001	0	
Chrysene	mg/l	See BaP	104	0.00001	<0.00001	0	
Benzo[b]fluoranthene	mg/l	0.000017	104	0.00001	<0.00001	0	
Benzo[k]fluoranthene	mg/l	0.000017	104	0.00001	<0.00001	0	
Benzo[a]pyrene	mg/l	0.00000017	104	0.00001	<0.00001	0	
Indeno(1,2,3-c,d)Pyrene	mg/l	N/A	104	0.00001	<0.00001	0	
Dibenz(a,h)Anthracene	mg/l	N/A	104	0.00001	<0.00001	0	
Benzo[g,h,i]perylene	mg/l	0.00000082	104	0.00001	<0.00001	0	
Total Of 16 PAH's	mg/l	No WSV	104	0.0002	<0.0002	0	
Dichlorodifluoromethane	mg/l	No WSV	104	0.00001	<1	0	
Chloromethane	mg/l	No WSV	104	0.001	<0.001	0	
Vinyl Chloride	mg/l	N/A	104	0.001	<0.001	0	
Bromomethane	mg/l	No WSV	104	0.005	<0.005	0	
Chloroethane	mg/l	No WSV	104	0.002	<0.002	0	
Trichlorofluoromethane	mg/l	No WSV	104	0.001	<0.001	0	
1,1-Dichloroethene	mg/l	No WSV	104	0.001	<0.001	0	
Trans 1,2-Dichloroethene	mg/l	No WSV	104	0.001	<0.001	0	
1,1-Dichloroethane	mg/l	No WSV	104	0.001	<0.001	0	
cis 1,2-Dichloroethene	mg/l	No WSV	104	0.001	<0.001	0	
Bromochloromethane	mg/l	No WSV	104	<0.001	<0.005	0	
Trichloromethane	mg/l	See Trihalomethanes	104	0.001	<0.001	0	
1,1,1-Trichloroethane	mg/l	0.1	104	0.001	<0.001	0	
Tetrachloromethane	mg/l	0.012	104	0.001	<0.001	0	
1,1-Dichloropropene	mg/l	No WSV	104	0.001	<0.001	0	
Benzene	mg/l	0.008	104	0.001	<0.001	0	
1,2-Dichloroethane	mg/l	0.01	104	0.002	<0.002	0	
Trichloroethene	mg/l	0.01	104	0.001	<0.001	0	
1,2-Dichloropropane	mg/l	N/A	104	0.001	<0.001	0	
Dibromomethane	mg/l	No WSV	104	0.01	<0.01	0	
Bromodichloromethane	mg/l	N/A	104	0.005	<0.005	0	
cis-1,3-Dichloropropene	mg/l	No WSV	104	0.01	<0.01	0	
Toluene	mg/l	0.074	104	<0.001	0.0019	0	
Trans-1,3-Dichloropropene	mg/l	No WSV	104	0.01	<0.01	0	
1,1,2-Trichloroethane	mg/l	0.3	104	0.01	<0.01	0	
Tetrachloroethene	mg/l	0.01	104	0.001	<0.001	0	
1,3-Dichloropropane	mg/l	No WSV	104	0.002	<0.002	0	
Dibromochloromethane	mg/l	N/A	104	0.01	<0.01	0	
1,2-Dibromoethane	mg/l	N/A	104	0.005	<0.005	0	
Chlorobenzene	mg/l	No WSV	104	0.001	<0.001	0	
1,1,1,2-Tetrachloroethane	mg/l	No WSV	104	0.002	<0.002	0	
Ethylbenzene	mg/l	0.02	104	0.001	<0.001	0	
m & p-Xylene	mg/l	0.03	104	0.001	<0.001	0	
o-Xylene	mg/l	0.03	104	0.001	<0.001	0	
Styrene	mg/l	0.05	104	0.001	<0.001	0	
Tribromomethane	mg/l	No WSV	104	0.001	<0.001	0	
Isopropylbenzene	mg/l	No WSV	104	0.001	<0.001	0	
Bromobenzene	mg/l	No WSV	104	0.001	<0.001	0	
1,2,3-Trichloropropane	mg/l	No WSV	104	0.05	<0.05	0	
N-Propylbenzene	mg/l	No WSV	104	0.001	<0.001	0	
2-Chlorotoluene	mg/l	No WSV	104	0.001	<0.001	0	
1,3,5-Trimethylbenzene	mg/l	No WSV	104	0.001	<0.001	0	
4-Chlorotoluene	mg/l	No WSV	104	0.001	<0.001	0	
Tert-Butylbenzene	mg/l	No WSV	104	0.001	<0.001	0	
1,2,4-Trimethylbenzene	mg/l	No WSV	104	0.001	<0.001	0	
Sec-Butylbenzene	mg/l	No WSV	104	0.001	<0.001	0	
1,3-Dichlorobenzene	mg/l	No WSV	104	0.001	<0.001	0	
4-Isopropyltoluene	mg/l	No WSV	104	0.001	<0.001	0	
1,4-Dichlorobenzene	mg/l	No WSV	104	0.001	<0.001	0	
N-Butylbenzene	mg/l	No WSV	104	0.001	<0.001	0	
1,2-Dichlorobenzene	mg/l	No WSV	104	0.001	<0.001	0	
1,2-Dibromo-3-Chloropropane	mg/l	N/A	104	0.05	<0.05	0	
1,2,4-Trichlorobenzene	mg/l	No WSV	104	0.001	<0.001	0	
Hexachlorobutadiene	mg/l	0.0006	104	0.001	<0.001	0	
1,2,3-Trichlorobenzene	mg/l	No WSV	104	0.002	<0.002	0	
Methyl Tert-Butyl Ether	mg/l	No WSV	104	0.001	<0.001	0	
PCB 28	mg/l	No WSV	104	0.00001	<0.00001	0	
PCB 52	mg/l	No WSV	104	0.00001	<0.00001	0	
PCB 101	mg/l	No WSV	104	0.00001	<0.00001	0	
PCB 118	mg/l	No WSV	104	0.00001	<0.00001	0	
PCB 153	mg/l	No WSV	104	0.00001	<0.00001	0	
PCB 138	mg/l	No WSV	104	0.00001	<0.00001	0	
PCB 180	mg/l	No WSV	104	0.00001	<0.00001	0	

Constituents	132769	152238	152239	152240	152241	152242	152243	152748	152749	152750	152751
Electrical Conductivity	960	1	960	270	640	1300	1100	1400	580	930	570
Suspended Solids At 105C	23	<5	15	<5	46	90	21	54	830	<5	830
Biochemical Oxygen Demand Low Level		1.1	5.5	14	8.6	<1	<1	12	<1	<1	2.8
Chemical Oxygen Demand Low Level		2	16	31	30	9	11	47	2	4	11
Alkalinity (Total)	210	15	400	110	53	56	18	460	79	200	28
Chloride	86	<1	83	31	210	400	380	270	49	74	58
Ammoniacal Nitrogen								1.9	0.43	0.3	0.43
Ammonium	0.16	0.7	0.8	1.1	0.43	0.49	0.53	2.5	0.55	0.39	0.55
Nitrite	0.16							<0.02	<0.02	<0.02	<0.02
Nitrate	150	<0.5	<0.5	<0.5	<0.5	<0.5	5.6	<0.5	93	160	120
Phosphate								0.055	0.17	0.14	0.093
Phosphorus (Total)								<0.02	0.057	0.047	0.031
Sulphate	99	<1	100	14	<1	35	28	25	68	60	59
Total Oxidised Nitrogen								<0.2	21	36	27
Cyanide (Free) Low-Level		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium	99	8.4	120	110	80	160	51	230	76	110	63
Potassium	1.8	27	10	3.2	8.6	5.7	9.4	8.1	6.2	26	14
Magnesium	13	3.2	12	7.2	16	14	31	18	13	7.8	9.9
Sodium	16	54	55	29	36	74	170	67	29	31	31
Arsenic (Dissolved)	0.0011	<0.001	<0.001	<0.001	0.0073	0.0034	0.0013	0.0016	<0.001	<0.001	<0.001
Boron (Dissolved)	<0.02	<0.02	0.046	0.049	0.038	<0.02	0.033	0.54	0.6	0.81	0.81
Cadmium (Dissolved)	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	0.00011	<0.00008	<0.00008	<0.00008	0.00049
Chromium (Dissolved)	0.0068	<0.001	0.0068	0.0059	0.0039	0.0051	0.012	0.0048	0.0013	0.0019	0.0012
Copper (Dissolved)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0022	<0.001	<0.001	<0.001	<0.001
Manganese (Dissolved)											
Nickel (Dissolved)	<0.001	<0.001	<0.001	<0.001	0.0058	<0.001	0.0068	<0.001	<0.001	<0.001	0.017
Lead (Dissolved)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Zinc (Dissolved)	0.004	<0.001	0.0066	0.0053	0.0022	0.004	0.014	<0.001	<0.001	0.0012	0.0098
Mercury Low Level	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Iron (Dissolved)	<0.02	0.027	0.48	0.25	18	0.9	0.1	0.59	0.17	0.38	0.17
Total Organic Carbon	<2	11	7.3	14	7.9	2.9	6.2	19	6.9	5.8	3.8
Total TPH >C6-C40		-10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Naphthalene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Acenaphthylene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Acenaphthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Fluorene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Phenanthrene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Anthracene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Fluoranthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Pyrene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo[a]anthracene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Chrysene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo[b]fluoranthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo[k]fluoranthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo[a]pyrene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Indeno(1,2,3-c,d)Pyrene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Dibenz(a,h)Anthracene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo[g,h,i]perylene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Total Of 16 PAH's	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Dichlorodifluoromethane	<0.00001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vinyl Chloride	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromomethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloroethane	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Trichlorofluoromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trans 1,2-Dichloroethene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
cis 1,2-Dichloroethene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromochloromethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Trichloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,1-Trichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tetrachloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloropropene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Benzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichloroethane	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Trichloroethene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichloropropane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dibromomethane	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bromodichloromethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
cis-1,3-Dichloropropene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Toluene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trans-1,3-Dichloropropene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
1,1,2-Trichloroethane	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Tetrachloroethene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,3-Dichloropropane	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Dibromochloromethane	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
1,2-Dibromoethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,1,2-Tetrachloroethane	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Ethylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
m & p-Xylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
o-Xylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Styrene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tribromomethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Isopropylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2,3-Trichloropropane	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
N-Propylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2-Chlorotoluene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,3,5-Trimethylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
4-Chlorotoluene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tert-Butylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2,4-Trimethylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Sec-Butylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,3-Dichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
4-Isopropyltoluene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,4-Dichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
N-Butylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dibromo-3-Chloropropane	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,2,4-Trichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Hexachlorobutadiene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2,3-Trichlorobenzene	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Methyl Tert-Butyl Ether	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
PCB 28		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
PCB 52		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
PCB 101		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
PCB 118		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
PCB 153		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
PCB 138		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
PCB 180		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001

Constituents	154534	154535	154536	154537	154538	155736	155737	155738	155739	155773	155774	155775	155776
Electrical Conductivity	6900	800	610	3600	1600	170	16	690	4300	620	760	650	750
Suspended Solids At 105C	95	540	330	240	160	11	220	23	27	93	150	<5	28
Biochemical Oxygen Demand Low Level	2	2	1	1	4	<1	2.3	<1	4.6	<1	<1	<1	<1
Chemical Oxygen Demand Low Level	22	23	11	32	26	<1	70	<1	14	<1	<1	17	<1
Alkalinity (Total)	100	250	45	310	380	<10	130	220	25	65	380	310	390
Chloride	2400	67	110	1200	320	24	6700	55	1700	140	41	45	41
Ammoniacal Nitrogen	0.076	0.026	0.078	5.1	3.7	0.03	0.093	0.019	0.086	0.02	0.043	0.78	0.25
Ammonium	0.098	0.033	0.1	6.5	4.8	0.039	0.12	0.025	0.11	0.026	0.055	1	0.32
Nitrite	<0.02	<0.02	0.13	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Nitrate	<0.5	<0.5	19	<0.5	<0.5	14	<0.5	66	<0.5	61	<0.5	<0.5	<0.5
Phosphate	0.05	0.054	0.054	0.059	0.057	0.18	0.05	0.18	0.052	0.16	0.055	0.17	0.052
Phosphorus (Total)	<0.02	<0.02	<0.02	<0.02	<0.02	0.06	<0.02	0.06	<0.02	0.053	<0.02	0.057	<0.02
Sulphate	66	11	100	10	<1	26	160	62	7	6	48	6.7	4.4
Total Oxidised Nitrogen	<0.2	<0.2	4.3	<0.2	<0.2	3.2	<0.2	15	<0.2	14	<0.2	<0.2	<0.2
Cyanide (Free) Low-Level	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium	940	140	93	240	140	6.1	2300	120	550	72	130	110	130
Potassium	19	6.7	4.7	31	25	2.4	19	10	15	2.3	5.3	2.5	3.2
Magnesium	69	18	12	60	37	6.5	170	9.9	68	9	9.1	13	9.2
Sodium	440	78	71	550	240	23	1300	31	210	47	30	21	27
Arsenic (Dissolved)	0.021	0.0028	0.0015	0.011	0.017	0.001	0.067	0.0025	0.011	0.0015	0.002	0.0034	0.0011
Boron (Dissolved)	0.44	0.43	0.66	0.95	0.81	0.027	0.038	0.038	0.029	<0.02	0.04	0.027	0.048
Cadmium (Dissolved)	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
Chromium (Dissolved)	0.034	0.0079	0.0044	0.014	0.0091	0.0014	0.064	0.017	0.031	0.015	0.0081	0.0071	0.0077
Copper (Dissolved)	0.0055	0.001	<0.001	0.0054	0.0029	<0.001	0.014	<0.001	0.0023	<0.001	<0.001	<0.001	<0.001
Manganese (Dissolved)													
Nickel (Dissolved)	0.0093	0.0014	0.0021	0.0037	0.0012	0.0021	0.03	0.0014	0.0017	<0.001	0.0027	0.0028	0.0031
Lead (Dissolved)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Zinc (Dissolved)	0.027	0.0045	0.0059	0.0033	0.0024	0.0041	0.01	0.0043	0.0048	0.0061	0.0064	0.0052	0.0037
Mercury Low Level	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.000016	<0.00001
Iron (Dissolved)	<0.02	0.02	0.04	<0.02	0.04	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.06	<0.02
Total Organic Carbon	12	15	16	16	19	4.2	3.3	3.2	2.7	2.9	3.5	11	8.6
Total TPH >C6-C40	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Naphthalene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Acenaphthylene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Acenaphthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Fluorene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Phenanthrene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Anthracene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Fluoranthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Pyrene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo[a]anthracene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Chrysene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo[b]fluoranthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo[k]fluoranthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo[a]pyrene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Indeno(1,2,3-c,d)Pyrene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Dibenz(a,h)Anthracene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo[g,h,i]perylene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Total Of 16 PAH's	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Dichlorodifluoromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vinyl Chloride	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromomethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloroethane	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Trichlorofluoromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trans 1,2-Dichloroethene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
cis 1,2-Dichloroethene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromochloromethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Trichloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,1-Trichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tetrachloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloropropene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Benzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichloroethane	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Trichloroethene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichloropropane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dibromomethane	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bromodichloromethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
cis-1,3-Dichloropropene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Toluene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trans-1,3-Dichloropropene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
1,1,2-Trichloroethane	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Tetrachloroethene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,3-Dichloropropane	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Dibromochloromethane	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
1,2-Dibromoethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,1,2-Tetrachloroethane	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Ethylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
m & p-Xylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
o-Xylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Styrene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tribromomethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Isopropylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2,3-Trichloropropane	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
N-Propylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2-Chlorotoluene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,3,5-Trimethylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
4-Chlorotoluene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tert-Butylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2,4-Trimethylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Sec-Butylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,3-Dichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
4-Isopropyltoluene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,4-Dichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
N-Butylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dibromo-3-Chloropropane	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,2,4-Trichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Hexachlorobutadiene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2,3-Trichlorobenzene	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Methyl Tert-Butyl Ether	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
PCB 28	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
PCB 52	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
PCB 101	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
PCB 118	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
PCB 153	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
PCB 138	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
PCB 180	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001

Constituents	165544	165545	165546	165547	165548	166089	168447	168448	168449	168450	168451
Electrical Conductivity	810	620	1100	780	750	1500	530	780	580	2700	570
Suspended Solids At 105C	93	49	340	<5	38	19	26	15	<5	350	800
Biochemical Oxygen Demand Low Level	4	1	<1	1	<1	<1	<1	<1	1	<1	<1
Chemical Oxygen Demand Low Level	8.3	5.4	1.8	6	7.3	32	<1	3.1	2.8	8.3	38
Alkalinity (Total)	480	110	220	240	140	540	25	130	12	66	47
Chloride	40	130	83	60	76	310	47	79	200	880	190
Ammoniacal Nitrogen	0.072	0.093	0.11	0.12	0.1	0.15	0.12	0.078	0.17	0.19	0.38
Ammonium	0.093	0.12	0.14	0.15	0.13	0.19	0.16	0.1	0.22	0.24	0.49
Nitrite	<0.02	0.023	0.025	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Nitrate	<0.5	6.9	29	85	140	<0.5	70	87	6	<0.5	<0.5
Phosphate	0.075	0.19	0.077	0.1	0.64	0.053	0.12	0.12	0.059	<0.05	<0.05
Phosphorus (Total)	0.025	0.063	0.026	0.033	0.21	<0.02	0.04	0.04	<0.02	<0.02	<0.02
Sulphate	47	5.5	73	68	77	<1	91	80	21	26	<1
Total Oxidised Nitrogen	<0.2	1.6	6.6	19	32	<0.2	16	20	1.4	<0.2	<0.2
Cyanide (Free) Low-Level	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium	130	76	170	130	110	200	61	130	7.7	290	55
Potassium	5.6	2.2	0.71	<0.5	6.2	3.1	4.3	5.1	8.4	7	7.8
Magnesium	8.7	8.8	7.8	7.7	15	16	19	15	21	20	18
Sodium	30	45	22	22	22	92	18	28	77	150	27
Arsenic (Dissolved)	0.001	<0.001	<0.001	<0.001	<0.001	0.0024	<0.001	<0.001	<0.001	0.0046	0.0034
Boron (Dissolved)	0.49	0.48	0.57	0.53	0.53	0.034	0.63	0.45	0.62	0.59	0.4
Cadmium (Dissolved)	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	0.00009
Chromium (Dissolved)	0.0021	0.0034	0.0035	0.0027	0.0029	0.011	0.0023	0.0028	0.0038	0.019	0.018
Copper (Dissolved)	<0.001	<0.001	<0.001	<0.001	<0.001	0.0011	<0.001	<0.001	<0.001	0.0012	0.0033
Manganese (Dissolved)											
Nickel (Dissolved)	0.001	<0.001	<0.001	<0.001	<0.001	0.006	0.0082	0.0011	0.0046	0.0016	0.01
Lead (Dissolved)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0071
Zinc (Dissolved)	0.0021	<0.001	0.0019	0.0022	0.0025	0.0093	0.0075	0.0067	0.0076	0.0053	0.033
Mercury Low Level	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.000037	0.000044	<0.00001
Iron (Dissolved)	0.11	<0.02	<0.02	<0.02	<0.02	0.06	<0.02	<0.02	<0.02	<0.02	1.7
Total Organic Carbon	10	7.3	9.9	7.2	7.1	9.6	6.3	5.6	6.6	5.4	4.8
Total TPH >C6-C40	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Naphthalene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Acenaphthylene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Acenaphthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Fluorene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Phenanthrene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Anthracene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Fluoranthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Pyrene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo[a]anthracene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Chrysene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo[b]fluoranthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo[k]fluoranthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo[a]pyrene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Indeno(1,2,3-c,d)Pyrene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Dibenz(a,h)Anthracene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo[g,h,i]perylene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Total Of 16 PAH's	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Dichlorodifluoromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vinyl Chloride	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromomethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloroethane	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Trichlorofluoromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trans 1,2-Dichloroethene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
cis 1,2-Dichloroethene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromochloromethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Trichloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,1-Trichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tetrachloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloropropene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Benzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichloroethane	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Trichloroethene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichloropropane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dibromomethane	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bromodichloromethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
cis-1,3-Dichloropropene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Toluene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trans-1,3-Dichloropropene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
1,1,2-Trichloroethane	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Tetrachloroethene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,3-Dichloropropane	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Dibromochloromethane	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
1,2-Dibromoethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,1,2-Tetrachloroethane	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Ethylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
m & p-Xylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
o-Xylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Styrene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tribromomethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Isopropylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2,3-Trichloropropane	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
N-Propylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2-Chlorotoluene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,3,5-Trimethylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
4-Chlorotoluene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tert-Butylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2,4-Trimethylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Sec-Butylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,3-Dichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
4-Isopropyltoluene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,4-Dichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
N-Butylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dibromo-3-Chloropropane	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,2,4-Trichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Hexachlorobutadiene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2,3-Trichlorobenzene	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Methyl Tert-Butyl Ether	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
PCB 28	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
PCB 52	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
PCB 101	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
PCB 118	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
PCB 153	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
PCB 138	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
PCB 180	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001

Constituents	169378	169382	169383	169384	169666	169667	169668
Electrical Conductivity	720	840	620	750	1300	560	860
Suspended Solids At 105C	10	390	290	9	6	<5	82
Biochemical Oxygen Demand Low Level	1.1	<1	1.1	<1	7	3	9
Chemical Oxygen Demand Low Level	6.2	18	1.7	1	13	8.8	34
Alkalinity (Total)	240	500	190	220	440	230	400
Chloride	73	70	130	76	240	82	320
Ammoniacal Nitrogen	0.23	0.26	0.19	0.12	0.061	0.12	2.9
Ammonium	0.3	0.34	0.25	0.15	0.078	0.15	3.7
Nitrite	0.055	0.039	0.1	0.03	0.072	<0.02	<0.02
Nitrate	160	<0.5	24	150	23	4.4	<0.5
Phosphate	0.096	<0.05	<0.05	0.095	0.25	0.25	0.059
Phosphorus (Total)	0.032	<0.02	<0.02	0.032	0.083	0.083	<0.02
Sulphate	67	15	100	67	48	50	42
Total Oxidised Nitrogen	36	<0.2	5.4	34	5.2	0.99	<0.2
Cyanide (Free) Low-Level	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium	89	110	42	91	120	66	78
Potassium	3.9	3	2.8	4.2	4.1	1.3	11
Magnesium	15	15	6.9	16	12	8.4	14
Sodium	20	58	72	23	130	35	67
Arsenic (Dissolved)	<0.001	0.0047	0.001	<0.001	0.0012	<0.001	0.003
Boron (Dissolved)	<0.02	0.051	0.036	0.029	0.046	<0.02	0.1
Cadmium (Dissolved)	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
Chromium (Dissolved)	0.0058	0.0027	0.0018	0.0081	0.0037	0.0014	0.0027
Copper (Dissolved)	<0.001	<0.001	0.0016	0.0011	0.0015	<0.001	<0.001
Manganese (Dissolved)							
Nickel (Dissolved)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Lead (Dissolved)	<0.001	<0.001	0.0014	<0.001	<0.001	<0.001	<0.001
Zinc (Dissolved)	0.011	0.0029	0.025	0.0061	0.012	0.0088	0.0093
Mercury Low Level	0.000014	0.000017	0.000013	0.000022	<0.00001	<0.00001	<0.00001
Iron (Dissolved)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	4.2
Total Organic Carbon	3.1	8	4.9	4.2	5.1	2.8	9.4
Total TPH >C6-C40	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Naphthalene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Acenaphthylene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Acenaphthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Fluorene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Phenanthrene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Anthracene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Fluoranthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Pyrene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo[a]anthracene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Chrysene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo[b]fluoranthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo[k]fluoranthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo[a]pyrene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Indeno(1,2,3-c,d)Pyrene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Dibenz(a,h)Anthracene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo[g,h,i]perylene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Total Of 16 PAH's	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Dichlorodifluoromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vinyl Chloride	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromomethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloroethane	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Trichlorofluoromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trans 1,2-Dichloroethene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
cis 1,2-Dichloroethene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromochloromethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Trichloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,1-Trichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tetrachloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloropropene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Benzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichloroethane	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Trichloroethene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichloropropane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dibromomethane	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bromodichloromethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
cis-1,3-Dichloropropene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Toluene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trans-1,3-Dichloropropene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
1,1,2-Trichloroethane	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Tetrachloroethene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,3-Dichloropropane	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Dibromochloromethane	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
1,2-Dibromoethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,1,2-Tetrachloroethane	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Ethylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
m & p-Xylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
o-Xylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Styrene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tribromomethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Isopropylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2,3-Trichloropropane	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
N-Propylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2-Chlorotoluene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,3,5-Trimethylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
4-Chlorotoluene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tert-Butylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2,4-Trimethylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Sec-Butylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,3-Dichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
4-Isopropyltoluene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,4-Dichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
N-Butylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dibromo-3-Chloropropane	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,2,4-Trichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Hexachlorobutadiene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2,3-Trichlorobenzene	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Methyl Tert-Butyl Ether	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
PCB 28	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
PCB 52	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
PCB 101	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
PCB 118	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
PCB 153	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
PCB 138	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
PCB 180	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001

Constituents	194409	194410	194411	194412	205953	205954	205955	205956	205957	205958
Electrical Conductivity	570	750	720	610	1100	540	830	1000	780	710
Suspended Solids At 105C	160	30	24	36	98	<5	10	<5	17	<5
Biochemical Oxygen Demand Low Level										
Chemical Oxygen Demand Low Level										
Alkalinity (Total)	270	210	210	180	500	170	400	310	310	120
Chloride	27	69	71	45	83	54	48	74	61	71
Ammoniacal Nitrogen										
Ammonium	0.079	0.21	0.92	0.26	0.4	1.3	0.07	<0.01	<0.01	<0.01
Nitrite	<0.02	<0.02	0.026	0.089	<0.02	<0.02	0.96	<0.02	<0.02	<0.02
Nitrate	26	120	110	47	<0.5	<0.5	55	36	67	120
Phosphate										
Phosphorus (Total)										
Sulphate	27	61	46	79	120	64	46	75	61	66
Total Oxidised Nitrogen										
Cyanide (Free) Low-Level										
Calcium	100	120	110	110	130	58	130	150	110	82
Potassium	<0.5	3.3	2	1.5	30	13	5	0.58	<0.5	4.2
Magnesium	3.7	6.9	5.2	5.8	12	6.5	5.2	7.6	6.1	12
Sodium	14	25	27	21	73	24	17	23	18	16
Arsenic (Dissolved)	<0.001	0.002	<0.001	0.0031	0.0024	0.0021	<0.001	<0.001	<0.001	0.0013
Boron (Dissolved)	0.44	0.45	0.54	0.49	0.3	0.046	0.073	0.025	0.021	0.034
Cadmium (Dissolved)	<0.00008	<0.00008	<0.00008	<0.00008	0.00015	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
Chromium (Dissolved)	<0.001	<0.001	<0.001	<0.001	0.0082	0.0021	0.0026	0.009	0.0024	0.0024
Copper (Dissolved)	<0.001	<0.001	<0.001	<0.001	0.0043	<0.001	0.004	<0.001	<0.001	0.001
Manganese (Dissolved)	0.016	<0.001	0.0062	0.18	0.45	0.2	0.2	0.0035	0.0044	0.0023
Nickel (Dissolved)	0.0015	0.0012	<0.001	<0.001	0.0097	0.0016	0.0026	<0.001	<0.001	<0.001
Lead (Dissolved)	<0.001	<0.001	<0.001	<0.001	0.0048	<0.001	<0.001	<0.001	<0.001	<0.001
Zinc (Dissolved)	0.0025	0.0053	0.0033	0.0069	0.053	0.0047	0.011	0.0045	0.0094	0.0063
Mercury Low Level	0.00001	0.000011	0.000011	0.000011	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Iron (Dissolved)	0.05	<0.02	<0.02	0.02	1.1	0.36	<0.02	<0.02	<0.02	<0.02
Total Organic Carbon	<2	<2	<2	<2	160	45	6.6	<2	<2	<2
Total TPH >C6-C40										
Naphthalene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Acenaphthylene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Acenaphthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Fluorene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Phenanthrene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Anthracene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Fluoranthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Pyrene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo[a]anthracene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Chrysene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo[b]fluoranthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo[k]fluoranthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo[a]pyrene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Indeno(1,2,3-c,d)Pyrene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Dibenz(a,h)Anthracene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo[g,h,i]perylene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Total Of 16 PAH's	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Dichlorodifluoromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vinyl Chloride	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromomethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloroethane	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Trichlorofluoromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trans 1,2-Dichloroethene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
cis 1,2-Dichloroethene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromochloromethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Trichloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,1-Trichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tetrachloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloropropene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Benzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichloroethane	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Trichloroethene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichloropropane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dibromomethane	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bromodichloromethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
cis-1,3-Dichloropropene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Toluene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trans-1,3-Dichloropropene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
1,1,2-Trichloroethane	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Tetrachloroethene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,3-Dichloropropane	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Dibromochloromethane	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
1,2-Dibromoethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,1,2-Tetrachloroethane	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Ethylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
m & p-Xylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
o-Xylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Styrene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tribromomethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Isopropylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2,3-Trichloropropane	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
N-Propylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2-Chlorotoluene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,3,5-Trimethylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
4-Chlorotoluene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tert-Butylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2,4-Trimethylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Sec-Butylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,3-Dichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
4-Isopropyltoluene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,4-Dichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
N-Butylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dibromo-3-Chloropropane	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,2,4-Trichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Hexachlorobutadiene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2,3-Trichlorobenzene	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Methyl Tert-Butyl Ether	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
PCB 28										
PCB 52										
PCB 101										
PCB 118										
PCB 153										
PCB 138										
PCB 180										

ATKINS

Assessment Criteria :	Coastal and Estuarine EQS						
CaCO	0.00		0.00	DOC	0.00		
Calcium	0.00	DOC	0.00		Catchment area		Freshwater not listed

Constituents	Unit	Generic Assessment Criteria (mg/l)	Number of Samples	Minimum Value	Maximum Value	Number of Exceedences	Locations of Exceedences
Electrical Conductivity	µS/cm	No WSV	104	1	24000	0	
Suspended Solids At 105C	mg/l	No WSV	104	<5	4300	0	
Biochemical Oxygen Demand Low Level	mg O2/l	No WSV	104	1	72	0	
Chemical Oxygen Demand Low Level	mg O2/l	No WSV	104	1	650	0	
Total PCBs (7 congeners)	mg/l	No WSV	104	0.00001	<0.00001	0	
Total Phenols	mg/l	No WSV	104	0.03	<0.03	0	

Constituents	132769	152238	152239	152240	152241	152242	152243	152748	152749	152750	152751	154534	154535
Electrical Conductivity	960	1	960	270	640	1300	1100	1400	580	930	570	6900	800
Suspended Solids At 105C	23	<5	15	<5	46	90	21	54	830	<5	830	95	540
Biochemical Oxygen Demand Low Level		1.1	5.5	14	8.6	<1	<1	12	<1	<1	2.8	2	2
Chemical Oxygen Demand Low Level		2	16	31	30	9	11	47	2	4	11	22	23
Total PCBs (7 congeners)		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Total Phenols		<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03

Constituents	154536	154537	154538	155736	155737	155738	155739	155773	155774	155775	155776	165544	165545
Electrical Conductivity	610	3600	1600	170	16	690	4300	620	760	650	750	810	620
Suspended Solids At 105C	330	240	160	11	220	23	27	93	150	<5	28	93	49
Biochemical Oxygen Demand Low Level	1	1	4	<1	2.3	<1	4.6	<1	<1	<1	<1	4	1
Chemical Oxygen Demand Low Level	11	32	26	<1	70	<1	14	<1	<1	17	<1	8.3	5.4
Total PCBs (7 congeners)	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Total Phenols	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03

Constituents	165546	165547	165548	166089	168447	168448	168449	168450	168451	169378	169382	169383	169384
Electrical Conductivity	1100	780	750	1500	530	780	580	2700	570	720	840	620	750
Suspended Solids At 105C	340	<5	38	19	26	15	<5	350	800	10	390	290	9
Biochemical Oxygen Demand Low Level	<1	1	<1	<1	<1	<1	1	<1	<1	1.1	<1	1.1	<1
Chemical Oxygen Demand Low Level	1.8	6	7.3	32	<1	3.1	2.8	8.3	38	6.2	18	1.7	1
Total PCBs (7 congeners)	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Total Phenols	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03

Constituents	169666	169667	169668	194409	194410	194411	194412	205953	205954	205955	205956	205957	205958
Electrical Conductivity	1300	560	860	570	750	720	610	1100	540	830	1000	780	710
Suspended Solids At 105C	6	<5	82	160	30	24	36	98	<5	10	<5	17	<5
Biochemical Oxygen Demand Low Level	7	3	9										
Chemical Oxygen Demand Low Level	13	8.8	34										
Total PCBs (7 congeners)	<0.00001	<0.00001	<0.00001										
Total Phenols	<0.03	<0.03	<0.03										

Assessment Criteria :	Coastal and Estuarine EQS					
CaCO	0.00		0.00	DOC	0.00	
Calcium	0.00	DOC	0.00		Catchment area	Freshwater not listed

Constituents	Unit	Generic Assessment Criteria (mg/l)	Number of Samples	Minimum Value	Maximum Value	Number of Exceedences	Locations of Exceedences	205959	205960	168447
Electrical Conductivity	µS/cm	No WSV	104	1	24000	0		910	500	
Suspended Solids At 105C	mg/l	No WSV	104	<5	4300	0		10	<5	
Biochemical Oxygen Demand Low Level	mg O2/l	No WSV	104	1	72	0				
Chemical Oxygen Demand Low Level	mg O2/l	No WSV	104	1	650	0				
Alkalinity (Total)	mg CaCO3/l	No WSV	104	<10	930	0		250	33	
Chloride	mg/l	N/A	104	<1	9500	0		74	53	
Ammoniacal Nitrogen	mg/l	No WSV	104	0.019	5.1	0				
Ammonium	mg/l	No WSV	104	<0.01	14	0		0.011	<0.01	
Nitrite	mg/l	N/A	104	0.02	0.96	0		<0.02	<0.02	
Nitrate	mg/l	N/A	104	<0.5	190	0		130	91	
Phosphate	mg/l	No WSV	104	0.05	0.64	0				
Phosphorus (Total)	mg/l	No WSV	104	<0.02	0.21	0				
Sulphate	mg/l	N/A	104	<1	1400	0		62	62	
Total Oxidised Nitrogen	mg/l	No WSV	104	<0.2	36	0				
Cyanide (Free) Low-Level	mg/l	No WSV	104	0.005	<0.005	0				
Calcium	mg/l	N/A	104	<5	2300	0		120	43	
Potassium	mg/l	N/A	104	<0.5	36	0		25	7.8	
Magnesium	mg/l	N/A	104	<0.5	490	0		6	7	
Sodium	mg/l	N/A	104	1.1	2100	0		23	22	
Arsenic (Dissolved)	mg/l	0.025	104	0.001	0.067	4	62157; 61932; 61935; 155737	<0.001	<0.001	
Boron (Dissolved)	mg/l	No WSV	104	0.02	1.5	0		0.16	0.076	
Cadmium (Dissolved)	mg/l	0.0002	104	<0.00008	0.0006	4	93539; 132768; 152751; 205960	0.00014	0.00058	
Chromium (Dissolved)	mg/l	0.0006	104	<0.001	0.067	78	69228; 69229; 69877; 70795; 70797; 72754; 72755; 72757; 72758; 62157; 61415; 61930; 61931; 61932; 61933; 61935; 61936; 62522; 62523; 93535; 93536; 93537; 93538; 93539; 132764; 132765; 132766; 132767; 132768; 132769; 152239; 152240; 152241; 152242; 152243; 152748; 152749; 152750; 152751; 154534; 154535; 154536; 154537; 154538; 155736; 155737; 155738; 155739; 155773; 155774; 155775; 155776; 165544; 165545; 165546; 165547; 165548; 166089; 168447; 168448; 168449; 168450; 168451; 169378; 169382; 169383; 169384; 169666; 169667; 169668; 205953; 205954; 205955; 205956; 205957; 205958; 205959; 205960	0.0089	0.0078	
Copper (Dissolved)	mg/l	0.00376	104	0.001	0.03	11	69229; 60014; 62157; 61932; 61935; 132765; 154534; 154537; 155737; 205953; 205955	0.0012	0.002	
Manganese (Dissolved)	mg/l	N/A	104	<0.001	0.45	0		0.0014	0.084	
Nickel (Dissolved)	mg/l	0.0086	104	0.001	0.03	9	72755; 93539; 132768; 152751; 154534; 155737; 168451; 205953; 205960	0.0026	0.016	
Lead (Dissolved)	mg/l	0.0013	104	<0.001	0.0071	3	168451; 169383; 205953	<0.001	<0.001	
Zinc (Dissolved)	mg/l	0.0068	104	<0.001	0.053	30	72187; 72754; 72755; 72756; 72758; 60014; 62157; 61931; 62521; 93539; 132764; 132768; 152243; 152751; 154534; 155737; 166089; 168447; 168449; 168451; 169378; 169383; 169666; 169667; 169668; 194412; 205953; 205955; 205957; 205960	0.0027	0.0094	
Mercury Low Level	mg/l	No WSV	104	0.00001	0.000044	0		<0.00001	<0.00001	
Iron (Dissolved)	mg/l	1	104	0.02	18	13	69877; 70796; 60016; 60017; 60018; 61415; 61931; 62523; 62525; 152241; 168451; 169668; 205953	<0.02	<0.02	
Total Organic Carbon	mg/l	No WSV	104	<2	160	0		<2	3.3	
Total TPH >C6-C40	mg/l	No WSV	104	-10	<0.01	0				
Naphthalene	mg/l	0.002	104	0.00001	<0.00001	0		<0.00001	<0.00001	
Acenaphthylene	mg/l	N/A	104	0.00001	<0.00001	0		<0.00001	<0.00001	
Acenaphthene	mg/l	N/A	104	0.00001	<0.00001	0		<0.00001	<0.00001	
Fluorene	mg/l	N/A	104	0.00001	<0.00001	0		<0.00001	<0.00001	
Phenanthrene	mg/l	See BaP	104	0.00001	<0.00001	0		<0.00001	<0.00001	
Anthracene	mg/l	0.0001	104	0.00001	<0.00001	0		<0.00001	<0.00001	
Fluoranthene	mg/l	0.0000063	104	0.00001	<0.00001	0		<0.00001	<0.00001	
Pyrene	mg/l	N/A	104	0.00001	<0.00001	0		<0.00001	<0.00001	
Benzo[a]anthracene	mg/l	N/A	104	0.00001	<0.00001	0		<0.00001	<0.00001	
Chrysene	mg/l	See BaP	104	0.00001	<0.00001	0		<0.00001	<0.00001	
Benzo[b]fluoranthene	mg/l	0.000017	104	0.00001	<0.00001	0		<0.00001	<0.00001	
Benzo[k]fluoranthene	mg/l	0.000017	104	0.00001	<0.00001	0		<0.00001	<0.00001	
Benzo[a]pyrene	mg/l	0.00000017	104	0.00001	<0.00001	0		<0.00001	<0.00001	
Indeno(1,2,3-c,d)Pyrene	mg/l	N/A	104	0.00001	<0.00001	0		<0.00001	<0.00001	
Dibenz(a,h)Anthracene	mg/l	N/A	104	0.00001	<0.00001	0		<0.00001	<0.00001	
Benzo[g,h,i]perylene	mg/l	0.00000082	104	0.00001	<0.00001	0		<0.00001	<0.00001	
Total Of 16 PAH's	mg/l	No WSV	104	0.0002	<0.0002	0		<0.0002	<0.0002	
Dichlorodifluoromethane	mg/l	No WSV	104	0.00001	<1	0		<0.001	<0.001	
Chloromethane	mg/l	No WSV	104	0.001	<0.001	0		<0.001	<0.001	
Vinyl Chloride	mg/l	N/A	104	0.001	<0.001	0		<0.001	<0.001	
Bromomethane	mg/l	No WSV	104	0.005	<0.005	0		<0.005	<0.005	
Chloroethane	mg/l	No WSV	104	0.002	<0.002	0		<0.002	<0.002	
Trichlorofluoromethane	mg/l	No WSV	104	0.001	<0.001	0		<0.001	<0.001	
1,1-Dichloroethene	mg/l	No WSV	104	0.001	<0.001	0		<0.001	<0.001	
Trans 1,2-Dichloroethene	mg/l	No WSV	104	0.001	<0.001	0		<0.001	<0.001	
1,1-Dichloroethane	mg/l	No WSV	104	0.001	<0.001	0		<0.001	<0.001	
cis 1,2-Dichloroethene	mg/l	No WSV	104	0.001	<0.001	0		<0.001	<0.001	
Bromochloromethane	mg/l	No WSV	104	<0.001	<0.005	0		<0.005	<0.005	
Trichloromethane	mg/l	See Trihalomethanes	104	0.001	<0.001	0		<0.001	<0.001	
1,1,1-Trichloroethane	mg/l	0.1	104	0.001	<0.001	0		<0.001	<0.001	
Tetrachloromethane	mg/l	0.012	104	0.001	<0.001	0		<0.001	<0.001	
1,1-Dichloropropene	mg/l	No WSV	104	0.001	<0.001	0		<0.001	<0.001	
Benzene	mg/l	0.008	104	0.001	<0.001	0		<0.001	<0.001	
1,2-Dichloroethane	mg/l	0.01	104	0.002	<0.002	0		<0.002	<0.002	
Trichloroethene	mg/l	0.01	104	0.001	<0.001	0		<0.001	<0.001	
1,2-Dichloropropane	mg/l	N/A	104	0.001	<0.001	0		<0.001	<0.001	
Dibromomethane	mg/l	No WSV	104	0.01	<0.01	0		<0.01	<0.01	
Bromodichloromethane	mg/l	N/A	104	0.005	<0.005	0		<0.005	<0.005	
cis-1,3-Dichloropropene	mg/l	No WSV	104	0.01	<0.01	0		<0.01	<0.01	
Toluene	mg/l	0.074	104	<0.001	0.0019	0		<0.001	<0.001	
Trans-1,3-Dichloropropene	mg/l	No WSV	104	0.01	<0.01	0		<0.01	<0.01	
1,1,2-Trichloroethane	mg/l	0.3	104	0.01	<0.01	0		<0.01	<0.01	
Tetrachloroethene	mg/l	0.01	104	0.001	<0.001	0		<0.001	<0.001	
1,3-Dichloropropane	mg/l	No WSV	104	0.002	<0.002	0		<0.002	<0.002	
Dibromochloromethane	mg/l	N/A	104	0.01	<0.01	0		<0.01	<0.01	
1,2-Dibromoethane	mg/l	N/A	104	0.005	<0.005	0		<0.005	<0.005	
Chlorobenzene	mg/l	No WSV	104	0.001	<0.001	0		<0.001	<0.001	
1,1,1,2-Tetrachloroethane	mg/l	No WSV	104	0.002	<0.002	0		<0.002	<0.002	
Ethylbenzene	mg/l	0.02	104	0.001	<0.001	0		<0.001	<0.001	
m & p-Xylene	mg/l	0.03	104	0.001	<0.001	0		<0.001	<0.001	
o-Xylene	mg/l	0.03	104	0.001	<0.001	0		<0.001	<0.001	
Styrene	mg/l	0.05	104	0.001	<0.001	0		<0.001	<0.001	
Tribromomethane	mg/l	No WSV	104	0.001	<0.001	0		<0.001	<0.001	
Isopropylbenzene	mg/l	No WSV	104	0.001	<0.001	0		<0.001	<0.001	
Bromobenzene	mg/l	No WSV	104	0.001	<0.001	0		<0.001	<0.001	
1,2,3-Trichloropropane	mg/l	No WSV	104	0.05	<0.05	0		<0.05	<0.05	
N-Propylbenzene	mg/l	No WSV	104	0.001	<0.001	0		<0.001	<0.001	
2-Chlorotoluene	mg/l	No WSV	104	0.001	<0.001	0		<0.001	<0.001	
1,3,5-Trimethylbenzene	mg/l	No WSV	104	0.001	<0.001	0		<0.001	<0.001	
4-Chlorotoluene	mg/l	No WSV	104	0.001	<0.001	0		<0.001	<0.001	
Tert-Butylbenzene	mg/l	No WSV	104	0.001	<0.001	0		<0.001	<0.001	
1,2,4-Trimethylbenzene	mg/l	No WSV	104	0.001	<0.001	0		<0.001	<0.001	
Sec-Butylbenzene	mg/l	No WSV	104	0.001	<0.001	0		<0.001	<0.001	
1,3-Dichlorobenzene	mg/l	No WSV	104	0.001	<0.001	0		<0.001	<0.001	
4-Isopropyltoluene	mg/l	No WSV	104	0.001	<0.001	0		<0.001	<0.001	
1,4-Dichlorobenzene	mg/l	No WSV	104	0.001	<0.001	0		<0.001	<0.001	
N-Butylbenzene	mg/l	No WSV	104	0.001	<0.001	0		<0.001	<0.001	
1,2-Dichlorobenzene	mg/l	No WSV	104	0.001	<0.001	0		<0.001	<0.001	
1,2-Dibromo-3-Chloropropane	mg/l	N/A	104	0.05	<0.05	0		<0.05	<0.05	
1,2,4-Trichlorobenzene	mg/l	No WSV	104	0.001	<0.001	0		<0.001	<0.001	
Hexachlorobutadiene	mg/l	0.0006	104	0.001	<0.001	0		<0.001	<0.001	
1,2,3-Trichlorobenzene	mg/l	No WSV	104	0.002	<0.002	0		<0.002	<0.002	
Methyl Tert-Butyl Ether	mg/l	No WSV	104	0.001	<0.001	0		<0.001	<0.001	
PCB 28	mg/l	No WSV	104	0.00001	<0.00001	0				
PCB 52	mg/l	No WSV	104	0.00001	<0.00001	0				
PCB 101	mg/l	No WSV	104	0.00001	<0.00001	0				
PCB 118	mg/l	No WSV	104	0.00001	<0.00001	0				
PCB 153	mg/l	No WSV	104	0.00001	<0.00001	0				
PCB 138	mg/l	No WSV	104	0.00001	<0.00001	0				
PCB 180	mg/l	No WSV	104	0.00001	<0.00001	0				

168448	168449	168450	168451	169378	169379	169380	169381	169382	169383	169384	169666	169667	169668	169669	169670	194409	194410	194411	194412	205953	205954	205955	205956	205957	205958	205959	205960	205961	

ATKINS

Assessment Criteria :	Coastal and Estuarine EQS					
CaCO	0.00		0.00	DOC	0.00	
Calcium	0.00	DOC	0.00		Catchment area	Freshwater not listed

Constituents	Unit	Generic Assessment Criteria (mg/l)	Number of Samples	Minimum Value	Maximum Value	Number of Exceedences	Locations of Exceedences	205959	205960	168447	168448	168449	168450	168451	169378	169379	169380	169381	169382	169383	169384	169666	169667	169668	169669	169670	194409	194410	194411	194412	205953	205954	205955	205956	205957	205958	205959	205960	205961	
Electrical Conductivity	µS/cm	No WSV	104	1	24000	0		910	500																															
Suspended Solids At 105C	mg/l	No WSV	104	<5	4300	0		10	<5																															
Biochemical Oxygen Demand Low Level	mg O2/l	No WSV	104	1	72	0																																		
Chemical Oxygen Demand Low Level	mg O2/l	No WSV	104	1	650	0																																		
Total PCBs (7 congeners)	mg/l	No WSV	104	0.00001	<0.00001	0																																		
Total Phenols	mg/l	No WSV	104	0.03	<0.03	0																																		

Assessment Criteria :	Drinking Water Standard					
CaCO	0.00		0.00	DOC	0.00	
Calcium	0.00	DOC	0.00	Catchment area	Freshwater not listed	

Constituents	Unit	Generic Assessment Criteria (mg/l)	Number of Samples	Minimum Value	Maximum Value	Number of Exceedences	Locations of Exceedences	Zone
pH Value (Lab)	pH Units	No WSV	197	5.7	12.6	0		
pH Value (Field)	pH Units	No WSV	155	5.6	12.6	0		
Redox Potential (ORP)	mV	No WSV	155	-363	145	0		
DO	%	No WSV	155	1	102	0		
Salinity	pss	No WSV	155	0	17.9	0		
Electrical Conductivity	µS/cm	No WSV	197	0.49	26100	0		
Suspended Solids	mg/l	No WSV	197	<0.5	1200	0		
Calcium	mg/l	N/A	197	14	8925	0		
Magnesium	mg/l	N/A	197	0.5	533.8	0		
Sodium	mg/l	200	197	4	5336	46	PZ_18 Campaign 4; PZ_18 Campaign 5; PZ_18 Campaign 6; GW6D Campaign 2; GW6D Campaign 3; GW6D Campaign 4; GW6D Campaign 5; GW6D Campaign 6; GW9S Campaign 3; GW9S Campaign 4; GW9S Campaign 5; GW9S Campaign 6; GW9D Campaign 1; GW9D Campaign 2; GW9D Campaign 3; GW9D Campaign 4; GW9D Campaign 5; GW9D Campaign 6; GW10 Campaign 2; GW10 Campaign 3; GW10 Campaign 4; GW11D Campaign 1; GW11D Campaign 5; GW11D Campaign 6; GW11S Campaign 1; GW11S Campaign 3; GW11S Campaign 4; GW11S Campaign 5; GW11S Campaign 6; GW15 Campaign 1; GW15 Campaign 4; GW15 Campaign 5; GW15 Campaign 6; GW24S Campaign 1; GW24S Campaign 2; GW24S Campaign 3; GW24S Campaign 4; GW24S Campaign 5; GW24S Campaign 6; PZ_14 Campaign 1; PZ_16 Campaign 2; PZ_16 Campaign 3; PZ_16 Campaign 4; PZ_16 Campaign 5; PZ_16 Campaign 6; PZ_16 Dup Campaign 5	
Potassium	mg/l	N/A	197	1	141	0		
Chloride	mg/l	250	197	13	8504	66	PZ_18 Campaign 1; PZ_18 Campaign 2; PZ_18 Campaign 3; PZ_18 Campaign 4; PZ_18 Campaign 5; PZ_18 Campaign 6; PZ_18 Dup Campaign 3; GW6D Campaign 1; GW6D Campaign 2; GW6D Campaign 3; GW6D Campaign 4; GW6D Campaign 5; GW6D Campaign 6; GW9S Campaign 2; GW9S Campaign 3; GW9S Campaign 4; GW9S Campaign 5; GW9S Campaign 6; GW9D Campaign 1; GW9D Campaign 2; GW9D Campaign 3; GW9D Campaign 4; GW9D Campaign 5; GW9D Campaign 6; GW10 Campaign 1; GW10 Campaign 2; GW10 Campaign 3; GW10 Campaign 4; GW10 Campaign 5; GW10 Campaign 6; GW10 Dup Campaign 1; GW11D Campaign 4; GW11D Campaign 5; GW11D Campaign 6; GW11D Dup Campaign 4; GW15 Campaign 4; GW15 Campaign 5; GW15 Campaign 6; PZ_21 Campaign 5; PZ_21 Campaign 6; GW24D Campaign 1; GW24D Campaign 2; GW24D Campaign 3; GW24D Campaign 4; GW24D Campaign 5; GW24D Campaign 6; GW24D Dup Campaign 4; GW24S Campaign 1; GW24S Campaign 2; GW24S Campaign 3; GW24S Campaign 4; GW24S Campaign 5; GW24S Campaign 6; PZ_6 Campaign 1; PZ_6 Campaign 2; PZ_6 Campaign 3; PZ_6 Campaign 4; PZ_6 Campaign 5; PZ_6 Campaign 6; PZ_14 Campaign 1; PZ_16 Campaign 2; PZ_16 Campaign 3; PZ_16 Campaign 4; PZ_16 Campaign 5; PZ_16 Campaign 6; PZ_16 Dup	
Sulphate	mg/l	250	197	1	1197	6	PZ_14 Campaign 1; PZ_16 Campaign 3; PZ_16 Campaign 4; PZ_16 Campaign 5; PZ_16 Campaign 6; PZ_16 Dup Campaign 5	
Alkalinity	mg/l CaCO3	No WSV	197	30	1360	0		
Nitrate	mg/l	0.05	197	1	214	97	GW1 Campaign 2; GW1 Campaign 3; GW1 Campaign 4; GW1 Campaign 5; GW1 Campaign 6; GW1 Dup Campaign 1; GW1 Dup Campaign 2; GW1 Dup Campaign 6; GW2 Campaign 1; GW2 Campaign 2; GW2 Campaign 3; GW2 Campaign 4; GW2 Campaign 5; GW2 Campaign 6; GW3 Campaign 1; GW3 Campaign 2; GW3 Campaign 3; GW3 Campaign 4; GW3 Campaign 5; GW3 Campaign 6; PZ_20 Campaign 1; PZ_20 Campaign 2; PZ_20 Campaign 3; PZ_20 Campaign 4; PZ_20 Campaign 5; PZ_20 Campaign 6; PZ_19 Campaign 1; PZ_19 Campaign 2; PZ_19 Campaign 3; PZ_19 Campaign 4; PZ_19 Campaign 5; PZ_19 Campaign 6; PZ_19 Dup Campaign 5; GW6D Campaign 5; GW9D Campaign 4; GW9D Campaign 6; GW10 Campaign 4; GW10 Campaign 6; GW11S Campaign 5; GW13 Campaign 2; GW13 Campaign 3; GW13 Campaign 5; GW13 Campaign 6; GW15 Campaign 4; GW15 Campaign 5; GW15 Campaign 6; GW16D Campaign 2; GW16D Campaign 5; GW16D Campaign 6; GW16D Dup Campaign 2; GW16D Dup Campaign 5; GW16D Dup Campaign 6; GW17 Campaign 3; GW17 Campaign 4; GW17 Campaign 5; GW17 Campaign 6; GW18 Campaign 4; GW18 Campaign 5; PZ_21 Campaign 3; PZ_21 Campaign 4; PZ_21 Campaign 5; PZ_21 Campaign 6; GW20 Campaign 1; GW20 Campaign 2; GW20 Campaign 3; GW20	
Ammonium as NH4	mg/l	0.5	197	<0.01	42	91	GW1 Campaign 2; GW1 Campaign 4; GW1 Campaign 6; GW1 Dup Campaign 1; GW1 Dup Campaign 2; GW1 Dup Campaign 6; PZ_18 Campaign 1; PZ_18 Campaign 2; PZ_18 Campaign 3; PZ_18 Campaign 5; PZ_18 Campaign 6; PZ_18 Dup Campaign 3; GW6D Campaign 1; GW8 Campaign 1; GW8 Campaign 2; GW8 Campaign 3; GW8 Campaign 4; GW8 Campaign 5; GW8 Campaign 6; GW9S Campaign 1; GW9S Campaign 2; GW9S Campaign 3; GW9S Campaign 4; GW9S Campaign 5; GW9S Campaign 6; GW9D Campaign 1; GW9D Campaign 2; GW9D Campaign 3; GW9D Campaign 4; GW9D Campaign 5; GW9D Campaign 6; GW10 Campaign 1; GW10 Campaign 2; GW10 Campaign 3; GW10 Campaign 4; GW10 Campaign 5; GW10 Campaign 6; GW10 Dup Campaign 1; GW11D Campaign 1; GW11D Campaign 2; GW11D Campaign 3; GW11D Campaign 4; GW11D Campaign 5; GW11D Campaign 6; GW11D Dup Campaign 4; GW11S Campaign 1; GW11S Campaign 2; GW11S Campaign 3; GW11S Campaign 4; GW11S Campaign 5; GW11S Campaign 6; GW11S1 Campaign 1; GW11S1 Campaign 2; GW11S1 Campaign 3; GW11S1 Campaign 5; GW11S1 Campaign 6; GW12 Campaign 1; GW12 Campaign 2; GW12 Campaign 3; GW12 Campaign 4; GW12 Campaign 5; GW12 Campaign 6; GW13 Campaign 2; GW15 Campaign 1; GW15 Campaign 2;	
COD	mg/l	No WSV	197	<2	120	0		
BOD	mg/l	No WSV	197	2	33	0		

Constituents	GW1 Campaign 1	GW1 Campaign 2	GW1 Campaign 3	GW1 Campaign 4	GW1 Campaign 5	GW1 Campaign 6	GW1 Dup Campaign 1	GW1 Dup Campaign 2	GW1 Dup Campaign 6	GW2 Campaign 1	GW2 Campaign 2	GW2 Campaign 3	GW2 Campaign 4	GW2 Campaign 5	GW2 Campaign 6
pH Value (Lab)	6.4	6.3	6.5	6.8	6.8	6.4	6.6	6.4	6.4	6	5.7	5.8	6.2	6.1	5.9
pH Value (Field)	-	6.2	6.2	6	6.1	6.5	-	-	-	-	5.6	5.6	5.6	5.6	6.1
Redox Potential (ORP)	-	-16	-15	32	39	97	-	-	-	-	121	141	70	86	109
DO	-	3	6	4	6	6	-	-	-	-	71	87	67	79	85
Salinity	-	0.66	0.69	0.76	0.68	0.71	-	-	-	-	0.31	0.33	0.34	0.34	0.35
Electrical Conductivity	1254	1254	1384	1492	1289	1322	1222	1285	1328	677	661	692	688	688	680
Suspended Solids	10	<5	6	8	6	22	40	6	16	76	<5	12	8	12	14
Calcium	178.6	142	210.6	141.8	217	180	169.6	164	185	70.2	71	87.7	78.8	104	69
Magnesium	18.5	14	19.5	20.2	17	20	17.7	16	21	21.3	22	28.6	24.1	23	27
Sodium	91.4	63	95.7	102.8	77	91	88.3	73	89	38.2	25	31	27.2	18	28
Potassium	8.8	5	7.4	8.2	6	7	7.6	6	7	7.1	4	4.5	3.8	4	4
Chloride	116	109	130	132	108	121	116	108	120	53	49	61	52	45	55
Sulphate	100	100	114	120	100	110	100	98	107	86	84	94	86	81	84
Alkalinity	430	440	510	530	410	460	420	420	450	100	60	60	40	120	60
Nitrate	80	96	75	61	80	87	80	94	87	155	174	176	167	176	190
Ammonium as NH4	6.82	9	<0.1	2.1	0.02	4.24	8.47	10.1	4.24	0.06	<0.01	<0.1	<0.1	0.04	0.02
COD	<2	<2	<2	<2	<2	4	<2	<2	3	<2	<2	<2	<2	28	<2
BOD	<2	<2	<2	<2	12	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2

Constituents	GW3 Campaign 1	GW3 Campaign 2	GW3 Campaign 3	GW3 Campaign 4	GW3 Campaign 5	GW3 Campaign 6	PZ_20 Campaign 1	PZ_20 Campaign 2	PZ_20 Campaign 3	PZ_20 Campaign 4	PZ_20 Campaign 5	PZ_20 Campaign 6	PZ_19 Campaign 1	PZ_19 Campaign 2	PZ_19 Campaign 3	PZ_19 Campaign 4	PZ_19 Campaign 5	PZ_19 Campaign 6	PZ_19 Dup Campaign 5
pH Value (Lab)	7	6.6	6.6	6.8	6.8	6.5	7.2	6.7	7.1	6.6	6.8	6.5	6.5	6.2	6.3	5.9	6	6.2	5.9
pH Value (Field)	-	6.4	6.2	5.9	6.5	6.4	-	6.3	6.5	6	6.5	6.2	-	6.3	5.8	6.2	6.6	6.7	6.6
Redox Potential (ORP)	-	93	114	61	-35	110	-	101	115	31	23	64	-	50	145	63	73	-66	73
DO	-	51	92	74	77	85	-	50	81	44	85	88	-	26	43	66	43	32	43
Salinity	-	0.44	0.44	0.45	0.46	0.45	-	0.22	0.23	0.23	0.24	0.24	-	0.13	0.13	0.13	0.16	0.14	0.16
Electrical Conductivity	810	869	928	912	888	843	460	464	481	490	503	477	310	265	290	269	281	279	290
Suspended Solids	186	14	12	4	8	24	256	12	<5	10	10	6	14	8	<5	56	24	<5	40
Calcium	128.5	127	131.1	140.5	159	134	44.6	52	51.7	43.4	95	54	16	21	19.4	14.6	16	26	14
Magnesium	13	13	12.4	13.1	12	15	14.3	16	16.3	14.2	17	16	4.9	5	6.8	5.1	6	6	6
Sodium	31.2	42	32.1	34.6	30	39	16.3	26	23.2	17.9	13	4	33.5	37	47.9	30.3	27	28	27
Potassium	3.7	7	3.7	3.9	4	4	3.9	8	4.3	3.8	4	15	2.7	5	2.7	2.4	3	2	3
Chloride	83	92	99	87	75	84	45	53	176	56	46	18	31	29	66	31	24	27	24
Sulphate	79	91	103	95	93	102	17	20	27	20	15	51	19	18	28	21	15	18	15
Alkalinity	160	150	180	150	120	149	60	80	280	120	40	60	30	60	80	70	60	50	40
Nitrate	131	152	154	142	138	160	120	133	55	127	128	137	67	70	67	69	74	74	74
Ammonium as NH4	0.03	0.05	<0.1	<0.1	0.03	0.02	<0.01	0.04	0.02	0.02	0.06	0	<0.01	0.03	0.02	0.02	0.03	0	0.03
COD	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	16	<2	<2	<2	<2	<2	<2
BOD	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2

Constituents	PZ_18 Campaign 1	PZ_18 Campaign 2	PZ_18 Campaign 3	PZ_18 Campaign 4	PZ_18 Campaign 5	PZ_18 Campaign 6	PZ_18 Dup Campaign 3	GW6D Campaign 1	GW6D Campaign 2	GW6D Campaign 3	GW6D Campaign 4	GW6D Campaign 5	GW6D Campaign 6	GW7 Campaign 1	GW7 Campaign 2	GW7 Campaign 3
pH Value (Lab)	7.4	7.7	7.4	7.4	7.5	8.3	7.5	6.9	6.9	6.8	7.4	6.7	6.8	7.5	7.9	7.8
pH Value (Field)	-	7.7	8.8	7.2	-	7.5	-	-	6.7	6.7	6.6	6.7	6.7	-	7.3	7.5
Redox Potential (ORP)	-	-177	-247	-195	-	-206	-	-	-28	-30	-99	-96	-28	-	-151	-176
DO	-	1	4	4	-	1	-	-	5	4	4	1	3	-	2	4
Salinity	-	0.85	1.73	1.92	-	2.02	-	-	2.57	2.86	3.05	3.04	4.05	-	0.25	0.23
Electrical Conductivity	1910	2070	2750	3570	3540	3540	2810	4730	4710	5370	5190	5380	7120	670	490	525
Suspended Solids	28	20	12	32	6	24	16	20	8	14	<5	1200	134	26	12	4
Calcium	179	199	277.5	740.5	403	349	283.7	596.1	761	1079	803.7	918	1158	46.6	51	43.9
Magnesium	12.6	6	4.8	7	5	1	4.2	36.2	43	53.8	44.5	49	66	19.1	23	22.8
Sodium	150.5	170	196.7	431	234	237	197.3	192.5	238	299.3	232.1	270	457	59.2	43	33.4
Potassium	17.5	28	38.3	92.6	48	49	38.5	5.1	6	7	5.3	6	9	5.6	6	6.2
Chloride	403	565	803	974	998	1005	803	1245	1259	1351	1381	1236	2434	51	34	34
Sulphate	49	10	<5	<5	3	<5	<5	30	19	34	51	36	66	43	16	10
Alkalinity	320	200	60	120	190	140	60	290	250	230	230	210	300	260	270	260
Nitrate	<1	<1	<5	<5	<5	<1	<5	<1	<1	<1	<1	70	<1	<1	<1	<1
Ammonium as NH4	8.9	15.88	35.6	0.21	31	42	8.1	3.26	0.37	<0.1	0.34	0.21	0.03	0.12	0.32	0.03
COD	27	36	8	22	46	35	5	16	8	<2	<2	<2	<2	<2	<2	<2
BOD	<2	6	<2	2	17	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	6

ATKINS

Assessment Criteria :	Drinking Water Standard
CaCO 0.00	0.00 DOC 0.00
Calcium 0.00	DOC 0.00 Catchment area Freshwater not listed

Constituents	Unit	Generic Assessment Criteria (mg/l)	Number of Samples	Minimum Value	Maximum Value	Number of Exceedences	Locations of Exceedences	Zone
pH Value (Lab)	pH Units	No WSV	197	5.7	12.6	0		
pH Value (Field)	pH Units	No WSV	155	5.6	12.6	0		
Redox Potential (ORP)	mV	No WSV	155	-363	145	0		
DO	%	No WSV	155	1	102	0		
Iron	µg/l	0.2	197	10	54370	115	GW1 Dup Campaign 1; GW2 Campaign 1; GW2 Campaign 2; GW2 Campaign 4; GW3 Campaign 2; GW3 Campaign 5; PZ_20 Campaign 5; PZ_19 Campaign 2; PZ_19 Campaign 3; PZ_19 Campaign 4; PZ_19 Campaign 5; PZ_19 Dup Campaign 5; PZ_18 Campaign 1; PZ_18 Campaign 3; PZ_18 Campaign 4; PZ_18 Campaign 5; PZ_18 Dup Campaign 3; GW6D Campaign 1; GW6D Campaign 3; GW6D Campaign 5; GW6D Campaign 6; GW7 Campaign 1; GW7 Campaign 2; GW7 Campaign 3; GW7 Campaign 4; GW7 Campaign 5; GW8 Campaign 1; GW8 Campaign 2; GW8 Campaign 3; GW8 Campaign 4; GW8 Campaign 5; GW8 Campaign 6; GW9S Campaign 1; GW9S Campaign 2; GW9S Campaign 4; GW9S Campaign 5; GW9S Campaign 6; GW9D Campaign 1; GW9D Campaign 2; GW9D Campaign 3; GW9D Campaign 4; GW9D Campaign 5; GW9D Campaign 6; GW10 Campaign 1; GW10 Campaign 2; GW10 Campaign 3; GW10 Campaign 4; GW10 Campaign 5; GW10 Campaign 6; GW10 Dup Campaign 1; GW11D Campaign 3; GW11D Campaign 4; GW11D Campaign 5; GW11D Dup Campaign 4; GW11S Campaign 1; GW11S Campaign 2; GW11S Campaign 3; GW11S Campaign 4; GW11S Campaign 5; GW11S1 Campaign 1; GW11S1 Campaign 2; GW11S1 Campaign 3; GW11S1 Campaign 4;	
Boron	µg/l	1	197	5	1402	150	GW1 Campaign 2; GW1 Campaign 3; GW1 Campaign 4; GW1 Campaign 5; GW1 Campaign 6; GW1 Dup Campaign 1; GW1 Dup Campaign 2; GW1 Dup Campaign 6; GW2 Campaign 5; GW2 Campaign 6; GW3 Campaign 2; GW3 Campaign 5; GW3 Campaign 6; PZ_20 Campaign 2; PZ_20 Campaign 4; PZ_20 Campaign 5; PZ_19 Campaign 2; PZ_19 Campaign 4; PZ_19 Campaign 5; PZ_19 Campaign 6; PZ_18 Campaign 1; PZ_18 Campaign 2; PZ_18 Campaign 4; PZ_18 Campaign 5; PZ_18 Campaign 6; PZ_18 Dup Campaign 3; GW6D Campaign 2; GW6D Campaign 4; GW6D Campaign 6; GW7 Campaign 3; GW7 Campaign 4; GW7 Campaign 5; GW7 Campaign 6; GW8 Campaign 1; GW8 Campaign 2; GW8 Campaign 3; GW8 Campaign 4; GW8 Campaign 5; GW8 Campaign 6; GW9S Campaign 1; GW9S Campaign 2; GW9S Campaign 3; GW9S Campaign 4; GW9S Campaign 5; GW9S Campaign 6; GW9D Campaign 1; GW9D Campaign 2; GW9D Campaign 3; GW9D Campaign 4; GW9D Campaign 5; GW9D Campaign 6; GW10 Campaign 1; GW10 Campaign 2; GW10 Campaign 3; GW10 Campaign 4; GW10 Campaign 5; GW10 Campaign 6; GW10 Dup Campaign 1; GW11D Campaign 6; GW11D Dup Campaign 4; GW11S Campaign 2; GW11S Campaign 3; GW11S Campaign 4; GW11S Campaign 5; GW11S Campaign 6; GW11S1 Campaign	
Arsenic	µg/l	0.01	197	5	77	43	PZ_18 Campaign 1; PZ_18 Campaign 2; PZ_18 Campaign 3; PZ_18 Campaign 4; PZ_18 Campaign 5; PZ_18 Campaign 6; PZ_18 Dup Campaign 3; GW7 Campaign 1; GW7 Campaign 2; GW7 Campaign 3; GW7 Campaign 4; GW7 Campaign 5; GW7 Campaign 6; GW8 Campaign 1; GW8 Campaign 2; GW8 Campaign 3; GW8 Campaign 4; GW8 Campaign 5; GW8 Campaign 6; GW9S Campaign 6; GW9D Campaign 6; GW10 Campaign 2; GW10 Campaign 3; GW10 Campaign 6; GW11D Campaign 4; GW11D Campaign 6; GW11D Dup Campaign 4; GW11S Campaign 2; GW11S Campaign 5; GW11S1 Campaign 2; GW11S1 Campaign 4; GW11S1 Campaign 5; GW11S1 Campaign 6; GW15 Campaign 1; GW15 Campaign 2; GW15 Campaign 3; GW15 Campaign 4; GW15 Campaign 5; GW24S Campaign 1; GW24S Campaign 3; GW24S Campaign 4; PZ_14 Campaign 1; PZ_16 Campaign 2	
Chromium	µg/l	0.05	197	<5	7	1	PZ_14 Campaign 1	
Lead	µg/l	0.01	197	1	6	10	GW1 Dup Campaign 1; GW2 Campaign 1; GW3 Campaign 2; GW6D Campaign 6; GW10 Campaign 2; GW11S Campaign 2; GW23 Campaign 2; GW23 Dup Campaign 2; PZ_6 Campaign 2; PZ_16 Campaign 2	
Nickel	µg/l	0.02	197	1	99	151	GW1 Campaign 2; GW1 Campaign 3; GW1 Campaign 4; GW1 Campaign 5; GW1 Campaign 6; GW1 Dup Campaign 1; GW1 Dup Campaign 2; GW1 Dup Campaign 6; GW2 Campaign 1; GW2 Campaign 2; GW2 Campaign 3; GW2 Campaign 4; GW2 Campaign 5; GW2 Campaign 6; GW3 Campaign 1; GW3 Campaign 2; GW3 Campaign 3; GW3 Campaign 4; GW3 Campaign 5; GW3 Campaign 6; PZ_20 Campaign 1; PZ_20 Campaign 2; PZ_20 Campaign 4; PZ_20 Campaign 6; PZ_19 Campaign 1; PZ_19 Campaign 2; PZ_19 Campaign 3; PZ_19 Campaign 4; PZ_19 Campaign 5; PZ_19 Campaign 6; PZ_19 Dup Campaign 5; PZ_18 Campaign 1; PZ_18 Campaign 2; PZ_18 Campaign 3; PZ_18 Campaign 4; PZ_18 Campaign 5; PZ_18 Campaign 6; PZ_18 Dup Campaign 3; GW6D Campaign 1; GW6D Campaign 2; GW6D Campaign 3; GW6D Campaign 4; GW6D Campaign 5; GW6D Campaign 6; GW7 Campaign 1; GW7 Campaign 4; GW7 Campaign 6; GW8 Campaign 1; GW8 Campaign 3; GW8 Campaign 5; GW8 Campaign 6; GW9S Campaign 1; GW9S Campaign 2; GW9S Campaign 3; GW9S Campaign 4; GW9S Campaign 5; GW9D Campaign 4; GW10 Campaign 1; GW10 Campaign 2; GW10 Campaign 3; GW10 Campaign 4; GW10 Campaign 5; GW10 Campaign 6; GW10 Dup Campaign 1; GW11D Campaign 1; GW11D Campaign 2;	
Copper	µg/l	2	197	5	32	35	GW1 Campaign 2; GW1 Dup Campaign 1; GW1 Dup Campaign 2; GW2 Campaign 1; GW2 Campaign 2; GW3 Campaign 2; PZ_20 Campaign 2; PZ_19 Campaign 2; PZ_18 Campaign 2; GW6D Campaign 2; GW9S Campaign 2; GW9D Campaign 2; GW10 Campaign 2; GW11D Campaign 1; GW11D Campaign 2; GW11D Campaign 3; GW11S Campaign 2; GW11S1 Campaign 2; GW15 Campaign 2; GW15 Campaign 3; GW16D Campaign 2; GW16D Dup Campaign 2; GW20 Campaign 2; GW21 Campaign 2; GW22 Campaign 2; GW23 Campaign 2; GW23 Dup Campaign 2; GW24D Campaign 2; PZ_6 Campaign 2; PZ_14 Campaign 1; PZ_14 Campaign 2; PZ_16 Campaign 2; PZ_16 Campaign 3; PZ_16 Campaign 4; PZ_16 Campaign 5	

Constituents	GW1 Campaign 1	GW1 Campaign 2	GW1 Campaign 3	GW1 Campaign 4	GW1 Campaign 5	GW1 Campaign 6	GW1 Dup Campaign 1	GW1 Dup Campaign 2	GW1 Dup Campaign 6	GW2 Campaign 1	GW2 Campaign 2	GW2 Campaign 3	GW2 Campaign 4	GW2 Campaign 5	GW2 Campaign 6	GW3 Campaign 1	GW3 Campaign 2
pH Value (Lab)	6.4	6.3	6.5	6.8	6.8	6.4	6.6	6.4	6.4	6	5.7	5.8	6.2	6.1	5.9	7	6.6
pH Value (Field)	-	6.2	6.2	6	6.1	6.5	-	-	-	-	5.6	5.6	5.6	5.6	6.1	-	6.4
Redox Potential (ORP)	-	-16	-15	32	39	97	-	-	-	-	121	141	70	86	109	-	93
DO	-	3	6	4	6	6	-	-	-	-	71	87	67	79	85	-	51
Iron	28	<10	<10	<10	<10	<10	22	<10	<10	17	21	<10	13	<10	<10	<10	14
Boron	214	233	403	479	543	496	292	360	343	<5	<5	<5	<5	142	25	<5	79
Arsenic	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chromium	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Lead	8	<1	<1	<1	<1	<1	6	<1	<1	4	<1	<1	<1	<1	<1	<1	1
Nickel	8	4	3	4	3	3	8	4	3	15	15	11	12	12	7	3	6
Copper	18	6	<5	<5	<5	<5	17	5	<5	18	7	<5	<5	<5	<5	<5	12

Constituents	GW3 Campaign 3	GW3 Campaign 4	GW3 Campaign 5	GW3 Campaign 6	PZ_20 Campaign 1	PZ_20 Campaign 2	PZ_20 Campaign 3	PZ_20 Campaign 4	PZ_20 Campaign 5	PZ_20 Campaign 6	PZ_19 Campaign 1	PZ_19 Campaign 2	PZ_19 Campaign 3	PZ_19 Campaign 4	PZ_19 Campaign 5	PZ_19 Campaign 6	PZ_19 Dup Campaign 5
pH Value (Lab)	6.6	6.8	6.8	6.5	7.2	6.7	7.1	6.6	6.8	6.5	6.5	6.2	6.3	5.9	6	6.2	5.9
pH Value (Field)	6.2	5.9	6.5	6.4	-	6.3	6.5	6	6.5	6.2	-	6.3	5.8	6.2	6.6	6.7	6.6
Redox Potential (ORP)	114	61	-35	110	-	101	115	31	23	64	-	50	145	63	73	-66	73
DO	92	74	77	85	-	50	81	44	85	88	-	26	43	66	43	32	43
Iron	<10	<10	35	<10	<10	<10	<10	<10	40	<10	<10	93	96	57	72	<10	68
Boron	<5	<5	233	76	<5	38	<5	38	178	<5	<5	77	<5	80	16	55	<5
Arsenic	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chromium	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Lead	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Nickel	2	2	1	4	2	4	<1	3	<1	4	6	8	3	4	10	4	10
Copper	<5	<5	<5	<5	<5	12	<5	<5	<5	<5	<5	10	<5	<5	<5	<5	<5

Constituents	PZ_18 Campaign 1	PZ_18 Campaign 2	PZ_18 Campaign 3	PZ_18 Campaign 4	PZ_18 Campaign 5	PZ_18 Campaign 6	PZ_18 Dup Campaign 3	GW6D Campaign 1	GW6D Campaign 2	GW6D Campaign 3	GW6D Campaign 4	GW6D Campaign 5	GW6D Campaign 6	GW7 Campaign 1	GW7 Campaign 2	GW7 Campaign 3
pH Value (Lab)	7.4	7.7	7.4	7.4	7.5	8.3	7.5	6.9	6.9	6.8	7.4	6.7	6.8	7.5	7.9	7.8
pH Value (Field)	-	7.7	8.8	7.2	-	7.5	-	-	6.7	6.7	6.6	6.7	6.7	-	7.3	7.5
Redox Potential (ORP)	-	-177	-247	-195	-	-206	-	-	-28	-30	-99	-96	-28	-	-151	-176
DO	-	1	4	4	-	1	-	-	5	4	4	1	3	-	2	4
Iron	207	<10	269	681	133	<10	341	86	<10	36	<10	110	113	194	94	34
Boron	9	44	<5	43	52	17	16	<5	32	<5	105	<5	15	<5	<5	145
Arsenic	11	17	18	18	18	17	17	<5	<5	<5	<5	<5	<5	16	7	14
Chromium	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Lead	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	<1	<1	<1
Nickel	4	5	6	6	7	6	6	5	6	3	3	3	9	1	<1	<1
Copper	<5	29	<5	<5	<5	<5	<5	<5	12	<5	<5	<5	<5	<5	<5	<5

Assessment Criteria :	Drinking Water Standard				
CaCO	0.00		0.00	DOC	0.00
Calcium	0.00	DOC	0.00	Catchment area	Freshwater not listed

Constituents	Unit	Generic Assessment Criteria (mg/l)	Number of Samples	Minimum Value	Maximum Value	Number of Exceedences	Locations of Exceedences	Zone
pH Value (Lab)	pH Units	No WSV	197	5.7	12.6	0		
pH Value (Field)	pH Units	No WSV	155	5.6	12.6	0		
Redox Potential (ORP)	mV	No WSV	155	-363	145	0		
DO	%	No WSV	155	1	102	0		
Zinc	µg/l	3	197	5	1234	188	GW1 Campaign 2; GW1 Campaign 3; GW1 Campaign 4; GW1 Campaign 5; GW1 Campaign 6; GW1 Dup Campaign 1; GW1 Dup Campaign 2; GW1 Dup Campaign 6; GW2 Campaign 1; GW2 Campaign 2; GW2 Campaign 3; GW2 Campaign 4; GW2 Campaign 5; GW2 Campaign 6; GW3 Campaign 1; GW3 Campaign 2; GW3 Campaign 3; GW3 Campaign 4; GW3 Campaign 5; GW3 Campaign 6; PZ_20 Campaign 1; PZ_20 Campaign 2; PZ_20 Campaign 3; PZ_20 Campaign 4; PZ_20 Campaign 5; PZ_20 Campaign 6; PZ_19 Campaign 1; PZ_19 Campaign 2; PZ_19 Campaign 3; PZ_19 Campaign 4; PZ_19 Campaign 5; PZ_19 Campaign 6; PZ_19 Dup Campaign 5; PZ_18 Campaign 1; PZ_18 Campaign 2; PZ_18 Campaign 3; PZ_18 Campaign 4; PZ_18 Campaign 5; PZ_18 Dup Campaign 3; GW6D Campaign 1; GW6D Campaign 2; GW6D Campaign 3; GW6D Campaign 4; GW6D Campaign 5; GW6D Campaign 6; GW7 Campaign 1; GW7 Campaign 2; GW7 Campaign 3; GW7 Campaign 4; GW7 Campaign 5; GW7 Campaign 6; GW8 Campaign 1; GW8 Campaign 2; GW8 Campaign 3; GW8 Campaign 4; GW8 Campaign 5; GW8 Campaign 6; GW9S Campaign 1; GW9S Campaign 2; GW9S Campaign 3; GW9S Campaign 4; GW9S Campaign 5; GW9S Campaign 6; GW9D Campaign 1; GW9D Campaign 2; GW9D Campaign 3; GW9D	
Cadmium	µg/l	0.005	197	<1	9	6	GW3 Campaign 1; PZ_20 Campaign 6; PZ_18 Campaign 2; GW6D Campaign 2; GW9S Campaign 3; GW12 Campaign 3	
Mercury	µg/l	0.001	197	0.1	2.5	14	PZ_20 Campaign 3; PZ_19 Campaign 3; GW6D Campaign 6; GW11D Campaign 2; GW11D Campaign 3; GW11D Campaign 4; GW11D Dup Campaign 4; GW16D Campaign 6; GW17 Campaign 6; PZ_21 Campaign 5; PZ_21 Campaign 6; GW20 Campaign 2; PZ_14 Campaign 1; PZ_16 Campaign 1	
Total Phenols	µg/l	No WSV	197	0.5	<0.5	0		
Total Petroleum Hydrocarbons	µg/l	No WSV	197	<10	2233	0		
Free Cyanide	µg/l	See Cyanide (total)	197	5	21.1	0		
Naphthalene	µg/l	See BaP	197	<0.01	13.49	0		
Acenaphthylene	µg/l	See BaP	197	0.01	0.12	0		
Acenaphthene	µg/l	See BaP	197	0.01	3.76	0		
Fluorene	µg/l	See BaP	197	<0.01	1.34	0		
Phenanthrene	µg/l	See BaP	197	<0.01	1	0		
Anthracene	µg/l	See BaP	197	0.01	0.1	0		
Fluoranthene	µg/l	See BaP	197	<0.01	0.21	0		
Pyrene	µg/l	See BaP	197	<0.01	0.19	0		
Benz(a)anthracene	µg/l	No WSV	197	<0.01	0.12	0		
Chrysene	µg/l	See BaP	197	<0.01	0.12	0		
Benzo(b)fluoranthene	µg/l	See PAH Sum of 4	197	<0.01	0.13	0		
Benzo(k)fluoranthene	µg/l	See PAH Sum of 4	197	<0.01	0.16	0		
Benzo(a)pyrene	µg/l	0.00001	197	<0.01	0.16	1	GW6D Campaign 4	
Indeno(123-cd)pyrene	µg/l	See PAH Sum of 4	197	0.01	<0.01	0		
Benzo(ghi)perylene	µg/l	See PAH Sum of 4	197	0.01	<0.01	0		
Dibenz(ah)anthracene	µg/l	See BaP	197	0.01	<0.01	0		
Total PAH	µg/l	No WSV	197	<0.01	19.89	0		
Benzene	µg/l	0.001	197	<0.01	<1	0		
Toluene	µg/l	0.7	197	<0.01	1	1	PZ_16 Campaign 3	
Ethylbenzene	µg/l	0.3	197	<0.01	<1	0		
m&p-Xylene	µg/l	No WSV	197	<0.01	<1	0		
o-Xylene	µg/l	0.5	197	<0.01	<1	0		
Styrene	µg/l	0.02	197	<0.01	<1	0		
Propylbenzene	µg/l	No WSV	197	<0.01	<1	0		
Methylethylbenzene	µg/l	No WSV	197	<0.01	<1	0		
sec-Butylbenzene	µg/l	No WSV	197	<0.01	<1	0		
1,3,5-Trimethylbenzene	µg/l	No WSV	197	<0.01	<1	0		
tert-Butylbenzene	µg/l	No WSV	197	<0.01	1	0		
1-methylpropylbenzene	µg/l	No WSV	197	<0.01	<1	0		
Vinyl Chloride	µg/l	0.0005	197	<0.01	<1	0		
cis 1,2-Dichloroethene	µg/l	No WSV	197	<0.01	137	0		
1,1-Dichloroethane	µg/l	No WSV	197	<0.01	<1	0		
Chloroform	µg/l	See Trihalomethanes	197	<0.01	4	0		
Carbontetrachloride	µg/l	No WSV	197	<0.01	<1	0		
1,1,1-Trichloroethane	µg/l	2	197	<0.01	3	1	PZ_14 Campaign 6	
Trichloroethylene	µg/l	0.01 (sum of TCE & PCE)	197	<0.01	<1	0		
Tetrachloroethylene	µg/l	0.01 (sum of TCE & PCE)	197	<0.01	31	0		
1,1,1,2-Tetrachloroethane	µg/l	No WSV	197	<0.01	<1	0		
1,1,2,2-Tetrachloroethane	µg/l	No WSV	197	<0.01	<1	0		
Chlorobenzene	µg/l	No WSV	197	<0.01	1	0		
1,1-Dichloro-1-Propene	µg/l	No WSV	197	<0.01	<1	0		
1,2-Dichloroethane	µg/l	0.003	197	<0.01	132	1	GW20 Campaign 6	
2,2-Dichloropropane	µg/l	No WSV	197	<0.01	2	0		
trans 1,2-Dichloroethene	µg/l	No WSV	197	<0.01	<1	0		
Dibromomethane	µg/l	No WSV	197	<0.01	1	0		
1,2-Dichloropropane	µg/l	0.04	197	<0.01	<1	0		
cis 1,2-Dichloro-1-Propene	µg/l	No WSV	197	<0.01	<1	0		
trans 1,3-Dichloro-1-Propene	µg/l	No WSV	197	<0.01	3	0		
1,1,2-Trichloroethane	µg/l	N/A	197	<0.01	<1	0		
1,3-Dichloropropane	µg/l	No WSV	197	<0.01	<1	0		
2-Chlorotoluene	µg/l	No WSV	197	<0.01	<1	0		
1,2,4-Trimethylbenzene	µg/l	No WSV	197	<0.01	<1	0		
4-Chlorotoluene	µg/l	No WSV	197	<0.01	<1	0		
o-Cymene	µg/l	No WSV	197	<0.01	<1	0		
1,4-Dichlorobenzene	µg/l	No WSV	197	<0.01	<1	0		
1,2-Dibromo-3-chloropropane	µg/l	0.001	197	<0.01	<1	0		
Hexachlorobutadiene	µg/l	0.0006	197	<0.01	1	1	GW11S1 Campaign 6	
1,2,3-Trichlorobenzene	µg/l	No WSV	197	<0.01	<1	0		
1,2,4-Trichlorobenzene	µg/l	No WSV	197	<0.01	<1	0		
1,3-Dichlorobenzene	µg/l	No WSV	197	<0.01	<1	0		
1,2-Dichlorobenzene	µg/l	No WSV	197	<0.01	<1	0		
Bromochloromethane	µg/l	No WSV	197	<0.01	1	0		
Dibromethane	µg/l	No WSV	197	<0.01	1	0		
Bromobenzene	µg/l	No WSV	197	<0.01	<1	0		
Bromodichloromethane	µg/l	See Trihalomethanes	197	<0.01	<1	0		
Dibromochloromethane	µg/l	See Trihalomethanes	197	<0.01	<1	0		
PCB28	µg/l	No WSV	197	0.01	<0.01	0		
PCB52	µg/l	No WSV	197	<0.01	0.17	0		
PCB101	µg/l	No WSV	197	0.01	<0.01	0		
PCB118	µg/l	No WSV	197	0.01	<0.01	0		
PCB138	µg/l	No WSV	197	0.01	<0.01	0		
PCB153	µg/l	No WSV	197	0.01	<0.01	0		
PCB180	µg/l	No WSV	197	0.01	<0.01	0		
Total PCB	µg/l	No WSV	197	<0.01	0.17	0		

Constituents	GW1 Campaign 1	GW1 Campaign 2	GW1 Campaign 3	GW1 Campaign 4	GW1 Campaign 5	GW1 Campaign 6	GW1 Dup Campaign 1	GW1 Dup Campaign 2	GW1 Dup Campaign 6	GW2 Campaign 1	GW2 Campaign 2	GW2 Campaign 3	GW2 Campaign 4	GW2 Campaign 5	GW2 Campaign 6	GW3 Campaign 1	GW3 Campaign 2
pH Value (Lab)	6.4	6.3	6.5	6.8	6.8	6.4	6.6	6.4	6.4	6	5.7	5.8	6.2	6.1	5.9	7	6.6
pH Value (Field)	-	6.2	6.2	6	6.1	6.5	-	-	-	-	5.6	5.6	5.6	5.6	6.1	-	6.4
Redox Potential (ORP)	-	-16	-15	32	39	97	-	-	-	-	121	141	70	86	109	-	93
DO	-	3	6	4	6	6	-	-	-	-	71	87	67	79	85	-	51
Zinc	72	18	50	8	47	27	73	15	29	91	26	45	102	119	30	8	80
Cadmium	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	3	<1
Mercury	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Phenols	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Petroleum Hydrocarbons	<10	82	<10	<10	688	<10	<10	121	<10	<10	<10	<10	<10	<10	<10	<10	<10
Free Cyanide	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Acenaphthylene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	<0.01
Acenaphthene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Fluorene	<0.01	<0.01	<0.01	<0.01	<0.01	0.07	<0.01	<0.01	0.04	<0.01	<0.01	<0.01	<0.01	<0.01	0.3	<0.01	<0.01
Phenanthrene	<0.01	0.12	<0.01	<0.01	<0.01	0.16	<0.01	<0.01	0.08	<0.01	<0.01	<0.01	<0.01	<0.01	0.62	<0.01	<0.01
Anthracene	<0.01	0.03	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01
Fluoranthene	<0.01	0.17	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Pyrene	<0.01	0.19	<0.01	<0.01	<0.01	<0.01	<0.01	0.15	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benz(a)anthracene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chrysene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b)fluoranthene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(k)fluoranthene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(a)pyrene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Indeno(123-cd)pyrene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(ghi)perylene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Dibenz(ah)anthracene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Total PAH	<0.01	0.51	<0.01	<0.01	0.03	0.25	<0.01	0.15	0.13	<0.01	<0.01	<0.01	<0.01	<0.01	0.97	<0.01	<0.01
Benzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
m&p-Xylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
o-Xylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Styrene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Propylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
tert-Butylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1-methylpropylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis 1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbontetrachloride	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloro-1-Propene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2,2-Dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans 1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis 1,2-Dichloro-1-Propene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans 1,3-Dichloro-1-Propene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Chlorotoluene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-Chlorotoluene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
o-Cymene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dibromo-3-chloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Hexachlorobutadiene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-Trichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
PCB28	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB52	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB101	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB118	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB138	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB153	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB180	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Total PCB	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

Constituents	GW3 Campaign 3	GW3 Campaign 4	GW3 Campaign 5	GW3 Campaign 6	PZ_20 Campaign 1	PZ_20 Campaign 2	PZ_20 Campaign 3	PZ_20 Campaign 4	PZ_20 Campaign 5	PZ_20 Campaign 6	PZ_19 Campaign 1	PZ_19 Campaign 2	PZ_19 Campaign 3	PZ_19 Campaign 4	PZ_19 Campaign 5	PZ_19 Campaign 6	PZ_19 Dup Campaign 5
pH Value (Lab)	6.6	6.8	6.8	6.5	7.2	6.7	7.1	6.6	6.8	6.5	6.5	6.2	6.3	5.9	6	6.2	5.9
pH Value (Field)	6.2	5.9	6.5	6.4	-	6.3	6.5	6	6.5	6.2	-	6.3	5.8	6.2	6.6	6.7	6.6
Redox Potential (ORP)	114	61	-35	110	-	101	115	31	23	64	-	50	145	63	73	-66	73
DO	92	74	77	85	-	50	81	44	85	88	-	26	43	66	43	32	43
Zinc	20	62	16	24	7	60	29	65	13	55	7	124	29	55	26	31	24
Cadmium	<1	<1	<1	<1	<1	<1	<1	<1	<1	2	<1	<1	<1	<1	<1	<1	<1
Mercury	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.6	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	<0.1
Total Phenols	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Petroleum Hydrocarbons	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	62	<10	29
Free Cyanide	<5	<5	<5	<5	<5	<5	<5	<5	<5	10	<5	<5	<5	<5	<5	7	<5
Naphthalene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Acenaphthylene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Acenaphthene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Fluorene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Phenanthrene	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Anthracene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Fluoranthene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Pyrene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benz(a)anthracene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chrysene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b)fluoranthene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(k)fluoranthene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(a)pyrene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Indeno(123-cd)pyrene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(ghi)perylene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Dibenz(ah)anthracene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Total PAH	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
m&p-Xylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
o-Xylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Styrene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Propylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
tert-Butylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1-methylpropylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis 1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1
Carbontetrachloride	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloro-1-Propene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2,2-Dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans 1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis 1,2-Dichloro-1-Propene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans 1,3-Dichloro-1-Propene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Chlorotoluene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-Chlorotoluene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
o-Cymene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dibromo-3-chloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Hexachlorobutadiene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-Trichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
PCB28	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB52	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB101	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB118	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB138	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB153	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB180	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Total PCB	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

Constituents	PZ_18 Campaign 1	PZ_18 Campaign 2	PZ_18 Campaign 3	PZ_18 Campaign 4	PZ_18 Campaign 5	PZ_18 Campaign 6	PZ_18 Dup Campaign 3	GW6D Campaign 1	GW6D Campaign 2	GW6D Campaign 3	GW6D Campaign 4	GW6D Campaign 5	GW6D Campaign 6	GW7 Campaign 1	GW7 Campaign 2	GW7 Campaign 3
pH Value (Lab)	7.4	7.7	7.4	7.4	7.5	8.3	7.5	6.9	6.9	6.8	7.4	6.7	6.8	7.5	7.9	7.8
pH Value (Field)	-	7.7	8.8	7.2	-	7.5	-	-	6.7	6.7	6.6	6.7	6.7	-	7.3	7.5
Redox Potential (ORP)	-	-177	-247	-195	-	-206	-	-	-28	-30	-99	-96	-28	-	-151	-176
DO	-	1	4	4	-	1	-	-	5	4	4	1	3	-	2	4
Zinc	9	229	17	17	89	<5	17	11	308	60	143	27	93	5	6	13
Cadmium	<1	4	<1	<1	<1	<1	<1	<1	9	<1	<1	<1	<1	<1	<1	<1
Mercury	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.8	<0.1	<0.1	<0.1
Total Phenols	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Petroleum Hydrocarbons	108	<10	361	<10	<10	<10	219	<10	<10	<10	<10	30	<10	77	157	<10
Free Cyanide	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.11	<0.01	<0.01	<0.01	<0.01	<0.01
Acenaphthylene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	0.05	<0.01
Acenaphthene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Fluorene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.08	<0.01	<0.01	<0.01
Phenanthrene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.06	<0.01	0.09	<0.01	0.04	<0.01
Anthracene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01
Fluoranthene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.21	<0.01	0.03	<0.01	0.05	<0.01
Pyrene	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.19	<0.01	0.03	<0.01	0.06	<0.01
Benz(a)anthracene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.12	<0.01	<0.01	<0.01	<0.01	<0.01
Chrysene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.12	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b)fluoranthene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.13	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(k)fluoranthene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.16	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(a)pyrene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.16	<0.01	<0.01	<0.01	<0.01	<0.01
Indeno(123-cd)pyrene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(ghi)perylene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Dibenz(ah)anthracene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Total PAH	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	1.3	<0.01	0.24	<0.01	0.21	<0.01
Benzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
m&p-Xylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
o-Xylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Styrene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Propylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
tert-Butylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	<1	<1	<1
1-methylpropylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis 1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbontetrachloride	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloro-1-Propene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2,2-Dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans 1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis 1,2-Dichloro-1-Propene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans 1,3-Dichloro-1-Propene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Chlorotoluene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-Chlorotoluene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
o-Cymene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dibromo-3-chloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Hexachlorobutadiene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-Trichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	<1	<1	<1
Dibromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
PCB28	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB52	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB101	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB118	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB138	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB153	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB180	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Total PCB	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

ATKINS

Assessment Criteria :	Drinking Water Standard						
CaCO	0.00		0.00	DOC	0.00		
Calcium	0.00	DOC	0.00		Catchment area	Freshwater not listed	

Constituents	Unit	Generic Assessment Criteria (mg/l)	Number of Samples	Minimum Value	Maximum Value	Number of Exceedences	Locations of Exceedences
pH Value (Lab)	pH Units	No WSV	197	5.7	12.6	0	
pH Value (Field)	pH Units	No WSV	155	5.6	12.6	0	
Redox Potential (ORP)	mV	No WSV	155	-363	145	0	
DO	%	No WSV	155	1	102	0	
Salinity	pss	No WSV	155	0	17.9	0	
Electrical Conductivity	µS/cm	No WSV	197	0.49	26100	0	
Suspended Solids	mg/l	No WSV	197	<0.5	1200	0	
Calcium	mg/l	N/A	197	14	8925	0	
Magnesium	mg/l	N/A	197	0.5	533.8	0	
Sodium	mg/l	200	197	4	5336	46	PZ_18 Campaign 4; PZ_18 Campaign 5; PZ_18 Campaign 6; GW6D Campaign 2; GW6D Campaign 3; GW6D Campaign 4; GW6D Campaign 5; GW6D Campaign 6; GW9S Campaign 3; GW9S Campaign 4; GW9S Campaign 5; GW9S Campaign 6; GW9D Campaign 1; GW9D Campaign 2; GW9D Campaign 3; GW9D Campaign 4; GW9D Campaign 5; GW9D Campaign 6; GW10 Campaign 2; GW10 Campaign 3; GW10 Campaign 4; GW11D Campaign 1; GW11D Campaign 5; GW11D Campaign 6; GW11S Campaign 1; GW11S Campaign 3; GW11S Campaign 4; GW11S Campaign 5; GW11S Campaign 6; GW15 Campaign 1; GW15 Campaign 4; GW15 Campaign 5; GW15 Campaign 6; GW24S Campaign 1; GW24S Campaign 2; GW24S Campaign 3; GW24S Campaign 4; GW24S Campaign 5; GW24S Campaign 6; PZ_14 Campaign 1; PZ_16 Campaign 2; PZ_16 Campaign 3; PZ_16 Campaign 4; PZ_16 Campaign 5; PZ_16 Campaign 6; PZ_16 Dup Campaign 5
Potassium	mg/l	N/A	197	1	141	0	
Chloride	mg/l	250	197	13	8504	66	PZ_18 Campaign 1; PZ_18 Campaign 2; PZ_18 Campaign 3; PZ_18 Campaign 4; PZ_18 Campaign 5; PZ_18 Campaign 6; PZ_18 Dup Campaign 3; GW6D Campaign 1; GW6D Campaign 2; GW6D Campaign 3; GW6D Campaign 4; GW6D Campaign 5; GW6D Campaign 6; GW9S Campaign 2; GW9S Campaign 3; GW9S Campaign 4; GW9S Campaign 5; GW9S Campaign 6; GW9D Campaign 1; GW9D Campaign 2; GW9D Campaign 3; GW9D Campaign 4; GW9D Campaign 5; GW9D Campaign 6; GW10 Campaign 1; GW10 Campaign 2; GW10 Campaign 3; GW10 Campaign 4; GW10 Campaign 5; GW10 Campaign 6; GW10 Dup Campaign 1; GW11D Campaign 4; GW11D Campaign 5; GW11D Campaign 6; GW11D Dup Campaign 4; GW15 Campaign 4; GW15 Campaign 5; GW15 Campaign 6; PZ_21 Campaign 5; PZ_21 Campaign 6; GW24D Campaign 1; GW24D Campaign 2; GW24D Campaign 3; GW24D Campaign 4; GW24D Campaign 5; GW24D Campaign 6; GW24D Dup Campaign 4; GW24S Campaign 1; GW24S Campaign 2; GW24S Campaign 3; GW24S Campaign 4; GW24S Campaign 5; GW24S Campaign 6; PZ_6 Campaign 1; PZ_6 Campaign 2; PZ_6 Campaign 3; PZ_6 Campaign 4; PZ_6 Campaign 5; PZ_6 Campaign 6; PZ_14 Campaign 1; PZ_16 Campaign 2; PZ_16 Campaign 3; PZ_16 Campaign 4; PZ_16 Campaign 5; PZ_16 Campaign 6; PZ_16 Dup
Sulphate	mg/l	250	197	1	1197	6	PZ_14 Campaign 1; PZ_16 Campaign 3; PZ_16 Campaign 4; PZ_16 Campaign 5; PZ_16 Campaign 6; PZ_16 Dup Campaign 5
Alkalinity	mg/l CaCO3	No WSV	197	30	1360	0	
Nitrate	mg/l	0.05	197	1	214	97	GW1 Campaign 2; GW1 Campaign 3; GW1 Campaign 4; GW1 Campaign 5; GW1 Campaign 6; GW1 Dup Campaign 1; GW1 Dup Campaign 2; GW1 Dup Campaign 6; GW2 Campaign 1; GW2 Campaign 2; GW2 Campaign 3; GW2 Campaign 4; GW2 Campaign 5; GW2 Campaign 6; GW3 Campaign 1; GW3 Campaign 2; GW3 Campaign 3; GW3 Campaign 4; GW3 Campaign 5; GW3 Campaign 6; PZ_20 Campaign 1; PZ_20 Campaign 2; PZ_20 Campaign 3; PZ_20 Campaign 4; PZ_20 Campaign 5; PZ_20 Campaign 6; PZ_19 Campaign 1; PZ_19 Campaign 2; PZ_19 Campaign 3; PZ_19 Campaign 4; PZ_19 Campaign 5; PZ_19 Campaign 6; PZ_19 Dup Campaign 5; GW6D Campaign 5; GW9D Campaign 4; GW9D Campaign 6; GW10 Campaign 4; GW10 Campaign 6; GW11S Campaign 5; GW13 Campaign 2; GW13 Campaign 3; GW13 Campaign 5; GW13 Campaign 6; GW15 Campaign 4; GW15 Campaign 5; GW15 Campaign 6; GW16D Campaign 2; GW16D Campaign 5; GW16D Campaign 6; GW16D Dup Campaign 2; GW16D Dup Campaign 5; GW16D Dup Campaign 6; GW17 Campaign 3; GW17 Campaign 4; GW17 Campaign 5; GW17 Campaign 6; GW18 Campaign 4; GW18 Campaign 5; PZ_21 Campaign 3; PZ_21 Campaign 4; PZ_21 Campaign 5; PZ_21 Campaign 6; GW20 Campaign 1; GW20 [illegible]
Ammonium as NH4	mg/l	0.5	197	<0.01	42	91	GW1 Campaign 2; GW1 Campaign 4; GW1 Campaign 6; GW1 Dup Campaign 1; GW1 Dup Campaign 2; GW1 Dup Campaign 6; PZ_18 Campaign 1; PZ_18 Campaign 2; PZ_18 Campaign 3; PZ_18 Campaign 5; PZ_18 Campaign 6; PZ_18 Dup Campaign 3; GW6D Campaign 1; GW8 Campaign 1; GW8 Campaign 2; GW8 Campaign 3; GW8 Campaign 4; GW8 Campaign 5; GW8 Campaign 6; GW9S Campaign 1; GW9S Campaign 2; GW9S Campaign 3; GW9S Campaign 4; GW9S Campaign 5; GW9S Campaign 6; GW9D Campaign 1; GW9D Campaign 2; GW9D Campaign 3; GW9D Campaign 4; GW9D Campaign 5; GW9D Campaign 6; GW10 Campaign 1; GW10 Campaign 2; GW10 Campaign 3; GW10 Campaign 4; GW10 Campaign 5; GW10 Campaign 6; GW10 Dup Campaign 1; GW11D Campaign 1; GW11D Campaign 2; GW11D Campaign 3; GW11D Campaign 4; GW11D Campaign 5; GW11D Campaign 6; GW11D Dup Campaign 4; GW11S Campaign 1; GW11S Campaign 2; GW11S Campaign 3; GW11S Campaign 4; GW11S Campaign 5; GW11S Campaign 6; GW11S1 Campaign 1; GW11S1 Campaign 2; GW11S1 Campaign 3; GW11S1 Campaign 5; GW11S1 Campaign 6; GW12 Campaign 1; GW12 Campaign 2; GW12 Campaign 3; GW12 Campaign 4; GW12 Campaign 5; GW12 Campaign 6; GW13 Campaign 2; GW15 Campaign 1; GW15 Campaign 2;
COD	mg/l	No WSV	197	<2	120	0	
BOD	mg/l	No WSV	197	2	33	0	

Constituents	GW7 Campaign 4	GW7 Campaign 5	GW7 Campaign 6	GW8 Campaign 1	GW8 Campaign 2	GW8 Campaign 3	GW8 Campaign 4	GW8 Campaign 5	GW8 Campaign 6	GW9S Campaign 1	GW9S Campaign 2	GW9S Campaign 3	GW9S Campaign 4	GW9S Campaign 5	GW9S Campaign 6
pH Value (Lab)	8	7.5	7.7	7.3	7.7	7.4	7.7	7.2	7.4	7	6.9	7	7.4	7	7
pH Value (Field)	7.8	6.9	7.6	-	7	7.1	7	6.9	7.2	-	6.9	7	6.5	6.8	7.1
Redox Potential (ORP)	-221	-98	-167	-	-117	52	-150	-176	-165	-	-132	-189	-200	-210	-236
DO	1	2	1	-	3	7	2	2	1	-	3	2	2	1	1
Salinity	0.24	0.26	0.26	-	0.51	0.58	0.61	0.64	0.67	-	0.9	1.07	1.04	1.03	1.11
Electrical Conductivity	537	615	511	860	990	1112	1217	1238	1280	1380	1630	1903	1820	1846	1800
Suspended Solids	60	14	2	2	6	8	10	48	14	56	14	190	42	12	42
Calcium	47.8	74	44	83.5	77	93.1	102	107	107	114.1	132	136.9	159.3	126	111
Magnesium	15.5	17	22	28.6	26	33.4	35.9	33	40	25.6	36	41.9	42.3	40	37
Sodium	41.4	68	47	74.3	74	104	115.3	111	45	159.7	190	251.3	255.6	285	231
Potassium	6.2	4	7	22.5	25	36.7	40.1	39	127	17	21	27.5	26.7	17	26
Chloride	30	35	35	78	84	106	114	124	13	239	289	367	334	325	298
Sulphate	13	41	20	25	13	20	19	17	118	16	14	<5	8	9	<5
Alkalinity	310	300	260	450	570	600	550	520	590	260	610	630	600	550	650
Nitrate	<5	<1	<5	<1	<1	<5	<1	<1	<5	<5	<1	<5	<1	<1	<1
Ammonium as NH4	0.22	<0.01	0.04	1.7	1.59	1	3.7	2.1	4.2	8.7	6.35	6	10.6	20	5
COD	<2	3	<2	<2	<2	12	<2	<2	<2	32	6	15	<2	25	21
BOD	<2	<2	#	<2	<2	3	<2	4	#	3	<2	<2	<2	<2	<2

Constituents	GW9D Campaign 1	GW9D Campaign 2	GW9D Campaign 3	GW9D Campaign 4	GW9D Campaign 5	GW9D Campaign 6	GW10 Campaign 1	GW10 Campaign 2	GW10 Campaign 3	GW10 Campaign 4	GW10 Campaign 5	GW10 Campaign 6	GW10 Dup Campaign 1
pH Value (Lab)	6.9	6.8	7	7.3	6.9	6.8	7.1	7.6	7.6	7.4	7.3	7.6	7.2
pH Value (Field)	-	6.7	6.9	6.4	6.8	7.1	-	7.5	7.3	6.9	7	7.4	-
Redox Potential (ORP)	-	-137	-168	-185	-185	-223	-	-184	-178	-187	4	-130	-
DO	-	3	4	3	2	1	-	2	3	1	2	1	-
Salinity	-	1.56	1.88	1.77	1.67	1.69	-	0.82	1.13	1.07	0.86	0.86	-
Electrical Conductivity	2900	2840	3410	3210	320	2900	1690	1858	2260	2010	1658	1585	1720
Suspended Solids	326	6	200	48	20	42	62	20	10	30	6	12	42
Calcium	120.5	142	187.5	193.1	173	103	106.4	125	137.7	130.7	138	110	120.4
Magnesium	57.8	61	70.7	71.9	51	54	18.4	27	32	29.3	16	22	21
Sodium	387.3	425	511.8	505.6	497	378	163.2	249	268.6	240.7	150	195	185.8
Potassium	27.9	32	34.8	37	38	30	13.8	16	17.9	18.7	7	17	15.7
Chloride	646	643	801	678	699	618	297	294	429	327	268	255	301
Sulphate	8	1	<5	<5	<5	<5	78	27	7	138	37	58	79
Alkalinity	690	680	720	710	640	650	420	660	450	550	400	490	460
Nitrate	<5	<1	<5	1	<1	1	<1	<1	<1	2	<1	1	<1
Ammonium as NH4	6.2	5.3	1.8	10.6	35	3	23	19.1	14.8	10.6	12	4	31.9
COD	17	100	7	<2	<2	21	60	11	20	10	52	29	56
BOD	<2	3	<2	<2	<2	<2	13	6	8	7	8	2	9

Constituents	GW11D Campaign 1	GW11D Campaign 2	GW11D Campaign 3	GW11D Campaign 4	GW11D Campaign 5	GW11D Campaign 6	GW11D Dup Campaign 4	GW11S Campaign 1	GW11S Campaign 2	GW11S Campaign 3	GW11S Campaign 4	GW11S Campaign 5	GW11S Campaign 6
pH Value (Lab)	12.6	12.6	12.1	11.8	11.1	9.8	11.8	7.2	7.7	7.6	7.5	7.1	6.9
pH Value (Field)	-	12.4	12.6	12.3	11.8	9.7	12.3	-	7.9	7.5	7	6.7	7.2
Redox Potential (ORP)	-	-227	-278	-363	-302	-268	-363	-	-129	-7	-216	-168	-231
DO	-	6	4	3	37	1	3	-	2	59	2	4	1
Salinity	-	2.52	2.13	2.2	1.8	1.64	2.2	-	0.95	0.88	1.11	1.1	1.17
Electrical Conductivity	5400	5180	4750	2850	3060	3070	3150	2400	2070	2050	2040	2090	2050
Suspended Solids	68	10	42	60	162	16	30	98	14	26	60	146	36
Calcium	293.9	336	317.9	329.2	301	241	328.8	209.8	61	131.9	162.4	195	172
Magnesium	0.7	1	0.6	0.7	3	1	0.5	43.8	16	31.3	36.5	34	35
Sodium	282.1	192	176.7	187.8	304	341	166	407.2	197	324.6	270.6	242	220
Potassium	61.9	35	27.3	27.1	27	25	25.8	141	77	108.5	80.4	72	57
Chloride	208	193	209	336	823	834	284	141	131	133	129	131	129
Sulphate	7	5	6	16	75	75	10	110	61	45	30	25	15
Alkalinity	1250	1270	1020	610	210	220	760	1360	600	1140	1100	1000	1150
Nitrate	<1	<1	<5	<1	<1	<1	<1	<1	<1	<5	<1	2	<1
Ammonium as NH4	10.6	5.3	3.3	9	1.6	3.2	8.3	22.8	9.5	9.9	26.5	19	5
COD	29	<2	6	<2	<2	6	<2	3	<2	<2	<2	10	4
BOD	<2	<2	3	<2	<2	<2	<2	<2	<2	<2	<2	4	<2

Constituents	GW11S1 Campaign 1	GW11S1 Campaign 2	GW11S1 Campaign 3	GW11S1 Campaign 4	GW11S1 Campaign 5	GW11S1 Campaign 6	GW12 Campaign 1	GW12 Campaign 2	GW12 Campaign 3	GW12 Campaign 4	GW12 Campaign 5
pH Value (Lab)	7	6.9	7.4	7.6	8	7.1	6.7	6.7	6.9	7.2	7
pH Value (Field)	-	7.1	7.2	7.2	8.6	7.4	-	6.7	6.9	6.7	6.7
Redox Potential (ORP)	-	-169	-167	-180	-275	-219	-	-114	-156	-168	-195
DO	-	2	3	2	3	1	-	2	4	4	2
Salinity	-	0.63	0.5	0	0.52	0.5	-	0.56	0.56	0.94	0.56
Electrical Conductivity	1170	1298	1043	0.49	1033	940	900	960	995	962	1049
Suspended Solids	808	96	62	30	204	12	76	<5	14	82	764
Calcium	99.4	29	86.1	91	106	78	86.9	119	103.1	108.5	104
Magnesium	13	5	14.3	13.2	13	11	15.5	24	19.2	20.1	17
Sodium	137.3	71	133.4	119.5	120	103	81.9	110	89.2	91.6	88
Potassium	5.5	4	4.6	4.5	5	4	12.5	15	13.7	14.9	13
Chloride	115	186	135	111	116	99	133	153	158	138	151
Sulphate	89	5	12	16	16	9	6	14	7	7	8
Alkalinity	420	430	430	390	390	420	350	420	390	340	330
Nitrate	<1	<1	<5	<1	<1	<1	<1	<1	<5	<1	<1
Ammonium as NH4	5.2	1.6	1.5	0.5	5.3	1.6	8.7	5.3	4.5	8.5	4.8
COD	6	8	<2	<2	<2	5	23	<2	<2	<2	5
BOD	<2	3	<2	<2	<2	<2	<2	<2	<2	<2	<2

Assessment Criteria :	Drinking Water Standard
CaCO 0.00	0.00 DOC 0.00
Calcium 0.00	DOC 0.00 Catchment area Freshwater not listed

Constituents	Unit	Generic Assessment Criteria (mg/l)	Number of Samples	Minimum Value	Maximum Value	Number of Exceedences	Locations of Exceedences
pH Value (Lab)	pH Units	No WSV	197	5.7	12.6	0	
pH Value (Field)	pH Units	No WSV	155	5.6	12.6	0	
Redox Potential (ORP)	mV	No WSV	155	-363	145	0	
DO	%	No WSV	155	1	102	0	
Iron	µg/l	0.2	197	10	54370	115	GW1 Dup Campaign 1; GW2 Campaign 1; GW2 Campaign 2; GW2 Campaign 4; GW3 Campaign 2; GW3 Campaign 5; PZ_20 Campaign 5; PZ_19 Campaign 2; PZ_19 Campaign 3; PZ_19 Campaign 4; PZ_19 Campaign 5; PZ_19 Dup Campaign 5; PZ_18 Campaign 1; PZ_18 Campaign 3; PZ_18 Campaign 4; PZ_18 Campaign 5; PZ_18 Dup Campaign 3; GW6D Campaign 1; GW6D Campaign 3; GW6D Campaign 5; GW6D Campaign 6; GW7 Campaign 1; GW7 Campaign 2; GW7 Campaign 3; GW7 Campaign 4; GW7 Campaign 5; GW8 Campaign 1; GW8 Campaign 2; GW8 Campaign 3; GW8 Campaign 4; GW8 Campaign 5; GW8 Campaign 6; GW9S Campaign 1; GW9S Campaign 2; GW9S Campaign 4; GW9S Campaign 5; GW9S Campaign 6; GW9D Campaign 1; GW9D Campaign 2; GW9D Campaign 3; GW9D Campaign 4; GW9D Campaign 5; GW9D Campaign 6; GW10 Campaign 1; GW10 Campaign 2; GW10 Campaign 3; GW10 Campaign 4; GW10 Campaign 5; GW10 Campaign 6; GW10 Dup Campaign 1; GW11D Campaign 3; GW11D Campaign 4; GW11D Campaign 5; GW11D Dup Campaign 4; GW11S Campaign 1; GW11S Campaign 2; GW11S Campaign 3; GW11S Campaign 4; GW11S Campaign 5; GW11S1 Campaign 1; GW11S1 Campaign 2; GW11S1 Campaign 3; GW11S1 Campaign 4;
Boron	µg/l	1	197	5	1402	150	GW1 Campaign 2; GW1 Campaign 3; GW1 Campaign 4; GW1 Campaign 5; GW1 Campaign 6; GW1 Dup Campaign 1; GW1 Dup Campaign 2; GW1 Dup Campaign 6; GW2 Campaign 5; GW2 Campaign 6; GW3 Campaign 2; GW3 Campaign 5; GW3 Campaign 6; PZ_20 Campaign 2; PZ_20 Campaign 4; PZ_20 Campaign 5; PZ_19 Campaign 2; PZ_19 Campaign 4; PZ_19 Campaign 5; PZ_19 Campaign 6; PZ_18 Campaign 1; PZ_18 Campaign 2; PZ_18 Campaign 4; PZ_18 Campaign 5; PZ_18 Campaign 6; PZ_18 Dup Campaign 3; GW6D Campaign 2; GW6D Campaign 4; GW6D Campaign 6; GW7 Campaign 3; GW7 Campaign 4; GW7 Campaign 5; GW7 Campaign 6; GW8 Campaign 1; GW8 Campaign 2; GW8 Campaign 3; GW8 Campaign 4; GW8 Campaign 5; GW8 Campaign 6; GW9S Campaign 1; GW9S Campaign 2; GW9S Campaign 3; GW9S Campaign 4; GW9S Campaign 5; GW9S Campaign 6; GW9D Campaign 1; GW9D Campaign 2; GW9D Campaign 3; GW9D Campaign 4; GW9D Campaign 5; GW9D Campaign 6; GW10 Campaign 1; GW10 Campaign 2; GW10 Campaign 3; GW10 Campaign 4; GW10 Campaign 5; GW10 Campaign 6; GW10 Dup Campaign 1; GW11D Campaign 6; GW11D Dup Campaign 4; GW11S Campaign 2; GW11S Campaign 3; GW11S Campaign 4; GW11S Campaign 5; GW11S Campaign 6; GW11S1 Campaign
Arsenic	µg/l	0.01	197	5	77	43	PZ_18 Campaign 1; PZ_18 Campaign 2; PZ_18 Campaign 3; PZ_18 Campaign 4; PZ_18 Campaign 5; PZ_18 Campaign 6; PZ_18 Dup Campaign 3; GW7 Campaign 1; GW7 Campaign 2; GW7 Campaign 3; GW7 Campaign 4; GW7 Campaign 5; GW7 Campaign 6; GW8 Campaign 1; GW8 Campaign 2; GW8 Campaign 3; GW8 Campaign 4; GW8 Campaign 5; GW8 Campaign 6; GW9S Campaign 6; GW9D Campaign 6; GW10 Campaign 2; GW10 Campaign 3; GW10 Campaign 6; GW11D Campaign 4; GW11D Campaign 6; GW11D Dup Campaign 4; GW11S Campaign 2; GW11S Campaign 5; GW11S1 Campaign 2; GW11S1 Campaign 4; GW11S1 Campaign 5; GW11S1 Campaign 6; GW15 Campaign 1; GW15 Campaign 2; GW15 Campaign 3; GW15 Campaign 4; GW15 Campaign 5; GW24S Campaign 1; GW24S Campaign 3; GW24S Campaign 4; PZ_14 Campaign 1; PZ_16 Campaign 2
Chromium	µg/l	0.05	197	<5	7	1	PZ_14 Campaign 1
Lead	µg/l	0.01	197	1	6	10	GW1 Dup Campaign 1; GW2 Campaign 1; GW3 Campaign 2; GW6D Campaign 6; GW10 Campaign 2; GW11S Campaign 2; GW23 Campaign 2; GW23 Dup Campaign 2; PZ_6 Campaign 2; PZ_16 Campaign 2
Nickel	µg/l	0.02	197	1	99	151	GW1 Campaign 2; GW1 Campaign 3; GW1 Campaign 4; GW1 Campaign 5; GW1 Campaign 6; GW1 Dup Campaign 1; GW1 Dup Campaign 2; GW1 Dup Campaign 6; GW2 Campaign 1; GW2 Campaign 2; GW2 Campaign 3; GW2 Campaign 4; GW2 Campaign 5; GW2 Campaign 6; GW3 Campaign 1; GW3 Campaign 2; GW3 Campaign 3; GW3 Campaign 4; GW3 Campaign 5; GW3 Campaign 6; PZ_20 Campaign 1; PZ_20 Campaign 2; PZ_20 Campaign 4; PZ_20 Campaign 6; PZ_19 Campaign 1; PZ_19 Campaign 2; PZ_19 Campaign 3; PZ_19 Campaign 4; PZ_19 Campaign 5; PZ_19 Campaign 6; PZ_19 Dup Campaign 5; PZ_18 Campaign 1; PZ_18 Campaign 2; PZ_18 Campaign 3; PZ_18 Campaign 4; PZ_18 Campaign 5; PZ_18 Campaign 6; PZ_18 Dup Campaign 3; GW6D Campaign 1; GW6D Campaign 2; GW6D Campaign 3; GW6D Campaign 4; GW6D Campaign 5; GW6D Campaign 6; GW7 Campaign 1; GW7 Campaign 4; GW7 Campaign 6; GW8 Campaign 1; GW8 Campaign 3; GW8 Campaign 5; GW8 Campaign 6; GW9S Campaign 1; GW9S Campaign 2; GW9S Campaign 3; GW9S Campaign 4; GW9S Campaign 5; GW9D Campaign 4; GW10 Campaign 1; GW10 Campaign 2; GW10 Campaign 3; GW10 Campaign 4; GW10 Campaign 5; GW10 Campaign 6; GW10 Dup Campaign 1; GW11D Campaign 1; GW11D Campaign 2;
Copper	µg/l	2	197	5	32	35	GW1 Campaign 2; GW1 Dup Campaign 1; GW1 Dup Campaign 2; GW2 Campaign 1; GW2 Campaign 2; GW3 Campaign 2; PZ_20 Campaign 2; PZ_19 Campaign 2; PZ_18 Campaign 2; GW6D Campaign 2; GW9S Campaign 2; GW9D Campaign 2; GW10 Campaign 2; GW11D Campaign 1; GW11D Campaign 2; GW11D Campaign 3; GW11S Campaign 2; GW11S1 Campaign 2; GW15 Campaign 2; GW15 Campaign 3; GW16D Campaign 2; GW16D Dup Campaign 2; GW20 Campaign 2; GW21 Campaign 2; GW22 Campaign 2; GW23 Campaign 2; GW23 Dup Campaign 2; GW24D Campaign 2; PZ_6 Campaign 2; PZ_14 Campaign 1; PZ_14 Campaign 2; PZ_16 Campaign 2; PZ_16 Campaign 3; PZ_16 Campaign 4; PZ_16 Campaign 5

Constituents	GW7 Campaign 4	GW7 Campaign 5	GW7 Campaign 6	GW8 Campaign 1	GW8 Campaign 2	GW8 Campaign 3	GW8 Campaign 4	GW8 Campaign 5	GW8 Campaign 6	GW9S Campaign 1	GW9S Campaign 2	GW9S Campaign 3	GW9S Campaign 4	GW9S Campaign 5	GW9S Campaign 6
pH Value (Lab)	8	7.5	7.7	7.3	7.7	7.4	7.7	7.2	7.4	7	6.9	7	7.4	7	7
pH Value (Field)	7.8	6.9	7.6	-	7	7.1	7	6.9	7.2	-	6.9	7	6.5	6.8	7.1
Redox Potential (ORP)	-221	-98	-167	-	-117	52	-150	-176	-165	-	-132	-189	-200	-210	-236
DO	1	2	1	-	3	7	2	2	1	-	3	2	2	1	1
Iron	93	44	<10	244	461	578	1725	38	2339	75	41	<10	2928	21	54370
Boron	82	191	84	496	435	539	602	554	616	323	412	345	289	576	274
Arsenic	20	11	9	8	10	13	23	9	31	<5	<5	<5	<5	<5	77
Chromium	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Lead	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Nickel	1	<1	1	2	<1	2	<1	2	2	1	2	1	2	1	<1
Copper	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	6	<5	<5	<5	<5

Constituents	GW9D Campaign 1	GW9D Campaign 2	GW9D Campaign 3	GW9D Campaign 4	GW9D Campaign 5	GW9D Campaign 6	GW10 Campaign 1	GW10 Campaign 2	GW10 Campaign 3	GW10 Campaign 4	GW10 Campaign 5	GW10 Campaign 6	GW10 Dup Campaign 1
pH Value (Lab)	6.9	6.8	7	7.3	6.9	6.8	7.1	7.6	7.6	7.4	7.3	7.6	7.2
pH Value (Field)	-	6.7	6.9	6.4	6.8	7.1	-	7.5	7.3	6.9	7	7.4	-
Redox Potential (ORP)	-	-137	-168	-185	-185	-223	-	-184	-178	-187	4	-130	-
DO	-	3	4	3	2	1	-	2	3	1	2	1	-
Iron	11080	111	130	4122	27	34130	158	514	3697	64	10	1063	140
Boron	567	431	479	523	602	550	191	106	233	186	525	195	164
Arsenic	<5	<5	<5	<5	<5	30	<5	25	36	<5	<5	16	<5
Chromium	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Lead	<1	<1	<1	<1	<1	<1	<1	2	<1	<1	<1	<1	<1
Nickel	<1	<1	<1	1	<1	<1	6	2	2	2	3	2	5
Copper	<5	6	<5	<5	<5	<5	<5	25	<5	<5	<5	<5	<5

Constituents	GW11D Campaign 1	GW11D Campaign 2	GW11D Campaign 3	GW11D Campaign 4	GW11D Campaign 5	GW11D Campaign 6	GW11D Dup Campaign 4	GW11S Campaign 1	GW11S Campaign 2	GW11S Campaign 3	GW11S Campaign 4	GW11S Campaign 5	GW11S Campaign 6
pH Value (Lab)	12.6	12.6	12.1	11.8	11.1	9.8	11.8	7.2	7.7	7.6	7.5	7.1	6.9
pH Value (Field)	-	12.4	12.6	12.3	11.8	9.7	12.3	-	7.9	7.5	7	6.7	7.2
Redox Potential (ORP)	-	-227	-278	-363	-302	-268	-363	-	-129	-7	-216	-168	-231
DO	-	6	4	3	37	1	3	-	2	59	2	4	1
Iron	<10	<10	11	20	53	<10	14	179	940	179	5431	9233	<10
Boron	<5	<5	<5	<5	<5	63	16	<5	243	186	189	201	232
Arsenic	<5	<5	<5	6	<5	8	6	<5	9	<5	<5	7	<5
Chromium	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Lead	<1	<1	<1	<1	<1	<1	<1	<1	2	<1	<1	<1	<1
Nickel	99	53	57	53	10	2	61	8	5	8	5	5	5
Copper	5	22	6	<5	<5	<5	<5	<5	23	<5	<5	<5	<5

Constituents	GW11S1 Campaign 1	GW11S1 Campaign 2	GW11S1 Campaign 3	GW11S1 Campaign 4	GW11S1 Campaign 5	GW11S1 Campaign 6	GW12 Campaign 1	GW12 Campaign 2	GW12 Campaign 3	GW12 Campaign 4	GW12 Campaign 5
pH Value (Lab)	7	6.9	7.4	7.6	8	7.1	6.7	6.7	6.9	7.2	7
pH Value (Field)	-	7.1	7.2	7.2	8.6	7.4	-	6.7	6.9	6.7	6.7
Redox Potential (ORP)	-	-169	-167	-180	-275	-219	-	-114	-156	-168	-195
DO	-	2	3	2	3	1	-	2	4	4	2
Iron	44	2584	64	211	845	<10	71	248	<10	1804	82
Boron	<5	<5	195	301	52	43	161	125	129	136	<5
Arsenic	<5	6	<5	5	15	6	<5	<5	<5	<5	<5
Chromium	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Lead	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Nickel	4	2	1	1	1	1	1	2	2	<1	1
Copper	<5	16	<5	<5	<5	<5	<5	<5	<5	<5	<5

Assessment Criteria : *Drinking Water Standard*

CaCO 0.00 | 0.00 | DOC 0.00

Calcium 0.00 | DOC 0.00 | Catchment area | Freshwater not listed

Constituents	Unit	Generic Assessment Criteria (mg/l)	Number of Samples	Minimum Value	Maximum Value	Number of Exceedences	Locations of Exceedences
pH Value (Lab)	pH Units	No WSV	197	5.7	12.6	0	
pH Value (Field)	pH Units	No WSV	155	5.6	12.6	0	
Redox Potential (ORP)	mV	No WSV	155	-363	145	0	
DO	%	No WSV	155	1	102	0	
Zinc	µg/l	3	197	5	1234	188	GW1 Campaign 2; GW1 Campaign 3; GW1 Campaign 4; GW1 Campaign 5; GW1 Campaign 6; GW1 Dup Campaign 1; GW1 Dup Campaign 2; GW1 Dup Campaign 6; GW2 Campaign 1; GW2 Campaign 2; GW2 Campaign 3; GW2 Campaign 4; GW2 Campaign 5; GW2 Campaign 6; GW3 Campaign 1; GW3 Campaign 2; GW3 Campaign 3; GW3 Campaign 4; GW3 Campaign 5; GW3 Campaign 6; PZ_20 Campaign 1; PZ_20 Campaign 2; PZ_20 Campaign 3; PZ_20 Campaign 4; PZ_20 Campaign 5; PZ_20 Campaign 6; PZ_19 Campaign 1; PZ_19 Campaign 2; PZ_19 Campaign 3; PZ_19 Campaign 4; PZ_19 Campaign 5; PZ_19 Campaign 6; PZ_19 Dup Campaign 5; PZ_18 Campaign 1; PZ_18 Campaign 2; PZ_18 Campaign 3; PZ_18 Campaign 4; PZ_18 Campaign 5; PZ_18 Dup Campaign 3; GW6D Campaign 1; GW6D Campaign 2; GW6D Campaign 3; GW6D Campaign 4; GW6D Campaign 5; GW6D Campaign 6; GW7 Campaign 1; GW7 Campaign 2; GW7 Campaign 3; GW7 Campaign 4; GW7 Campaign 5; GW7 Campaign 6; GW8 Campaign 1; GW8 Campaign 2; GW8 Campaign 3; GW8 Campaign 4; GW8 Campaign 5; GW8 Campaign 6; GW9S Campaign 1; GW9S Campaign 2; GW9S Campaign 3; GW9S Campaign 4; GW9S Campaign 5; GW9S Campaign 6; GW9D Campaign 1; GW9D Campaign 2; GW9D Campaign 3; GW9D
Cadmium	µg/l	0.005	197	<1	9	6	GW3 Campaign 1; PZ_20 Campaign 6; PZ_18 Campaign 2; GW6D Campaign 2; GW9S Campaign 3; GW12 Campaign 3
Mercury	µg/l	0.001	197	0.1	2.5	14	PZ_20 Campaign 3; PZ_19 Campaign 3; GW6D Campaign 6; GW11D Campaign 2; GW11D Campaign 3; GW11D Campaign 4; GW11D Dup Campaign 4; GW16D Campaign 6; GW17 Campaign 6; PZ_21 Campaign 5; PZ_21 Campaign 6; GW20 Campaign 2; PZ_14 Campaign 1; PZ_16 Campaign 1
Total Phenols	µg/l	No WSV	197	0.5	<0.5	0	
Total Petroleum Hydrocarbons	µg/l	No WSV	197	<10	2233	0	
Free Cyanide	µg/l	See Cyanide (total)	197	5	21.1	0	
Naphthalene	µg/l	See BaP	197	<0.01	13.49	0	
Acenaphthylene	µg/l	See BaP	197	0.01	0.12	0	
Acenaphthene	µg/l	See BaP	197	0.01	3.76	0	
Fluorene	µg/l	See BaP	197	<0.01	1.34	0	
Phenanthrene	µg/l	See BaP	197	<0.01	1	0	
Anthracene	µg/l	See BaP	197	0.01	0.1	0	
Fluoranthene	µg/l	See BaP	197	<0.01	0.21	0	
Pyrene	µg/l	See BaP	197	<0.01	0.19	0	
Benz(a)anthracene	µg/l	No WSV	197	<0.01	0.12	0	
Chrysene	µg/l	See BaP	197	<0.01	0.12	0	
Benzo(b)fluoranthene	µg/l	See PAH Sum of 4	197	<0.01	0.13	0	
Benzo(k)fluoranthene	µg/l	See PAH Sum of 4	197	<0.01	0.16	0	
Benzo(a)pyrene	µg/l	0.00001	197	<0.01	0.16	1	GW6D Campaign 4
Indeno(123-cd)pyrene	µg/l	See PAH Sum of 4	197	0.01	<0.01	0	
Benzo(ghi)perylene	µg/l	See PAH Sum of 4	197	0.01	<0.01	0	
Dibenz(ah)anthracene	µg/l	See BaP	197	0.01	<0.01	0	
Total PAH	µg/l	No WSV	197	<0.01	19.89	0	
Benzene	µg/l	0.001	197	<0.01	<1	0	
Toluene	µg/l	0.7	197	<0.01	1	1	PZ_16 Campaign 3
Ethylbenzene	µg/l	0.3	197	<0.01	<1	0	
m&p-Xylene	µg/l	No WSV	197	<0.01	<1	0	
o-Xylene	µg/l	0.5	197	<0.01	<1	0	
Styrene	µg/l	0.02	197	<0.01	<1	0	
Propylbenzene	µg/l	No WSV	197	<0.01	<1	0	
Methylethylbenzene	µg/l	No WSV	197	<0.01	<1	0	
sec-Butylbenzene	µg/l	No WSV	197	<0.01	<1	0	
1,3,5-Trimethylbenzene	µg/l	No WSV	197	<0.01	<1	0	
tert-Butylbenzene	µg/l	No WSV	197	<0.01	1	0	
1-methylpropylbenzene	µg/l	No WSV	197	<0.01	<1	0	
Vinyl Chloride	µg/l	0.0005	197	<0.01	<1	0	
cis 1,2-Dichloroethene	µg/l	No WSV	197	<0.01	137	0	
1,1-Dichloroethane	µg/l	No WSV	197	<0.01	<1	0	
Chloroform	µg/l	See Trihalomethanes	197	<0.01	4	0	
Carbontetrachloride	µg/l	No WSV	197	<0.01	<1	0	
1,1,1-Trichloroethane	µg/l	2	197	<0.01	3	1	PZ_14 Campaign 6
Trichloroethylene	µg/l	0.01 (sum of TCE & PCE)	197	<0.01	<1	0	
Tetrachloroethylene	µg/l	0.01 (sum of TCE & PCE)	197	<0.01	31	0	
1,1,1,2-Tetrachloroethane	µg/l	No WSV	197	<0.01	<1	0	
1,1,2,2-Tetrachloroethane	µg/l	No WSV	197	<0.01	<1	0	
Chlorobenzene	µg/l	No WSV	197	<0.01	1	0	
1,1-Dichloro-1-Propene	µg/l	No WSV	197	<0.01	<1	0	
1,2-Dichloroethane	µg/l	0.003	197	<0.01	132	1	GW20 Campaign 6
2,2-Dichloropropane	µg/l	No WSV	197	<0.01	2	0	
trans 1,2-Dichloroethene	µg/l	No WSV	197	<0.01	<1	0	
Dibromomethane	µg/l	No WSV	197	<0.01	1	0	
1,2-Dichloropropane	µg/l	0.04	197	<0.01	<1	0	
cis 1,2-Dichloro-1-Propene	µg/l	No WSV	197	<0.01	<1	0	
trans 1,3-Dichloro-1-Propene	µg/l	No WSV	197	<0.01	3	0	
1,1,2-Trichloroethane	µg/l	N/A	197	<0.01	<1	0	
1,3-Dichloropropane	µg/l	No WSV	197	<0.01	<1	0	
2-Chlorotoluene	µg/l	No WSV	197	<0.01	<1	0	
1,2,4-Trimethylbenzene	µg/l	No WSV	197	<0.01	<1	0	
4-Chlorotoluene	µg/l	No WSV	197	<0.01	<1	0	
o-Cymene	µg/l	No WSV	197	<0.01	<1	0	
1,4-Dichlorobenzene	µg/l	No WSV	197	<0.01	<1	0	
1,2-Dibromo-3-chloropropane	µg/l	0.001	197	<0.01	<1	0	
Hexachlorobutadiene	µg/l	0.0006	197	<0.01	1	1	GW11S1 Campaign 6
1,2,3-Trichlorobenzene	µg/l	No WSV	197	<0.01	<1	0	
1,2,4-Trichlorobenzene	µg/l	No WSV	197	<0.01	<1	0	
1,3-Dichlorobenzene	µg/l	No WSV	197	<0.01	<1	0	
1,2-Dichlorobenzene	µg/l	No WSV	197	<0.01	<1	0	
Bromochloromethane	µg/l	No WSV	197	<0.01	1	0	
Dibromethane	µg/l	No WSV	197	<0.01	1	0	
Bromobenzene	µg/l	No WSV	197	<0.01	<1	0	
Bromodichloromethane	µg/l	See Trihalomethanes	197	<0.01	<1	0	
Dibromochloromethane	µg/l	See Trihalomethanes	197	<0.01	<1	0	
PCB28	µg/l	No WSV	197	0.01	<0.01	0	
PCB52	µg/l	No WSV	197	<0.01	0.17	0	
PCB101	µg/l	No WSV	197	0.01	<0.01	0	
PCB118	µg/l	No WSV	197	0.01	<0.01	0	
PCB138	µg/l	No WSV	197	0.01	<0.01	0	
PCB153	µg/l	No WSV	197	0.01	<0.01	0	
PCB180	µg/l	No WSV	197	0.01	<0.01	0	
Total PCB	µg/l	No WSV	197	<0.01	0.17	0	

Constituents	GW7 Campaign 4	GW7 Campaign 5	GW7 Campaign 6	GW8 Campaign 1	GW8 Campaign 2	GW8 Campaign 3	GW8 Campaign 4	GW8 Campaign 5	GW8 Campaign 6	GW9S Campaign 1	GW9S Campaign 2	GW9S Campaign 3	GW9S Campaign 4	GW9S Campaign 5	GW9S Campaign 6	GW9D Campaign 1	GW9D Campaign 2	GW9D Campaign 3
pH Value (Lab)	8	7.5	7.7	7.3	7.7	7.4	7.7	7.2	7.4	7	6.9	7	7.4	7	7	6.9	6.8	7
pH Value (Field)	7.8	6.9	7.6	-	7	7.1	7	6.9	7.2	-	6.9	7	6.5	6.8	7.1	-	6.7	6.9
Redox Potential (ORP)	-221	-98	-167	-	-117	52	-150	-176	-165	-	-132	-189	-200	-210	-236	-	-137	-168
DO	1	2	1	-	3	7	2	2	1	-	3	2	2	1	1	-	3	4
Zinc	7	6	7	7	6	17	10	15	13	7	11	12	16	16	31	8	17	12
Cadmium	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	3	<1	<1	<1	<1	<1	<1
Mercury	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Phenols	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Petroleum Hydrocarbons	<10	<10	<10	<10	674	<10	<10	<10	<10	<10	451	<10	<10	<10	<10	<10	904	310
Free Cyanide	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene	<0.01	<0.01	<0.01	<0.01	0.38	<0.01	<0.01	<0.01	<0.01	<0.01	0.07	<0.01	<0.01	0.07	0.99	<0.01	0.06	<0.01
Acenaphthylene	<0.01	<0.01	<0.01	<0.01	0.09	<0.01	<0.01	<0.01	<0.01	<0.01	0.04	<0.01	<0.01	<0.01	<0.01	<0.01	0.04	<0.01
Acenaphthene	<0.01	<0.01	<0.01	<0.01	0.06	<0.01	<0.01	<0.01	<0.01	<0.01	0.08	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01
Fluorene	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Phenanthrene	<0.01	<0.01	<0.01	<0.01	0.19	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.15	<0.01	0.05	<0.01
Anthracene	<0.01	<0.01	<0.01	<0.01	0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	0.02	<0.01
Fluoranthene	<0.01	<0.01	<0.01	<0.01	0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Pyrene	<0.01	<0.01	<0.01	<0.01	0.16	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benz(a)anthracene	<0.01	<0.01	<0.01	<0.01	0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chrysene	<0.01	<0.01	<0.01	<0.01	0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b)fluoranthene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(k)fluoranthene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(a)pyrene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Indeno(123-cd)pyrene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(ghi)perylene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Dibenz(ah)anthracene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Total PAH	<0.01	<0.01	0.03	<0.01	1.13	<0.01	<0.01	<0.01	0.03	<0.01	0.19	<0.01	<0.01	0.07	1.17	<0.01	0.17	<0.01
Benzene	<0.01	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	<0.01	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	<0.01	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
m&p-Xylene	<0.01	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
o-Xylene	<0.01	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Styrene	<0.01	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Propylbenzene	<0.01	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylethylbenzene	<0.01	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene	<0.01	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene	<0.01	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
tert-Butylbenzene	<0.01	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1-methylpropylbenzene	<0.01	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	<0.01	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis 1,2-Dichloroethene	<0.01	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	<0.01	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	<0.01	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbontetrachloride	<0.01	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	<0.01	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethylene	<0.01	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	<0.01	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane	<0.01	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	<0.01	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	<0.01	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloro-1-Propene	<0.01	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	<0.01	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2,2-Dichloropropane	<0.01	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans 1,2-Dichloroethene	<0.01	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	<0.01	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	<0.01	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis 1,2-Dichloro-1-Propene	<0.01	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans 1,3-Dichloro-1-Propene	<0.01	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	<0.01	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichloropropane	<0.01	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Chlorotoluene	<0.01	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene	<0.01	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-Chlorotoluene	<0.01	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
o-Cymene	<0.01	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	<0.01	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dibromo-3-chloropropane	<0.01	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Hexachlorobutadiene	<0.01	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-Trichlorobenzene	<0.01	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	<0.01	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichlorobenzene	<0.01	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	<0.01	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromochloromethane	<0.01	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromethane	<0.01	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromobenzene	<0.01	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<0.01	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromochloromethane	<0.01	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
PCB28	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB52	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB101	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB118	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB138	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB153	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB180	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Total PCB	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

Constituents	GW9D Campaign 4	GW9D Campaign 5	GW9D Campaign 6	GW10 Campaign 1	GW10 Campaign 2	GW10 Campaign 3	GW10 Campaign 4	GW10 Campaign 5	GW10 Campaign 6	GW10 Dup Campaign 1	GW11D Campaign 1	GW11D Campaign 2	GW11D Campaign 3	GW11D Campaign 4	GW11D Campaign 5	GW11D Campaign 6	GW11D Dup Campaign 4
pH Value (Lab)	7.3	6.9	6.8	7.1	7.6	7.6	7.4	7.3	7.6	7.2	12.6	12.6	12.1	11.8	11.1	9.8	11.8
pH Value (Field)	6.4	6.8	7.1	-	7.5	7.3	6.9	7	7.4	-	-	12.4	12.6	12.3	11.8	9.7	12.3
Redox Potential (ORP)	-185	-185	-223	-	-184	-178	-187	4	-130	-	-	-227	-278	-363	-302	-268	-363
DO	3	2	1	-	2	3	1	2	1	-	-	6	4	3	37	1	3
Zinc	29	15	12	8	19	18	<5	20	14	9	<5	<5	9	<5	7	8	<5
Cadmium	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Mercury	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.5	2.5	0.6	<0.1	<0.1	0.5
Total Phenols	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Petroleum Hydrocarbons	<10	<10	<10	<10	297	148	<10	<10	23	<10	<10	71	<10	<10	<10	<10	<10
Free Cyanide	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene	<0.01	0.15	0.67	0.6	13.49	<0.01	2.41	<0.01	<0.01	0.64	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01
Acenaphthylene	<0.01	<0.01	<0.01	<0.01	0.1	<0.01	0.05	<0.01	0.07	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Acenaphthene	<0.01	<0.01	0.21	<0.01	3.76	<0.01	1.26	<0.01	1.15	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Fluorene	<0.01	<0.01	<0.01	<0.01	1.34	<0.01	0.45	<0.01	0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.13	<0.01
Phenanthrene	<0.01	<0.01	0.05	<0.01	1	<0.01	0.24	<0.01	0.14	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	0.28	<0.01
Anthracene	<0.01	<0.01	0.01	<0.01	0.1	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01
Fluoranthene	<0.01	<0.01	<0.01	<0.01	0.1	<0.01	<0.01	<0.01	<0.01	<0.01	0.05	<0.01	<0.01	<0.01	<0.01	0.12	<0.01
Pyrene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.06	<0.01
Benz(a)anthracene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chrysene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b)fluoranthene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(k)fluoranthene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(a)pyrene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Indeno(123-cd)pyrene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(ghi)perylene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Dibenz(ah)anthracene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Total PAH	<0.01	0.15	0.94	0.6	19.89	<0.01	4.41	<0.01	1.44	0.64	0.07	<0.01	<0.01	<0.01	<0.01	0.63	<0.01
Benzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
m&p-Xylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
o-Xylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Styrene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Propylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
tert-Butylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1-methylpropylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis 1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1	<1	<1	4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbontetrachloride	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloro-1-Propene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2,2-Dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans 1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis 1,2-Dichloro-1-Propene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans 1,3-Dichloro-1-Propene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Chlorotoluene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-Chlorotoluene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
o-Cymene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dibromo-3-chloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Hexachlorobutadiene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-Trichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
PCB28	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB52	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB101	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB118	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB138	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB153	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB180	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Total PCB	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

Constituents	GW11S Campaign 1	GW11S Campaign 2	GW11S Campaign 3	GW11S Campaign 4	GW11S Campaign 5	GW11S Campaign 6	GW11S1 Campaign 1	GW11S1 Campaign 2	GW11S1 Campaign 3	GW11S1 Campaign 4	GW11S1 Campaign 5	GW11S1 Campaign 6	GW12 Campaign 1	GW12 Campaign 2	GW12 Campaign 3	GW12 Campaign 4	GW12 Campaign 5
pH Value (Lab)	7.2	7.7	7.6	7.5	7.1	6.9	7	6.9	7.4	7.6	8	7.1	6.7	6.7	6.9	7.2	7
pH Value (Field)	-	7.9	7.5	7	6.7	7.2	-	7.1	7.2	7.2	8.6	7.4	-	6.7	6.9	6.7	6.7
Redox Potential (ORP)	-	-129	-7	-216	-168	-231	-	-169	-167	-180	-275	-219	-	-114	-156	-168	-195
DO	-	2	59	2	4	1	-	2	3	2	3	1	-	2	4	4	2
Zinc	7	25	24	15	46	33	10	10	19	11	9	10	9	10	15	13	16
Cadmium	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2	<1	<1
Mercury	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Phenols	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Petroleum Hydrocarbons	<10	<10	<10	<10	<10	<10	<10	27	<10	<10	<10	<10	<10	241	2233	<10	<10
Free Cyanide	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.09	<0.01	<0.01	0.07
Acenaphthylene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.04	<0.01	<0.01	<0.01
Acenaphthene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.1	<0.01	<0.01	<0.01
Fluorene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Phenanthrene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Anthracene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Fluoranthene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Pyrene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benz(a)anthracene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chrysene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b)fluoranthene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(k)fluoranthene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(a)pyrene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Indeno(123-cd)pyrene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(ghi)perylene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Dibenz(ah)anthracene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Total PAH	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.23	<0.01	<0.01	0.07
Benzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
m&p-Xylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
o-Xylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Styrene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Propylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
tert-Butylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1-methylpropylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis 1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbontetrachloride	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloro-1-Propene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2,2-Dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans 1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis 1,2-Dichloro-1-Propene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans 1,3-Dichloro-1-Propene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Chlorotoluene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-Chlorotoluene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
o-Cymene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dibromo-3-chloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Hexachlorobutadiene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	<1	<1	<1	<1	<1
1,2,3-Trichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
PCB28	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB52	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB101	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB118	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB138	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB153	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB180	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Total PCB	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

ATKINS

Assessment Criteria : *Drinking Water Standard*

CaCO 0.00 | 0.00 | DOC 0.00

Calcium 0.00 | DOC 0.00 | Catchment area | Freshwater not listed

Constituents	Unit	Generic Assessment Criteria (mg/l)	Number of Samples	Minimum Value	Maximum Value	Number of Exceedences	Locations of Exceedences
pH Value (Lab)	pH Units	No WSV	197	5.7	12.6	0	
pH Value (Field)	pH Units	No WSV	155	5.6	12.6	0	
Redox Potential (ORP)	mV	No WSV	155	-363	145	0	
DO	%	No WSV	155	1	102	0	
Salinity	pss	No WSV	155	0	17.9	0	
Electrical Conductivity	µS/cm	No WSV	197	0.49	26100	0	
Suspended Solids	mg/l	No WSV	197	<0.5	1200	0	
Calcium	mg/l	N/A	197	14	8925	0	
Magnesium	mg/l	N/A	197	0.5	533.8	0	
Sodium	mg/l	200	197	4	5336	46	PZ_18 Campaign 4; PZ_18 Campaign 5; PZ_18 Campaign 6; GW6D Campaign 2; GW6D Campaign 3; GW6D Campaign 4; GW6D Campaign 5; GW6D Campaign 6; GW9S Campaign 3; GW9S Campaign 4; GW9S Campaign 5; GW9S Campaign 6; GW9D Campaign 1; GW9D Campaign 2; GW9D Campaign 3; GW9D Campaign 4; GW9D Campaign 5; GW9D Campaign 6; GW10 Campaign 2; GW10 Campaign 3; GW10 Campaign 4; GW11D Campaign 1; GW11D Campaign 5; GW11D Campaign 6; GW11S Campaign 1; GW11S Campaign 3; GW11S Campaign 4; GW11S Campaign 5; GW11S Campaign 6; GW15 Campaign 1; GW15 Campaign 4; GW15 Campaign 5; GW15 Campaign 6; GW24S Campaign 1; GW24S Campaign 2; GW24S Campaign 3; GW24S Campaign 4; GW24S Campaign 5; GW24S Campaign 6; PZ_14 Campaign 1; PZ_16 Campaign 2; PZ_16 Campaign 3; PZ_16 Campaign 4; PZ_16 Campaign 5; PZ_16 Campaign 6; PZ_16 Dup Campaign 5
Potassium	mg/l	N/A	197	1	141	0	
Chloride	mg/l	250	197	13	8504	66	PZ_18 Campaign 1; PZ_18 Campaign 2; PZ_18 Campaign 3; PZ_18 Campaign 4; PZ_18 Campaign 5; PZ_18 Campaign 6; PZ_18 Dup Campaign 3; GW6D Campaign 1; GW6D Campaign 2; GW6D Campaign 3; GW6D Campaign 4; GW6D Campaign 5; GW6D Campaign 6; GW9S Campaign 2; GW9S Campaign 3; GW9S Campaign 4; GW9S Campaign 5; GW9S Campaign 6; GW9D Campaign 1; GW9D Campaign 2; GW9D Campaign 3; GW9D Campaign 4; GW9D Campaign 5; GW9D Campaign 6; GW10 Campaign 1; GW10 Campaign 2; GW10 Campaign 3; GW10 Campaign 4; GW10 Campaign 5; GW10 Campaign 6; GW10 Dup Campaign 1; GW11D Campaign 4; GW11D Campaign 5; GW11D Campaign 6; GW11D Dup Campaign 4; GW15 Campaign 4; GW15 Campaign 5; GW15 Campaign 6; PZ_21 Campaign 5; PZ_21 Campaign 6; GW24D Campaign 1; GW24D Campaign 2; GW24D Campaign 3; GW24D Campaign 4; GW24D Campaign 5; GW24D Campaign 6; GW24D Dup Campaign 4; GW24S Campaign 1; GW24S Campaign 2; GW24S Campaign 3; GW24S Campaign 4; GW24S Campaign 5; GW24S Campaign 6; PZ_6 Campaign 1; PZ_6 Campaign 2; PZ_6 Campaign 3; PZ_6 Campaign 4; PZ_6 Campaign 5; PZ_6 Campaign 6; PZ_14 Campaign 1; PZ_16 Campaign 2; PZ_16 Campaign 3; PZ_16 Campaign 4; PZ_16 Campaign 5; PZ_16 Campaign 6; PZ_16 Dup
Sulphate	mg/l	250	197	1	1197	6	PZ_14 Campaign 1; PZ_16 Campaign 3; PZ_16 Campaign 4; PZ_16 Campaign 5; PZ_16 Campaign 6; PZ_16 Dup Campaign 5
Alkalinity	mg/l CaCO3	No WSV	197	30	1360	0	
Nitrate	mg/l	0.05	197	1	214	97	GW1 Campaign 2; GW1 Campaign 3; GW1 Campaign 4; GW1 Campaign 5; GW1 Campaign 6; GW1 Dup Campaign 1; GW1 Dup Campaign 2; GW1 Dup Campaign 6; GW2 Campaign 1; GW2 Campaign 2; GW2 Campaign 3; GW2 Campaign 4; GW2 Campaign 5; GW2 Campaign 6; GW3 Campaign 1; GW3 Campaign 2; GW3 Campaign 3; GW3 Campaign 4; GW3 Campaign 5; GW3 Campaign 6; PZ_20 Campaign 1; PZ_20 Campaign 2; PZ_20 Campaign 3; PZ_20 Campaign 4; PZ_20 Campaign 5; PZ_20 Campaign 6; PZ_19 Campaign 1; PZ_19 Campaign 2; PZ_19 Campaign 3; PZ_19 Campaign 4; PZ_19 Campaign 5; PZ_19 Campaign 6; PZ_19 Dup Campaign 5; GW6D Campaign 5; GW9D Campaign 4; GW9D Campaign 6; GW10 Campaign 4; GW10 Campaign 6; GW11S Campaign 5; GW13 Campaign 2; GW13 Campaign 3; GW13 Campaign 5; GW13 Campaign 6; GW15 Campaign 4; GW15 Campaign 5; GW15 Campaign 6; GW16D Campaign 2; GW16D Campaign 5; GW16D Campaign 6; GW16D Dup Campaign 2; GW16D Dup Campaign 5; GW16D Dup Campaign 6; GW17 Campaign 3; GW17 Campaign 4; GW17 Campaign 5; GW17 Campaign 6; GW18 Campaign 4; GW18 Campaign 5; PZ_21 Campaign 3; PZ_21 Campaign 4; PZ_21 Campaign 5; PZ_21 Campaign 6; GW20 Campaign 1; GW20
Ammonium as NH4	mg/l	0.5	197	<0.01	42	91	GW1 Campaign 2; GW1 Campaign 4; GW1 Campaign 6; GW1 Dup Campaign 1; GW1 Dup Campaign 2; GW1 Dup Campaign 6; PZ_18 Campaign 1; PZ_18 Campaign 2; PZ_18 Campaign 3; PZ_18 Campaign 5; PZ_18 Campaign 6; PZ_18 Dup Campaign 3; GW6D Campaign 1; GW8 Campaign 1; GW8 Campaign 2; GW8 Campaign 3; GW8 Campaign 4; GW8 Campaign 5; GW8 Campaign 6; GW9S Campaign 1; GW9S Campaign 2; GW9S Campaign 3; GW9S Campaign 4; GW9S Campaign 5; GW9S Campaign 6; GW9D Campaign 1; GW9D Campaign 2; GW9D Campaign 3; GW9D Campaign 4; GW9D Campaign 5; GW9D Campaign 6; GW10 Campaign 1; GW10 Campaign 2; GW10 Campaign 3; GW10 Campaign 4; GW10 Campaign 5; GW10 Campaign 6; GW10 Dup Campaign 1; GW11D Campaign 1; GW11D Campaign 2; GW11D Campaign 3; GW11D Campaign 4; GW11D Campaign 5; GW11D Campaign 6; GW11D Dup Campaign 4; GW11S Campaign 1; GW11S Campaign 2; GW11S Campaign 3; GW11S Campaign 4; GW11S Campaign 5; GW11S Campaign 6; GW11S1 Campaign 1; GW11S1 Campaign 2; GW11S1 Campaign 3; GW11S1 Campaign 5; GW11S1 Campaign 6; GW12 Campaign 1; GW12 Campaign 2; GW12 Campaign 3; GW12 Campaign 4; GW12 Campaign 5; GW12 Campaign 6; GW13 Campaign 2;
COD	mg/l	No WSV	197	<2	120	0	
BOD	mg/l	No WSV	197	2	33	0	

Constituents	GW12 Campaign 6	GW13 Campaign 1	GW13 Campaign 2	GW13 Campaign 3	GW13 Campaign 4	GW13 Campaign 5	GW13 Campaign 6	GW15 Campaign 1	GW15 Campaign 2	GW15 Campaign 3	GW15 Campaign 4	GW15 Campaign 5	GW15 Campaign 6
pH Value (Lab)	6.7	7.7	7.5	7.6	7.8	7.5	7.4	6.4	6.4	6.8	7	6.8	6.9
pH Value (Field)	7	-	7.3	7.3	7	7.1	7.3	-	6.4	6.5	6.4	6.6	6.9
Redox Potential (ORP)	-206	-	-113	-160	-184	-197	-195	-	-99	-103	-161	-164	-202
DO	2	-	2	5	1	1	1	-	2	6	2	4	3
Salinity	0.58	-	0.3	0.35	0.36	0.42	0.42	-	0.83	0.86	1.31	1.57	1.72
Electrical Conductivity	800	670	580	764	740	1023	500	1640	1385	1646	2230	2660	3020
Suspended Solids	42	2	18	16	<5	18	6	159	18	6	132	108	114
Calcium	90	78.9	77	80.8	93.5	84	70	100.4	107	93.7	78.4	166	136
Magnesium	16	13.6	14	15.8	16.7	17	23	226.5	19	19.5	33.2	38	45
Sodium	84	62	43	51.7	58.8	59	67	217.3	173	176.5	335.3	413	453
Potassium	12	5.4	6	7.2	7.1	7	6	15.6	13	10.1	14.2	16	17
Chloride	136	83	56	72	84	150	86	194	147	200	353	457	499
Sulphate	<5	26	34	39	37	46	43	13	3	10	14	13	<5
Alkalinity	420	320	280	290	290	290	300	820	670	680	760	870	940
Nitrate	<1	<1	3	18	<1	5	4	<1	<1	<1	1	9	2
Ammonium as NH4	4.2	0.09	0.53	0.28	0.21	0.01	0.32	6.71	10.6	8.65	21.2	20	1
COD	12	3	<2	8	<2	<2	9	25	33	63	71	95	101
BOD	<2	<2	<2	<2	<2	<2	<2	<2	<2	15	6	19	5

Constituents	GW16D Campaign 1	GW16D Campaign 2	GW16D Campaign 3	GW16D Campaign 4	GW16D Campaign 5	GW16D Campaign 6	GW16D Dup Campaign 2	GW16D Dup Campaign 3	GW16D Dup Campaign 4	GW16D Dup Campaign 5	GW16D Dup Campaign 6	GW17 Campaign 1	GW17 Campaign 2	GW17 Campaign 3	GW17 Campaign 4	GW17 Campaign 5	GW17 Campaign 6
pH Value (Lab)	7.3	7.6	7.7	7.9	7.4	7.6	7.6	7.7	7.9	7.5	7.6	-	-	7.3	8	6.9	7.2
pH Value (Field)	-	7.3	7.4	7.2	6.7	7.3	-	-	7.2	6.7	-	-	-	6.9	6	6.8	7
Redox Potential (ORP)	-	-21	-50	-65	44	-138	-	-	-65	44	-	-	-	91	28	17	-18
DO	-	72	97	70	83	74	-	-	70	83	-	-	-	102	86	85	81
Salinity	-	0.28	0.24	0.29	0.28	0.31	-	-	0.29	0.28	-	-	-	0.18	0.17	0.16	0.18
Electrical Conductivity	590	561	625	621	578	627	553	614	622	551	597	-	-	420	374	326	400
Suspended Solids	334	12	28	14	2	20	22	10	10	16	12	-	-	16	18	24	6
Calcium	65.8	69	69.8	113.6	90	69	67	73	131.7	93	67	-	-	40	39.7	48	34
Magnesium	6.9	7	7.6	10.5	6	8	7	8.1	11.7	5	8	-	-	5.5	5.6	3	6
Sodium	51.3	63	50	79.2	61	55	59	52.2	88.9	53	54	-	-	30.5	35.7	18	38
Potassium	1.7	2	1.4	2.9	1	2	2	1.5	3.3	1	2	-	-	2.7	2.6	2	3
Chloride	69	46	54	46	40	47	46	54	44	40	47	-	-	37	48	32	42
Sulphate	57	53	58	55	53	60	55	59	54	53	61	-	-	25	22	18	22
Alkalinity	290	240	260	270	210	220	250	260	250	220	240	-	-	150	80	100	90
Nitrate	<1	5	<5	<5	5	6	6	<5	<5	5	6	-	-	23	22	18	19
Ammonium as NH4	<0.01	<0.01	0.1	0.26	0.02	0.01	<0.01	0.01	0.24	0.02	0.02	-	-	0.03	0.03	0.03	0.04
COD	<2	<2	<2	<2	<2	<2	>2	<2	<2	5	<2	-	-	9	<2	<2	<2
BOD	<2	3	<2	<2	<2	2	2	<2	<2	<2	<2	-	-	<2	<2	<2	<2

Constituents	GW18 Campaign 1	GW18 Campaign 2	GW18 Campaign 3	GW18 Campaign 4	GW18 Campaign 5	GW18 Campaign 6	PZ_21 Campaign 1	PZ_21 Campaign 2	PZ_21 Campaign 3	PZ_21 Campaign 4	PZ_21 Campaign 5	PZ_21 Campaign 6	GW20 Campaign 1	GW20 Campaign 2	GW20 Campaign 3	GW20 Campaign 4	GW20 Campaign 5	GW20 Campaign 6	GW20 Dup Campaign 1	GW20 Dup Campaign 3	GW21 Campaign 1	GW21 Campaign 2
pH Value (Lab)	-	-	7.5	7.6	6.7	-	-	-	7.1	7.6	7.2	6.9	6.9	7	8.2	7.4	7.2	7.3	6.9	8.3	5.9	6
pH Value (Field)	-	-	7.2	6.5	6.2	-	-	-	6.7	6.8	6.8	7.1	-	6.7	6.9	7	6.9	6.8	-	-	-	6
Redox Potential (ORP)	-	-	64	-25	54	-	-	-	52	-103	-40	-85	-	67	91	-96	15	70	-	-	-	96
DO	-	-	80	78	86	-	-	-	8	3	4	2	-	57	33	32	34	42	-	-	-	65
Salinity	-	-	0.12	0.08	0.07	-	-	-	0.67	0.66	0.73	0.75	-	0.22	0.21	0.44	0.45	0.45	-	-	-	0.24
Electrical Conductivity	-	-	99	188	138	-	-	-	1330	1281	1442	1493	520	540	607	899	889	874	520	538	540	597
Suspended Solids	-	-	4	216	22	-	-	-	<5	64	14	22	11	44	28	102	22	36	15	44	44	10
Calcium	-	-	34.9	24.6	58	-	-	-	203.9	188.9	211	219	68.4	73	86.3	108.5	156	112	74.8	79.3	64.1	57
Magnesium	-	-	3.9	3.1	2	-	-	-	15	14.9	16	17	9.3	10	11.6	18.3	22	26	10.2	10.5	7.2	6
Sodium	-	-	11.1	11.2	14	-	-	-	66.9	66	92	107	24.4	31	26.1	24.6	25	7	26.7	25.1	25.2	29
Potassium	-	-	3.1	3.1	2	-	-	-	5.6	5.5	7	8.5	2.6	3	3.7	4.2	5	32	2.8	3.4	2.8	3
Chloride	-	-	15	16	17	-	-	-	160	203	354	258	31	27	25	72	66	52	36	25	57	54
Sulphate	-	-	24	16	24	-	-	-	28	32	31	29	25	25	27	49	47	71	30	28	55	52
Alkalinity	-	-	80	60	60	-	-	-	180	390	210	360	260	240	240	240	180	160	270	260	270	50
Nitrate	-	-	<5	8	7	-	-	-	67	16	24	25	50	52	44	191	202	214	50	43	145	148
Ammonium as NH4	-	-	<0.01	0.11	<0.01	-	-	-	0.11	0.04	0.32	0.02	0.02	<0.01	0.03	0.01	<0.01	0.03	0.02	0.03	0.37	<0.01
COD	-	-	13	<2	<2	-	-	-	<2	<2	<2	<2	<2	5	<2	<2	<2	<2	<2	<2	<2	<2
BOD	-	-	<2	<2	<2	-	-	-	<2	9	<2	<2	<2	13	<2	<2	<2	#	<2	<2	<2	<2

Assessment Criteria :	Drinking Water Standard				
CaCO	0.00	0.00	DOC	0.00	
Calcium	0.00	DOC	0.00	Catchment area	Freshwater not listed

Constituents	Unit	Generic Assessment Criteria (mg/l)	Number of Samples	Minimum Value	Maximum Value	Number of Exceedences	Locations of Exceedences
pH Value (Lab)	pH Units	No WSV	197	5.7	12.6	0	
pH Value (Field)	pH Units	No WSV	155	5.6	12.6	0	
Redox Potential (ORP)	mV	No WSV	155	-363	145	0	
DO	%	No WSV	155	1	102	0	
Iron	µg/l	0.2	197	10	54370	115	GW1 Dup Campaign 1; GW2 Campaign 1; GW2 Campaign 2; GW2 Campaign 4; GW3 Campaign 2; GW3 Campaign 5; PZ_20 Campaign 5; PZ_19 Campaign 2; PZ_19 Campaign 3; PZ_19 Campaign 4; PZ_19 Campaign 5; PZ_19 Dup Campaign 5; PZ_18 Campaign 1; PZ_18 Campaign 3; PZ_18 Campaign 4; PZ_18 Campaign 5; PZ_18 Dup Campaign 3; GW6D Campaign 1; GW6D Campaign 3; GW6D Campaign 5; GW6D Campaign 6; GW7 Campaign 1; GW7 Campaign 2; GW7 Campaign 3; GW7 Campaign 4; GW7 Campaign 5; GW8 Campaign 1; GW8 Campaign 2; GW8 Campaign 3; GW8 Campaign 4; GW8 Campaign 5; GW8 Campaign 6; GW9S Campaign 1; GW9S Campaign 2; GW9S Campaign 4; GW9S Campaign 5; GW9S Campaign 6; GW9D Campaign 1; GW9D Campaign 2; GW9D Campaign 3; GW9D Campaign 4; GW9D Campaign 5; GW9D Campaign 6; GW10 Campaign 1; GW10 Campaign 2; GW10 Campaign 3; GW10 Campaign 4; GW10 Campaign 5; GW10 Campaign 6; GW10 Dup Campaign 1; GW11D Campaign 3; GW11D Campaign 4; GW11D Campaign 5; GW11D Dup Campaign 4; GW11S Campaign 1; GW11S Campaign 2; GW11S Campaign 3; GW11S Campaign 4; GW11S Campaign 5; GW11S1 Campaign 1; GW11S1 Campaign 2; GW11S1 Campaign 3; GW11S1 Campaign 4; GW11S1 Campaign 5; GW12 Campaign 1
Boron	µg/l	1	197	5	1402	150	GW1 Campaign 2; GW1 Campaign 3; GW1 Campaign 4; GW1 Campaign 5; GW1 Campaign 6; GW1 Dup Campaign 1; GW1 Dup Campaign 2; GW1 Dup Campaign 6; GW2 Campaign 5; GW2 Campaign 6; GW3 Campaign 2; GW3 Campaign 5; GW3 Campaign 6; PZ_20 Campaign 2; PZ_20 Campaign 4; PZ_20 Campaign 5; PZ_19 Campaign 2; PZ_19 Campaign 4; PZ_19 Campaign 5; PZ_19 Campaign 6; PZ_18 Campaign 1; PZ_18 Campaign 2; PZ_18 Campaign 4; PZ_18 Campaign 5; PZ_18 Campaign 6; PZ_18 Dup Campaign 3; GW6D Campaign 2; GW6D Campaign 4; GW6D Campaign 6; GW7 Campaign 3; GW7 Campaign 4; GW7 Campaign 5; GW7 Campaign 6; GW8 Campaign 1; GW8 Campaign 2; GW8 Campaign 3; GW8 Campaign 4; GW8 Campaign 5; GW8 Campaign 6; GW9S Campaign 1; GW9S Campaign 2; GW9S Campaign 3; GW9S Campaign 4; GW9S Campaign 5; GW9S Campaign 6; GW9D Campaign 1; GW9D Campaign 2; GW9D Campaign 3; GW9D Campaign 4; GW9D Campaign 5; GW9D Campaign 6; GW10 Campaign 1; GW10 Campaign 2; GW10 Campaign 3; GW10 Campaign 4; GW10 Campaign 5; GW10 Campaign 6; GW10 Dup Campaign 1; GW11D Campaign 6; GW11D Dup Campaign 4; GW11S Campaign 2; GW11S Campaign 3; GW11S Campaign 4; GW11S Campaign 5; GW11S Campaign 6; GW11S1 Campaign
Arsenic	µg/l	0.01	197	5	77	43	PZ_18 Campaign 1; PZ_18 Campaign 2; PZ_18 Campaign 3; PZ_18 Campaign 4; PZ_18 Campaign 5; PZ_18 Campaign 6; PZ_18 Dup Campaign 3; GW7 Campaign 1; GW7 Campaign 2; GW7 Campaign 3; GW7 Campaign 4; GW7 Campaign 5; GW7 Campaign 6; GW8 Campaign 1; GW8 Campaign 2; GW8 Campaign 3; GW8 Campaign 4; GW8 Campaign 5; GW8 Campaign 6; GW9S Campaign 6; GW9D Campaign 6; GW10 Campaign 2; GW10 Campaign 3; GW10 Campaign 6; GW11D Campaign 4; GW11D Campaign 6; GW11D Dup Campaign 4; GW11S Campaign 2; GW11S Campaign 5; GW11S1 Campaign 2; GW11S1 Campaign 4; GW11S1 Campaign 5; GW11S1 Campaign 6; GW15 Campaign 1; GW15 Campaign 2; GW15 Campaign 3; GW15 Campaign 4; GW15 Campaign 5; GW24S Campaign 1; GW24S Campaign 3; GW24S Campaign 4; PZ_14 Campaign 1; PZ_16 Campaign 2
Chromium	µg/l	0.05	197	<5	7	1	PZ_14 Campaign 1
Lead	µg/l	0.01	197	1	6	10	GW1 Dup Campaign 1; GW2 Campaign 1; GW3 Campaign 2; GW6D Campaign 6; GW10 Campaign 2; GW11S Campaign 2; GW23 Campaign 2; GW23 Dup Campaign 2; PZ_6 Campaign 2; PZ_16 Campaign 2
Nickel	µg/l	0.02	197	1	99	151	GW1 Campaign 2; GW1 Campaign 3; GW1 Campaign 4; GW1 Campaign 5; GW1 Campaign 6; GW1 Dup Campaign 1; GW1 Dup Campaign 2; GW1 Dup Campaign 6; GW2 Campaign 1; GW2 Campaign 2; GW2 Campaign 3; GW2 Campaign 4; GW2 Campaign 5; GW2 Campaign 6; GW3 Campaign 1; GW3 Campaign 2; GW3 Campaign 3; GW3 Campaign 4; GW3 Campaign 5; GW3 Campaign 6; PZ_20 Campaign 1; PZ_20 Campaign 2; PZ_20 Campaign 4; PZ_20 Campaign 6; PZ_19 Campaign 1; PZ_19 Campaign 2; PZ_19 Campaign 3; PZ_19 Campaign 4; PZ_19 Campaign 5; PZ_19 Campaign 6; PZ_19 Dup Campaign 5; PZ_18 Campaign 1; PZ_18 Campaign 2; PZ_18 Campaign 3; PZ_18 Campaign 4; PZ_18 Campaign 5; PZ_18 Campaign 6; PZ_18 Dup Campaign 3; GW6D Campaign 1; GW6D Campaign 2; GW6D Campaign 3; GW6D Campaign 4; GW6D Campaign 5; GW6D Campaign 6; GW7 Campaign 1; GW7 Campaign 4; GW7 Campaign 6; GW8 Campaign 1; GW8 Campaign 3; GW8 Campaign 5; GW8 Campaign 6; GW9S Campaign 1; GW9S Campaign 2; GW9S Campaign 3; GW9S Campaign 4; GW9S Campaign 5; GW9D Campaign 4; GW10 Campaign 1; GW10 Campaign 2; GW10 Campaign 3; GW10 Campaign 4; GW10 Campaign 5; GW10 Campaign 6; GW10 Dup Campaign 1; GW11D Campaign 1; GW11D Campaign 2;
Copper	µg/l	2	197	5	32	35	GW1 Campaign 2; GW1 Dup Campaign 1; GW1 Dup Campaign 2; GW2 Campaign 1; GW2 Campaign 2; GW3 Campaign 2; PZ_20 Campaign 2; PZ_19 Campaign 2; PZ_18 Campaign 2; GW6D Campaign 2; GW9S Campaign 2; GW9D Campaign 2; GW10 Campaign 2; GW11D Campaign 1; GW11D Campaign 2; GW11D Campaign 3; GW11S Campaign 2; GW11S1 Campaign 2; GW15 Campaign 2; GW15 Campaign 3; GW16D Campaign 2; GW16D Dup Campaign 2; GW20 Campaign 2; GW21 Campaign 2; GW22 Campaign 2; GW23 Campaign 2; GW23 Dup Campaign 2; GW24D Campaign 2; PZ_6 Campaign 2; PZ_14 Campaign 1; PZ_14 Campaign 2; PZ_16 Campaign 2; PZ_16 Campaign 3; PZ_16 Campaign 4; PZ_16 Campaign 5

Constituents	GW12 Campaign 6	GW13 Campaign 1	GW13 Campaign 2	GW13 Campaign 3	GW13 Campaign 4	GW13 Campaign 5	GW13 Campaign 6	GW15 Campaign 1	GW15 Campaign 2	GW15 Campaign 3	GW15 Campaign 4	GW15 Campaign 5	GW15 Campaign 6
pH Value (Lab)	6.7	7.7	7.5	7.6	7.8	7.5	7.4	6.4	6.4	6.8	7	6.8	6.9
pH Value (Field)	7	-	7.3	7.3	7	7.1	7.3	-	6.4	6.5	6.4	6.6	6.9
Redox Potential (ORP)	-206	-	-113	-160	-184	-197	-195	-	-99	-103	-161	-164	-202
DO	2	-	2	5	1	1	1	-	2	6	2	4	3
Iron	25600	64	312	52	50	133	34	26580	40	47960	25	555	34590
Boron	46	44	31	73	53	250	36	36	170	193	252	378	407
Arsenic	<5	<5	<5	<5	<5	<5	<5	6	8	30	5	7	<5
Chromium	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Lead	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Nickel	2	7	2	3	5	3	2	7	8	7	6	7	6
Copper	<5	<5	<5	<5	<5	<5	<5	<5	13	6	<5	<5	<5

Constituents	GW16D Campaign 1	GW16D Campaign 2	GW16D Campaign 3	GW16D Campaign 4	GW16D Campaign 5	GW16D Campaign 6	GW16D Dup Campaign 2	GW16D Dup Campaign 3	GW16D Dup Campaign 4	GW16D Dup Campaign 5	GW16D Dup Campaign 6	GW17 Campaign 1	GW17 Campaign 2
pH Value (Lab)	7.3	7.6	7.7	7.9	7.4	7.6	7.6	7.7	7.9	7.5	7.6	-	-
pH Value (Field)	-	7.3	7.4	7.2	6.7	7.3	-	-	7.2	6.7	-	-	-
Redox Potential (ORP)	-	-21	-50	-65	44	-138	-	-	-65	44	-	-	-
DO	-	72	97	70	83	74	-	-	70	83	-	-	-
Iron	<10	<10	<10	11	<10	39	<10	24	10	<10	<10	-	-
Boron	152	108	76	10	165	5	48	40	9	180	42	-	-
Arsenic	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	-
Chromium	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	-
Lead	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-
Nickel	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-
Copper	<5	9	<5	<5	<5	<5	8	<5	<5	<5	<5	-	-

Constituents	GW17 Campaign 3	GW17 Campaign 4	GW17 Campaign 5	GW17 Campaign 6	GW18 Campaign 1	GW18 Campaign 2	GW18 Campaign 3	GW18 Campaign 4	GW18 Campaign 5	GW18 Campaign 6	PZ_21 Campaign 1	PZ_21 Campaign 2	PZ_21 Campaign 3
pH Value (Lab)	7.3	8	6.9	7.2	-	-	7.5	7.6	6.7	-	-	-	7.1
pH Value (Field)	6.9	6	6.8	7	-	-	7.2	6.5	6.2	-	-	-	6.7
Redox Potential (ORP)	91	28	17	-18	-	-	64	-25	54	-	-	-	52
DO	102	86	85	81	-	-	80	78	86	-	-	-	8
Iron	<10	<10	<10	<10	-	-	<10	42	<10	-	-	-	<10
Boron	734	934	1402	791	-	-	<5	<5	109	-	-	-	<5
Arsenic	<5	<5	<5	<5	-	-	<5	<5	<5	-	-	-	<5
Chromium	<5	<5	<5	<5	-	-	<5	<5	<5	-	-	-	<5
Lead	<1	<1	<1	<1	-	-	<1	<1	<1	-	-	-	<1
Nickel	<1	<1	<1	<1	-	-	3	<1	1	-	-	-	5
Copper	<5	<5	<5	<5	-	-	<5	<5	<5	-	-	-	<5

Constituents	PZ_21 Campaign 4	PZ_21 Campaign 5	PZ_21 Campaign 6	GW20 Campaign 1	GW20 Campaign 2	GW20 Campaign 3	GW20 Campaign 4	GW20 Campaign 5	GW20 Campaign 6	GW20 Dup Campaign 1	GW20 Dup Campaign 3	GW21 Campaign 1	GW21 Campaign 2
pH Value (Lab)	7.6	7.2	6.9	6.9	7	8.2	7.4	7.2	7.3	6.9	8.3	5.9	6
pH Value (Field)	6.8	6.8	7.1	-	6.7	6.9	7	6.9	6.8	-	-	-	6
Redox Potential (ORP)	-103	-40	-85	-	67	91	-96	15	70	-	-	-	96
DO	3	4	2	-	57	33	32	34	42	-	-	-	65
Iron	<10	<10	<10	<10	<10	16	72	<10	<10	<10	<10	<10	<10
Boron	144	<5	49	36	<5	33	77	148	<5	16	21	33	<5
Arsenic	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chromium	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Lead	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Nickel	2	2	4	2	2	1	<1	<1	<1	2	1	5	5
Copper	<5	<5	<5	<5	17	<5	<5	<5	<5	<5	<5	<5	17

Assessment Criteria :	Drinking Water Standard				
CaCO	0.00	0.00	DOC	0.00	
Calcium	0.00	DOC	0.00	Catchment area	Freshwater not listed

Constituents	Unit	Generic Assessment Criteria (mg/l)	Number of Samples	Minimum Value	Maximum Value	Number of Exceedences	Locations of Exceedences
pH Value (Lab)	pH Units	No WSV	197	5.7	12.6	0	
pH Value (Field)	pH Units	No WSV	155	5.6	12.6	0	
Redox Potential (ORP)	mV	No WSV	155	-363	145	0	
DO	%	No WSV	155	1	102	0	
Zinc	µg/l	3	197	5	1234	188	GW1 Campaign 2; GW1 Campaign 3; GW1 Campaign 4; GW1 Campaign 5; GW1 Campaign 6; GW1 Dup Campaign 1; GW1 Dup Campaign 2; GW1 Dup Campaign 6; GW2 Campaign 1; GW2 Campaign 2; GW2 Campaign 3; GW2 Campaign 4; GW2 Campaign 5; GW2 Campaign 6; GW3 Campaign 1; GW3 Campaign 2; GW3 Campaign 3; GW3 Campaign 4; GW3 Campaign 5; GW3 Campaign 6; PZ_20 Campaign 1; PZ_20 Campaign 2; PZ_20 Campaign 3; PZ_20 Campaign 4; PZ_20 Campaign 5; PZ_20 Campaign 6; PZ_19 Campaign 1; PZ_19 Campaign 2; PZ_19 Campaign 3; PZ_19 Campaign 4; PZ_19 Campaign 5; PZ_19 Campaign 6; PZ_19 Dup Campaign 5; PZ_18 Campaign 1; PZ_18 Campaign 2; PZ_18 Campaign 3; PZ_18 Campaign 4; PZ_18 Campaign 5; PZ_18 Dup Campaign 3; GW6D Campaign 1; GW6D Campaign 2; GW6D Campaign 3; GW6D Campaign 4; GW6D Campaign 5; GW6D Campaign 6; GW7 Campaign 1; GW7 Campaign 2; GW7 Campaign 3; GW7 Campaign 4; GW7 Campaign 5; GW7 Campaign 6; GW8 Campaign 1; GW8 Campaign 2; GW8 Campaign 3; GW8 Campaign 4; GW8 Campaign 5; GW8 Campaign 6; GW9S Campaign 1; GW9S Campaign 2; GW9S Campaign 3; GW9S Campaign 4; GW9S Campaign 5; GW9S Campaign 6; GW9D Campaign 1; GW9D Campaign 2; GW9D Campaign 3; GW9D
Cadmium	µg/l	0.005	197	<1	9	6	GW3 Campaign 1; PZ_20 Campaign 6; PZ_18 Campaign 2; GW6D Campaign 2; GW9S Campaign 3; GW12 Campaign 3
Mercury	µg/l	0.001	197	0.1	2.5	14	PZ_20 Campaign 3; PZ_19 Campaign 3; GW6D Campaign 6; GW11D Campaign 2; GW11D Campaign 3; GW11D Campaign 4; GW11D Dup Campaign 4; GW16D Campaign 6; GW17 Campaign 6; PZ_21 Campaign 5; PZ_21 Campaign 6; GW20 Campaign 2; PZ_14 Campaign 1; PZ_16 Campaign 1
Total Phenols	µg/l	No WSV	197	0.5	<0.5	0	
Total Petroleum Hydrocarbons	µg/l	No WSV	197	<10	2233	0	
Free Cyanide	µg/l	See Cyanide (total)	197	5	21.1	0	
Naphthalene	µg/l	See BaP	197	<0.01	13.49	0	
Acenaphthylene	µg/l	See BaP	197	0.01	0.12	0	
Acenaphthene	µg/l	See BaP	197	0.01	3.76	0	
Fluorene	µg/l	See BaP	197	<0.01	1.34	0	
Phenanthrene	µg/l	See BaP	197	<0.01	1	0	
Anthracene	µg/l	See BaP	197	0.01	0.1	0	
Fluoranthene	µg/l	See BaP	197	<0.01	0.21	0	
Pyrene	µg/l	See BaP	197	<0.01	0.19	0	
Benz(a)anthracene	µg/l	No WSV	197	<0.01	0.12	0	
Chrysene	µg/l	See BaP	197	<0.01	0.12	0	
Benzo(b)fluoranthene	µg/l	See PAH Sum of 4	197	<0.01	0.13	0	
Benzo(k)fluoranthene	µg/l	See PAH Sum of 4	197	<0.01	0.16	0	
Benzo(a)pyrene	µg/l	0.00001	197	<0.01	0.16	1	GW6D Campaign 4
Indeno(123-cd)pyrene	µg/l	See PAH Sum of 4	197	0.01	<0.01	0	
Benzo(ghi)perylene	µg/l	See PAH Sum of 4	197	0.01	<0.01	0	
Dibenz(ah)anthracene	µg/l	See BaP	197	0.01	<0.01	0	
Total PAH	µg/l	No WSV	197	<0.01	19.89	0	
Benzene	µg/l	0.001	197	<0.01	<1	0	
Toluene	µg/l	0.7	197	<0.01	1	1	PZ_16 Campaign 3
Ethylbenzene	µg/l	0.3	197	<0.01	<1	0	
m&p-Xylene	µg/l	No WSV	197	<0.01	<1	0	
o-Xylene	µg/l	0.5	197	<0.01	<1	0	
Styrene	µg/l	0.02	197	<0.01	<1	0	
Propylbenzene	µg/l	No WSV	197	<0.01	<1	0	
Methylethylbenzene	µg/l	No WSV	197	<0.01	<1	0	
sec-Butylbenzene	µg/l	No WSV	197	<0.01	<1	0	
1,3,5-Trimethylbenzene	µg/l	No WSV	197	<0.01	<1	0	
tert-Butylbenzene	µg/l	No WSV	197	<0.01	1	0	
1-methylpropylbenzene	µg/l	No WSV	197	<0.01	<1	0	
Vinyl Chloride	µg/l	0.0005	197	<0.01	<1	0	
cis 1,2-Dichloroethene	µg/l	No WSV	197	<0.01	137	0	
1,1-Dichloroethane	µg/l	No WSV	197	<0.01	<1	0	
Chloroform	µg/l	See Trihalomethanes	197	<0.01	4	0	
Carbontetrachloride	µg/l	No WSV	197	<0.01	<1	0	
1,1,1-Trichloroethane	µg/l	2	197	<0.01	3	1	PZ_14 Campaign 6
Trichloroethylene	µg/l	0.01 (sum of TCE & PCE)	197	<0.01	<1	0	
Tetrachloroethylene	µg/l	0.01 (sum of TCE & PCE)	197	<0.01	31	0	
1,1,1,2-Tetrachloroethane	µg/l	No WSV	197	<0.01	<1	0	
1,1,2,2-Tetrachloroethane	µg/l	No WSV	197	<0.01	<1	0	
Chlorobenzene	µg/l	No WSV	197	<0.01	1	0	
1,1-Dichloro-1-Propene	µg/l	No WSV	197	<0.01	<1	0	
1,2-Dichloroethane	µg/l	0.003	197	<0.01	132	1	GW20 Campaign 6
2,2-Dichloropropane	µg/l	No WSV	197	<0.01	2	0	
trans 1,2-Dichloroethene	µg/l	No WSV	197	<0.01	<1	0	
Dibromomethane	µg/l	No WSV	197	<0.01	1	0	
1,2-Dichloropropane	µg/l	0.04	197	<0.01	<1	0	
cis 1,2-Dichloro-1-Propene	µg/l	No WSV	197	<0.01	<1	0	
trans 1,3-Dichloro-1-Propene	µg/l	No WSV	197	<0.01	3	0	
1,1,2-Trichloroethane	µg/l	N/A	197	<0.01	<1	0	
1,3-Dichloropropane	µg/l	No WSV	197	<0.01	<1	0	
2-Chlorotoluene	µg/l	No WSV	197	<0.01	<1	0	
1,2,4-Trimethylbenzene	µg/l	No WSV	197	<0.01	<1	0	
4-Chlorotoluene	µg/l	No WSV	197	<0.01	<1	0	
o-Cymene	µg/l	No WSV	197	<0.01	<1	0	
1,4-Dichlorobenzene	µg/l	No WSV	197	<0.01	<1	0	
1,2-Dibromo-3-chloropropane	µg/l	0.001	197	<0.01	<1	0	
Hexachlorobutadiene	µg/l	0.0006	197	<0.01	1	1	GW11S1 Campaign 6
1,2,3-Trichlorobenzene	µg/l	No WSV	197	<0.01	<1	0	
1,2,4-Trichlorobenzene	µg/l	No WSV	197	<0.01	<1	0	
1,3-Dichlorobenzene	µg/l	No WSV	197	<0.01	<1	0	
1,2-Dichlorobenzene	µg/l	No WSV	197	<0.01	<1	0	
Bromochloromethane	µg/l	No WSV	197	<0.01	1	0	
Dibromethane	µg/l	No WSV	197	<0.01	1	0	
Bromobenzene	µg/l	No WSV	197	<0.01	<1	0	
Bromodichloromethane	µg/l	See Trihalomethanes	197	<0.01	<1	0	
Dibromochloromethane	µg/l	See Trihalomethanes	197	<0.01	<1	0	
PCB28	µg/l	No WSV	197	0.01	<0.01	0	
PCB52	µg/l	No WSV	197	<0.01	0.17	0	
PCB101	µg/l	No WSV	197	0.01	<0.01	0	
PCB118	µg/l	No WSV	197	0.01	<0.01	0	
PCB138	µg/l	No WSV	197	0.01	<0.01	0	
PCB153	µg/l	No WSV	197	0.01	<0.01	0	
PCB180	µg/l	No WSV	197	0.01	<0.01	0	
Total PCB	µg/l	No WSV	197	<0.01	0.17	0	

Constituents	GW12 Campaign 6	GW13 Campaign 1	GW13 Campaign 2	GW13 Campaign 3	GW13 Campaign 4	GW13 Campaign 5	GW13 Campaign 6	GW15 Campaign 1	GW15 Campaign 2	GW15 Campaign 3	GW15 Campaign 4	GW15 Campaign 5	GW15 Campaign 6
pH Value (Lab)	6.7	7.7	7.5	7.6	7.8	7.5	7.4	6.4	6.4	6.8	7	6.8	6.9
pH Value (Field)	7	-	7.3	7.3	7	7.1	7.3	-	6.4	6.5	6.4	6.6	6.9
Redox Potential (ORP)	-206	-	-113	-160	-184	-197	-195	-	-99	-103	-161	-164	-202
DO	2	-	2	5	1	1	1	-	2	6	2	4	3
Zinc	36	8	7	11	13	17	48	9	12	41	5	24	10
Cadmium	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Mercury	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Phenols	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Petroleum Hydrocarbons	<10	<10	413	648	<10	<10	<10	<10	156	248	<10	<10	<10
Free Cyanide	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene	3.23	<0.01	<0.01	<0.01	<0.01	<0.01	0.81	<0.01	<0.01	<0.01	0.06	<0.01	<0.01
Acenaphthylene	0.12	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Acenaphthene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Fluorene	0.17	<0.01	<0.01	<0.01	<0.01	<0.01	0.12	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Phenanthrene	0.24	<0.01	<0.01	<0.01	<0.01	<0.01	0.08	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Anthracene	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Fluoranthene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Pyrene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benz(a)anthracene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chrysene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b)fluoranthene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(k)fluoranthene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(a)pyrene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Indeno(123-cd)pyrene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(ghi)perylene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Dibenz(ah)anthracene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Total PAH	3.77	<0.01	<0.01	<0.01	<0.01	<0.01	1.02	<0.01	<0.01	<0.01	0.06	<0.01	<0.01
Benzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
m&p-Xylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
o-Xylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Styrene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Propylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
tert-Butylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1-methylpropylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis 1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	4	<1	<1
Carbontetrachloride	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	<1	<1
1,1-Dichloro-1-Propene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2,2-Dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans 1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis 1,2-Dichloro-1-Propene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans 1,3-Dichloro-1-Propene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Chlorotoluene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-Chlorotoluene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
o-Cymene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dibromo-3-chloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Hexachlorobutadiene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-Trichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
PCB28	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB52	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB101	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB118	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB138	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB153	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB180	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Total PCB	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

Constituents	GW16D Campaign 1	GW16D Campaign 2	GW16D Campaign 3	GW16D Campaign 4	GW16D Campaign 5	GW16D Campaign 6	GW16D Dup Campaign 2	GW16D Dup Campaign 3	GW16D Dup Campaign 4	GW16D Dup Campaign 5	GW16D Dup Campaign 6	GW17 Campaign 1	GW17 Campaign 2	GW17 Campaign 3	GW17 Campaign 4	GW17 Campaign 5	GW17 Campaign 6
pH Value (Lab)	7.3	7.6	7.7	7.9	7.4	7.6	7.6	7.7	7.9	7.5	7.6	-	-	7.3	8	6.9	7.2
pH Value (Field)	-	7.3	7.4	7.2	6.7	7.3	-	-	7.2	6.7	-	-	-	6.9	6	6.8	7
Redox Potential (ORP)	-	-21	-50	-65	44	-138	-	-	-65	44	-	-	-	91	28	17	-18
DO	-	72	97	70	83	74	-	-	70	83	-	-	-	102	86	85	81
Zinc	6	24	12	15	11	10	21	24	9	12	9	-	-	9	15	14	10
Cadmium	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	<1	<1	<1	<1
Mercury	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	<0.1	<0.1	0.1`
Total Phenols	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5
Total Petroleum Hydrocarbons	<10	<10	<10	<10	<10	558	<10	<10	<10	<10	<10	-	-	<10	<10	<10	<10
Free Cyanide	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	-	<5	<5	<5	<5
Naphthalene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	<0.01	<0.01	<0.01	<0.01
Acenaphthylene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	<0.01	<0.01	<0.01	<0.01
Acenaphthene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	<0.01	<0.01	<0.01	<0.01
Fluorene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	<0.01	<0.01	<0.01	<0.01
Phenanthrene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	<0.01	<0.01	<0.01	<0.01
Anthracene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	<0.01	<0.01	<0.01	<0.01
Fluoranthene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	<0.01	<0.01	<0.01	<0.01
Pyrene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	<0.01	<0.01	<0.01	<0.01
Benz(a)anthracene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	<0.01	<0.01	<0.01	<0.01
Chrysene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	<0.01	<0.01	<0.01	<0.01
Benzo(b)fluoranthene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	<0.01	<0.01	<0.01	<0.01
Benzo(k)fluoranthene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	<0.01	<0.01	<0.01	<0.01
Benzo(a)pyrene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	<0.01	<0.01	<0.01	<0.01
Indeno(123-cd)pyrene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	<0.01	<0.01	<0.01	<0.01
Benzo(ghi)perylene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	<0.01	<0.01	<0.01	<0.01
Dibenz(ah)anthracene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	<0.01	<0.01	<0.01	<0.01
Total PAH	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	<0.01	<0.01	<0.01	<0.01
Benzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	<1	<1	<1	<1
Toluene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	<1	<1	<1	<1
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	<1	<1	<1	<1
m&p-Xylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	<1	<1	<1	<1
o-Xylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	<1	<1	<1	<1
Styrene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	<1	<1	<1	<1
Propylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	<1	<1	<1	<1
Methylethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	<1	<1	<1	<1
sec-Butylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	<1	<1	<1	<1
1,3,5-Trimethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	<1	<1	<1	<1
tert-Butylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	<1	<1	<1	<1
1-methylpropylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	<1	<1	<1	<1
Vinyl Chloride	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	<1	<1	<1	<1
cis 1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	<1	<1	<1	<1
1,1-Dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	<1	<1	<1	<1
Carbontetrachloride	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	<1	<1	<1	<1
1,1,1-Trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	<1	<1	<1	<1
Trichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	<1	<1	<1	<1
Tetrachloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	<1	<1	<1	<1
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	<1	<1	<1	<1
1,1-Dichloro-1-Propene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	<1	<1	<1	<1
1,2-Dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	<1	<1	<1	<1
2,2-Dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	<1	<1	<1	<1
trans 1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	<1	<1	<1	<1
1,2-Dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	<1	<1	<1	<1
cis 1,2-Dichloro-1-Propene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	<1	<1	<1	<1
trans 1,3-Dichloro-1-Propene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	<1	<1	<1	<1
1,1,2-Trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	<1	<1	<1	<1
1,3-Dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	<1	<1	<1	<1
2-Chlorotoluene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	<1	<1	<1	<1
1,2,4-Trimethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	<1	<1	<1	<1
4-Chlorotoluene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	<1	<1	<1	<1
o-Cymene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	<1	<1	<1	<1
1,4-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	<1	<1	<1	<1
1,2-Dibromo-3-chloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	<1	<1	<1	<1
Hexachlorobutadiene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	<1	<1	<1	<1
1,2,3-Trichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	<1	<1	<1	<1
1,2,4-Trichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	<1	<1	<1	<1
1,3-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	<1	<1	<1	<1
1,2-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	<1	<1	<1	<1
Bromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	<1	<1	<1	<1
Dibromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	<1	<1	<1	<1
Bromobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	<1	<1	<1	<1
Dibromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	<1	<1	<1	<1
PCB28	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	<0.01	<0.01	<0.01	<0.01
PCB52	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	<0.01	<0.01	<0.01	<0.01
PCB101	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	<0.01	<0.01	<0.01	<0.01
PCB118	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	<0.01	<0.01	<0.01	<0.01
PCB138	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	<0.01	<0.01	<0.01	<0.01
PCB153	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	<0.01	<0.01	<0.01	<0.01
PCB180	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	<0.01	<0.01	<0.01	<0.01
Total PCB	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	<0.01	<0.01	<0.01	<0.01

Constituents	GW18 Campaign 1	GW18 Campaign 2	GW18 Campaign 3	GW18 Campaign 4	GW18 Campaign 5	GW18 Campaign 6	PZ_21 Campaign 1	PZ_21 Campaign 2	PZ_21 Campaign 3	PZ_21 Campaign 4	PZ_21 Campaign 5	PZ_21 Campaign 6	GW20 Campaign 1	GW20 Campaign 2	GW20 Campaign 3	GW20 Campaign 4	GW20 Campaign 5	GW20 Campaign 6	GW20 Dup Campaign 1	GW20 Dup Campaign 3	GW21 Campaign 1	GW21 Campaign 2
pH Value (Lab)	-	-	7.5	7.6	6.7	-	-	-	7.1	7.6	7.2	6.9	6.9	7	8.2	7.4	7.2	7.3	6.9	8.3	5.9	6
pH Value (Field)	-	-	7.2	6.5	6.2	-	-	-	6.7	6.8	6.8	7.1	-	6.7	6.9	7	6.9	6.8	-	-	-	6
Redox Potential (ORP)	-	-	64	-25	54	-	-	-	52	-103	-40	-85	-	67	91	-96	15	70	-	-	-	96
DO	-	-	80	78	86	-	-	-	8	3	4	2	-	57	33	32	34	42	-	-	-	65
Zinc	-	-	10	16	33	-	-	-	37	45	54	45	10	23	67	13	11	10	7	81	24	41
Cadmium	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Mercury	-	-	<0.1	<0.1	<0.1	-	-	-	<0.1	<0.1	0.2	0.1	<0.1	0.1	<0.1	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Phenols	-	-	<0.5	<0.5	<0.5	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Petroleum Hydrocarbons	-	-	<10	<10	<10	-	-	-	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	56
Free Cyanide	-	-	<5	<5	<5	-	-	-	<5	<5	<5	<5	<5	<5	<5	5	10.5	<5	<5	<5	<5	<5
Naphthalene	-	-	<0.01	<0.01	<0.01	-	-	-	<0.01	<0.01	<0.01	0.05	<0.01	0.22	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Acenaphthylene	-	-	<0.01	<0.01	<0.01	-	-	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01
Acenaphthene	-	-	<0.01	<0.01	<0.01	-	-	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.17	<0.01	<0.01	<0.01	<0.01
Fluorene	-	-	<0.01	<0.01	<0.01	-	-	-	<0.01	<0.01	<0.01	0.09	<0.01	<0.01	<0.01	<0.01	<0.01	0.18	<0.01	<0.01	<0.01	<0.01
Phenanthrene	-	-	<0.01	<0.01	<0.01	-	-	-	<0.01	<0.01	<0.01	0.14	<0.01	<0.01	<0.01	<0.01	<0.01	0.22	<0.01	<0.01	<0.01	<0.01
Anthracene	-	-	<0.01	<0.01	<0.01	-	-	-	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	<0.01
Fluoranthene	-	-	<0.01	<0.01	<0.01	-	-	-	<0.01	<0.01	<0.01	0.04	<0.01	<0.01	<0.01	<0.01	<0.01	0.08	<0.01	<0.01	<0.01	<0.01
Pyrene	-	-	<0.01	<0.01	<0.01	-	-	-	<0.01	<0.01	<0.01	0.04	<0.01	<0.01	<0.01	<0.01	<0.01	0.07	<0.01	<0.01	<0.01	<0.01
Benz(a)anthracene	-	-	<0.01	<0.01	<0.01	-	-	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chrysene	-	-	<0.01	<0.01	<0.01	-	-	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b)fluoranthene	-	-	<0.01	<0.01	<0.01	-	-	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(k)fluoranthene	-	-	<0.01	<0.01	<0.01	-	-	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(a)pyrene	-	-	<0.01	<0.01	<0.01	-	-	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Indeno(123-cd)pyrene	-	-	<0.01	<0.01	<0.01	-	-	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(ghi)perylene	-	-	<0.01	<0.01	<0.01	-	-	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Dibenz(ah)anthracene	-	-	<0.01	<0.01	<0.01	-	-	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Total PAH	-	-	<0.01	<0.01	<0.01	-	-	-	<0.01	<0.01	<0.01	0.37	<0.01	0.22	<0.01	<0.01	<0.01	0.76	<0.01	<0.01	<0.01	<0.01
Benzene	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
m&p-Xylene	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
o-Xylene	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Styrene	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Propylbenzene	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylethylbenzene	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
tert-Butylbenzene	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1-methylpropylbenzene	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis 1,2-Dichloroethene	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	137	<1	<1	<1	<1
1,1-Dichloroethane	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbontetrachloride	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethylene	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	31	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloro-1-Propene	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	132	<1	<1	<1	<1
2,2-Dichloropropane	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans 1,2-Dichloroethene	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1
1,2-Dichloropropane	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis 1,2-Dichloro-1-Propene	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans 1,3-Dichloro-1-Propene	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichloropropane	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Chlorotoluene	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-Chlorotoluene	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
o-Cymene	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dibromo-3-chloropropane	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Hexachlorobutadiene	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-Trichlorobenzene	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichlorobenzene	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromochloromethane	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromethane	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromobenzene	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromochloromethane	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
PCB28	-	-	<0.01	<0.01	<0.01	-	-	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB52	-	-	<0.01	<0.01	<0.01	-	-	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB101	-	-	<0.01	<0.01	<0.01	-	-	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB118	-	-	<0.01	<0.01	<0.01	-	-	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB138	-	-	<0.01	<0.01	<0.01	-	-	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB153	-	-	<0.01	<0.01	<0.01	-	-	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB180	-	-	<0.01	<0.01	<0.01	-	-	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Total PCB	-	-	<0.01	<0.01	<0.01	-	-	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

Assessment Criteria : *Drinking Water Standard*

CaCO 0.00 | 0.00 | DOC 0.00

Calcium 0.00 | DOC 0.00 | Catchment area | Freshwater not listed

Constituents	Unit	Generic Assessment Criteria (mg/l)	Number of Samples	Minimum Value	Maximum Value	Number of Exceedences	Locations of Exceedences
pH Value (Lab)	pH Units	No WSV	197	5.7	12.6	0	
pH Value (Field)	pH Units	No WSV	155	5.6	12.6	0	
Redox Potential (ORP)	mV	No WSV	155	-363	145	0	
DO	%	No WSV	155	1	102	0	
Salinity	pss	No WSV	155	0	17.9	0	
Electrical Conductivity	µS/cm	No WSV	197	0.49	26100	0	
Suspended Solids	mg/l	No WSV	197	<0.5	1200	0	
Calcium	mg/l	N/A	197	14	8925	0	
Magnesium	mg/l	N/A	197	0.5	533.8	0	
Sodium	mg/l	200	197	4	5336	46	PZ_18 Campaign 4; PZ_18 Campaign 5; PZ_18 Campaign 6; GW6D Campaign 2; GW6D Campaign 3; GW6D Campaign 4; GW6D Campaign 5; GW6D Campaign 6; GW9S Campaign 3; GW9S Campaign 4; GW9S Campaign 5; GW9S Campaign 6; GW9D Campaign 1; GW9D Campaign 2; GW9D Campaign 3; GW9D Campaign 4; GW9D Campaign 5; GW9D Campaign 6; GW10 Campaign 2; GW10 Campaign 3; GW10 Campaign 4; GW11D Campaign 1; GW11D Campaign 5; GW11D Campaign 6; GW11S Campaign 1; GW11S Campaign 3; GW11S Campaign 4; GW11S Campaign 5; GW11S Campaign 6; GW15 Campaign 1; GW15 Campaign 4; GW15 Campaign 5; GW15 Campaign 6; GW24S Campaign 1; GW24S Campaign 2; GW24S Campaign 3; GW24S Campaign 4; GW24S Campaign 5; GW24S Campaign 6; PZ_14 Campaign 1; PZ_16 Campaign 2; PZ_16 Campaign 3; PZ_16 Campaign 4; PZ_16 Campaign 5; PZ_16 Campaign 6; PZ_16 Dup Campaign 5
Potassium	mg/l	N/A	197	1	141	0	
Chloride	mg/l	250	197	13	8504	66	PZ_18 Campaign 1; PZ_18 Campaign 2; PZ_18 Campaign 3; PZ_18 Campaign 4; PZ_18 Campaign 5; PZ_18 Campaign 6; PZ_18 Dup Campaign 3; GW6D Campaign 1; GW6D Campaign 2; GW6D Campaign 3; GW6D Campaign 4; GW6D Campaign 5; GW6D Campaign 6; GW9S Campaign 2; GW9S Campaign 3; GW9S Campaign 4; GW9S Campaign 5; GW9S Campaign 6; GW9D Campaign 1; GW9D Campaign 2; GW9D Campaign 3; GW9D Campaign 4; GW9D Campaign 5; GW9D Campaign 6; GW10 Campaign 1; GW10 Campaign 2; GW10 Campaign 3; GW10 Campaign 4; GW10 Campaign 5; GW10 Campaign 6; GW10 Dup Campaign 1; GW11D Campaign 4; GW11D Campaign 5; GW11D Campaign 6; GW11D Dup Campaign 4; GW15 Campaign 4; GW15 Campaign 5; GW15 Campaign 6; PZ_21 Campaign 5; PZ_21 Campaign 6; GW24D Campaign 1; GW24D Campaign 2; GW24D Campaign 3; GW24D Campaign 4; GW24D Campaign 5; GW24D Campaign 6; GW24D Dup Campaign 4; GW24S Campaign 1; GW24S Campaign 2; GW24S Campaign 3; GW24S Campaign 4; GW24S Campaign 5; GW24S Campaign 6; PZ_6 Campaign 1; PZ_6 Campaign 2; PZ_6 Campaign 3; PZ_6 Campaign 4; PZ_6 Campaign 5; PZ_6 Campaign 6; PZ_14 Campaign 1; PZ_16 Campaign 2; PZ_16 Campaign 3; PZ_16 Campaign 4; PZ_16 Campaign 5; PZ_16 Campaign 6; PZ_16 Dup
Sulphate	mg/l	250	197	1	1197	6	PZ_14 Campaign 1; PZ_16 Campaign 3; PZ_16 Campaign 4; PZ_16 Campaign 5; PZ_16 Campaign 6; PZ_16 Dup Campaign 5
Alkalinity	mg/l CaCO3	No WSV	197	30	1360	0	
Nitrate	mg/l	0.05	197	1	214	97	GW1 Campaign 2; GW1 Campaign 3; GW1 Campaign 4; GW1 Campaign 5; GW1 Campaign 6; GW1 Dup Campaign 1; GW1 Dup Campaign 2; GW1 Dup Campaign 6; GW2 Campaign 1; GW2 Campaign 2; GW2 Campaign 3; GW2 Campaign 4; GW2 Campaign 5; GW2 Campaign 6; GW3 Campaign 1; GW3 Campaign 2; GW3 Campaign 3; GW3 Campaign 4; GW3 Campaign 5; GW3 Campaign 6; PZ_20 Campaign 1; PZ_20 Campaign 2; PZ_20 Campaign 3; PZ_20 Campaign 4; PZ_20 Campaign 5; PZ_20 Campaign 6; PZ_19 Campaign 1; PZ_19 Campaign 2; PZ_19 Campaign 3; PZ_19 Campaign 4; PZ_19 Campaign 5; PZ_19 Campaign 6; PZ_19 Dup Campaign 5; GW6D Campaign 5; GW9D Campaign 4; GW9D Campaign 6; GW10 Campaign 4; GW10 Campaign 6; GW11S Campaign 5; GW13 Campaign 2; GW13 Campaign 3; GW13 Campaign 5; GW13 Campaign 6; GW15 Campaign 4; GW15 Campaign 5; GW15 Campaign 6; GW16D Campaign 2; GW16D Campaign 5; GW16D Campaign 6; GW16D Dup Campaign 2; GW16D Dup Campaign 5; GW16D Dup Campaign 6; GW17 Campaign 3; GW17 Campaign 4; GW17 Campaign 5; GW17 Campaign 6; GW18 Campaign 4; GW18 Campaign 5; PZ_21 Campaign 3; PZ_21 Campaign 4; PZ_21 Campaign 5; PZ_21 Campaign 6; GW20 Campaign 1; GW20 Campaign 2; GW20 Campaign 3; GW20
Ammonium as NH4	mg/l	0.5	197	<0.01	42	91	GW1 Campaign 2; GW1 Campaign 4; GW1 Campaign 6; GW1 Dup Campaign 1; GW1 Dup Campaign 2; GW1 Dup Campaign 6; PZ_18 Campaign 1; PZ_18 Campaign 2; PZ_18 Campaign 3; PZ_18 Campaign 5; PZ_18 Campaign 6; PZ_18 Dup Campaign 3; GW6D Campaign 1; GW8 Campaign 1; GW8 Campaign 2; GW8 Campaign 3; GW8 Campaign 4; GW8 Campaign 5; GW8 Campaign 6; GW9S Campaign 1; GW9S Campaign 2; GW9S Campaign 3; GW9S Campaign 4; GW9S Campaign 5; GW9S Campaign 6; GW9D Campaign 1; GW9D Campaign 2; GW9D Campaign 3; GW9D Campaign 4; GW9D Campaign 5; GW9D Campaign 6; GW10 Campaign 1; GW10 Campaign 2; GW10 Campaign 3; GW10 Campaign 4; GW10 Campaign 5; GW10 Campaign 6; GW10 Dup Campaign 1; GW11D Campaign 1; GW11D Campaign 2; GW11D Campaign 3; GW11D Campaign 4; GW11D Campaign 5; GW11D Campaign 6; GW11D Dup Campaign 4; GW11S Campaign 1; GW11S Campaign 2; GW11S Campaign 3; GW11S Campaign 4; GW11S Campaign 5; GW11S Campaign 6; GW11S1 Campaign 1; GW11S1 Campaign 2; GW11S1 Campaign 3; GW11S1 Campaign 5; GW11S1 Campaign 6; GW12 Campaign 1; GW12 Campaign 2; GW12 Campaign 3; GW12 Campaign 4; GW12 Campaign 5; GW12 Campaign 6; GW13 Campaign 2; GW15 Campaign 1; GW15 Campaign 2;
COD	mg/l	No WSV	197	<2	120	0	
BOD	mg/l	No WSV	197	2	33	0	

Constituents	GW21 Campaign 3	GW21 Campaign 4	GW21 Campaign 5	GW21 Campaign 6	GW22 Campaign 1	GW22 Campaign 2	GW22 Campaign 3	GW22 Campaign 4	GW22 Campaign 5	GW22 Campaign 6	GW23 Campaign 1	GW23 Campaign 2	GW23 Campaign 3	GW23 Campaign 4	GW23 Campaign 5	GW23 Campaign 6	GW23 Dup Campaign 2	GW23 Dup Campaign 6
pH Value (Lab)	7.8	6.4	6.1	6.5	7	7	8.1	7	6.3	6.6	7.3	7.1	8.3	7.3	6.9	7.3	7	7.4
pH Value (Field)	5.9	5.9	5.7	6.5	-	6.8	7	6.3	6.1	6.3	-	6.8	6.8	6.3	6.5	6.8	-	-
Redox Potential (ORP)	101	41	79	6	-	53	109	15	62	93	-	-35	61	-13	54	61	-	-
DO	72	65	72	71	-	20	14	64	5	5	-	4	10	11	4	2	-	-
Salinity	0.22	0.26	0.25	0.28	-	0.18	0.18	0.29	0.41	0.41	-	0.33	0.32	0.35	0.34	0.34	-	-
Electrical Conductivity	619	568	494	564	493	447	472	597	772	798	742	796	836	740	701	656	795	680
Suspended Solids	38	198	6	36	14	2	32	68	10	6	86	22	26	58	20	14	2	8
Calcium	74.4	62.9	36	68	65.9	50	71.8	84	159	122	107.3	110.2	133.6	111	160	107	120.6	109
Magnesium	9.2	7.3	5	8	5.5	4	5.2	5.9	11	13	10.4	4.4	5.6	6.6	7	9	5.1	9
Sodium	27.4	23.6	50	28	18.6	19	15.2	16.2	28	31	23	29.2	26.8	20	38	23	33.2	27
Potassium	3.5	2.7	2	3	5.3	5	6.3	5.5	4	5	6.4	1.3	1.7	2.8	3	3	1.5	3
Chloride	52	42	47	45	36	29	28	36	51	57	38	51	54	48	47	50	51	50
Sulphate	52	47	51	49	30	25	25	35	79	90	31	37	53	100	97	107	36	107
Alkalinity	120	60	30	120	230	80	150	120	130	140	440	240	370	190	250	180	290	170
Nitrate	127	118	124	122	77	63	56	101	166	173	33	32	14	47	50	59	32	60
Ammonium as NH4	0.08	<0.01	0.06	9	0.19	<0.01	0.04	<0.01	0.01	0.02	0.48	<0.01	0.02	0.11	0.03	0.06	<0.01	0.03
COD	<2	<2	<2	<2	<2	<2	<2	3	<2	<2	<2	<2	<2	<2	4	<2	<2	<2
BOD	<2	<2	<2	#	<2	<2	<2	<2	<2	#	<2	<2	<2	<2	<2	<2	<2	#

Constituents	GW24D Campaign 1	GW24D Campaign 2	GW24D Campaign 3	GW24D Campaign 4	GW24D Campaign 5	GW24D Campaign 6	GW24D Dup Campaign 4	GW24S Campaign 1	GW24S Campaign 2	GW24S Campaign 3	GW24S Campaign 4	GW24S Campaign 5	GW24S Campaign 6	PZ_6 Campaign 1	PZ_6 Campaign 2	PZ_6 Campaign 3	PZ_6 Campaign 4	PZ_6 Campaign 5	PZ_6 Campaign 6
pH Value (Lab)	7.3	8.4	7.2	6.7	7.3	7	6.7	7.2	8.2	7.2	7.5	7.5	7.2	7	7.1	7.1	7.2	6.9	6.9
pH Value (Field)	-	7.3	7	6.9	6.7	7.5	6.9	-	7.4	7.1	6.9	7.1	7.5	-	7.2	7.3	6.9	7.1	-
Redox Potential (ORP)	-	-125	-166	-135	-165	-228	-135	-	-138	-164	-189	-196	-231	-	-143	-196	-184	-194	-
DO	-	3	4	66	2	1	66	-	2	4	2	4	1	-	4	4	17	3	-
Salinity	-	1.12	1.11	1.08	1.06	1.1	1.08	-	1.47	1.5	1.55	1.47	1.42	-	0.79	0.81	0.8	0.81	-
Electrical Conductivity	1877	2110	1948	2040	1860	1990	2100	2390	2650	2860	2890	2640	2590	1430	1519	1589	1599	1558	1300
Suspended Solids	300	18	40	8	172	24	22	10	18	4	56	83	<0.5	84	2	16	66	122	22
Calcium	219.7	308	335.4	315.2	306	255	322.7	78.9	123	166.2	284.2	135	97	141.8	183	196.4	155.7	222	135
Magnesium	22.5	25	26.1	22.7	22	19	23.4	35.8	53	59.8	99.4	49	37	14.5	19	19.4	15.8	19	15
Sodium	120.4	119	119.1	112.5	107	92	116.1	306.8	382	443.6	730	389	345	128.6	188	170.1	141.8	160	133
Potassium	13.3	8	8.9	7.6	7	5	7.9	10.1	15	15.9	27.8	13	11	6.6	10	8.9	6.7	9	7
Chloride	458	528	508	498	473	464	498	650	728	764	752	734	704	323	317	330	315	321	329
Sulphate	5	3	<5	7	7	<5	<5	2	2	<1	<5	<5	<5	7	9	8	9	8	7
Alkalinity	400	380	360	350	340	420	360	200	320	270	270	230	280	270	310	380	350	420	420
Nitrate	1	<1	<5	<1	<1	<1	<1	<1	<1	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1
Ammonium as NH4	1.62	0.9	0.47	0.42	1.1	0.5	0.58	10.27	4.24	4.1	0.06	4.8	2.7	7	10.6	8.2	10.1	7	2.1
COD	17	<2	7	<2	<2	<2	<2	22	<2	<2	<2	<2	<2	5	<2	<2	<2	<2	<2
BOD	<2	3	<2	<2	2	<2	2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2

Constituents	PZ_14 Campaign 1	PZ_14 Campaign 2	PZ_14 Campaign 3	PZ_14 Campaign 4	PZ_14 Campaign 5	PZ_14 Campaign 6	PZ_16 Campaign 1	PZ_16 Campaign 2	PZ_16 Campaign 3	PZ_16 Campaign 4	PZ_16 Campaign 5	PZ_16 Campaign 6	PZ_16 Dup Campaign 5
pH Value (Lab)	7.4	7.9	7.7	7.5	7.5	7.5	7.8	7.1	6.9	7	6.5	6.6	6.5
pH Value (Field)	-	7.7	7.4	7.6	7.7	6.9	-	7	6.7	6.5	6.5	6.8	-
Redox Potential (ORP)	-	20	-104	-3	28	57	-	-109	-91	-152	-151	-152	-
DO	-	43	48	34	25	58	-	5	2	7	3	2	-
Salinity	-	0.2	0.2	0.2	0.2	0.21	-	1.12	16.04	17.9	17.66	11.67	-
Electrical Conductivity	6390	393	490	424	411	444	540	1997	21600	26100	21300	18710	20200
Suspended Solids	186	14	12	20	8	2	38	14	58	16	134	152	172
Calcium	250.4	41	53.8	43.2	76	49	40.9	125	1153	8925	1066	1147	1035
Magnesium	82.3	7	8	7.5	7	9	6.6	28	466.5	533.8	296	352	265
Sodium	1286	39	37.2	32.5	26	60	34.7	272	4703	5336	3578	3221	2954
Potassium	24.1	4	4.2	3.5	4	5	3.6	10	36.5	38.3	27	32	24
Chloride	1746	41	42	36	28	54	58	440	8504	1270	6844	6382	6599
Sulphate	327	48	56	57	51	57	50	83	981	1197	932	855	850
Alkalinity	800	110	200	130	80	150	140	410	290	360	160	400	210
Nitrate	<1	34	33	29	27	36	27	<1	<1	<1	<1	<1	<1
Ammonium as NH4	0.05	<0.01	<0.1	0.01	0.16	0.07	0.81	9	0.85	3.71	1.2	0.05	1.2
COD	<2	<2	<2	<2	<2	<2	95	26	50	78	<2	120	31
BOD	<2	<2	<2	<2	<2	<2	15	26	5	22	<2	33	<2

ATKINS

Assessment Criteria :	Drinking Water Standard				
CaCO	0.00		0.00	DOC	0.00
Calcium	0.00	DOC	0.00	Catchment area	Freshwater not listed

Constituents	Unit	Generic Assessment Criteria (mg/l)	Number of Samples	Minimum Value	Maximum Value	Number of Exceedences	Locations of Exceedences
pH Value (Lab)	pH Units	No WSV	197	5.7	12.6	0	
pH Value (Field)	pH Units	No WSV	155	5.6	12.6	0	
Redox Potential (ORP)	mV	No WSV	155	-363	145	0	
DO	%	No WSV	155	1	102	0	
Iron	µg/l	0.2	197	10	54370	115	GW1 Dup Campaign 1; GW2 Campaign 1; GW2 Campaign 2; GW2 Campaign 4; GW3 Campaign 2; GW3 Campaign 5; PZ_20 Campaign 5; PZ_19 Campaign 2; PZ_19 Campaign 3; PZ_19 Campaign 4; PZ_19 Campaign 5; PZ_19 Dup Campaign 5; PZ_18 Campaign 1; PZ_18 Campaign 3; PZ_18 Campaign 4; PZ_18 Campaign 5; PZ_18 Dup Campaign 3; GW6D Campaign 1; GW6D Campaign 3; GW6D Campaign 5; GW6D Campaign 6; GW7 Campaign 1; GW7 Campaign 2; GW7 Campaign 3; GW7 Campaign 4; GW7 Campaign 5; GW8 Campaign 1; GW8 Campaign 2; GW8 Campaign 3; GW8 Campaign 4; GW8 Campaign 5; GW8 Campaign 6; GW9S Campaign 1; GW9S Campaign 2; GW9S Campaign 4; GW9S Campaign 5; GW9S Campaign 6; GW9D Campaign 1; GW9D Campaign 2; GW9D Campaign 3; GW9D Campaign 4; GW9D Campaign 5; GW9D Campaign 6; GW10 Campaign 1; GW10 Campaign 2; GW10 Campaign 3; GW10 Campaign 4; GW10 Campaign 5; GW10 Campaign 6; GW10 Dup Campaign 1; GW11D Campaign 3; GW11D Campaign 4; GW11D Campaign 5; GW11D Dup Campaign 4; GW11S Campaign 1; GW11S Campaign 2; GW11S Campaign 3; GW11S Campaign 4; GW11S Campaign 5; GW11S1 Campaign 1; GW11S1 Campaign 2; GW11S1 Campaign 3; GW11S1 Campaign 4;
Boron	µg/l	1	197	5	1402	150	GW1 Campaign 2; GW1 Campaign 3; GW1 Campaign 4; GW1 Campaign 5; GW1 Campaign 6; GW1 Dup Campaign 1; GW1 Dup Campaign 2; GW1 Dup Campaign 6; GW2 Campaign 5; GW2 Campaign 6; GW3 Campaign 2; GW3 Campaign 5; GW3 Campaign 6; PZ_20 Campaign 2; PZ_20 Campaign 4; PZ_20 Campaign 5; PZ_19 Campaign 2; PZ_19 Campaign 4; PZ_19 Campaign 5; PZ_19 Campaign 6; PZ_18 Campaign 1; PZ_18 Campaign 2; PZ_18 Campaign 4; PZ_18 Campaign 5; PZ_18 Campaign 6; PZ_18 Dup Campaign 3; GW6D Campaign 2; GW6D Campaign 4; GW6D Campaign 6; GW7 Campaign 3; GW7 Campaign 4; GW7 Campaign 5; GW7 Campaign 6; GW8 Campaign 1; GW8 Campaign 2; GW8 Campaign 3; GW8 Campaign 4; GW8 Campaign 5; GW8 Campaign 6; GW9S Campaign 1; GW9S Campaign 2; GW9S Campaign 3; GW9S Campaign 4; GW9S Campaign 5; GW9S Campaign 6; GW9D Campaign 1; GW9D Campaign 2; GW9D Campaign 3; GW9D Campaign 4; GW9D Campaign 5; GW9D Campaign 6; GW10 Campaign 1; GW10 Campaign 2; GW10 Campaign 3; GW10 Campaign 4; GW10 Campaign 5; GW10 Campaign 6; GW10 Dup Campaign 1; GW11D Campaign 6; GW11D Dup Campaign 4; GW11S Campaign 2; GW11S Campaign 3; GW11S Campaign 4; GW11S Campaign 5; GW11S Campaign 6; GW11S1 Campaign
Arsenic	µg/l	0.01	197	5	77	43	PZ_18 Campaign 1; PZ_18 Campaign 2; PZ_18 Campaign 3; PZ_18 Campaign 4; PZ_18 Campaign 5; PZ_18 Campaign 6; PZ_18 Dup Campaign 3; GW7 Campaign 1; GW7 Campaign 2; GW7 Campaign 3; GW7 Campaign 4; GW7 Campaign 5; GW7 Campaign 6; GW8 Campaign 1; GW8 Campaign 2; GW8 Campaign 3; GW8 Campaign 4; GW8 Campaign 5; GW8 Campaign 6; GW9S Campaign 6; GW9D Campaign 6; GW10 Campaign 2; GW10 Campaign 3; GW10 Campaign 6; GW11D Campaign 4; GW11D Campaign 6; GW11D Dup Campaign 4; GW11S Campaign 2; GW11S Campaign 5; GW11S1 Campaign 2; GW11S1 Campaign 4; GW11S1 Campaign 5; GW11S1 Campaign 6; GW15 Campaign 1; GW15 Campaign 2; GW15 Campaign 3; GW15 Campaign 4; GW15 Campaign 5; GW24S Campaign 1; GW24S Campaign 3; GW24S Campaign 4; PZ_14 Campaign 1; PZ_16 Campaign 2
Chromium	µg/l	0.05	197	<5	7	1	PZ_14 Campaign 1
Lead	µg/l	0.01	197	1	6	10	GW1 Dup Campaign 1; GW2 Campaign 1; GW3 Campaign 2; GW6D Campaign 6; GW10 Campaign 2; GW11S Campaign 2; GW23 Campaign 2; GW23 Dup Campaign 2; PZ_6 Campaign 2; PZ_16 Campaign 2
Nickel	µg/l	0.02	197	1	99	151	GW1 Campaign 2; GW1 Campaign 3; GW1 Campaign 4; GW1 Campaign 5; GW1 Campaign 6; GW1 Dup Campaign 1; GW1 Dup Campaign 2; GW1 Dup Campaign 6; GW2 Campaign 1; GW2 Campaign 2; GW2 Campaign 3; GW2 Campaign 4; GW2 Campaign 5; GW2 Campaign 6; GW3 Campaign 1; GW3 Campaign 2; GW3 Campaign 3; GW3 Campaign 4; GW3 Campaign 5; GW3 Campaign 6; PZ_20 Campaign 1; PZ_20 Campaign 2; PZ_20 Campaign 4; PZ_20 Campaign 6; PZ_19 Campaign 1; PZ_19 Campaign 2; PZ_19 Campaign 3; PZ_19 Campaign 4; PZ_19 Campaign 5; PZ_19 Campaign 6; PZ_19 Dup Campaign 5; PZ_18 Campaign 1; PZ_18 Campaign 2; PZ_18 Campaign 3; PZ_18 Campaign 4; PZ_18 Campaign 5; PZ_18 Campaign 6; PZ_18 Dup Campaign 3; GW6D Campaign 1; GW6D Campaign 2; GW6D Campaign 3; GW6D Campaign 4; GW6D Campaign 5; GW6D Campaign 6; GW7 Campaign 1; GW7 Campaign 4; GW7 Campaign 6; GW8 Campaign 1; GW8 Campaign 3; GW8 Campaign 5; GW8 Campaign 6; GW9S Campaign 1; GW9S Campaign 2; GW9S Campaign 3; GW9S Campaign 4; GW9S Campaign 5; GW9D Campaign 4; GW10 Campaign 1; GW10 Campaign 2; GW10 Campaign 3; GW10 Campaign 4; GW10 Campaign 5; GW10 Campaign 6; GW10 Dup Campaign 1; GW11D Campaign 1; GW11D Campaign 2;
Copper	µg/l	2	197	5	32	35	GW1 Campaign 2; GW1 Dup Campaign 1; GW1 Dup Campaign 2; GW2 Campaign 1; GW2 Campaign 2; GW3 Campaign 2; PZ_20 Campaign 2; PZ_19 Campaign 2; PZ_18 Campaign 2; GW6D Campaign 2; GW9S Campaign 2; GW9D Campaign 2; GW10 Campaign 2; GW11D Campaign 1; GW11D Campaign 2; GW11D Campaign 3; GW11S Campaign 2; GW11S1 Campaign 2; GW15 Campaign 2; GW15 Campaign 3; GW16D Campaign 2; GW16D Dup Campaign 2; GW20 Campaign 2; GW21 Campaign 2; GW22 Campaign 2; GW23 Campaign 2; GW23 Dup Campaign 2; GW24D Campaign 2; PZ_6 Campaign 2; PZ_14 Campaign 1; PZ_14 Campaign 2; PZ_16 Campaign 2; PZ_16 Campaign 3; PZ_16 Campaign 4; PZ_16 Campaign 5

Constituents	GW21 Campaign 3	GW21 Campaign 4	GW21 Campaign 5	GW21 Campaign 6	GW22 Campaign 1	GW22 Campaign 2	GW22 Campaign 3	GW22 Campaign 4	GW22 Campaign 5	GW22 Campaign 6	GW23 Campaign 1	GW23 Campaign 2	GW23 Campaign 3	GW23 Campaign 4	GW23 Campaign 5	GW23 Campaign 6	GW23 Dup Campaign 2	GW23 Dup Campaign 6
pH Value (Lab)	7.8	6.4	6.1	6.5	7	7	8.1	7	6.3	6.6	7.3	7.1	8.3	7.3	6.9	7.3	7	7.4
pH Value (Field)	5.9	5.9	5.7	6.5	-	6.8	7	6.3	6.1	6.3	-	6.8	6.8	6.3	6.5	6.8	-	-
Redox Potential (ORP)	101	41	79	6	-	53	109	15	62	93	-	-35	61	-13	54	61	-	-
DO	72	65	72	71	-	20	14	64	5	5	-	4	10	11	4	2	-	-
Iron	<10	50	<10	<10	17	12	12	11	<10	<10	<10	<10	21	<10	<10	<10	<10	<10
Boron	10	141	288	21	59	<5	13	151	178	39	539	<5	67	176	183	35	27	23
Arsenic	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chromium	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Lead	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	<1	<1	<1	<1	1	<1
Nickel	6	3	4	3	2	2	1	2	7	4	<1	2	2	1	2	2	2	2
Copper	<5	<5	<5	<5	<5	17	<5	<5	<5	<5	<5	16	<5	<5	<5	<5	18	<5

Constituents	GW24D Campaign 1	GW24D Campaign 2	GW24D Campaign 3	GW24D Campaign 4	GW24D Campaign 5	GW24D Campaign 6	GW24D Dup Campaign 4	GW24S Campaign 1	GW24S Campaign 2	GW24S Campaign 3	GW24S Campaign 4	GW24S Campaign 5	GW24S Campaign 6	PZ_6 Campaign 1	PZ_6 Campaign 2	PZ_6 Campaign 3	PZ_6 Campaign 4	PZ_6 Campaign 5	PZ_6 Campaign 6
pH Value (Lab)	7.3	8.4	7.2	6.7	7.3	7	6.7	7.2	8.2	7.2	7.5	7.5	7.2	7	7.1	7.1	7.2	6.9	6.9
pH Value (Field)	-	7.3	7	6.9	6.7	7.5	6.9	-	7.4	7.1	6.9	7.1	7.5	-	7.2	7.3	6.9	7.1	-
Redox Potential (ORP)	-	-125	-166	-135	-165	-228	-135	-	-138	-164	-189	-196	-231	-	-143	-196	-184	-194	-
DO	-	3	4	66	2	1	66	-	2	4	2	4	1	-	4	4	17	3	-
Iron	60	17	53	11	6009	<10	<10	29	11	3500	566	10	<10	<10	<10	9693	36	317	9101
Boron	<5	67	63	38	<5	114	42	94	<5	102	103	14	51	36	115	27	82	<5	59
Arsenic	<5	<5	<5	<5	<5	<5	<5	6	<5	12	5	<5	<5	<5	<5	<5	<5	<5	<5
Chromium	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Lead	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2	<1	<1	<1	<1
Nickel	3	2	<1	2	2	2	2	2	2	2	2	2	2	<1	4	<1	<1	<1	<1
Copper	<5	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	13	<5	<5	<5	<5

Constituents	PZ_14 Campaign 1	PZ_14 Campaign 2	PZ_14 Campaign 3	PZ_14 Campaign 4	PZ_14 Campaign 5	PZ_14 Campaign 6	PZ_16 Campaign 1	PZ_16 Campaign 2	PZ_16 Campaign 3	PZ_16 Campaign 4	PZ_16 Campaign 5	PZ_16 Campaign 6	PZ_16 Dup Campaign 5	
pH Value (Lab)	7.4	7.9	7.7	7.5	7.5	7.5	7.8	7.1	6.9	7	6.5	6.6	6.5	
pH Value (Field)	-	7.7	7.4	7.6	7.7	6.9	-	7	6.7	6.5	6.5	6.8	-	
Redox Potential (ORP)	-	20	-104	-3	28	57	-	-109	-91	-152	-151	-152	-	
DO	-	43	48	34	25	58	-	5	2	7	3	2	-	
Iron	9417	<10	13	<10	<10	<10	<10	3470	21910	18640	<10	10800	85	
Boron	439	<5	<5	49	<5	30	32	127	417	667	<5	106	<5	
Arsenic	6	<5	<5	<5	<5	<5	<5	9	<5	<5	<5	<5	<5	
Chromium	7	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
Lead	<1	<1	<1	<1	<1	<1	<1	2	<1	<1	<1	<1	<1	
Nickel	12	<1	<1	<1	<1	3	<1	2	5	5	2	6	2	
Copper	32	9	<5	<5	<5	<5	<5	6	8	8	7	<5	<5	

Assessment Criteria : *Drinking Water Standard*

CaCO 0.00 | 0.00 | DOC 0.00

Calcium 0.00 | DOC 0.00 | Catchment area | Freshwater not listed

Constituents	Unit	Generic Assessment Criteria (mg/l)	Number of Samples	Minimum Value	Maximum Value	Number of Exceedences	Locations of Exceedences	GW21 Campaign 3	GW21 Campaign 4	GW21 Campaign 5	GW21 Campaign 6	GW22 Campaign 1	GW22 Campaign 2	GW22 Campaign 3	GW22 Campaign 4	GW22 Campaign 5	GW22 Campaign 6	GW23 Campaign 1	GW23 Campaign 2	GW23 Campaign 3	GW23 Campaign 4	GW23 Campaign 5	GW23 Campaign 6	GW23 Dup Campaign 2	GW23 Dup Campaign 6	GW24D Campaign 1	GW24D Campaign 2	GW24D Campaign 3	GW24D Campaign 4	GW24D Campaign 5	GW24D Campaign 6	GW24D Dup Campaign 4	GW24S Campaign 1	GW24S Campaign 2	GW24S Campaign 3	GW24S Campaign 4	GW24S Campaign 5	GW24S Campaign 6	PZ_6 Campaign 1	PZ_6 Campaign 2	PZ_6 Campaign 3	PZ_6 Campaign 4	PZ_6 Campaign 5	PZ_6 Campaign 6	PZ_14 Campaign 1	PZ_14 Campaign 2	PZ_14 Campaign 3	PZ_14 Campaign 4	PZ_14 Campaign 5	PZ_14 Campaign 6	PZ_16 Campaign 1	PZ_16 Campaign 2	PZ_16 Campaign 3	PZ_16 Campaign 4	PZ_16 Campaign 5	PZ_16 Campaign 6	PZ_16 Dup Campaign 5
pH Value (Lab)	pH Units	No WSV	197	5.7	12.6	0		7.8	6.4	6.1	6.5	7	7	8.1	7	6.3	6.6	7.3	7.1	8.3	7.3	6.9	7.3	7	7.4	7.3	8.4	7.2	6.7	7.3	7	6.7	7.2	8.2	7.2	7.5	7.5	7.2	7	7.1	7.1	7.2	6.9	6.9	7.4	7.9	7.7	7.5	7.5	7.5	7.8	7.1	6.9	7	6.5	6.6	6.5
pH Value (Field)	pH Units	No WSV	155	5.6	12.6	0		5.9	5.9	5.7	6.5	-	6.8	7	6.3	6.1	6.3	-	6.8	6.8	6.3	6.5	6.8	-	-	-	7.3	7	6.9	6.7	7.5	6.9	-	7.4	7.1	6.9	7.1	7.5	-	7.2	7.3	6.9	7.1	-	-	7.7	7.4	7.6	7.7	6.9	-	7	6.7	6.5	6.5	6.8	-
Redox Potential (ORP)	mV	No WSV	155	-363	145	0		101	41	79	6	-	53	109	15	62	93	-	-35	61	-13	54	61	-	-	-	-125	-166	-135	-165	-228	-135	-	-138	-164	-189	-196	-231	-	-143	-196	-184	-194	-	-	20	-104	-3	28	57	-	-109	-91	-152	-151	-152	-
DO	%	No WSV	155	1	102	0		72	65	72	71	-	20	14	64	5	5	-	4	10	11	4	2	-	-	-	3	4	66	2	1	66	-	2	4	2	4	1	-	4	4	17	3	-	-	43	48	34	25	58	-	5	2	7	3	2	-
Zinc	µg/l	3	197	5	1234	188	GW1 Campaign 2; GW1 Campaign 3; GW1 Campaign 4; GW1 Campaign 5; GW1 Campaign 6; GW1 Dup Campaign 1; GW1 Dup Campaign 2; GW1 Dup Campaign 6; GW2 Campaign 1; GW2 Campaign 2; GW2 Campaign 3; GW2 Campaign 4; GW2 Campaign 5; GW2 Campaign 6; GW3 Campaign 1; GW3 Campaign 2; GW3 Campaign 3; GW3 Campaign 4; GW3 Campaign 5; GW3 Campaign 6; PZ_20 Campaign 1; PZ_20 Campaign 2; PZ_20 Campaign 3; PZ_20 Campaign 4; PZ_20 Campaign 5; PZ_20 Campaign 6; PZ_19 Campaign 1; PZ_19 Campaign 2; PZ_19 Campaign 3; PZ_19 Campaign 4; PZ_19 Campaign 5; PZ_19 Campaign 6; PZ_19 Dup Campaign 5; PZ_18 Campaign 1; PZ_18 Campaign 2; PZ_18 Campaign 3; PZ_18 Campaign 4; PZ_18 Campaign 5; PZ_18 Dup Campaign 3; GW6D Campaign 1; GW6D Campaign 2; GW6D Campaign 3; GW6D Campaign 4; GW6D Campaign 5; GW6D Campaign 6; GW7 Campaign 1; GW7 Campaign 2; GW7 Campaign 3; GW7 Campaign 4; GW7 Campaign 5; GW7 Campaign 6; GW8 Campaign 1; GW8 Campaign 2; GW8 Campaign 3; GW8 Campaign 4; GW8 Campaign 5; GW8 Campaign 6; GW9S Campaign 1; GW9S Campaign 2; GW9S Campaign 3; GW9S Campaign 4; GW9S Campaign 5; GW9S Campaign 6; GW9D Campaign 1; GW9D	238	76	79	28	13	20	28	22	67	30	8	21	84	15	10	13	24	11	6	81	13	18	16	32	18	<5	329	21	18	16	11	1234	68	14	14	16	<5	90	25	12	17	9	33	67	15	61	99	44	83	53
Cadmium	µg/l	0.005	197	<1	9	6	GW3 Campaign 1; PZ_20 Campaign 6; PZ_18 Campaign 2; GW6D Campaign 2; GW9S Campaign 3; GW12 Campaign 3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Mercury	µg/l	0.001	197	0.1	2.5	14	PZ_20 Campaign 3; PZ_19 Campaign 3; GW6D Campaign 6; GW11D Campaign 2; GW11D Campaign 3; GW11D Campaign 4; GW11D Dup Campaign 4; GW16D Campaign 6; GW17 Campaign 6; PZ_21 Campaign 5; PZ_21 Campaign 6; GW20 Campaign 2; PZ_14 Campaign 1; PZ_16 Campaign 1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.5	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Phenols	µg/l	No WSV	197	0.5	<0.5	0		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Petroleum Hydrocarbons	µg/l	No WSV	197	<10	2233	0		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	92	<10	<10	91	<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
Free Cyanide	µg/l	See Cyanide (total)	197	5	21.1	0		<5	<5	18.2	<5	<5	<5	<5	<5	21.1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene	µg/l	See BaP	197	<0.01	13.49	0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.53	<0.01	<0.01	<0.01	<0.01	0.56	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.6	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.6	<0.01
Acenaphthylene	µg/l	See BaP	197	0.01	0.12	0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Acenaphthene	µg/l	See BaP	197	0.01	3.76	0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01
Fluorene	µg/l	See BaP	197	<0.01	1.34	0		<0.01	<0.01	<0.01	0.04	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.13	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.13	<0.01
Phenanthrene	µg/l	See BaP	197	<0.01	1	0		<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.13	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.13	<0.01
Anthracene	µg/l	See BaP	197	0.01	0.1	0		<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Fluoranthene	µg/l	See BaP	197	<0.01	0.21	0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Pyrene	µg/l	See BaP	197	<0.01	0.19	0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benz(a)anthracene	µg/l	No WSV	197	<0.01	0.12	0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chrysene	µg/l	See BaP	197	<0.01	0.12	0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b)fluoranthene	µg/l	See PAH Sum of 4	197	<0.01	0.13	0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(k)fluoranthene	µg/l	See PAH Sum of 4	197	<0.01	0.16	0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(a)pyrene	µg/l	0.00001	197	<0.01	0.16	1	GW6D Campaign 4	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Indeno(123-cd)pyrene	µg/l	See PAH Sum of 4	197	0.01	<0.01	0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(ghi)perylene	µg/l	See PAH Sum of 4	197	0.01	<0.01	0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Dibenz(ah)anthracene	µg/l	See BaP	197	0.01	<0.01	0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Total PAH	µg/l	No WSV	197	<0.01	19.89	0		<0.01	<0.01	<0.01	0.08	<0.01	<0.01	<0.01	<0.01	<0.01	0.04	<0.01	0.53	<0.01	<0.01	<0.01	<0.01	0.56	0.07	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.87	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.87	<0.01
Benzene	µg/l	0.001	197	<0.01	<1	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	µg/l	0.7	197	<0.01	1	1	PZ_16 Campaign 3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	<1	<1	<1	<1
Ethylbenzene	µg/l	0.3	197	<0.01	<1	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
m&p-Xylene	µg/l	No WSV	197	<0.01	<1	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
o-Xylene	µg/l	0.5	197	<0.01	<1	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Styrene	µg/l	0.02	197	<0.01	<1	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Propylbenzene	µg/l	No WSV	197	<0.01	<1	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylethylbenzene	µg/l	No WSV	197	<0.01	<1	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene	µg/l	No WSV	197	<0.01	<1	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene	µg/l	No WSV	197	<0.01	<1	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
tert-Butylbenzene	µg/l	No WSV	197	<0.01	1	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1-methylpropylbenzene	µg/l	No WSV	197	<0.01	<1	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	µg/l	0.0005	197	<0.01	<1	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis 1,2-Dichloroethene	µg/l	No WSV	197	<0.01	137	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	µg/l	No WSV	197	<0.01	<1	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	µg/l	See Trihalomethanes	197	<0.01	4	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbontetrachloride	µg/l	No WSV	197	<0.01	<1	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	µg/l	2	197	<0.01	3	1	PZ_14 Campaign 6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2	<1	3	<1	<1	<1	<1	<1	<1	<1
Trichloroethylene	µg/l	0.01 (sum of TCE & PCE)	197	<0.01	<1	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	µg/l	0.01 (sum of TCE & PCE)	197	<0.01	31	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane	µg/l	No WSV	197	<0.01	<1	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	µg/l	No WSV	197	<0.01	<1	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	µg/l	No WSV	197	<0.01	1	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloro-1-Propene	µg/l	No WSV	197	<0.01	<1	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	µg/l	0.003	197	<0.01	132	1	GW20 Campaign 6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2,2-Dichloropropane	µg/l	No WSV	197	<0.01	2	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans 1,2-Dichloroethene	µg/l	No WSV	197	<0.01	<1	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	µg/l	No WSV	197	<0.01	1	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	µg/l	0.04	197	<0.01	<1	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis 1,2-Dichloro-1-Propene	µg/l	No WSV	197	<0.01	<1	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans 1,3-Dichloro-1-Propene	µg/l	No WSV	197	<0.01	3	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	3	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	µg/l	N/A	197	<0.01	<1	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichloropropane	µg/l	No WSV	197	<0.01	<1	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Chlorotoluene	µg/l	No WSV	197	<0.01	<1	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene	µg/l	No WSV	197	<0.01	<1	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-Chlorotoluene	µg/l	No WSV	197	<0.01	<1	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
o-Cymene	µg/l	No WSV	197	<0.01	<1	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	µg/l	No WSV	197	<0.01	<1	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dibromo-3-chloropropane	µg/l	0.001	197	<0.01	<1	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Hexachlorobutadiene	µg/l	0.0006	197	<0.01	1	1	GW11S1 Campaign 6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-Trichlorobenzene	µg/l	No WSV	197	<0.01	<1	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	µg/l	No WSV	197	<0.01	<1	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichlorobenzene	µg/l	No WSV	197	<0.01	<1	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	µg/l	No WSV	197	<0.01	<1	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromochloromethane	µg/l	No WSV	197	<0.01	1	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromethane	µg/l	No WSV	197	<0.01	1	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromobenzene	µg/l	No WSV	197	<0.01	<1	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	µg/l	See Trihalomethanes	197	<0.01	<1	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromochloromethane	µg/l	See Trihalomethanes	197	<0.01	<1	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
PCB28	µg/l	No WSV	197	0.01	<0.01	0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB52	µg/l	No WSV	197	<0.01	0.17	0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.17	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB101	µg/l	No WSV	197	0.01	<0.01	0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB118	µg/l	No WSV	197	0.01	<0.01	0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB138	µg/l	No WSV	197	0.01	<0.01	0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB153	µg/l	No WSV	197	0.01	<0.01	0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB180	µg/l	No WSV	197	0.01	<0.01	0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Total PCB	µg/l	No WSV	197	<0.01	0.17	0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.17	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

ATKINS

Assessment Criteria : *Coastal and Estuarine EQS*

CaCO Calcium 0.00 | **DOC** 0.00 | **DOC** 0.00 | **Catchment area** | **Freshwater not listed**

Constituents	Unit	Generic Assessment Criteria (mg/l)	Number of Samples	Minimum Value	Maximum Value	Number of Exceedences	Locations of Exceedences	Zone	GW1 Campaign 1	GW1 Campaign 2	GW1 Campaign 3	GW1 Campaign 4	GW1 Campaign 5	GW1 Campaign 6	GW1 Dup Campaign 1	GW1 Dup Campaign 2	GW1 Dup Campaign 6	GW2 Campaign 1	GW2 Campaign 2	GW2 Campaign 3	GW2 Campaign 4	GW2 Campaign 5	GW2 Campaign 6	GW3 Campaign 1	GW3 Campaign 2	GW3 Campaign 3	GW3 Campaign 4	GW3 Campaign 5	GW3 Campaign 6	PZ_20 Campaign 1	PZ_20 Campaign 2	PZ_20 Campaign 3	PZ_20 Campaign 4	PZ_20 Campaign 5	PZ_20 Campaign 6	PZ_19 Campaign 1	PZ_19 Campaign 2	PZ_19 Campaign 3	PZ_19 Campaign 4	PZ_19 Campaign 5	PZ_19 Campaign 6	Dup Campaign 5	PZ_18 Campaign 1	PZ_18 Campaign 2	PZ_18 Campaign 3	PZ_18 Campaign 4	PZ_18 Campaign 5	PZ_18 Campaign 6	Dup Campaign 3	GW6D Campaign 1	GW6D Campaign 2
pH Value (Lab)	pH Units	No WSV	197	5.7	12.6	0			6.4	6.3	6.5	6.8	6.8	6.4	6.6	6.4	6.4	6	5.7	5.8	6.2	6.1	5.9	7	6.6	6.6	6.8	6.8	6.5	7.2	6.7	7.1	6.6	6.8	6.5	6.5	6.2	6.3	5.9	6	6.2	5.9	7.4	7.7	7.4	7.4	7.5	8.3	7.5	6.9	6.9
pH Value (Field)	pH Units	No WSV	155	5.6	12.6	0			-	6.2	6.2	6	6.1	6.5	-	-	-	-	5.6	5.6	5.6	5.6	6.1	-	6.4	6.2	5.9	6.5	6.4	-	6.3	6.5	6	6.5	6.2	-	6.3	5.8	6.2	6.6	6.7	6.6	-	7.7	8.8	7.2	-	7.5	-	-	6.7
Redox Potential (ORP)	mV	No WSV	155	-363	145	0			-	-16	-15	32	39	97	-	-	-	-	121	141	70	86	109	-	93	114	61	-35	110	-	101	115	31	23	64	-	50	145	63	73	-66	73	-	-177	-247	-195	-	-206	-	-	-28
DO	%	No WSV	155	1	102	0			-	3	6	4	6	6	-	-	-	-	71	87	67	79	85	-	51	92	74	77	85	-	50	81	44	85	88	-	26	43	66	43	32	43	-	1	4	4	-	1	-	-	5
Salinity	pss	No WSV	155	0	17.9	0			-	0.66	0.69	0.76	0.68	0.71	-	-	-	-	0.31	0.33	0.34	0.34	0.35	-	0.44	0.44	0.45	0.46	0.45	-	0.22	0.23	0.23	0.24	0.24	-	0.13	0.13	0.13	0.16	0.14	0.16	-	0.85	1.73	1.92	-	2.02	-	-	2.57
Electrical Conductivity	µS/cm	No WSV	197	0.49	26100	0			1254	1254	1384	1492	1289	1322	1222	1285	1328	677	661	692	688	688	680	810	869	928	912	888	843	460	464	481	490	503	477	310	265	290	269	281	279	290	1910	2070	2750	3570	3540	3540	2810	4730	4710
Suspended Solids	mg/l	No WSV	197	<0.5	1200	0			10	<5	6	8	6	22	40	6	16	76	<5	12	8	12	14	186	14	12	4	8	24	256	12	<5	10	10	6	14	8	<5	56	24	<5	40	28	20	12	32	6	24	16	20	8
Calcium	mg/l	N/A	197	14	8925	0			178.6	142	210.6	141.8	134	217	180	169.6	164	185	70.2	71	87.7	78.8	104	69	128.5	127	131.1	140.5	159	134	44.6	52	51.7	43.4	95	54	16	21	19.4	14.6	16	26	14	179	199	277.5	740.5	403	349	283.7	596.1	761
Magnesium	mg/l	N/A	197	0.5	533.8	0			18.5	14	19.5	20.2	17	20	17.7	16	21	21.3	22	28.6	24.1	23	27	13	13	12.4	13.1	12	15	14.3	16	16.3	14.2	17	16	4.9	5	6.8	5.1	6	6	6	12.6	6	4.8	7	5	1	4.2	36.2	43
Sodium	mg/l	N/A	197	4	5336	0			91.4	63	95.7	102.8	77	91	88.3	73	89	38.2	25	31	27.2	18	28	31.2	42	32.1	34.6	30	39	16.3	26	23.2	17.9	13	4	33.5	37	47.9	30.3	27	28	27	150.5	170	196.7	431	234	237	197.3	192.5	238
Potassium	mg/l	N/A	197	1	141	0			8.8	5	7.4	8.2	6	7	7.6	6	7	7.1	4	4.5	3.8	4	4	3.7	7	3.7	3.9	4	4	3.9	8	4.3	3.8	4	15	2.7	5	2.7	2.4	3	2	3	17.5	28	38.3	92.6	48	49	38.5	5.1	6
Chloride	mg/l	N/A	197	13	8504	0			116	109	130	132	108	121	116	108	120	53	49	61	52	45	55	83	92	99	87	75	84	45	53	176	56	46	18	31	29	66	31	24	27	24	403	565	803	974	998	1005	803	1245	1259
Sulphate	mg/l	N/A	197	1	1197	0			100	100	114	120	100	110	100	98	107	86	84	94	86	81	84	79	91	103	95	93	102	17	20	27	20	15	51	19	18	28	21	15	18	15	49	10	<5	<5	3	<5	<5	30	19
Alkalinity	mg/l CaCO3	No WSV	197	30	1360	0			430	440	510	530	410	460	420	420	450	100	60	60	40	120	60	160	150	180	150	120	149	60	80	280	120	40	60	30	60	80	70	60	50	40	320	200	60	120	190	140	60	290	250
Nitrate	mg/l	N/A	197	1	214	0			80	96	75	61	80	87	80	94	87	155	174	176	167	176	190	131	152	154	142	138	160	120	133	55	127	128	137	67	70	67	69	74	74	74	<1	<1	<1	<5	<5	<5	<1	<5	<1	<1
Ammonium as NH4	mg/l	Not appropriate, see Unionised Ammonia	197	<0.01	42	0			6.82	9	<0.1	2.1	0.02	4.24	8.47	10.1	4.24	0.06	<0.01	<0.1	<0.1	0.04	0.02	0.03	0.05	<0.1	<0.1	0.03	0.02	<0.01	0.04	0.02	0.02	0.06	0	<0.01	0.03	0.02	0.02	0.03	0	0.03	8.9	15.88	35.6	0.21	31	42	8.1	3.26	0.37
COD	mg/l	No WSV	197	<2	120	0			<2	<2	<2	<2	<2	4	<2	<2	3	<2	<2	<2	<2	28	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	16	<2	<2	<2	<2	<2	<2	27	36	8	22	46	35	5	16	8
BOD	mg/l	No WSV	197	2	33	0			<2	<2	<2	<2	12	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	6	<2	2	17	<2	<2	<2	<2
Iron	µg/l	1	197	10	54370	115	GW1 Dup Campaign 1; GW2 Campaign 1; GW2 Campaign 2; GW2 Campaign 4; GW3 Campaign 2; GW3 Campaign 5; PZ_20 Campaign 5; PZ_19 Campaign 2; PZ_19 Campaign 3; PZ_19 Campaign 4; PZ_19 Campaign 5; PZ_19 Dup Campaign 5; PZ_18 Campaign 1; PZ_18 Campaign 3; PZ_18 Campaign 4; PZ_18 Campaign 5; PZ_18 Dup Campaign 3; GW6D Campaign 1; GW6D Campaign 3; GW6D Campaign 5; GW6D Campaign 6; GW7 Campaign 1; GW7 Campaign 2; GW7 Campaign 3; GW7 Campaign 4; GW7 Campaign 5; GW8 Campaign 1; GW8 Campaign 2; GW8 Campaign 3; GW8 Campaign 4; GW8 Campaign 5; GW8 Campaign 6; GW9S Campaign 1; GW9S Campaign 2; GW9S Campaign 4; GW9S Campaign 5; GW9S Campaign 6; GW9D Campaign 1; GW9D Campaign 2; GW9D Campaign 3; GW9D Campaign 4; GW9D Campaign 5; GW9D Campaign 6; GW10 Campaign 1; GW10 Campaign 2; GW10 Campaign 3; GW10 Campaign 4; GW10 Campaign 5; GW10 Campaign 6; GW10 Dup Campaign 1; GW11D Campaign 3; GW11D Campaign 4; GW11D Campaign 5; GW11D Dup Campaign 4; GW11S Campaign 1; GW11S Campaign 2; GW11S Campaign 3; GW11S Campaign 4; GW11S Campaign 5; GW11S1 Campaign 1; GW11S1 Campaign 2; GW11S1 Campaign 3; GW11S1 Campaign 4; GW11S1 Campaign		28	<10	<10	<10	<10	<10	22	<10	<10	17	21	<10	13	<10	<10	<10	14	<10	<10	35	<10	<10	<10	<10	<10	40	<10	<10	93	96	57	72	<10	68	207	<10	269	681	133	<10	341	86	<10
Boron	µg/l	7	197	5	1402	149	GW1 Campaign 2; GW1 Campaign 3; GW1 Campaign 4; GW1 Campaign 5; GW1 Campaign 6; GW1 Dup Campaign 1; GW1 Dup Campaign 2; GW1 Dup Campaign 6; GW2 Campaign 5; GW2 Campaign 6; GW3 Campaign 2; GW3 Campaign 5; GW3 Campaign 6; PZ_20 Campaign 2; PZ_20 Campaign 4; PZ_20 Campaign 5; PZ_19 Campaign 2; PZ_19 Campaign 4; PZ_19 Campaign 5; PZ_19 Campaign 6; PZ_18 Campaign 1; PZ_18 Campaign 2; PZ_18 Campaign 4; PZ_18 Campaign 5; PZ_18 Campaign 6; PZ_18 Dup Campaign 3; GW6D Campaign 2; GW6D Campaign 4; GW6D Campaign 6; GW7 Campaign 3; GW7 Campaign 4; GW7 Campaign 5; GW7 Campaign 6; GW8 Campaign 1; GW8 Campaign 2; GW8 Campaign 3; GW8 Campaign 4; GW8 Campaign 5; GW8 Campaign 6; GW9S Campaign 1; GW9S Campaign 2; GW9S Campaign 3; GW9S Campaign 4; GW9S Campaign 5; GW9S Campaign 6; GW9D Campaign 1; GW9D Campaign 2; GW9D Campaign 3; GW9D Campaign 4; GW9D Campaign 5; GW9D Campaign 6; GW10 Campaign 1; GW10 Campaign 2; GW10 Campaign 3; GW10 Campaign 4; GW10 Campaign 5; GW10 Campaign 6; GW10 Dup Campaign 1; GW11D Campaign 6; GW11D Dup Campaign 4; GW11S Campaign 2; GW11S Campaign 3; GW11S Campaign 4; GW11S Campaign		214	233	403	479	543	496	292	360	343	<5	<5	<5	<5	142	25	<5	79	<5	<5	233	76	<5	38	<5	38	178	<5	<5	77	<5	80	16	55	<5	9	44	<5	43	52	17	16	<5	32
Arsenic	µg/l	0.025	197	5	77	43	PZ_18 Campaign 1; PZ_18 Campaign 2; PZ_18 Campaign 3; PZ_18 Campaign 4; PZ_18 Campaign 5; PZ_18 Campaign 6; PZ_18 Dup Campaign 3; GW7 Campaign 1; GW7 Campaign 2; GW7 Campaign 3; GW7 Campaign 4; GW7 Campaign 5; GW7 Campaign 6; GW8 Campaign 1; GW8 Campaign 2; GW8 Campaign 3; GW8 Campaign 4; GW8 Campaign 5; GW8 Campaign 6; GW9S Campaign 1; GW9D Campaign 6; GW10 Campaign 2; GW10 Campaign 3; GW10 Campaign 6; GW11D Campaign 4; GW11D Campaign 6; GW11D Dup Campaign 4; GW11S Campaign 2; GW11S Campaign 5; GW11S1 Campaign 2; GW11S1 Campaign 4; GW11S1 Campaign 5; GW11S1 Campaign 6; GW15 Campaign 1; GW15 Campaign 2; GW15 Campaign 3; GW15 Campaign 4; GW15 Campaign 5; GW24S Campaign 1; GW24S Campaign 3; GW24S Campaign 4; PZ_14 Campaign 1; PZ_16 Campaign 2		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	11	17	18	18	18	17	17	<5	<5
Chromium	µg/l	0.0006	197	<5	7	1			<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Lead	µg/l	0.0013	197	1	6	10	GW1 Dup Campaign 1; GW2 Campaign 1; GW3 Campaign 2; GW6D Campaign 6; GW10 Campaign 2; GW11S Campaign 2; GW23 Campaign 2; GW23 Campaign 2; PZ_6 Campaign 2; PZ_16 Campaign 2		8	<1	<1	<1	<1	<1	6	<1	<1	4	<1	<1	<1	<1	<1	<1	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Nickel	µg/l	0.0086	197	1	99	151	GW1 Campaign 2; GW1 Campaign 3; GW1 Campaign 4; GW1 Campaign 5; GW1 Campaign 6; GW1 Dup Campaign 1; GW1 Dup Campaign 2; GW1 Dup Campaign 6; GW2 Campaign 1; GW2 Campaign 2; GW2 Campaign 3; GW2 Campaign 4; GW2 Campaign 5; GW2 Campaign 6; GW3 Campaign 1; GW3 Campaign 2; GW3 Campaign 3; GW3 Campaign 4; GW3 Campaign 5; GW3 Campaign 6; PZ_20 Campaign 1; PZ_20 Campaign 2; PZ_20 Campaign 4; PZ_20 Campaign 6; PZ_19 Campaign 1; PZ_19 Campaign 2; PZ_19 Campaign 3; PZ_19 Campaign 4; PZ_19 Campaign 5; PZ_19 Campaign 6; PZ_19 Dup Campaign 5; PZ_18 Campaign 1; PZ_18 Campaign 2; PZ_18 Campaign 3; PZ_18 Campaign 4; PZ_18 Campaign 5; PZ_18 Campaign 6; PZ_18 Dup Campaign 3; GW6D Campaign 1; GW6D Campaign 2; GW6D Campaign 3; GW6D Campaign 4; GW6D Campaign 5; GW6D Campaign 6; GW7 Campaign 1; GW7 Campaign 4; GW7 Campaign 6; GW8 Campaign 1; GW8 Campaign 3; GW8 Campaign 5; GW8 Campaign 6; GW9S Campaign 1; GW9S Campaign 2; GW9S Campaign 3; GW9S Campaign 4; GW9S Campaign 5; GW9D Campaign 4; GW10 Campaign 1; GW10 Campaign 2; GW10 Campaign 3; GW10 Campaign 4; GW10 Campaign 5; GW10 Campaign 6; GW10 Dup Campaign 1;		8	4	3	4	3	3	8	4	3	15	15	11	12	12	7	3	6	2	2	1	4	2	4	<1	3	<1	4	6	8	3	4	10	4	10	4	5	6	6	7	6	6	5	6

ATKINS

Assessment Criteria : Coastal and Estuarine EQS

CaCO 0.00 | 0.00 | DOC 0.00

Calcium 0.00 | DOC 0.00 | Catchment area: Freshwater not listed

Constituents	Unit	Generic Assessment Criteria (mg/l)	Number of Samples	Minimum Value	Maximum Value	Number of Exceedences	Locations of Exceedences	Zone
pH Value (Lab)	pH Units	No WSV	197	5.7	12.6	0		
pH Value (Field)	pH Units	No WSV	155	5.6	12.6	0		
Redox Potential (ORP)	mV	No WSV	155	-363	145	0		
DO	%	No WSV	155	1	102	0		
Copper	µg/l	0.00376	197	5	32	35	GW1 Campaign 2; GW1 Dup Campaign 1; GW1 Dup Campaign 2; GW2 Campaign 1; GW2 Campaign 2; GW3 Campaign 2; PZ_20 Campaign 2; PZ_19 Campaign 2; PZ_18 Campaign 2; GW6D Campaign 2; GW9S Campaign 2; GW9D Campaign 2; GW10 Campaign 2; GW11D Campaign 1; GW11D Campaign 2; GW11D Campaign 3; GW11S Campaign 2; GW11S1 Campaign 2; GW15 Campaign 2; GW15 Campaign 3; GW16D Campaign 2; GW16D Dup Campaign 2; GW20 Campaign 2; GW21 Campaign 2; GW22 Campaign 2; GW23 Campaign 2; GW23 Dup Campaign 2; GW24D Campaign 2; PZ_6 Campaign 2; PZ_14 Campaign 1; PZ_14 Campaign 2; PZ_16 Campaign 2; PZ_16 Campaign 3; PZ_16 Campaign 4; PZ_16 Campaign 5	
Zinc	µg/l	0.0068	197	5	1234	188	GW1 Campaign 2; GW1 Campaign 3; GW1 Campaign 4; GW1 Campaign 5; GW1 Campaign 6; GW1 Dup Campaign 1; GW1 Dup Campaign 2; GW1 Dup Campaign 6; GW2 Campaign 1; GW2 Campaign 2; GW2 Campaign 3; GW2 Campaign 4; GW2 Campaign 5; GW2 Campaign 6; GW3 Campaign 1; GW3 Campaign 2; GW3 Campaign 3; GW3 Campaign 4; GW3 Campaign 5; GW3 Campaign 6; PZ_20 Campaign 1; PZ_20 Campaign 2; PZ_20 Campaign 3; PZ_20 Campaign 4; PZ_20 Campaign 5; PZ_20 Campaign 6; PZ_19 Campaign 1; PZ_19 Campaign 2; PZ_19 Campaign 3; PZ_19 Campaign 4; PZ_19 Campaign 5; PZ_19 Campaign 6; PZ_19 Dup Campaign 5; PZ_18 Campaign 1; PZ_18 Campaign 2; PZ_18 Campaign 3; PZ_18 Campaign 4; PZ_18 Campaign 5; PZ_18 Dup Campaign 3; GW6D Campaign 1; GW6D Campaign 2; GW6D Campaign 3; GW6D Campaign 4; GW6D Campaign 5; GW6D Campaign 6; GW7 Campaign 1; GW7 Campaign 2; GW7 Campaign 3; GW7 Campaign 4; GW7 Campaign 5; GW7 Campaign 6; GW8 Campaign 1; GW8 Campaign 2; GW8 Campaign 3; GW8 Campaign 4; GW8 Campaign 5; GW8 Campaign 6; GW9S Campaign 1; GW9S Campaign 2; GW9S Campaign 3; GW9S Campaign 4; GW9S Campaign 5; GW9S Campaign 6; GW9D Campaign 1; GW9D Campaign 2; GW9D Campaign 3; GW9D	
Cadmium	µg/l	0.0002	197	<1	9	6	GW3 Campaign 1; PZ_20 Campaign 6; PZ_18 Campaign 2; GW6D Campaign 2; GW9S Campaign 3; GW12 Campaign 3	
Mercury	µg/l	0.00007	197	0.1	2.5	14	PZ_20 Campaign 3; PZ_19 Campaign 3; GW6D Campaign 6; GW11D Campaign 2; GW11D Campaign 3; GW11D Campaign 4; GW11D Dup Campaign 4; GW16D Campaign 6; GW17 Campaign 6; PZ_21 Campaign 5; PZ_21 Campaign 6; GW20 Campaign 2; PZ_14 Campaign 1; PZ_16 Campaign 1	
Total Phenols	µg/l	No WSV	197	0.5	<0.5	0		
Total Petroleum Hydrocarbons	µg/l	No WSV	197	<10	2233	0		
Free Cyanide	µg/l	0.001	197	5	21.1	6	PZ_20 Campaign 6; PZ_19 Campaign 6; GW20 Campaign 4; GW20 Campaign 5; GW21 Campaign 5; GW22 Campaign 5	
Naphthalene	µg/l	0.002	197	<0.01	13.49	25	GW1 Campaign 5; GW6D Campaign 4; GW8 Campaign 2; GW9S Campaign 2; GW9S Campaign 5; GW9S Campaign 6; GW9D Campaign 2; GW9D Campaign 5; GW9D Campaign 6; GW10 Campaign 1; GW10 Campaign 2; GW10 Campaign 4; GW10 Dup Campaign 1; GW11D Campaign 6; GW12 Campaign 2; GW12 Campaign 5; GW12 Campaign 6; GW13 Campaign 6; GW15 Campaign 4; PZ_21 Campaign 6; GW20 Campaign 2; GW23 Campaign 2; GW23 Dup Campaign 2; PZ_6 Campaign 6; PZ_16 Campaign 6	
Acenaphthylene	µg/l	N/A	197	0.01	0.12	0		
Acenaphthene	µg/l	N/A	197	0.01	3.76	0		
Fluorene	µg/l	N/A	197	<0.01	1.34	0		
Phenanthrene	µg/l	See BaP	197	<0.01	1	0		
Anthracene	µg/l	0.0001	197	0.01	0.1	18	GW1 Campaign 2; GW1 Campaign 6; GW1 Dup Campaign 6; GW2 Campaign 6; GW6D Campaign 4; GW6D Campaign 6; GW7 Campaign 2; GW8 Campaign 2; GW9S Campaign 6; GW9D Campaign 2; GW9D Campaign 6; GW10 Campaign 2; GW10 Campaign 6; GW11D Campaign 6; GW12 Campaign 6; PZ_21 Campaign 6; GW20 Campaign 6; GW21 Campaign 6	
Fluoranthene	µg/l	0.0000063	197	<0.01	0.21	10	GW1 Campaign 2; GW6D Campaign 4; GW6D Campaign 6; GW7 Campaign 2; GW8 Campaign 2; GW10 Campaign 2; GW11D Campaign 1; GW11D Campaign 6; PZ_21 Campaign 6; GW20 Campaign 6	
Pyrene	µg/l	N/A	197	<0.01	0.19	0		
Benz(a)anthracene	µg/l	No WSV	197	<0.01	0.12	0		
Chrysene	µg/l	See BaP	197	<0.01	0.12	0		
Benzo(b)fluoranthene	µg/l	0.000017	197	<0.01	0.13	1	GW6D Campaign 4	
Benzo(k)fluoranthene	µg/l	0.000017	197	<0.01	0.16	1	GW6D Campaign 4	
Benzo(a)pyrene	µg/l	0.00000017	197	<0.01	0.16	1	GW6D Campaign 4	
Indeno(123-cd)pyrene	µg/l	N/A	197	0.01	<0.01	0		
Benzo(ghi)perylene	µg/l	0.00000082	197	0.01	<0.01	0		
Dibenz(ah)anthracene	µg/l	N/A	197	0.01	<0.01	0		
Total PAH	µg/l	No WSV	197	<0.01	19.89	0		
Benzene	µg/l	0.008	197	<0.01	<1	0		
Toluene	µg/l	0.074	197	<0.01	1	1	PZ_16 Campaign 3	
Ethylbenzene	µg/l	0.02	197	<0.01	<1	0		
m&p-Xylene	µg/l	No WSV	197	<0.01	<1	0		
o-Xylene	µg/l	0.03	197	<0.01	<1	0		
Styrene	µg/l	0.05	197	<0.01	<1	0		
Propylbenzene	µg/l	No WSV	197	<0.01	<1	0		
Methylethylbenzene	µg/l	No WSV	197	<0.01	<1	0		
sec-Butylbenzene	µg/l	No WSV	197	<0.01	<1	0		
1,3,5-Trimethylbenzene	µg/l	No WSV	197	<0.01	<1	0		
tert-Butylbenzene	µg/l	No WSV	197	<0.01	1	0		
1-methylpropylbenzene	µg/l	No WSV	197	<0.01	<1	0		
Vinyl Chloride	µg/l	N/A	197	<0.01	<1	0		
cis 1,2-Dichloroethene	µg/l	No WSV	197	<0.01	137	0		
1,1-Dichloroethane	µg/l	No WSV	197	<0.01	<1	0		
Chloroform	µg/l	See Trihalomethanes	197	<0.01	4	0		
Carbontetrachloride	µg/l	No WSV	197	<0.01	<1	0		
1,1,1-Trichloroethane	µg/l	0.1	197	<0.01	3	2	PZ_14 Campaign 4; PZ_14 Campaign 6	
Trichloroethylene	µg/l	0.01	197	<0.01	<1	0		
Tetrachloroethylene	µg/l	0.01	197	<0.01	31	1	GW20 Campaign 6	
1,1,1,2-Tetrachloroethane	µg/l	No WSV	197	<0.01	<1	0		
1,1,2,2-Tetrachloroethane	µg/l	No WSV	197	<0.01	<1	0		
Chlorobenzene	µg/l	No WSV	197	<0.01	1	0		
1,1-Dichloro-1-Propene	µg/l	No WSV	197	<0.01	<1	0		
1,2-Dichloroethane	µg/l	0.01	197	<0.01	132	1	GW20 Campaign 6	
2,2-Dichloropropane	µg/l	No WSV	197	<0.01	2	0		
trans 1,2-Dichloroethene	µg/l	No WSV	197	<0.01	<1	0		
Dibromomethane	µg/l	No WSV	197	<0.01	1	0		
1,2-Dichloropropane	µg/l	N/A	197	<0.01	<1	0		
cis 1,2-Dichloro-1-Propene	µg/l	No WSV	197	<0.01	<1	0		
trans 1,3-Dichloro-1-Propene	µg/l	No WSV	197	<0.01	3	0		
1,1,2-Trichloroethane	µg/l	0.3	197	<0.01	<1	0		
1,3-Dichloropropane	µg/l	No WSV	197	<0.01	<1	0		
2-Chlorotoluene	µg/l	No WSV	197	<0.01	<1	0		
1,2,4-Trimethylbenzene	µg/l	No WSV	197	<0.01	<1	0		
4-Chlorotoluene	µg/l	No WSV	197	<0.01	<1	0		

Constituents	GW1 Campaign 1	GW1 Campaign 2	GW1 Campaign 3	GW1 Campaign 4	GW1 Campaign 5	GW1 Campaign 6	GW1 Dup Campaign 1	GW1 Dup Campaign 2	GW1 Dup Campaign 6	GW2 Campaign 1	GW2 Campaign 2	GW2 Campaign 3	GW2 Campaign 4	GW2 Campaign 5	GW2 Campaign 6
pH Value (Lab)	6.4	6.3	6.5	6.8	6.8	6.4	6.6	6.4	6.4	6	5.7	5.8	6.2	6.1	5.9
pH Value (Field)	-	6.2	6.2	6	6.1	6.5	-	-	-	-	5.6	5.6	5.6	5.6	6.1
Redox Potential (ORP)	-	-16	-15	32	39	97	-	-	-	-	121	141	70	86	109
DO	-	3	6	4	6	6	-	-	-	-	71	87	67	79	85
Copper	18	6	<5	<5	<5	<5	17	5	<5	18	7	<5	<5	<5	<5
Zinc	72	18	50	8	47	27	73	15	29	91	26	45	102	119	30
Cadmium	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Mercury	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Phenols	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Petroleum Hydrocarbons	<10	82	<10	<10	688	<10	<10	121	<10	<10	<10	<10	<10	<10	<10
Free Cyanide	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Acenaphthylene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.03
Acenaphthene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Fluorene	<0.01	<0.01	<0.01	<0.01	<0.01	0.07	<0.01	<0.01	0.04	<0.01	<0.01	<0.01	<0.01	<0.01	0.3
Phenanthrene	<0.01	0.12	<0.01	<0.01	<0.01	0.16	<0.01	<0.01	0.08	<0.01	<0.01	<0.01	<0.01	<0.01	0.62
Anthracene	<0.01	0.03	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02
Fluoranthene	<0.01	0.17	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Pyrene	<0.01	0.19	<0.01	<0.01	<0.01	<0.01	<0.01	0.15	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benz(a)anthracene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chrysene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b)fluoranthene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(k)fluoranthene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(a)pyrene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Indeno(123-cd)pyrene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(ghi)perylene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Dibenz(ah)anthracene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Total PAH	<0.01	0.51	<0.01	<0.01	0.03	0.25	<0.01	0.15	0.13	<0.01	<0.01	<0.01	<0.01	<0.01	0.97
Benzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
m&p-Xylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
o-Xylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Styrene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Propylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
tert-Butylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1-methylpropylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis 1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbontetrachloride	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloro-1-Propene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2,2-Dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans 1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis 1,2-Dichloro-1-Propene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans 1,3-Dichloro-1-Propene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Chlorotoluene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-Chlorotoluene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

Constituents	GW3 Campaign 1	GW3 Campaign 2	GW3 Campaign 3	GW3 Campaign 4	GW3 Campaign 5	GW3 Campaign 6	PZ_20 Campaign 1	PZ_20 Campaign 2	PZ_20 Campaign 3	PZ_20 Campaign 4	PZ_20 Campaign 5	PZ_20 Campaign 6
pH Value (Lab)	7	6.6	6.6	6.8	6.8	6.5	7.2	6.7	7.1	6.6	6.8	6.5
pH Value (Field)	-	6.4	6.2	5.9	6.5	6.4	-	6.3	6.5	6	6.5	6.2
Redox Potential (ORP)	-	93	114	61	-35	110	-	101	115	31	23	64
DO	-	51	92	74	77	85	-	50	81	44	85	88
Copper	<5	12	<5	<5	<5	<5	<5	12	<5	<5	<5	<5
Zinc	8	80	20	62	16	24	7	60	29	65	13	55
Cadmium	3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2
Mercury	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.6	<0.1	<0.1	<0.1
Total Phenols	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Petroleum Hydrocarbons	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Free Cyanide	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	10
Naphthalene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Acenaphthylene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Acenaphthene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Fluorene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Phenanthrene	<0.01	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Anthracene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Fluoranthene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Pyrene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benz(a)anthracene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chrysene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b)fluoranthene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(k)fluoranthene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(a)pyrene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Indeno(123-cd)pyrene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(ghi)perylene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Dibenz(ah)anthracene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Total PAH	<0.01	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
m&p-Xylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
o-Xylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Styrene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Propylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
tert-Butylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1-methylpropylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis 1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbontetrachloride	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloro-1-Propene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2,2-Dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans 1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis 1,2-Dichloro-1-Propene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans 1,3-Dichloro-1-Propene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Chlorotoluene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-Chlorotoluene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

Constituents	PZ_19 Campaign 1	PZ_19 Campaign 2	PZ_19 Campaign 3	PZ_19 Campaign 4	PZ_19 Campaign 5	PZ_19 Campaign 6	PZ_19 Dup Campaign 5	PZ_18 Campaign 1	PZ_18 Campaign 2	PZ_18 Campaign 3	PZ_18 Campaign 4	PZ_18 Campaign 5	PZ_18 Campaign 6	PZ_18 Dup Campaign 3	GW6D Campaign 1	GW6D Campaign 2
pH Value (Lab)	6.5	6.2	6.3	5.9	6	6.2	5.9	7.4	7.7	7.4	7.4	7.5	8.3	7.5	6.9	6.9
pH Value (Field)	-	6.3	5.8	6.2	6.6	6.7	6.6	-	7.7	8.8	7.2	-	7.5	-	-	6.7
Redox Potential (ORP)	-	50	145	63	73	-66	73	-	-177	-247	-195	-	-206	-	-	-28
DO	-	26	43	66	43	32	43	-	1	4	4	-	1	-	-	5
Copper	<5	10	<5	<5	<5	<5	<5	<5	29	<5	<5	<5	<5	<5	<5	12
Zinc	7	124	29	55	26	31	24	9	229	17	17	89	<5	17	11	308
Cadmium	<1	<1	<1	<1	<1	<1	<1	<1	4	<1	<1	<1	<1	<1	<1	9
Mercury	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Phenols	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Petroleum Hydrocarbons	<10	<10	<10	<10	62	<10	29	108	<10	361	<10	<10	<10	219	<10	<10
Free Cyanide	<5	<5	<5	<5	<5	7	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Acenaphthylene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Acenaphthene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Fluorene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Phenanthrene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Anthracene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Fluoranthene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Pyrene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benz(a)anthracene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chrysene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b)fluoranthene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(k)fluoranthene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(a)pyrene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Indeno(123-cd)pyrene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(ghi)perylene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Dibenz(ah)anthracene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Total PAH	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
m&p-Xylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
o-Xylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Styrene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Propylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
tert-Butylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1-methylpropylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis 1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1	<1	<1	1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbontetrachloride	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloro-1-Propene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2,2-Dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans 1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis 1,2-Dichloro-1-Propene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans 1,3-Dichloro-1-Propene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Chlorotoluene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-Chlorotoluene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

ATKINS

Assessment Criteria :	Coastal and Estuarine EQS				
CaCO	0.00		0.00	DOC	0.00
Calcium	0.00	DOC	0.00	Catchment area	Freshwater not listed

Constituents	Unit	Generic Assessment Criteria (mg/l)	Number of Samples	Minimum Value	Maximum Value	Number of Exceedences	Locations of Exceedences	Zone
pH Value (Lab)	pH Units	No WSV	197	5.7	12.6	0		
pH Value (Field)	pH Units	No WSV	155	5.6	12.6	0		
Redox Potential (ORP)	mV	No WSV	155	-363	145	0		
DO	%	No WSV	155	1	102	0		
o-Cymene	µg/l	No WSV	197	<0.01	<1	0		
1,4-Dichlorobenzene	µg/l	No WSV	197	<0.01	<1	0		
1,2-Dibromo-3-chloropropane	µg/l	N/A	197	<0.01	<1	0		
Hexachlorobutadiene	µg/l	0.0006	197	<0.01	1	1	GW11S1 Campaign 6	
1,2,3-Trichlorobenzene	µg/l	No WSV	197	<0.01	<1	0		
1,2,4-Trichlorobenzene	µg/l	No WSV	197	<0.01	<1	0		
1,3-Dichlorobenzene	µg/l	No WSV	197	<0.01	<1	0		
1,2-Dichlorobenzene	µg/l	No WSV	197	<0.01	<1	0		
Bromochloromethane	µg/l	No WSV	197	<0.01	1	0		
Dibromethane	µg/l	No WSV	197	<0.01	1	0		
Bromobenzene	µg/l	No WSV	197	<0.01	<1	0		
Bromodichloromethane	µg/l	N/A	197	<0.01	<1	0		
Dibromochloromethane	µg/l	N/A	197	<0.01	<1	0		
PCB28	µg/l	No WSV	197	0.01	<0.01	0		
PCB52	µg/l	No WSV	197	<0.01	0.17	0		
PCB101	µg/l	No WSV	197	0.01	<0.01	0		
PCB118	µg/l	No WSV	197	0.01	<0.01	0		
PCB138	µg/l	No WSV	197	0.01	<0.01	0		
PCB153	µg/l	No WSV	197	0.01	<0.01	0		
PCB180	µg/l	No WSV	197	0.01	<0.01	0		
Total PCB	µg/l	No WSV	197	<0.01	0.17	0		

Constituents	GW1 Campaign 1	GW1 Campaign 2	GW1 Campaign 3	GW1 Campaign 4	GW1 Campaign 5	GW1 Campaign 6	GW1 Dup Campaign 1	GW1 Dup Campaign 2	GW1 Dup Campaign 6	GW2 Campaign 1	GW2 Campaign 2	GW2 Campaign 3	GW2 Campaign 4	GW2 Campaign 5	GW2 Campaign 6
pH Value (Lab)	6.4	6.3	6.5	6.8	6.8	6.4	6.6	6.4	6.4	6	5.7	5.8	6.2	6.1	5.9
pH Value (Field)	-	6.2	6.2	6	6.1	6.5	-	-	-	-	5.6	5.6	5.6	5.6	6.1
Redox Potential (ORP)	-	-16	-15	32	39	97	-	-	-	-	121	141	70	86	109
DO	-	3	6	4	6	6	-	-	-	-	71	87	67	79	85
o-Cymene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dibromo-3-chloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Hexachlorobutadiene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-Trichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
PCB28	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB52	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB101	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB118	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB138	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB153	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB180	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Total PCB	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

Constituents	GW3 Campaign 1	GW3 Campaign 2	GW3 Campaign 3	GW3 Campaign 4	GW3 Campaign 5	GW3 Campaign 6	PZ_20 Campaign 1	PZ_20 Campaign 2	PZ_20 Campaign 3	PZ_20 Campaign 4	PZ_20 Campaign 5	PZ_20 Campaign 6	PZ_19 Campaign 1	PZ_19 Campaign 2	PZ_19 Campaign 3
pH Value (Lab)	7	6.6	6.6	6.8	6.8	6.5	7.2	6.7	7.1	6.6	6.8	6.5	6.5	6.2	6.3
pH Value (Field)	-	6.4	6.2	5.9	6.5	6.4	-	6.3	6.5	6	6.5	6.2	-	6.3	5.8
Redox Potential (ORP)	-	93	114	61	-35	110	-	101	115	31	23	64	-	50	145
DO	-	51	92	74	77	85	-	50	81	44	85	88	-	26	43
o-Cymene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dibromo-3-chloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Hexachlorobutadiene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-Trichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
PCB28	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB52	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB101	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB118	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB138	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB153	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB180	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Total PCB	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

Constituents	PZ_19 Campaign 4	PZ_19 Campaign 5	PZ_19 Campaign 6	Dup Campaign 5	PZ_18 Campaign 1	PZ_18 Campaign 2	PZ_18 Campaign 3	PZ_18 Campaign 4	PZ_18 Campaign 5	PZ_18 Campaign 6	Dup Campaign 3	GW6D Campaign 1	GW6D Campaign 2
pH Value (Lab)	5.9	6	6.2	5.9	7.4	7.7	7.4	7.4	7.5	8.3	7.5	6.9	6.9
pH Value (Field)	6.2	6.6	6.7	6.6	-	7.7	8.8	7.2	-	7.5	-	-	6.7
Redox Potential (ORP)	63	73	-66	73	-	-177	-247	-195	-	-206	-	-	-28
DO	66	43	32	43	-	1	4	4	-	1	-	-	5
o-Cymene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dibromo-3-chloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Hexachlorobutadiene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-Trichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
PCB28	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB52	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB101	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB118	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB138	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB153	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB180	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Total PCB	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

Assessment Criteria :	Coastal and Estuarine EQS				
CaCO	0.00	0.00	DOC	0.00	
Calcium	0.00	DOC	0.00	Catchment area	Freshwater not listed

Constituents	Unit	Generic Assessment Criteria (mg/l)	Number of Samples	Minimum Value	Maximum Value	Number of Exceedences	Locations of Exceedences	GW6D Campaign 3	GW6D Campaign 4	GW6D Campaign 5	GW6D Campaign 6	GW7 Campaign 1	GW7 Campaign 2	GW7 Campaign 3	GW7 Campaign 4	GW7 Campaign 5	GW7 Campaign 6
pH Value (Lab)	pH Units	No WSV	197	5.7	12.6	0		6.8	7.4	6.7	6.8	7.5	7.9	7.8	8	7.5	7.7
pH Value (Field)	pH Units	No WSV	155	5.6	12.6	0		6.7	6.6	6.7	6.7	-	7.3	7.5	7.8	6.9	7.6
Redox Potential (ORP)	mV	No WSV	155	-363	145	0		-30	-99	-96	-28	-	-151	-176	-221	-98	-167
DO	%	No WSV	155	1	102	0		4	4	1	3	-	2	4	1	2	1
Salinity	pss	No WSV	155	0	17.9	0		2.86	3.05	3.04	4.05	-	0.25	0.23	0.24	0.26	0.26
Electrical Conductivity	µS/cm	No WSV	197	0.49	26100	0		5370	5190	5380	7120	670	490	525	537	615	511
Suspended Solids	mg/l	No WSV	197	<0.5	1200	0		14	<5	1200	134	26	12	4	60	14	2
Calcium	mg/l	N/A	197	14	8925	0		1079	803.7	918	1158	46.6	51	43.9	47.8	74	44
Magnesium	mg/l	N/A	197	0.5	533.8	0		53.8	44.5	49	66	19.1	23	22.8	15.5	17	22
Sodium	mg/l	N/A	197	4	5336	0		299.3	232.1	270	457	59.2	43	33.4	41.4	68	47
Potassium	mg/l	N/A	197	1	141	0		7	5.3	6	9	5.6	6	6.2	6.2	4	7
Chloride	mg/l	N/A	197	13	8504	0		1351	1381	1236	2434	51	34	34	30	35	35
Sulphate	mg/l	N/A	197	1	1197	0		34	51	36	66	43	16	10	13	41	20
Alkalinity	mg/l CaCO3	No WSV	197	30	1360	0		230	230	210	300	260	270	260	310	300	260
Nitrate	mg/l	N/A	197	1	214	0		<1	<1	70	<1	<1	<1	<1	<5	<1	<5
Ammonium as NH4	mg/l	Not appropriate, see Unionised Ammonia	197	<0.01	42	0		<0.1	0.34	0.21	0.03	0.12	0.32	0.03	0.22	<0.01	0.04
COD	mg/l	No WSV	197	<2	120	0		<2	<2	<2	<2	<2	<2	<2	<2	3	<2
BOD	mg/l	No WSV	197	2	33	0		<2	<2	<2	<2	<2	<2	6	<2	<2	#
Iron	µg/l	1	197	10	54370	115	GW1 Dup Campaign 1; GW2 Campaign 1; GW2 Campaign 2; GW2 Campaign 4; GW3 Campaign 2; GW3 Campaign 5; PZ_20 Campaign 5; PZ_19 Campaign 2; PZ_19 Campaign 3; PZ_19 Campaign 4; PZ_19 Campaign 5; PZ_19 Dup Campaign 5; PZ_18 Campaign 1; PZ_18 Campaign 3; PZ_18 Campaign 4; PZ_18 Campaign 5; PZ_18 Dup Campaign 3; GW6D Campaign 1; GW6D Campaign 3; GW6D Campaign 5; GW6D Campaign 6; GW7 Campaign 1; GW7 Campaign 2; GW7 Campaign 3; GW7 Campaign 4; GW7 Campaign 5; GW8 Campaign 1; GW8 Campaign 2; GW8 Campaign 3; GW8 Campaign 4; GW8 Campaign 5; GW8 Campaign 6; GW9S Campaign 1; GW9S Campaign 2; GW9S Campaign 4; GW9S Campaign 5; GW9S Campaign 6; GW9D Campaign 1; GW9D Campaign 2; GW9D Campaign 3; GW9D Campaign 4; GW9D Campaign 5; GW9D Campaign 6; GW10 Campaign 1; GW10 Campaign 2; GW10 Campaign 3; GW10 Campaign 4; GW10 Campaign 5; GW10 Campaign 6; GW10 Dup Campaign 1; GW11D Campaign 3; GW11D Campaign 4; GW11D Campaign 5; GW11D Dup Campaign 4; GW11S Campaign 1; GW11S Campaign 2; GW11S Campaign 3; GW11S Campaign 4; GW11S Campaign 5; GW11S1 Campaign 1; GW11S1 Campaign 2; GW11S1 Campaign 3; GW11S1 Campaign 4; GW11S1 Campaign 5; GW12 Campaign 1; GW12 Campaign 2;	36	<10	110	113	194	94	34	93	44	<10
Boron	µg/l	7	197	5	1402	149	GW1 Campaign 2; GW1 Campaign 3; GW1 Campaign 4; GW1 Campaign 5; GW1 Campaign 6; GW1 Dup Campaign 1; GW1 Dup Campaign 2; GW1 Dup Campaign 6; GW2 Campaign 5; GW2 Campaign 6; GW3 Campaign 2; GW3 Campaign 5; GW3 Campaign 6; PZ_20 Campaign 2; PZ_20 Campaign 4; PZ_20 Campaign 5; PZ_19 Campaign 2; PZ_19 Campaign 4; PZ_19 Campaign 5; PZ_19 Campaign 6; PZ_18 Campaign 1; PZ_18 Campaign 2; PZ_18 Campaign 4; PZ_18 Campaign 5; PZ_18 Campaign 6; PZ_18 Dup Campaign 3; GW6D Campaign 2; GW6D Campaign 4; GW6D Campaign 6; GW7 Campaign 3; GW7 Campaign 4; GW7 Campaign 5; GW7 Campaign 6; GW8 Campaign 1; GW8 Campaign 2; GW8 Campaign 3; GW8 Campaign 4; GW8 Campaign 5; GW8 Campaign 6; GW9S Campaign 1; GW9S Campaign 2; GW9S Campaign 3; GW9S Campaign 4; GW9S Campaign 5; GW9S Campaign 6; GW9D Campaign 1; GW9D Campaign 2; GW9D Campaign 3; GW9D Campaign 4; GW9D Campaign 5; GW9D Campaign 6; GW10 Campaign 1; GW10 Campaign 2; GW10 Campaign 3; GW10 Campaign 4; GW10 Campaign 5; GW10 Campaign 6; GW10 Dup Campaign 1; GW11D Campaign 6; GW11D Dup Campaign 4; GW11S Campaign 2; GW11S Campaign 3; GW11S Campaign 4; GW11S Campaign 5; GW11S Campaign 6; GW11S1 Campaign	<5	105	<5	15	<5	<5	145	82	191	84
Arsenic	µg/l	0.025	197	5	77	43	PZ_18 Campaign 1; PZ_18 Campaign 2; PZ_18 Campaign 3; PZ_18 Campaign 4; PZ_18 Campaign 5; PZ_18 Campaign 6; PZ_18 Dup Campaign 3; GW7 Campaign 1; GW7 Campaign 2; GW7 Campaign 3; GW7 Campaign 4; GW7 Campaign 5; GW7 Campaign 6; GW8 Campaign 1; GW8 Campaign 2; GW8 Campaign 3; GW8 Campaign 4; GW8 Campaign 5; GW8 Campaign 6; GW9S Campaign 6; GW9D Campaign 6; GW10 Campaign 2; GW10 Campaign 3; GW10 Campaign 6; GW11D Campaign 4; GW11D Campaign 6; GW11D Dup Campaign 4; GW11S Campaign 2; GW11S Campaign 5; GW11S1 Campaign 2; GW11S1 Campaign 4; GW11S1 Campaign 5; GW11S1 Campaign 6; GW15 Campaign 1; GW15 Campaign 2; GW15 Campaign 3; GW15 Campaign 4; GW15 Campaign 5; GW24S Campaign 1; GW24S Campaign 3; GW24S Campaign 4; PZ_14 Campaign 1; PZ_16 Campaign 2	<5	<5	<5	<5	16	7	14	20	11	9
Chromium	µg/l	0.0006	197	<5	7	1	PZ_14 Campaign 1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Lead	µg/l	0.0013	197	1	6	10	GW1 Dup Campaign 1; GW2 Campaign 1; GW3 Campaign 2; GW6D Campaign 6; GW10 Campaign 2; GW11S Campaign 2; GW23 Campaign 2; GW23 Dup Campaign 2; PZ_6 Campaign 2; PZ_16 Campaign 2	<1	<1	<1	1	<1	<1	<1	<1	<1	<1
Nickel	µg/l	0.0086	197	1	99	151	GW1 Campaign 2; GW1 Campaign 3; GW1 Campaign 4; GW1 Campaign 5; GW1 Campaign 6; GW1 Dup Campaign 1; GW1 Dup Campaign 2; GW1 Dup Campaign 6; GW2 Campaign 1; GW2 Campaign 2; GW2 Campaign 3; GW2 Campaign 4; GW2 Campaign 5; GW2 Campaign 6; GW3 Campaign 1; GW3 Campaign 2; GW3 Campaign 3; GW3 Campaign 4; GW3 Campaign 5; GW3 Campaign 6; PZ_20 Campaign 1; PZ_20 Campaign 2; PZ_20 Campaign 4; PZ_20 Campaign 6; PZ_19 Campaign 1; PZ_19 Campaign 2; PZ_19 Campaign 3; PZ_19 Campaign 4; PZ_19 Campaign 5; PZ_19 Campaign 6; PZ_19 Dup Campaign 5; PZ_18 Campaign 1; PZ_18 Campaign 2; PZ_18 Campaign 3; PZ_18 Campaign 4; PZ_18 Campaign 5; PZ_18 Campaign 6; PZ_18 Dup Campaign 3; GW6D Campaign 1; GW6D Campaign 2; GW6D Campaign 3; GW6D Campaign 4; GW6D Campaign 5; GW6D Campaign 6; GW7 Campaign 1; GW7 Campaign 4; GW7 Campaign 6; GW8 Campaign 1; GW8 Campaign 3; GW8 Campaign 5; GW8 Campaign 6; GW9S Campaign 1; GW9S Campaign 2; GW9S Campaign 3; GW9S Campaign 4; GW9S Campaign 5; GW9D Campaign 4; GW10 Campaign 1; GW10 Campaign 2; GW10 Campaign 3; GW10 Campaign 4; GW10 Campaign 5; GW10 Campaign 6; GW10 Dup Campaign 1; GW11D Campaign 1; GW11D Campaign 2;	3	3	3	9	1	<1	<1	1	<1	1

Constituents	GW8 Campaign 1	GW8 Campaign 2	GW8 Campaign 3	GW8 Campaign 4	GW8 Campaign 5	GW8 Campaign 6	GW9S Campaign 1	GW9S Campaign 2	GW9S Campaign 3	GW9S Campaign 4	GW9S Campaign 5	GW9S Campaign 6	GW9D Campaign 1	GW9D Campaign 2	GW9D Campaign 3	GW9D Campaign 4	GW9D Campaign 5	GW9D Campaign 6
pH Value (Lab)	7.3	7.7	7.4	7.7	7.2	7.4	7	6.9	7	7.4	7	7	6.9	6.8	7	7.3	6.9	6.8
pH Value (Field)	-	7	7.1	7	6.9	7.2	-	6.9	7	6.5	6.8	7.1	-	6.7	6.9	6.4	6.8	7.1
Redox Potential (ORP)	-	-117	52	-150	-176	-165	-	-132	-189	-200	-210	-236	-	-137	-168	-185	-185	-223
DO	-	3	7	2	2	1	-	3	2	2	1	1	-	3	4	3	2	1
Salinity	-	0.51	0.58	0.61	0.64	0.67	-	0.9	1.07	1.04	1.03	1.11	-	1.56	1.88	1.77	1.67	1.69
Electrical Conductivity	860	990	1112	1217	1238	1280	1380	1630	1903	1820	1846	1800	2900	2840	3410	3210	320	2900
Suspended Solids	2	6	8	10	48	14	56	14	190	42	12	42	326	6	200	48	20	42
Calcium	83.5	77	93.1	102	107	107	114.1	132	136.9	159.3	126	111	120.5	142	187.5	193.1	173	103
Magnesium	28.6	26	33.4	35.9	33	40	25.6	36	41.9	42.3	40	37	57.8	61	70.7	71.9	51	54
Sodium	74.3	74	104	115.3	111	45	159.7	190	251.3	255.6	285	231	387.3	425	511.8	505.6	497	378
Potassium	22.5	25	36.7	40.1	39	127	17	21	27.5	26.7	17	26	27.9	32	34.8	37	38	30
Chloride	78	84	106	114	124	13	239	289	367	334	325	298	646	643	801	678	699	618
Sulphate	25	13	20	19	17	118	16	14	<5	8	9	<5	8	1	<5	<5	<5	<5
Alkalinity	450	570	600	550	520	590	260	610	630	600	550	650	690	680	720	710	640	650
Nitrate	<1	<1	<5	<1	<1	<5	<5	<1	<5	<1	<1	<1	<5	<1	<5	1	<1	1
Ammonium as NH4	1.7	1.59	1	3.7	2.1	4.2	8.7	6.35	6	10.6	20	5	6.2	5.3	1.8	10.6	35	3
COD	<2	<2	12	<2	<2	<2	32	6	15	<2	25	21	17	100	7	<2	<2	21
BOD	<2	<2	3	<2	4	#	3	<2	<2	<2	<2	<2	<2	3	<2	<2	<2	<2
Iron	244	461	578	1725	38	2339	75	41	<10	2928	21	54370	11080	111	130	4122	27	34130
Boron	496	435	539	602	554	616	323	412	345	289	576	274	567	431	479	523	602	550
Arsenic	8	10	13	23	9	31	<5	<5	<5	<5	<5	77	<5	<5	<5	<5	<5	30
Chromium	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Lead	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Nickel	2	<1	2	<1	2	2	1	2	1	2	1	<1	<1	<1	<1	1	<1	<1

Constituents	GW10 Campaign 1	GW10 Campaign 2	GW10 Campaign 3	GW10 Campaign 4	GW10 Campaign 5	GW10 Campaign 6	GW10 Dup Campaign 1	GW11D Campaign 1	GW11D Campaign 2	GW11D Campaign 3	GW11D Campaign 4	GW11D Campaign 5	GW11D Campaign 6	GW11D Dup Campaign 4	GW11S Campaign 1	GW11S Campaign 2
pH Value (Lab)	7.1	7.6	7.6	7.4	7.3	7.6	7.2	12.6	12.6	12.1	11.8	11.1	9.8	11.8	7.2	7.7
pH Value (Field)	-	7.5	7.3	6.9	7	7.4	-	-	12.4	12.6	12.3	11.8	9.7	12.3	-	7.9
Redox Potential (ORP)	-	-184	-178	-187	4	-130	-	-	-227	-278	-363	-302	-268	-363	-	-129
DO	-	2	3	1	2	1	-	-	6	4	3	37	1	3	-	2
Salinity	-	0.82	1.13	1.07	0.86	0.86	-	-	2.52	2.13	2.2	1.8	1.64	2.2	-	0.95
Electrical Conductivity	1690	1858	2260	2010	1658	1585	1720	5400	5180	4750	2850	3060	3070	3150	2400	2070
Suspended Solids	62	20	10	30	6	12	42	68	10	42	60	162	16	30	98	14
Calcium	106.4	125	137.7	130.7	138	110	120.4	293.9	336	317.9	329.2	301	241	328.8	209.8	61
Magnesium	18.4	27	32	29.3	16	22	21	0.7	1	0.6	0.7	3	1	0.5	43.8	16
Sodium	163.2	249	268.6	240.7	150	195	185.8	282.1	192	176.7	187.8	304	341	166	407.2	197
Potassium	13.8	16	17.9	18.7	7	17	15.7	61.9	35	27.3	27.1	27	25	25.8	141	77
Chloride	297	294	429	327	268	255	301	208	193	209	336	823	834	284	141	131
Sulphate	78	27	7	138	37	58	79	7	5	6	16	75	75	10	110	61
Alkalinity	420	660	450	550	400	490	460	1250	1270	1020	610	210	220	760	1360	600
Nitrate	<1	<1	<1	2	<1	1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1
Ammonium as NH4	23	19.1	14.8	10.6	12	4	31.9	10.6	5.3	3.3	9	1.6	3.2	8.3	22.8	9.5
COD	60	11	20	10	52	29	56	29	<2	6	<2	<2	6	<2	3	<2
BOD	13	6	8	7	8	2	9	<2	<2	3	<2	<2	<2	<2	<2	<2
Iron	158	514	3697	64	10	1063	140	<10	<10	11	20	53	<10	14	179	940
Boron	191	106	233	186	525	195	164	<5	<5	<5	<5	<5	63	16	<5	243
Arsenic	<5	25	36	<5	<5	16	<5	<5	<5	<5	6	<5	8	6	<5	9
Chromium	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Lead	<1	2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2
Nickel	6	2	2	2	3	2	5	99	53	57	53	10	2	61	8	5

ATKINS

Assessment Criteria :	Coastal and Estuarine EQS					
CaCO	0.00	0.00	DOC	0.00		
Calcium	0.00	DOC	0.00	Catchment area	Freshwater not listed	

Constituents	Unit	Generic Assessment Criteria (mg/l)	Number of Samples	Minimum Value	Maximum Value	Number of Exceedences	Locations of Exceedences
pH Value (Lab)	pH Units	No WSV	197	5.7	12.6	0	
pH Value (Field)	pH Units	No WSV	155	5.6	12.6	0	
Redox Potential (ORP)	mV	No WSV	155	-363	145	0	
DO	%	No WSV	155	1	102	0	
Copper	µg/l	0.00376	197	5	32	35	GW1 Campaign 2; GW1 Dup Campaign 1; GW1 Dup Campaign 2; GW2 Campaign 1; GW2 Campaign 2; GW3 Campaign 2; PZ_20 Campaign 2; PZ_19 Campaign 2; PZ_18 Campaign 2; GW6D Campaign 2; GW9S Campaign 2; GW9D Campaign 2; GW10 Campaign 2; GW11D Campaign 1; GW11D Campaign 2; GW11D Campaign 3; GW11S Campaign 2; GW11S1 Campaign 2; GW15 Campaign 2; GW15 Campaign 3; GW16D Campaign 2; GW16D Dup Campaign 2; GW20 Campaign 2; GW21 Campaign 2; GW22 Campaign 2; GW23 Campaign 2; GW23 Dup Campaign 2; GW24D Campaign 2; PZ_6 Campaign 2; PZ_14 Campaign 1; PZ_14 Campaign 2; PZ_16 Campaign 2; PZ_16 Campaign 3; PZ_16 Campaign 4; PZ_16 Campaign 5
Zinc	µg/l	0.0068	197	5	1234	188	GW1 Campaign 2; GW1 Campaign 3; GW1 Campaign 4; GW1 Campaign 5; GW1 Campaign 6; GW1 Dup Campaign 1; GW1 Dup Campaign 2; GW1 Dup Campaign 6; GW2 Campaign 1; GW2 Campaign 2; GW2 Campaign 3; GW2 Campaign 4; GW2 Campaign 5; GW2 Campaign 6; GW3 Campaign 1; GW3 Campaign 2; GW3 Campaign 3; GW3 Campaign 4; GW3 Campaign 5; GW3 Campaign 6; PZ_20 Campaign 1; PZ_20 Campaign 2; PZ_20 Campaign 3; PZ_20 Campaign 4; PZ_20 Campaign 5; PZ_20 Campaign 6; PZ_19 Campaign 1; PZ_19 Campaign 2; PZ_19 Campaign 3; PZ_19 Campaign 4; PZ_19 Campaign 5; PZ_19 Campaign 6; PZ_19 Dup Campaign 5; PZ_18 Campaign 1; PZ_18 Campaign 2; PZ_18 Campaign 3; PZ_18 Campaign 4; PZ_18 Campaign 5; PZ_18 Dup Campaign 3; GW6D Campaign 1; GW6D Campaign 2; GW6D Campaign 3; GW6D Campaign 4; GW6D Campaign 5; GW6D Campaign 6; GW7 Campaign 1; GW7 Campaign 2; GW7 Campaign 3; GW7 Campaign 4; GW7 Campaign 5; GW7 Campaign 6; GW8 Campaign 1; GW8 Campaign 2; GW8 Campaign 3; GW8 Campaign 4; GW8 Campaign 5; GW8 Campaign 6; GW9S Campaign 1; GW9S Campaign 2; GW9S Campaign 3; GW9S Campaign 4; GW9S Campaign 5; GW9S Campaign 6; GW9D Campaign 1; GW9D Campaign 2; GW9D Campaign 3; GW9D
Cadmium	µg/l	0.0002	197	<1	9	6	GW3 Campaign 1; PZ_20 Campaign 6; PZ_18 Campaign 2; GW6D Campaign 2; GW9S Campaign 3; GW12 Campaign 3
Mercury	µg/l	0.00007	197	0.1	2.5	14	PZ_20 Campaign 3; PZ_19 Campaign 3; GW6D Campaign 6; GW11D Campaign 2; GW11D Campaign 3; GW11D Campaign 4; GW11D Dup Campaign 4; GW16D Campaign 6; GW17 Campaign 6; PZ_21 Campaign 5; PZ_21 Campaign 6; GW20 Campaign 2; PZ_14 Campaign 1; PZ_16 Campaign 1
Total Phenols	µg/l	No WSV	197	0.5	<0.5	0	
Total Petroleum Hydrocarbons	µg/l	No WSV	197	<10	2233	0	
Free Cyanide	µg/l	0.001	197	5	21.1	6	PZ_20 Campaign 6; PZ_19 Campaign 6; GW20 Campaign 4; GW20 Campaign 5; GW21 Campaign 5; GW22 Campaign 5
Naphthalene	µg/l	0.002	197	<0.01	13.49	25	GW1 Campaign 5; GW6D Campaign 4; GW8 Campaign 2; GW9S Campaign 2; GW9S Campaign 5; GW9S Campaign 6; GW9D Campaign 2; GW9D Campaign 5; GW9D Campaign 6; GW10 Campaign 1; GW10 Campaign 2; GW10 Campaign 4; GW10 Dup Campaign 1; GW11D Campaign 6; GW12 Campaign 2; GW12 Campaign 5; GW12 Campaign 6; GW13 Campaign 6; GW15 Campaign 4; PZ_21 Campaign 6; GW20 Campaign 2; GW23 Campaign 2; GW23 Dup Campaign 2; PZ_6 Campaign 6; PZ_16 Campaign 6
Acenaphthylene	µg/l	N/A	197	0.01	0.12	0	
Acenaphthene	µg/l	N/A	197	0.01	3.76	0	
Fluorene	µg/l	N/A	197	<0.01	1.34	0	
Phenanthrene	µg/l	See BaP	197	<0.01	1	0	
Anthracene	µg/l	0.0001	197	0.01	0.1	18	GW1 Campaign 2; GW1 Campaign 6; GW1 Dup Campaign 6; GW2 Campaign 6; GW6D Campaign 4; GW6D Campaign 6; GW7 Campaign 2; GW8 Campaign 2; GW9S Campaign 6; GW9D Campaign 2; GW9D Campaign 6; GW10 Campaign 2; GW10 Campaign 6; GW11D Campaign 6; GW12 Campaign 6; PZ_21 Campaign 6; GW20 Campaign 6; GW21 Campaign 6
Fluoranthene	µg/l	0.0000063	197	<0.01	0.21	10	GW1 Campaign 2; GW6D Campaign 4; GW6D Campaign 6; GW7 Campaign 2; GW8 Campaign 2; GW10 Campaign 2; GW11D Campaign 1; GW11D Campaign 6; PZ_21 Campaign 6; GW20 Campaign 6
Pyrene	µg/l	N/A	197	<0.01	0.19	0	
Benz(a)anthracene	µg/l	No WSV	197	<0.01	0.12	0	
Chrysene	µg/l	See BaP	197	<0.01	0.12	0	
Benzo(b)fluoranthene	µg/l	0.000017	197	<0.01	0.13	1	GW6D Campaign 4
Benzo(k)fluoranthene	µg/l	0.000017	197	<0.01	0.16	1	GW6D Campaign 4
Benzo(a)pyrene	µg/l	0.00000017	197	<0.01	0.16	1	GW6D Campaign 4
Indeno(123-cd)pyrene	µg/l	N/A	197	0.01	<0.01	0	
Benzo(ghi)perylene	µg/l	0.00000082	197	0.01	<0.01	0	
Dibenz(ah)anthracene	µg/l	N/A	197	0.01	<0.01	0	
Total PAH	µg/l	No WSV	197	<0.01	19.89	0	
Benzene	µg/l	0.008	197	<0.01	<1	0	
Toluene	µg/l	0.074	197	<0.01	1	1	PZ_16 Campaign 3
Ethylbenzene	µg/l	0.02	197	<0.01	<1	0	
m&p-Xylene	µg/l	No WSV	197	<0.01	<1	0	
o-Xylene	µg/l	0.03	197	<0.01	<1	0	
Styrene	µg/l	0.05	197	<0.01	<1	0	
Propylbenzene	µg/l	No WSV	197	<0.01	<1	0	
Methylethylbenzene	µg/l	No WSV	197	<0.01	<1	0	
sec-Butylbenzene	µg/l	No WSV	197	<0.01	<1	0	
1,3,5-Trimethylbenzene	µg/l	No WSV	197	<0.01	<1	0	
tert-Butylbenzene	µg/l	No WSV	197	<0.01	1	0	
1-methylpropylbenzene	µg/l	No WSV	197	<0.01	<1	0	
Vinyl Chloride	µg/l	N/A	197	<0.01	<1	0	
cis 1,2-Dichloroethene	µg/l	No WSV	197	<0.01	137	0	
1,1-Dichloroethane	µg/l	No WSV	197	<0.01	<1	0	
Chloroform	µg/l	See Trihalomethanes	197	<0.01	4	0	
Carbontetrachloride	µg/l	No WSV	197	<0.01	<1	0	
1,1,1-Trichloroethane	µg/l	0.1	197	<0.01	3	2	PZ_14 Campaign 4; PZ_14 Campaign 6
Trichloroethylene	µg/l	0.01	197	<0.01	<1	0	
Tetrachloroethylene	µg/l	0.01	197	<0.01	31	1	GW20 Campaign 6
1,1,1,2-Tetrachloroethane	µg/l	No WSV	197	<0.01	<1	0	
1,1,2,2-Tetrachloroethane	µg/l	No WSV	197	<0.01	<1	0	
Chlorobenzene	µg/l	No WSV	197	<0.01	1	0	
1,1-Dichloro-1-Propene	µg/l	No WSV	197	<0.01	<1	0	
1,2-Dichloroethane	µg/l	0.01	197	<0.01	132	1	GW20 Campaign 6
2,2-Dichloropropane	µg/l	No WSV	197	<0.01	2	0	
trans 1,2-Dichloroethene	µg/l	No WSV	197	<0.01	<1	0	
Dibromomethane	µg/l	No WSV	197	<0.01	1	0	
1,2-Dichloropropane	µg/l	N/A	197	<0.01	<1	0	
cis 1,2-Dichloro-1-Propene	µg/l	No WSV	197	<0.01	<1	0	
trans 1,3-Dichloro-1-Propene	µg/l	No WSV	197	<0.01	3	0	
1,1,2-Trichloroethane	µg/l	0.3	197	<0.01	<1	0	
1,3-Dichloropropane	µg/l	No WSV	197	<0.01	<1	0	
2-Chlorotoluene	µg/l	No WSV	197	<0.01	<1	0	
1,2,4-Trimethylbenzene	µg/l	No WSV	197	<0.01	<1	0	
4-Chlorotoluene	µg/l	No WSV	197	<0.01	<1	0	

Constituents	GW6D Campaign 3	GW6D Campaign 4	GW6D Campaign 5	GW6D Campaign 6	GW7 Campaign 1	GW7 Campaign 2	GW7 Campaign 3	GW7 Campaign 4	GW7 Campaign 5	GW7 Campaign 6	GW8 Campaign 1	GW8 Campaign 2	GW8 Campaign 3	GW8 Campaign 4	GW8 Campaign 5	GW8 Campaign 6
pH Value (Lab)	6.8	7.4	6.7	6.8	7.5	7.9	7.8	8	7.5	7.7	7.3	7.7	7.4	7.7	7.2	7.4
pH Value (Field)	6.7	6.6	6.7	6.7	-	7.3	7.5	7.8	6.9	7.6	-	7	7.1	7	6.9	7.2
Redox Potential (ORP)	-30	-99	-96	-28	-	-151	-176	-221	-98	-167	-	-117	52	-150	-176	-165
DO	4	4	1	3	-	2	4	1	2	1	-	3	7	2	2	1
Copper	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Zinc	60	143	27	93	5	6	13	7	6	7	7	6	17	10	15	13
Cadmium	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Mercury	<0.1	<0.1	<0.1	0.8	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Phenols	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Petroleum Hydrocarbons	<10	<10	30	<10	77	157	<10	<10	<10	<10	<10	674	<10	<10	<10	<10
Free Cyanide	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene	<0.01	0.11	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.38	<0.01	<0.01	<0.01	<0.01
Acenaphthylene	<0.01	0.03	<0.01	<0.01	<0.01	0.05	<0.01	<0.01	<0.01	<0.01	<0.01	0.09	<0.01	<0.01	<0.01	<0.01
Acenaphthene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.06	<0.01	<0.01	<0.01	<0.01
Fluorene	<0.01	<0.01	<0.01	0.08	<0.01	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	0.03
Phenanthrene	<0.01	0.06	<0.01	0.09	<0.01	0.04	<0.01	<0.01	<0.01	<0.01	<0.01	0.19	<0.01	<0.01	<0.01	<0.01
Anthracene	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.05	<0.01	<0.01	<0.01	<0.01
Fluoranthene	<0.01	0.21	<0.01	0.03	<0.01	0.05	<0.01	<0.01	<0.01	<0.01	<0.01	0.1	<0.01	<0.01	<0.01	<0.01
Pyrene	<0.01	0.19	<0.01	0.03	<0.01	0.06	<0.01	<0.01	<0.01	<0.01	<0.01	0.16	<0.01	<0.01	<0.01	<0.01
Benz(a)anthracene	<0.01	0.12	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.05	<0.01	<0.01	<0.01	<0.01
Chrysene	<0.01	0.12	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.05	<0.01	<0.01	<0.01	<0.01
Benzo(b)fluoranthene	<0.01	0.13	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(k)fluoranthene	<0.01	0.16	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(a)pyrene	<0.01	0.16	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Indeno(123-cd)pyrene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(ghi)perylene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Dibenz(ah)anthracene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Total PAH	<0.01	1.3	<0.01	0.24	<0.01	0.21	<0.01	<0.01	<0.01	0.03	<0.01	1.13	<0.01	<0.01	<0.01	0.03
Benzene	<1	<1	<1	<1	<1	<1	<1	<0.01	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	<1	<1	<1	<1	<1	<1	<1	<0.01	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<0.01	<1	<1	<1	<1	<1	<1	<1	<1
m&p-Xylene	<1	<1	<1	<1	<1	<1	<1	<0.01	<1	<1	<1	<1	<1	<1	<1	<1
o-Xylene	<1	<1	<1	<1	<1	<1	<1	<0.01	<1	<1	<1	<1	<1	<1	<1	<1
Styrene	<1	<1	<1	<1	<1	<1	<1	<0.01	<1	<1	<1	<1	<1	<1	<1	<1
Propylbenzene	<1	<1	<1	<1	<1	<1	<1	<0.01	<1	<1	<1	<1	<1	<1	<1	<1
Methylethylbenzene	<1	<1	<1	<1	<1	<1	<1	<0.01	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene	<1	<1	<1	<1	<1	<1	<1	<0.01	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene	<1	<1	<1	<1	<1	<1	<1	<0.01	<1	<1	<1	<1	<1	<1	<1	<1
tert-Butylbenzene	<1	<1	<1	1	<1	<1	<1	<0.01	<1	<1	<1	<1	<1	<1	<1	<1
1-methylpropylbenzene	<1	<1	<1	<1	<1	<1	<1	<0.01	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	<1	<1	<1	<1	<1	<1	<1	<0.01	<1	<1	<1	<1	<1	<1	<1	<1
cis 1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<0.01	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	<1	<1	<1	<1	<1	<1	<1	<0.01	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1	<1	<1	<1	<0.01	<1	<1	<1	<1	<1	<1	<1	<1
Carbontetrachloride	<1	<1	<1	<1	<1	<1	<1	<0.01	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	<1	<1	<1	<1	<1	<1	<1	<0.01	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethylene	<1	<1	<1	<1	<1	<1	<1	<0.01	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	<1	<1	<1	<1	<1	<1	<1	<0.01	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<0.01	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<0.01	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1	<0.01	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloro-1-Propene	<1	<1	<1	<1	<1	<1	<1	<0.01	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	<1	<1	<1	<1	<1	<1	<1	<0.01	<1	<1	<1	<1	<1	<1	<1	<1
2,2-Dichloropropane	<1	<1	<1	<1	<1	<1	<1	<0.01	<1	<1	<1	<1	<1	<1	<1	<1
trans 1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<0.01	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1	<1	<1	<0.01	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	<1	<1	<1	<1	<1	<1	<1	<0.01	<1	<1	<1	<1	<1	<1	<1	<1
cis 1,2-Dichloro-1-Propene	<1	<1	<1	<1	<1	<1	<1	<0.01	<1	<1	<1	<1	<1	<1	<1	<1
trans 1,3-Dichloro-1-Propene	<1	<1	<1	<1	<1	<1	<1	<0.01	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	<1	<1	<1	<1	<1	<1	<1	<0.01	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichloropropane	<1	<1	<1	<1	<1	<1	<1	<0.01	<1	<1	<1	<1	<1	<1	<1	<1
2-Chlorotoluene	<1	<1	<1	<1	<1	<1	<1	<0.01	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene	<1	<1	<1	<1	<1	<1	<1	<0.01	<1	<1	<1	<1	<1	<1	<1	<1
4-Chlorotoluene	<1	<1	<1	<1	<1	<1	<1	<0.01	<1	<1	<1	<1	<1	<1	<1	<1

Constituents	GW9S Campaign 1	GW9S Campaign 2	GW9S Campaign 3	GW9S Campaign 4	GW9S Campaign 5	GW9S Campaign 6	GW9D Campaign 1	GW9D Campaign 2	GW9D Campaign 3	GW9D Campaign 4	GW9D Campaign 5	GW9D Campaign 6
pH Value (Lab)	7	6.9	7	7.4	7	7	6.9	6.8	7	7.3	6.9	6.8
pH Value (Field)	-	6.9	7	6.5	6.8	7.1	-	6.7	6.9	6.4	6.8	7.1
Redox Potential (ORP)	-	-132	-189	-200	-210	-236	-	-137	-168	-185	-185	-223
DO	-	3	2	2	1	1	-	3	4	3	2	1
Copper	<5	6	<5	<5	<5	<5	<5	6	<5	<5	<5	<5
Zinc	7	11	12	16	16	31	8	17	12	29	15	12
Cadmium	<1	<1	3	<1	<1	<1	<1	<1	<1	<1	<1	<1
Mercury	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Phenols	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Petroleum Hydrocarbons	<10	451	<10	<10	<10	<10	<10	904	310	<10	<10	<10
Free Cyanide	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene	<0.01	0.07	<0.01	<0.01	0.07	0.99	<0.01	0.06	<0.01	<0.01	0.15	0.67
Acenaphthylene	<0.01	0.04	<0.01	<0.01	<0.01	<0.01	<0.01	0.04	<0.01	<0.01	<0.01	<0.01
Acenaphthene	<0.01	0.08	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	0.21
Fluorene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Phenanthrene	<0.01	<0.01	<0.01	<0.01	<0.01	0.15	<0.01	0.05	<0.01	<0.01	<0.01	0.05
Anthracene	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	0.02	<0.01	<0.01	<0.01	0.01
Fluoranthene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Pyrene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benz(a)anthracene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chrysene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b)fluoranthene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(k)fluoranthene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(a)pyrene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Indeno(123-cd)pyrene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(ghi)perylene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Dibenz(ah)anthracene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Total PAH	<0.01	0.19	<0.01	<0.01	0.07	1.17	<0.01	0.17	<0.01	<0.01	0.15	0.94
Benzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
m&p-Xylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
o-Xylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Styrene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Propylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
tert-Butylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1-methylpropylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis 1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbontetrachloride	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloro-1-Propene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2,2-Dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans 1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis 1,2-Dichloro-1-Propene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans 1,3-Dichloro-1-Propene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Chlorotoluene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-Chlorotoluene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

Constituents	GW10 Campaign 1	GW10 Campaign 2	GW10 Campaign 3	GW10 Campaign 4	GW10 Campaign 5	GW10 Campaign 6	GW10 Dup Campaign 1	GW11D Campaign 1	GW11D Campaign 2	GW11D Campaign 3	GW11D Campaign 4	GW11D Campaign 5	GW11D Campaign 6	GW11D Dup Campaign 4	GW11S Campaign 1	GW11S Campaign 2
pH Value (Lab)	7.1	7.6	7.6	7.4	7.3	7.6	7.2	12.6	12.6	12.1	11.8	11.1	9.8	11.8	7.2	7.7
pH Value (Field)	-	7.5	7.3	6.9	7	7.4	-	-	12.4	12.6	12.3	11.8	9.7	12.3	-	7.9
Redox Potential (ORP)	-	-184	-178	-187	4	-130	-	-	-227	-278	-363	-302	-268	-363	-	-129
DO	-	2	3	1	2	1	-	-	6	4	3	37	1	3	-	2
Copper	<5	25	<5	<5	<5	<5	<5	5	22	6	<5	<5	<5	<5	<5	23
Zinc	8	19	18	<5	20	14	9	<5	<5	9	<5	7	8	<5	7	25
Cadmium	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Mercury	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.5	2.5	0.6	<0.1	<0.1	0.5	<0.1	<0.1
Total Phenols	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Petroleum Hydrocarbons	<10	297	148	<10	<10	23	<10	<10	71	<10	<10	<10	<10	<10	<10	<10
Free Cyanide	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene	0.6	13.49	<0.01	2.41	<0.01	<0.01	0.64	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01
Acenaphthylene	<0.01	0.1	<0.01	0.05	<0.01	0.07	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Acenaphthene	<0.01	3.76	<0.01	1.26	<0.01	1.15	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Fluorene	<0.01	1.34	<0.01	0.45	<0.01	0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.13	<0.01	<0.01	<0.01
Phenanthrene	<0.01	1	<0.01	0.24	<0.01	0.14	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	0.28	<0.01	<0.01	<0.01
Anthracene	<0.01	0.1	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01
Fluoranthene	<0.01	0.1	<0.01	<0.01	<0.01	<0.01	<0.01	0.05	<0.01	<0.01	<0.01	<0.01	0.12	<0.01	<0.01	<0.01
Pyrene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.06	<0.01	<0.01	<0.01
Benz(a)anthracene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chrysene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b)fluoranthene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(k)fluoranthene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(a)pyrene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Indeno(123-cd)pyrene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(ghi)perylene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Dibenz(ah)anthracene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Total PAH	0.6	19.89	<0.01	4.41	<0.01	1.44	0.64	0.07	<0.01	<0.01	<0.01	<0.01	0.63	<0.01	<0.01	<0.01
Benzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
m&p-Xylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
o-Xylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Styrene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Propylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
tert-Butylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1-methylpropylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis 1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	<1	<1	<1	4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbontetrachloride	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloro-1-Propene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2,2-Dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans 1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis 1,2-Dichloro-1-Propene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans 1,3-Dichloro-1-Propene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Chlorotoluene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-Chlorotoluene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

ATKINS

Assessment Criteria : *Coastal and Estuarine EQS*

CaCO 0.00 | 0.00 | **DOC** 0.00

Calcium 0.00 | **DOC** 0.00 | **Catchment area** | **Freshwater not listed**

Constituents	Unit	Generic Assessment Criteria (mg/l)	Number of Samples	Minimum Value	Maximum Value	Number of Exceedences	Locations of Exceedences	GW6D Campaign 3	GW6D Campaign 4	GW6D Campaign 5	GW6D Campaign 6	GW7 Campaign 1	GW7 Campaign 2	GW7 Campaign 3	GW7 Campaign 4	GW7 Campaign 5	GW7 Campaign 6
pH Value (Lab)	pH Units	No WSV	197	5.7	12.6	0		6.8	7.4	6.7	6.8	7.5	7.9	7.8	8	7.5	7.7
pH Value (Field)	pH Units	No WSV	155	5.6	12.6	0		6.7	6.6	6.7	6.7	-	7.3	7.5	7.8	6.9	7.6
Redox Potential (ORP)	mV	No WSV	155	-363	145	0		-30	-99	-96	-28	-	-151	-176	-221	-98	-167
DO	%	No WSV	155	1	102	0		4	4	1	3	-	2	4	1	2	1
o-Cymene	µg/l	No WSV	197	<0.01	<1	0		<1	<1	<1	<1	<1	<1	<1	<0.01	<1	<1
1,4-Dichlorobenzene	µg/l	No WSV	197	<0.01	<1	0		<1	<1	<1	<1	<1	<1	<1	<0.01	<1	<1
1,2-Dibromo-3-chloropropane	µg/l	N/A	197	<0.01	<1	0		<1	<1	<1	<1	<1	<1	<1	<0.01	<1	<1
Hexachlorobutadiene	µg/l	0.0006	197	<0.01	1	1	GW11S1 Campaign 6	<1	<1	<1	<1	<1	<1	<1	<0.01	<1	<1
1,2,3-Trichlorobenzene	µg/l	No WSV	197	<0.01	<1	0		<1	<1	<1	<1	<1	<1	<1	<0.01	<1	<1
1,2,4-Trichlorobenzene	µg/l	No WSV	197	<0.01	<1	0		<1	<1	<1	<1	<1	<1	<1	<0.01	<1	<1
1,3-Dichlorobenzene	µg/l	No WSV	197	<0.01	<1	0		<1	<1	<1	<1	<1	<1	<1	<0.01	<1	<1
1,2-Dichlorobenzene	µg/l	No WSV	197	<0.01	<1	0		<1	<1	<1	<1	<1	<1	<1	<0.01	<1	<1
Bromochloromethane	µg/l	No WSV	197	<0.01	1	0		<1	<1	<1	1	<1	<1	<1	<0.01	<1	<1
Dibromethane	µg/l	No WSV	197	<0.01	1	0		<1	<1	<1	<1	<1	<1	<1	<0.01	<1	<1
Bromobenzene	µg/l	No WSV	197	<0.01	<1	0		<1	<1	<1	<1	<1	<1	<1	<0.01	<1	<1
Bromodichloromethane	µg/l	N/A	197	<0.01	<1	0		<1	<1	<1	<1	<1	<1	<1	<0.01	<1	<1
Dibromochloromethane	µg/l	N/A	197	<0.01	<1	0		<1	<1	<1	<1	<1	<1	<1	<0.01	<1	<1
PCB28	µg/l	No WSV	197	0.01	<0.01	0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB52	µg/l	No WSV	197	<0.01	0.17	0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB101	µg/l	No WSV	197	0.01	<0.01	0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB118	µg/l	No WSV	197	0.01	<0.01	0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB138	µg/l	No WSV	197	0.01	<0.01	0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB153	µg/l	No WSV	197	0.01	<0.01	0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB180	µg/l	No WSV	197	0.01	<0.01	0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Total PCB	µg/l	No WSV	197	<0.01	0.17	0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

Constituents	GW8 Campaign 1	GW8 Campaign 2	GW8 Campaign 3	GW8 Campaign 4	GW8 Campaign 5	GW8 Campaign 6	GW9S Campaign 1	GW9S Campaign 2	GW9S Campaign 3	GW9S Campaign 4	GW9S Campaign 5	GW9S Campaign 6	GW9D Campaign 1	GW9D Campaign 2	GW9D Campaign 3	GW9D Campaign 4	GW9D Campaign 5	GW9D Campaign 6
pH Value (Lab)	7.3	7.7	7.4	7.7	7.2	7.4	7	6.9	7	7.4	7	7	6.9	6.8	7	7.3	6.9	6.8
pH Value (Field)	-	7	7.1	7	6.9	7.2	-	6.9	7	6.5	6.8	7.1	-	6.7	6.9	6.4	6.8	7.1
Redox Potential (ORP)	-	-117	52	-150	-176	-165	-	-132	-189	-200	-210	-236	-	-137	-168	-185	-185	-223
DO	-	3	7	2	2	1	-	3	2	2	1	1	-	3	4	3	2	1
o-Cymene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dibromo-3-chloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Hexachlorobutadiene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-Trichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
PCB28	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB52	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB101	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB118	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB138	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB153	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB180	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Total PCB	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

Constituents	GW10 Campaign 1	GW10 Campaign 2	GW10 Campaign 3	GW10 Campaign 4	GW10 Campaign 5	GW10 Campaign 6	GW10 Dup Campaign 1	GW11D Campaign 1	GW11D Campaign 2	GW11D Campaign 3	GW11D Campaign 4	GW11D Campaign 5	GW11D Campaign 6	GW11D Dup Campaign 4	GW11S Campaign 1	GW11S Campaign 2
pH Value (Lab)	7.1	7.6	7.6	7.4	7.3	7.6	7.2	12.6	12.6	12.1	11.8	11.1	9.8	11.8	7.2	7.7
pH Value (Field)	-	7.5	7.3	6.9	7	7.4	-	-	12.4	12.6	12.3	11.8	9.7	12.3	-	7.9
Redox Potential (ORP)	-	-184	-178	-187	4	-130	-	-	-227	-278	-363	-302	-268	-363	-	-129
DO	-	2	3	1	2	1	-	-	6	4	3	37	1	3	-	2
o-Cymene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dibromo-3-chloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Hexachlorobutadiene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-Trichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
PCB28	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB52	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB101	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB118	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB138	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB153	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB180	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Total PCB	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

Assessment Criteria :	Coastal and Estuarine EQS				
CaCO	0.00		0.00	DOC	0.00
Calcium	0.00	DOC	0.00	Catchment area	Freshwater not listed

Constituents	Unit	Generic Assessment Criteria (mg/l)	Number of Samples	Minimum Value	Maximum Value	Number of Exceedences	Locations of Exceedences
pH Value (Lab)	pH Units	No WSV	197	5.7	12.6	0	
pH Value (Field)	pH Units	No WSV	155	5.6	12.6	0	
Redox Potential (ORP)	mV	No WSV	155	-363	145	0	
DO	%	No WSV	155	1	102	0	
Salinity	pss	No WSV	155	0	17.9	0	
Electrical Conductivity	µS/cm	No WSV	197	0.49	26100	0	
Suspended Solids	mg/l	No WSV	197	<0.5	1200	0	
Calcium	mg/l	N/A	197	14	8925	0	
Magnesium	mg/l	N/A	197	0.5	533.8	0	
Sodium	mg/l	N/A	197	4	5336	0	
Potassium	mg/l	N/A	197	1	141	0	
Chloride	mg/l	N/A	197	13	8504	0	
Sulphate	mg/l	N/A	197	1	1197	0	
Alkalinity	mg/l CaCO3	No WSV	197	30	1360	0	
Nitrate	mg/l	N/A	197	1	214	0	
Ammonium as NH4	mg/l	Not appropriate, see Unionised Ammonia	197	<0.01	42	0	
COD	mg/l	No WSV	197	<2	120	0	
BOD	mg/l	No WSV	197	2	33	0	
Iron	µg/l	1	197	10	54370	115	GW1 Dup Campaign 1; GW2 Campaign 1; GW2 Campaign 2; GW2 Campaign 4; GW3 Campaign 2; GW3 Campaign 5; PZ_20 Campaign 5; PZ_19 Campaign 2; PZ_19 Campaign 3; PZ_19 Campaign 4; PZ_19 Campaign 5; PZ_19 Dup Campaign 5; PZ_18 Campaign 1; PZ_18 Campaign 3; PZ_18 Campaign 4; PZ_18 Campaign 5; PZ_18 Dup Campaign 3; GW6D Campaign 1; GW6D Campaign 3; GW6D Campaign 5; GW6D Campaign 6; GW7 Campaign 1; GW7 Campaign 2; GW7 Campaign 3; GW7 Campaign 4; GW7 Campaign 5; GW8 Campaign 1; GW8 Campaign 2; GW8 Campaign 3; GW8 Campaign 4; GW8 Campaign 5; GW8 Campaign 6; GW9S Campaign 1; GW9S Campaign 2; GW9S Campaign 4; GW9S Campaign 5; GW9S Campaign 6; GW9D Campaign 1; GW9D Campaign 2; GW9D Campaign 3; GW9D Campaign 4; GW9D Campaign 5; GW9D Campaign 6; GW10 Campaign 1; GW10 Campaign 2; GW10 Campaign 3; GW10 Campaign 4; GW10 Campaign 5; GW10 Campaign 6; GW10 Dup Campaign 1; GW11D Campaign 3; GW11D Campaign 4; GW11D Campaign 5; GW11D Dup Campaign 4; GW11S Campaign 1; GW11S Campaign 2; GW11S Campaign 3; GW11S Campaign 4; GW11S Campaign 5; GW11S1 Campaign 1; GW11S1 Campaign 2; GW11S1 Campaign 3; GW11S1 Campaign 4; GW11S1 Campaign 5; GW12 Campaign 1; GW12 Campaign 2
Boron	µg/l	7	197	5	1402	149	GW1 Campaign 2; GW1 Campaign 3; GW1 Campaign 4; GW1 Campaign 5; GW1 Campaign 6; GW1 Dup Campaign 1; GW1 Dup Campaign 2; GW1 Dup Campaign 6; GW2 Campaign 5; GW2 Campaign 6; GW3 Campaign 2; GW3 Campaign 5; GW3 Campaign 6; PZ_20 Campaign 2; PZ_20 Campaign 4; PZ_20 Campaign 5; PZ_19 Campaign 2; PZ_19 Campaign 4; PZ_19 Campaign 5; PZ_19 Campaign 6; PZ_18 Campaign 1; PZ_18 Campaign 2; PZ_18 Campaign 4; PZ_18 Campaign 5; PZ_18 Campaign 6; PZ_18 Dup Campaign 3; GW6D Campaign 2; GW6D Campaign 4; GW6D Campaign 6; GW7 Campaign 3; GW7 Campaign 4; GW7 Campaign 5; GW7 Campaign 6; GW8 Campaign 1; GW8 Campaign 2; GW8 Campaign 3; GW8 Campaign 4; GW8 Campaign 5; GW8 Campaign 6; GW9S Campaign 1; GW9S Campaign 2; GW9S Campaign 3; GW9S Campaign 4; GW9S Campaign 5; GW9S Campaign 6; GW9D Campaign 1; GW9D Campaign 2; GW9D Campaign 3; GW9D Campaign 4; GW9D Campaign 5; GW9D Campaign 6; GW10 Campaign 1; GW10 Campaign 2; GW10 Campaign 3; GW10 Campaign 4; GW10 Campaign 5; GW10 Campaign 6; GW10 Dup Campaign 1; GW11D Campaign 6; GW11D Dup Campaign 4; GW11S Campaign 2; GW11S Campaign 3; GW11S Campaign 4; GW11S Campaign 5; GW11S Campaign 6; GW11S1 Campaign
Arsenic	µg/l	0.025	197	5	77	43	PZ_18 Campaign 1; PZ_18 Campaign 2; PZ_18 Campaign 3; PZ_18 Campaign 4; PZ_18 Campaign 5; PZ_18 Campaign 6; PZ_18 Dup Campaign 3; GW7 Campaign 1; GW7 Campaign 2; GW7 Campaign 3; GW7 Campaign 4; GW7 Campaign 5; GW7 Campaign 6; GW8 Campaign 1; GW8 Campaign 2; GW8 Campaign 3; GW8 Campaign 4; GW8 Campaign 5; GW8 Campaign 6; GW9S Campaign 6; GW9D Campaign 6; GW10 Campaign 2; GW10 Campaign 3; GW10 Campaign 6; GW11D Campaign 4; GW11D Campaign 6; GW11D Dup Campaign 4; GW11S Campaign 2; GW11S Campaign 5; GW11S1 Campaign 2; GW11S1 Campaign 4; GW11S1 Campaign 5; GW11S1 Campaign 6; GW15 Campaign 1; GW15 Campaign 2; GW15 Campaign 3; GW15 Campaign 4; GW15 Campaign 5; GW24S Campaign 1; GW24S Campaign 3; GW24S Campaign 4; PZ_14 Campaign 1; PZ_16 Campaign 2
Chromium	µg/l	0.0006	197	<5	7	1	PZ_14 Campaign 1
Lead	µg/l	0.0013	197	1	6	10	GW1 Dup Campaign 1; GW2 Campaign 1; GW3 Campaign 2; GW6D Campaign 6; GW10 Campaign 2; GW11S Campaign 2; GW23 Campaign 2; GW23 Dup Campaign 2; PZ_6 Campaign 2; PZ_16 Campaign 2
Nickel	µg/l	0.0086	197	1	99	151	GW1 Campaign 2; GW1 Campaign 3; GW1 Campaign 4; GW1 Campaign 5; GW1 Campaign 6; GW1 Dup Campaign 1; GW1 Dup Campaign 2; GW1 Dup Campaign 6; GW2 Campaign 1; GW2 Campaign 2; GW2 Campaign 3; GW2 Campaign 4; GW2 Campaign 5; GW2 Campaign 6; GW3 Campaign 1; GW3 Campaign 2; GW3 Campaign 3; GW3 Campaign 4; GW3 Campaign 5; GW3 Campaign 6; PZ_20 Campaign 1; PZ_20 Campaign 2; PZ_20 Campaign 4; PZ_20 Campaign 6; PZ_19 Campaign 1; PZ_19 Campaign 2; PZ_19 Campaign 3; PZ_19 Campaign 4; PZ_19 Campaign 5; PZ_19 Campaign 6; PZ_19 Dup Campaign 5; PZ_18 Campaign 1; PZ_18 Campaign 2; PZ_18 Campaign 3; PZ_18 Campaign 4; PZ_18 Campaign 5; PZ_18 Campaign 6; PZ_18 Dup Campaign 3; GW6D Campaign 1; GW6D Campaign 2; GW6D Campaign 3; GW6D Campaign 4; GW6D Campaign 5; GW6D Campaign 6; GW7 Campaign 1; GW7 Campaign 4; GW7 Campaign 6; GW8 Campaign 1; GW8 Campaign 3; GW8 Campaign 5; GW8 Campaign 6; GW9S Campaign 1; GW9S Campaign 2; GW9S Campaign 3; GW9S Campaign 4; GW9S Campaign 5; GW9D Campaign 4; GW10 Campaign 1; GW10 Campaign 2; GW10 Campaign 3; GW10 Campaign 4; GW10 Campaign 5; GW10 Campaign 6; GW10 Dup Campaign 1; GW11D Campaign 1; GW11D Campaign 2;

Constituents	GW11S Campaign 3	GW11S Campaign 4	GW11S Campaign 5	GW11S Campaign 6	GW11S1 Campaign 1	GW11S1 Campaign 2	GW11S1 Campaign 3	GW11S1 Campaign 4	GW11S1 Campaign 5	GW11S1 Campaign 6	GW12 Campaign 1	GW12 Campaign 2	GW12 Campaign 3	GW12 Campaign 4	GW12 Campaign 5	GW12 Campaign 6
pH Value (Lab)	7.6	7.5	7.1	6.9	7	6.9	7.4	7.6	8	7.1	6.7	6.7	6.9	7.2	7	6.7
pH Value (Field)	7.5	7	6.7	7.2	-	7.1	7.2	7.2	8.6	7.4	-	6.7	6.9	6.7	6.7	7
Redox Potential (ORP)	-7	-216	-168	-231	-	-169	-167	-180	-275	-219	-	-114	-156	-168	-195	-206
DO	59	2	4	1	-	2	3	2	3	1	-	2	4	4	2	2
Salinity	0.88	1.11	1.1	1.17	-	0.63	0.5	0	0.52	0.5	-	0.56	0.56	0.94	0.56	0.58
Electrical Conductivity	2050	2040	2090	2050	1170	1298	1043	0.49	1033	940	900	960	995	962	1049	800
Suspended Solids	26	60	146	36	808	96	62	30	204	12	76	<5	14	82	764	42
Calcium	131.9	162.4	195	172	99.4	29	86.1	91	106	78	86.9	119	103.1	108.5	104	90
Magnesium	31.3	36.5	34	35	13	5	14.3	13.2	13	11	15.5	24	19.2	20.1	17	16
Sodium	324.6	270.6	242	220	137.3	71	133.4	119.5	120	103	81.9	110	89.2	91.6	88	84
Potassium	108.5	80.4	72	57	5.5	4	4.6	4.5	5	4	12.5	15	13.7	14.9	13	12
Chloride	133	129	131	129	115	186	135	111	116	99	133	153	158	138	151	136
Sulphate	45	30	25	15	89	5	12	16	16	9	6	14	7	7	8	<5
Alkalinity	1140	1100	1000	1150	420	430	430	390	390	420	350	420	390	340	330	420
Nitrate	<5	<1	2	<1	<1	<1	<5	<1	<1	<1	<1	<1	<5	<1	<1	<1
Ammonium as NH4	9.9	26.5	19	5	5.2	1.6	1.5	0.5	5.3	1.6	8.7	5.3	4.5	8.5	4.8	4.2
COD	<2	<2	10	4	6	8	<2	<2	<2	5	23	<2	<2	<2	5	12
BOD	<2	<2	4	<2	<2	3	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Iron	179	5431	9233	<10	44	2584	64	211	845	<10	71	248	<10	1804	82	25600
Boron	186	189	201	232	<5	<5	195	301	52	43	161	125	129	136	<5	46
Arsenic	<5	<5	7	<5	<5	6	<5	5	15	6	<5	<5	<5	<5	<5	<5
Chromium	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Lead	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Nickel	8	5	5	5	4	2	1	1	1	1	1	2	2	<1	1	2

Constituents	GW13 Campaign 1	GW13 Campaign 2	GW13 Campaign 3	GW13 Campaign 4	GW13 Campaign 5	GW13 Campaign 6	GW15 Campaign 1	GW15 Campaign 2	GW15 Campaign 3	GW15 Campaign 4	GW15 Campaign 5	GW15 Campaign 6
pH Value (Lab)	7.7	7.5	7.6	7.8	7.5	7.4	6.4	6.4	6.8	7	6.8	6.9
pH Value (Field)	-	7.3	7.3	7	7.1	7.3	-	6.4	6.5	6.4	6.6	6.9
Redox Potential (ORP)	-	-113	-160	-184	-197	-195	-	-99	-103	-161	-164	-202
DO	-	2	5	1	1	1	-	2	6	2	4	3
Salinity	-	0.3	0.35	0.36	0.42	0.42	-	0.83	0.86	1.31	1.57	1.72
Electrical Conductivity	670	580	764	740	1023	500	1640	1385	1646	2230	2660	3020
Suspended Solids	2	18	16	<5	18	6	159	18	6	132	108	114
Calcium	78.9	77	80.8	93.5	84	70	100.4	107	93.7	78.4	166	136
Magnesium	13.6	14	15.8	16.7	17	23	226.5	19	19.5	33.2	38	45
Sodium	62	43	51.7	58.8	59	67	217.3	173	176.5	335.3	413	453
Potassium	5.4	6	7.2	7.1	7	6	15.6	13	10.1	14.2	16	17
Chloride	83	56	72	84	150	86	194	147	200	353	457	499
Sulphate	26	34	39	37	46	43	13	3	10	14	13	<5
Alkalinity	320	280	290	290	290	300	820	670	680	760	870	940
Nitrate	<1	3	18	<1	5	4	<1	<1	<1	1	9	2
Ammonium as NH4	0.09	0.53	0.28	0.21	0.01	0.32	6.71	10.6	8.65	21.2	20	1
COD	3	<2	8	<2	<2	9	25	33	63	71	95	101
BOD	<2	<2	<2	<2	<2	<2	<2	<2	15	6	19	5
Iron	64	312	52	50	133	34	26580	40	47960	25	555	34590
Boron	44	31	73	53	250	36	36	170	193	252	378	407
Arsenic	<5	<5	<5	<5	<5	<5	6	8	30	5	7	<5
Chromium	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Lead	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Nickel	7	2	3	5	3	2	7	8	7	6	7	6

Constituents	GW16D Campaign 1	GW16D Campaign 2	GW16D Campaign 3	GW16D Campaign 4	GW16D Campaign 5	GW16D Campaign 6	GW16D Dup Campaign 2	GW16D Dup Campaign 3	GW16D Dup Campaign 4	GW16D Dup Campaign 5	GW16D Dup Campaign 6	GW17 Campaign 1	GW17 Campaign 2	GW17 Campaign 3	GW17 Campaign 4	GW17 Campaign 5
pH Value (Lab)	7.3	7.6	7.7	7.9	7.4	7.6	7.6	7.7	7.9	7.5	7.6	-	-	7.3	8	6.9
pH Value (Field)	-	7.3	7.4	7.2	6.7	7.3	-	-	7.2	6.7	-	-	-	6.9	6	6.8
Redox Potential (ORP)	-	-21	-50	-65	44	-138	-	-	-65	44	-	-	-	91	28	17
DO	-	72	97	70	83	74	-	-	70	83	-	-	-	102	86	85
Salinity	-	0.28	0.24	0.29	0.28	0.31	-	-	0.29	0.28	-	-	-	0.18	0.17	0.16
Electrical Conductivity	590	561	625	621	578	627	553	614	622	551	597	-	-	420	374	326
Suspended Solids	334	12	28	14	2	20	22	10	10	16	12	-	-	16	18	24
Calcium	65.8	69	69.8	113.6	90	69	67	73	131.7	93	67	-	-	40	39.7	48
Magnesium	6.9	7	7.6	10.5	6	8	7	8.1	11.7	5	8	-	-	5.5	5.6	3
Sodium	51.3	63	50	79.2	61	55	59	52.2	88.9	53	54	-	-	30.5	35.7	18
Potassium	1.7	2	1.4	2.9	1	2	2	1.5	3.3	1	2	-	-	2.7	2.6	2
Chloride	69	46	54	46	40	47	46	54	44	40	47	-	-	37	48	32
Sulphate	57	53	58	55	53	60	55	59	54	53	61	-	-	25	22	18
Alkalinity	290	240	260	270	210	220	250	260	250	220	240	-	-	150	80	100
Nitrate	<1	5	<5	<5	5	6	6	<5	<5	5	6	-	-	23	22	18
Ammonium as NH4	<0.01	<0.01	0.1	0.26	0.02	0.01	<0.01	0.01	0.24	0.02	0.02	-	-	0.03	0.03	0.03
COD	<2	<2	<2	<2	<2	<2	>2	<2	<2	5	<2	-	-	9	<2	<2
BOD	<2	3	<2	<2	<2	2	2	<2	<2	<2	<2	-	-	<2	<2	<2
Iron	<10	<10	<10	11	<10	39	<10	24	10	<10	<10	-	-	<10	<10	<10
Boron	152	108	76	10	165	5	48	40	9	180	42	-	-	734	934	1402
Arsenic	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	-	<5	<5	<5
Chromium	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	-	<5	<5	<5
Lead	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	<1	<1	<1
Nickel	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	<1	<1	<1

Assessment Criteria :	Coastal and Estuarine EQS				
CaCO	0.00		0.00	DOC	0.00
Calcium	0.00	DOC	0.00	Catchment area	Freshwater not listed

Constituents	Unit	Generic Assessment Criteria (mg/l)	Number of Samples	Minimum Value	Maximum Value	Number of Exceedences	Locations of Exceedences
pH Value (Lab)	pH Units	No WSV	197	5.7	12.6	0	
pH Value (Field)	pH Units	No WSV	155	5.6	12.6	0	
Redox Potential (ORP)	mV	No WSV	155	-363	145	0	
DO	%	No WSV	155	1	102	0	
Copper	µg/l	0.00376	197	5	32	35	GW1 Campaign 2; GW1 Dup Campaign 1; GW1 Dup Campaign 2; GW2 Campaign 1; GW2 Campaign 2; GW3 Campaign 2; PZ_20 Campaign 2; PZ_19 Campaign 2; PZ_18 Campaign 2; GW6D Campaign 2; GW9S Campaign 2; GW9D Campaign 2; GW10 Campaign 2; GW11D Campaign 1; GW11D Campaign 2; GW11D Campaign 3; GW11S Campaign 2; GW11S1 Campaign 2; GW15 Campaign 2; GW15 Campaign 3; GW16D Campaign 2; GW16D Dup Campaign 2; GW20 Campaign 2; GW21 Campaign 2; GW22 Campaign 2; GW23 Campaign 2; GW23 Dup Campaign 2; GW24D Campaign 2; PZ_6 Campaign 2; PZ_14 Campaign 1; PZ_14 Campaign 2; PZ_16 Campaign 2; PZ_16 Campaign 3; PZ_16 Campaign 4; PZ_16 Campaign 5
Zinc	µg/l	0.0068	197	5	1234	188	GW1 Campaign 2; GW1 Campaign 3; GW1 Campaign 4; GW1 Campaign 5; GW1 Campaign 6; GW1 Dup Campaign 1; GW1 Dup Campaign 2; GW1 Dup Campaign 6; GW2 Campaign 1; GW2 Campaign 2; GW2 Campaign 3; GW2 Campaign 4; GW2 Campaign 5; GW2 Campaign 6; GW3 Campaign 1; GW3 Campaign 2; GW3 Campaign 3; GW3 Campaign 4; GW3 Campaign 5; GW3 Campaign 6; PZ_20 Campaign 1; PZ_20 Campaign 2; PZ_20 Campaign 3; PZ_20 Campaign 4; PZ_20 Campaign 5; PZ_20 Campaign 6; PZ_19 Campaign 1; PZ_19 Campaign 2; PZ_19 Campaign 3; PZ_19 Campaign 4; PZ_19 Campaign 5; PZ_19 Campaign 6; PZ_19 Dup Campaign 5; PZ_18 Campaign 1; PZ_18 Campaign 2; PZ_18 Campaign 3; PZ_18 Campaign 4; PZ_18 Campaign 5; PZ_18 Dup Campaign 3; GW6D Campaign 1; GW6D Campaign 2; GW6D Campaign 3; GW6D Campaign 4; GW6D Campaign 5; GW6D Campaign 6; GW7 Campaign 1; GW7 Campaign 2; GW7 Campaign 3; GW7 Campaign 4; GW7 Campaign 5; GW7 Campaign 6; GW8 Campaign 1; GW8 Campaign 2; GW8 Campaign 3; GW8 Campaign 4; GW8 Campaign 5; GW8 Campaign 6; GW9S Campaign 1; GW9S Campaign 2; GW9S Campaign 3; GW9S Campaign 4; GW9S Campaign 5; GW9S Campaign 6; GW9D Campaign 1; GW9D Campaign 2; GW9D Campaign 3; GW9D
Cadmium	µg/l	0.0002	197	<1	9	6	GW3 Campaign 1; PZ_20 Campaign 6; PZ_18 Campaign 2; GW6D Campaign 2; GW9S Campaign 3; GW12 Campaign 3
Mercury	µg/l	0.00007	197	0.1	2.5	14	PZ_20 Campaign 3; PZ_19 Campaign 3; GW6D Campaign 6; GW11D Campaign 2; GW11D Campaign 3; GW11D Campaign 4; GW11D Dup Campaign 4; GW16D Campaign 6; GW17 Campaign 6; PZ_21 Campaign 5; PZ_21 Campaign 6; GW20 Campaign 2; PZ_14 Campaign 1; PZ_16 Campaign 1
Total Phenols	µg/l	No WSV	197	0.5	<0.5	0	
Total Petroleum Hydrocarbons	µg/l	No WSV	197	<10	2233	0	
Free Cyanide	µg/l	0.001	197	5	21.1	6	PZ_20 Campaign 6; PZ_19 Campaign 6; GW20 Campaign 4; GW20 Campaign 5; GW21 Campaign 5; GW22 Campaign 5
Naphthalene	µg/l	0.002	197	<0.01	13.49	25	GW1 Campaign 5; GW6D Campaign 4; GW8 Campaign 2; GW9S Campaign 2; GW9S Campaign 5; GW9S Campaign 6; GW9D Campaign 2; GW9D Campaign 5; GW9D Campaign 6; GW10 Campaign 1; GW10 Campaign 2; GW10 Campaign 4; GW10 Dup Campaign 1; GW11D Campaign 6; GW12 Campaign 2; GW12 Campaign 5; GW12 Campaign 6; GW13 Campaign 6; GW15 Campaign 4; PZ_21 Campaign 6; GW20 Campaign 2; GW23 Campaign 2; GW23 Dup Campaign 2; PZ_6 Campaign 6; PZ_16 Campaign 6
Acenaphthylene	µg/l	N/A	197	0.01	0.12	0	
Acenaphthene	µg/l	N/A	197	0.01	3.76	0	
Fluorene	µg/l	N/A	197	<0.01	1.34	0	
Phenanthrene	µg/l	See BaP	197	<0.01	1	0	
Anthracene	µg/l	0.0001	197	0.01	0.1	18	GW1 Campaign 2; GW1 Campaign 6; GW1 Dup Campaign 6; GW2 Campaign 6; GW6D Campaign 4; GW6D Campaign 6; GW7 Campaign 2; GW8 Campaign 2; GW9S Campaign 6; GW9D Campaign 2; GW9D Campaign 6; GW10 Campaign 2; GW10 Campaign 6; GW11D Campaign 6; GW12 Campaign 6; PZ_21 Campaign 6; GW20 Campaign 6; GW21 Campaign 6
Fluoranthene	µg/l	0.0000063	197	<0.01	0.21	10	GW1 Campaign 2; GW6D Campaign 4; GW6D Campaign 6; GW7 Campaign 2; GW8 Campaign 2; GW10 Campaign 2; GW11D Campaign 1; GW11D Campaign 6; PZ_21 Campaign 6; GW20 Campaign 6
Pyrene	µg/l	N/A	197	<0.01	0.19	0	
Benz(a)anthracene	µg/l	No WSV	197	<0.01	0.12	0	
Chrysene	µg/l	See BaP	197	<0.01	0.12	0	
Benzo(b)fluoranthene	µg/l	0.000017	197	<0.01	0.13	1	GW6D Campaign 4
Benzo(k)fluoranthene	µg/l	0.000017	197	<0.01	0.16	1	GW6D Campaign 4
Benzo(a)pyrene	µg/l	0.00000017	197	<0.01	0.16	1	GW6D Campaign 4
Indeno(123-cd)pyrene	µg/l	N/A	197	0.01	<0.01	0	
Benzo(ghi)perylene	µg/l	0.00000082	197	0.01	<0.01	0	
Dibenz(ah)anthracene	µg/l	N/A	197	0.01	<0.01	0	
Total PAH	µg/l	No WSV	197	<0.01	19.89	0	
Benzene	µg/l	0.008	197	<0.01	<1	0	
Toluene	µg/l	0.074	197	<0.01	1	1	PZ_16 Campaign 3
Ethylbenzene	µg/l	0.02	197	<0.01	<1	0	
m&p-Xylene	µg/l	No WSV	197	<0.01	<1	0	
o-Xylene	µg/l	0.03	197	<0.01	<1	0	
Styrene	µg/l	0.05	197	<0.01	<1	0	
Propylbenzene	µg/l	No WSV	197	<0.01	<1	0	
Methylethylbenzene	µg/l	No WSV	197	<0.01	<1	0	
sec-Butylbenzene	µg/l	No WSV	197	<0.01	<1	0	
1,3,5-Trimethylbenzene	µg/l	No WSV	197	<0.01	<1	0	
tert-Butylbenzene	µg/l	No WSV	197	<0.01	1	0	
1-methylpropylbenzene	µg/l	No WSV	197	<0.01	<1	0	
Vinyl Chloride	µg/l	N/A	197	<0.01	<1	0	
cis 1,2-Dichloroethene	µg/l	No WSV	197	<0.01	137	0	
1,1-Dichloroethane	µg/l	No WSV	197	<0.01	<1	0	
Chloroform	µg/l	See Trihalomethanes	197	<0.01	4	0	
Carbontetrachloride	µg/l	No WSV	197	<0.01	<1	0	
1,1,1-Trichloroethane	µg/l	0.1	197	<0.01	3	2	PZ_14 Campaign 4; PZ_14 Campaign 6
Trichloroethylene	µg/l	0.01	197	<0.01	<1	0	
Tetrachloroethylene	µg/l	0.01	197	<0.01	31	1	GW20 Campaign 6
1,1,1,2-Tetrachloroethane	µg/l	No WSV	197	<0.01	<1	0	
1,1,2,2-Tetrachloroethane	µg/l	No WSV	197	<0.01	<1	0	
Chlorobenzene	µg/l	No WSV	197	<0.01	1	0	
1,1-Dichloro-1-Propene	µg/l	No WSV	197	<0.01	<1	0	
1,2-Dichloroethane	µg/l	0.01	197	<0.01	132	1	GW20 Campaign 6
2,2-Dichloropropane	µg/l	No WSV	197	<0.01	2	0	
trans 1,2-Dichloroethene	µg/l	No WSV	197	<0.01	<1	0	
Dibromomethane	µg/l	No WSV	197	<0.01	1	0	
1,2-Dichloropropane	µg/l	N/A	197	<0.01	<1	0	
cis 1,2-Dichloro-1-Propene	µg/l	No WSV	197	<0.01	<1	0	
trans 1,3-Dichloro-1-Propene	µg/l	No WSV	197	<0.01	3	0	
1,1,2-Trichloroethane	µg/l	0.3	197	<0.01	<1	0	
1,3-Dichloropropane	µg/l	No WSV	197	<0.01	<1	0	
2-Chlorotoluene	µg/l	No WSV	197	<0.01	<1	0	
1,2,4-Trimethylbenzene	µg/l	No WSV	197	<0.01	<1	0	
4-Chlorotoluene	µg/l	No WSV	197	<0.01	<1	0	

Constituents	GW11S Campaign 3	GW11S Campaign 4	GW11S Campaign 5	GW11S Campaign 6	GW11S1 Campaign 1	GW11S1 Campaign 2	GW11S1 Campaign 3	GW11S1 Campaign 4	GW11S1 Campaign 5	GW11S1 Campaign 6
pH Value (Lab)	7.6	7.5	7.1	6.9	7	6.9	7.4	7.6	8	7.1
pH Value (Field)	7.5	7	6.7	7.2	-	7.1	7.2	7.2	8.6	7.4
Redox Potential (ORP)	-7	-216	-168	-231	-	-169	-167	-180	-275	-219
DO	59	2	4	1	-	2	3	2	3	1
Copper	<5	<5	<5	<5	<5	16	<5	<5	<5	<5
Zinc	24	15	46	33	10	10	19	11	9	10
Cadmium	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Mercury	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Phenols	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Petroleum Hydrocarbons	<10	<10	<10	<10	<10	27	<10	<10	<10	<10
Free Cyanide	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Acenaphthylene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Acenaphthene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Fluorene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Phenanthrene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Anthracene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Fluoranthene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Pyrene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benz(a)anthracene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chrysene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b)fluoranthene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(k)fluoranthene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(a)pyrene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Indeno(123-cd)pyrene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(ghi)perylene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Dibenz(ah)anthracene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Total PAH	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
m&p-Xylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
o-Xylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Styrene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Propylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
tert-Butylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1-methylpropylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis 1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbontetrachloride	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloro-1-Propene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2,2-Dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans 1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis 1,2-Dichloro-1-Propene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans 1,3-Dichloro-1-Propene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Chlorotoluene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-Chlorotoluene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

Constituents	GW12 Campaign 1	GW12 Campaign 2	GW12 Campaign 3	GW12 Campaign 4	GW12 Campaign 5	GW12 Campaign 6	GW13 Campaign 1	GW13 Campaign 2	GW13 Campaign 3	GW13 Campaign 4	GW13 Campaign 5	GW13 Campaign 6
pH Value (Lab)	6.7	6.7	6.9	7.2	7	6.7	7.7	7.5	7.6	7.8	7.5	7.4
pH Value (Field)	-	6.7	6.9	6.7	6.7	7	-	7.3	7.3	7	7.1	7.3
Redox Potential (ORP)	-	-114	-156	-168	-195	-206	-	-113	-160	-184	-197	-195
DO	-	2	4	4	2	2	-	2	5	1	1	1
Copper	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Zinc	9	10	15	13	16	36	8	7	11	13	17	48
Cadmium	<1	<1	2	<1	<1	<1	<1	<1	<1	<1	<1	<1
Mercury	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Phenols	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Petroleum Hydrocarbons	<10	241	2233	<10	<10	<10	<10	413	648	<10	<10	<10
Free Cyanide	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene	<0.01	0.09	<0.01	<0.01	0.07	3.23	<0.01	<0.01	<0.01	<0.01	<0.01	0.81
Acenaphthylene	<0.01	0.04	<0.01	<0.01	<0.01	0.12	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Acenaphthene	<0.01	0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01
Fluorene	<0.01	<0.01	<0.01	<0.01	<0.01	0.17	<0.01	<0.01	<0.01	<0.01	<0.01	0.12
Phenanthrene	<0.01	<0.01	<0.01	<0.01	<0.01	0.24	<0.01	<0.01	<0.01	<0.01	<0.01	0.08
Anthracene	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Fluoranthene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Pyrene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benz(a)anthracene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chrysene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b)fluoranthene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(k)fluoranthene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(a)pyrene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Indeno(123-cd)pyrene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(ghi)perylene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Dibenz(ah)anthracene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Total PAH	<0.01	0.23	<0.01	<0.01	0.07	3.77	<0.01	<0.01	<0.01	<0.01	<0.01	1.02
Benzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
m&p-Xylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
o-Xylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Styrene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Propylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
tert-Butylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1-methylpropylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis 1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbontetrachloride	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloro-1-Propene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2,2-Dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans 1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis 1,2-Dichloro-1-Propene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans 1,3-Dichloro-1-Propene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Chlorotoluene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-Chlorotoluene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

Constituents	GW15 Campaign 1	GW15 Campaign 2	GW15 Campaign 3	GW15 Campaign 4	GW15 Campaign 5	GW15 Campaign 6	GW16D Campaign 1	GW16D Campaign 2	GW16D Campaign 3	GW16D Campaign 4	GW16D Campaign 5	GW16D Campaign 6
pH Value (Lab)	6.4	6.4	6.8	7	6.8	6.9	7.3	7.6	7.7	7.9	7.4	7.6
pH Value (Field)	-	6.4	6.5	6.4	6.6	6.9	-	7.3	7.4	7.2	6.7	7.3
Redox Potential (ORP)	-	-99	-103	-161	-164	-202	-	-21	-50	-65	44	-138
DO	-	2	6	2	4	3	-	72	97	70	83	74
Copper	<5	13	6	<5	<5	<5	<5	9	<5	<5	<5	<5
Zinc	9	12	41	5	24	10	6	24	12	15	11	10
Cadmium	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Mercury	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2
Total Phenols	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Petroleum Hydrocarbons	<10	156	248	<10	<10	<10	<10	<10	<10	<10	<10	558
Free Cyanide	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene	<0.01	<0.01	<0.01	0.06	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Acenaphthylene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Acenaphthene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Fluorene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Phenanthrene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Anthracene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Fluoranthene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Pyrene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benz(a)anthracene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chrysene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b)fluoranthene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(k)fluoranthene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(a)pyrene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Indeno(123-cd)pyrene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(ghi)perylene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Dibenz(ah)anthracene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Total PAH	<0.01	<0.01	<0.01	0.06	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
m&p-Xylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
o-Xylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Styrene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Propylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
tert-Butylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1-methylpropylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis 1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	<1	<1	<1	4	<1	<1	<1	<1	<1	<1	<1	<1
Carbontetrachloride	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	<1	<1	<1	1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloro-1-Propene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2,2-Dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans 1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis 1,2-Dichloro-1-Propene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans 1,3-Dichloro-1-Propene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Chlorotoluene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-Chlorotoluene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

Constituents	GW16D Dup Campaign 2	GW16D Dup Campaign 3	GW16D Dup Campaign 4	GW16D Dup Campaign 5	GW16D Dup Campaign 6	GW17 Campaign 1	GW17 Campaign 2	GW17 Campaign 3	GW17 Campaign 4	GW17 Campaign 5
pH Value (Lab)	7.6	7.7	7.9	7.5	7.6	-	-	7.3	8	6.9
pH Value (Field)	-	-	7.2	6.7	-	-	-	6.9	6	6.8
Redox Potential (ORP)	-	-	-65	44	-	-	-	91	28	17
DO	-	-	70	83	-	-	-	102	86	85
Copper	8	<5	<5	<5	<5	-	-	<5	<5	<5
Zinc	21	24	9	12	9	-	-	9	15	14
Cadmium	<1	<1	<1	<1	<1	-	-	<1	<1	<1
Mercury	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	<0.1	<0.1
Total Phenols	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5
Total Petroleum Hydrocarbons	<10	<10	<10	<10	<10	-	-	<10	<10	<10
Free Cyanide	<5	<5	<5	<5	<5	-	-	<5	<5	<5
Naphthalene	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	<0.01	<0.01	<0.01
Acenaphthylene	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	<0.01	<0.01	<0.01
Acenaphthene	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	<0.01	<0.01	<0.01
Fluorene	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	<0.01	<0.01	<0.01
Phenanthrene	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	<0.01	<0.01	<0.01
Anthracene	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	<0.01	<0.01	<0.01
Fluoranthene	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	<0.01	<0.01	<0.01
Pyrene	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	<0.01	<0.01	<0.01
Benz(a)anthracene	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	<0.01	<0.01	<0.01
Chrysene	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	<0.01	<0.01	<0.01
Benzo(b)fluoranthene	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	<0.01	<0.01	<0.01
Benzo(k)fluoranthene	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	<0.01	<0.01	<0.01
Benzo(a)pyrene	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	<0.01	<0.01	<0.01
Indeno(123-cd)pyrene	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	<0.01	<0.01	<0.01
Benzo(ghi)perylene	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	<0.01	<0.01	<0.01
Dibenz(ah)anthracene	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	<0.01	<0.01	<0.01
Total PAH	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	<0.01	<0.01	<0.01
Benzene	<1	<1	<1	<1	<1	-	-	<1	<1	<1
Toluene	<1	<1	<1	<1	<1	-	-	<1	<1	<1
Ethylbenzene	<1	<1	<1	<1	<1	-	-	<1	<1	<1
m&p-Xylene	<1	<1	<1	<1	<1	-	-	<1	<1	<1
o-Xylene	<1	<1	<1	<1	<1	-	-	<1	<1	<1
Styrene	<1	<1	<1	<1	<1	-	-	<1	<1	<1
Propylbenzene	<1	<1	<1	<1	<1	-	-	<1	<1	<1
Methylethylbenzene	<1	<1	<1	<1	<1	-	-	<1	<1	<1
sec-Butylbenzene	<1	<1	<1	<1	<1	-	-	<1	<1	<1
1,3,5-Trimethylbenzene	<1	<1	<1	<1	<1	-	-	<1	<1	<1
tert-Butylbenzene	<1	<1	<1	<1	<1	-	-	<1	<1	<1
1-methylpropylbenzene	<1	<1	<1	<1	<1	-	-	<1	<1	<1
Vinyl Chloride	<1	<1	<1	<1	<1	-	-	<1	<1	<1
cis 1,2-Dichloroethene	<1	<1	<1	<1	<1	-	-	<1	<1	<1
1,1-Dichloroethane	<1	<1	<1	<1	<1	-	-	<1	<1	<1
Chloroform	<1	<1	<1	<1	<1	-	-	<1	<1	<1
Carbontetrachloride	<1	<1	<1	<1	<1	-	-	<1	<1	<1
1,1,1-Trichloroethane	<1	<1	<1	<1	<1	-	-	<1	<1	<1
Trichloroethylene	<1	<1	<1	<1	<1	-	-	<1	<1	<1
Tetrachloroethylene	<1	<1	<1	<1	<1	-	-	<1	<1	<1
1,1,1,2-Tetrachloroethane	<1	<1	<1	<1	<1	-	-	<1	<1	<1
1,1,2,2-Tetrachloroethane	<1	<1	<1	<1	<1	-	-	<1	<1	<1
Chlorobenzene	<1	<1	<1	<1	<1	-	-	<1	<1	<1
1,1-Dichloro-1-Propene	<1	<1	<1	<1	<1	-	-	<1	<1	<1
1,2-Dichloroethane	<1	<1	<1	<1	<1	-	-	<1	<1	<1
2,2-Dichloropropane	<1	<1	<1	<1	<1	-	-	<1	<1	<1
trans 1,2-Dichloroethene	<1	<1	<1	<1	<1	-	-	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1	-	-	<1	<1	<1
1,2-Dichloropropane	<1	<1	<1	<1	<1	-	-	<1	<1	<1
cis 1,2-Dichloro-1-Propene	<1	<1	<1	<1	<1	-	-	<1	<1	<1
trans 1,3-Dichloro-1-Propene	<1	<1	<1	<1	<1	-	-	<1	<1	<1
1,1,2-Trichloroethane	<1	<1	<1	<1	<1	-	-	<1	<1	<1
1,3-Dichloropropane	<1	<1	<1	<1	<1	-	-	<1	<1	<1
2-Chlorotoluene	<1	<1	<1	<1	<1	-	-	<1	<1	<1
1,2,4-Trimethylbenzene	<1	<1	<1	<1	<1	-	-	<1	<1	<1
4-Chlorotoluene	<1	<1	<1	<1	<1	-	-	<1	<1	<1

Assessment Criteria :			*Coastal and Estuarine EQS*				
CaCO	0.00		0.00	DOC	0.00		
Calcium	0.00	DOC	0.00	Catchment area		Freshwater not listed	

Constituents	Unit	Generic Assessment Criteria (mg/l)	Number of Samples	Minimum Value	Maximum Value	Number of Exceedences	Locations of Exceedences	GW11S Campaign 3	GW11S Campaign 4	GW11S Campaign 5	GW11S Campaign 6	GW11S1 Campaign 1	GW11S1 Campaign 2	GW11S1 Campaign 3	GW11S1 Campaign 4	GW11S1 Campaign 5	GW11S1 Campaign 6	GW12 Campaign 1	GW12 Campaign 2	GW12 Campaign 3	GW12 Campaign 4	GW12 Campaign 5	GW12 Campaign 6	GW13 Campaign 1	GW13 Campaign 2	GW13 Campaign 3	GW13 Campaign 4	GW13 Campaign 5	GW13 Campaign 6	GW15 Campaign 1	GW15 Campaign 2	GW15 Campaign 3	GW15 Campaign 4	GW15 Campaign 5	GW15 Campaign 6	GW16D Campaign 1	GW16D Campaign 2	GW16D Campaign 3	GW16D Campaign 4	GW16D Campaign 5	GW16D Campaign 6	Dup Campaign 2	Dup Campaign 3	Dup Campaign 4	Dup Campaign 5	Dup Campaign 6	GW17 Campaign 1	GW17 Campaign 2	GW17 Campaign 3	GW17 Campaign 4	GW17 Campaign 5
pH Value (Lab)	pH Units	No WSV	197	5.7	12.6	0		7.6	7.5	7.1	6.9	7	6.9	7.4	7.6	8	7.1	6.7	6.7	6.9	7.2	7	6.7	7.7	7.5	7.6	7.8	7.5	7.4	6.4	6.4	6.8	7	6.8	6.9	7.3	7.6	7.7	7.9	7.4	7.6	7.6	7.7	7.9	7.5	7.6	-	-	7.3	8	6.9
pH Value (Field)	pH Units	No WSV	155	5.6	12.6	0		7.5	7	6.7	7.2	-	7.1	7.2	7.2	8.6	7.4	-	6.7	6.9	6.7	6.7	7	-	7.3	7.3	7	7.1	7.3	-	6.4	6.5	6.4	6.6	6.9	-	7.3	7.4	7.2	6.7	7.3	-	-	7.2	6.7	-	-	-	6.9	6	6.8
Redox Potential (ORP)	mV	No WSV	155	-363	145	0		-7	-216	-168	-231	-	-169	-167	-180	-275	-219	-	-114	-156	-168	-195	-206	-	-113	-160	-184	-197	-195	-	-99	-103	-161	-164	-202	-	-21	-50	-65	44	-138	-	-	-65	44	-	-	-	91	28	17
DO	%	No WSV	155	1	102	0		59	2	4	1	-	2	3	2	3	1	-	2	4	4	2	2	-	2	5	1	1	1	-	2	6	2	4	3	-	72	97	70	83	74	-	-	70	83	-	-	-	102	86	85
o-Cymene	µg/l	No WSV	197	<0.01	<1	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	µg/l	No WSV	197	<0.01	<1	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dibromo-3-chloropropane	µg/l	N/A	197	<0.01	<1	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Hexachlorobutadiene	µg/l	0.0006	197	<0.01	1	1	GW11S1 Campaign 6	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-Trichlorobenzene	µg/l	No WSV	197	<0.01	<1	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	µg/l	No WSV	197	<0.01	<1	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichlorobenzene	µg/l	No WSV	197	<0.01	<1	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	µg/l	No WSV	197	<0.01	<1	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromochloromethane	µg/l	No WSV	197	<0.01	1	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromethane	µg/l	No WSV	197	<0.01	1	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromobenzene	µg/l	No WSV	197	<0.01	<1	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	µg/l	N/A	197	<0.01	<1	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromochloromethane	µg/l	N/A	197	<0.01	<1	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
PCB28	µg/l	No WSV	197	0.01	<0.01	0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB52	µg/l	No WSV	197	<0.01	0.17	0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB101	µg/l	No WSV	197	0.01	<0.01	0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB118	µg/l	No WSV	197	0.01	<0.01	0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB138	µg/l	No WSV	197	0.01	<0.01	0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB153	µg/l	No WSV	197	0.01	<0.01	0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB180	µg/l	No WSV	197	0.01	<0.01	0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Total PCB	µg/l	No WSV	197	<0.01	0.17	0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

ATKINS

Assessment Criteria : *Coastal and Estuarine EQS*

CaCO	0.00		0.00	DOC	0.00		
Calcium	0.00	DOC	0.00		Catchment area	Freshwater not listed	

Constituents	Unit	Generic Assessment Criteria (mg/l)	Number of Samples	Minimum Value	Maximum Value	Number of Exceedences	Locations of Exceedences
pH Value (Lab)	pH Units	No WSV	197	5.7	12.6	0	
pH Value (Field)	pH Units	No WSV	155	5.6	12.6	0	
Redox Potential (ORP)	mV	No WSV	155	-363	145	0	
DO	%	No WSV	155	1	102	0	
Salinity	pss	No WSV	155	0	17.9	0	
Electrical Conductivity	µS/cm	No WSV	197	0.49	26100	0	
Suspended Solids	mg/l	No WSV	197	<0.5	1200	0	
Calcium	mg/l	N/A	197	14	8925	0	
Magnesium	mg/l	N/A	197	0.5	533.8	0	
Sodium	mg/l	N/A	197	4	5336	0	
Potassium	mg/l	N/A	197	1	141	0	
Chloride	mg/l	N/A	197	13	8504	0	
Sulphate	mg/l	N/A	197	1	1197	0	
Alkalinity	mg/l CaCO3	No WSV	197	30	1360	0	
Nitrate	mg/l	N/A	197	1	214	0	
Ammonium as NH4	mg/l	Not appropriate, see Unionised Ammonia	197	<0.01	42	0	
COD	mg/l	No WSV	197	<2	120	0	
BOD	mg/l	No WSV	197	2	33	0	
Iron	µg/l	1	197	10	54370	115	GW1 Dup Campaign 1; GW2 Campaign 1; GW2 Campaign 2; GW2 Campaign 4; GW3 Campaign 2; GW3 Campaign 5; PZ_20 Campaign 5; PZ_19 Campaign 2; PZ_19 Campaign 3; PZ_19 Campaign 4; PZ_19 Campaign 5; PZ_19 Dup Campaign 5; PZ_18 Campaign 1; PZ_18 Campaign 3; PZ_18 Campaign 4; PZ_18 Campaign 5; PZ_18 Dup Campaign 3; GW6D Campaign 1; GW6D Campaign 3; GW6D Campaign 5; GW6D Campaign 6; GW7 Campaign 1; GW7 Campaign 2; GW7 Campaign 3; GW7 Campaign 4; GW7 Campaign 5; GW8 Campaign 1; GW8 Campaign 2; GW8 Campaign 3; GW8 Campaign 4; GW8 Campaign 5; GW8 Campaign 6; GW9S Campaign 1; GW9S Campaign 2; GW9S Campaign 4; GW9S Campaign 5; GW9S Campaign 6; GW9D Campaign 1; GW9D Campaign 2; GW9D Campaign 3; GW9D Campaign 4; GW9D Campaign 5; GW9D Campaign 6; GW10 Campaign 1; GW10 Campaign 2; GW10 Campaign 3; GW10 Campaign 4; GW10 Campaign 5; GW10 Campaign 6; GW10 Dup Campaign 1; GW11D Campaign 3; GW11D Campaign 4; GW11D Campaign 5; GW11D Dup Campaign 4; GW11S Campaign 1; GW11S Campaign 2; GW11S Campaign 3; GW11S Campaign 4; GW11S Campaign 5; GW11S1 Campaign 1; GW11S1 Campaign 2; GW11S1 Campaign 3; GW11S1 Campaign 4; GW11S1 Campaign
Boron	µg/l	7	197	5	1402	149	GW1 Campaign 2; GW1 Campaign 3; GW1 Campaign 4; GW1 Campaign 5; GW1 Campaign 6; GW1 Dup Campaign 1; GW1 Dup Campaign 2; GW1 Dup Campaign 6; GW2 Campaign 5; GW2 Campaign 6; GW3 Campaign 2; GW3 Campaign 5; GW3 Campaign 6; PZ_20 Campaign 2; PZ_20 Campaign 4; PZ_20 Campaign 5; PZ_19 Campaign 2; PZ_19 Campaign 4; PZ_19 Campaign 5; PZ_19 Campaign 6; PZ_18 Campaign 1; PZ_18 Campaign 2; PZ_18 Campaign 4; PZ_18 Campaign 5; PZ_18 Campaign 6; PZ_18 Dup Campaign 3; GW6D Campaign 2; GW6D Campaign 4; GW6D Campaign 6; GW7 Campaign 3; GW7 Campaign 4; GW7 Campaign 5; GW7 Campaign 6; GW8 Campaign 1; GW8 Campaign 2; GW8 Campaign 3; GW8 Campaign 4; GW8 Campaign 5; GW8 Campaign 6; GW9S Campaign 1; GW9S Campaign 2; GW9S Campaign 3; GW9S Campaign 4; GW9S Campaign 5; GW9S Campaign 6; GW9D Campaign 1; GW9D Campaign 2; GW9D Campaign 3; GW9D Campaign 4; GW9D Campaign 5; GW9D Campaign 6; GW10 Campaign 1; GW10 Campaign 2; GW10 Campaign 3; GW10 Campaign 4; GW10 Campaign 5; GW10 Campaign 6; GW10 Dup Campaign 1; GW11D Campaign 6; GW11D Dup Campaign 4; GW11S Campaign 2; GW11S Campaign 3; GW11S Campaign 4; GW11S Campaign
Arsenic	µg/l	0.025	197	5	77	43	PZ_18 Campaign 1; PZ_18 Campaign 2; PZ_18 Campaign 3; PZ_18 Campaign 4; PZ_18 Campaign 5; PZ_18 Campaign 6; PZ_18 Dup Campaign 3; GW7 Campaign 1; GW7 Campaign 2; GW7 Campaign 3; GW7 Campaign 4; GW7 Campaign 5; GW7 Campaign 6; GW8 Campaign 1; GW8 Campaign 2; GW8 Campaign 3; GW8 Campaign 4; GW8 Campaign 5; GW8 Campaign 6; GW9S Campaign 6; GW9D Campaign 6; GW10 Campaign 2; GW10 Campaign 3; GW10 Campaign 6; GW11D Campaign 4; GW11D Campaign 6; GW11D Dup Campaign 4; GW11S Campaign 2; GW11S Campaign 5; GW11S1 Campaign 2; GW11S1 Campaign 4; GW11S1 Campaign 5; GW11S1 Campaign 6; GW15 Campaign 1; GW15 Campaign 2; GW15 Campaign 3; GW15 Campaign 4; GW15 Campaign 5; GW24S Campaign 1; GW24S Campaign 3; GW24S Campaign 4; PZ_14 Campaign 1; PZ_16 Campaign 2
Chromium	µg/l	0.0006	197	<5	7	1	PZ_14 Campaign 1
Lead	µg/l	0.0013	197	1	6	10	GW1 Dup Campaign 1; GW2 Campaign 1; GW3 Campaign 2; GW6D Campaign 6; GW10 Campaign 2; GW11S Campaign 2; GW23 Campaign 2; GW23 Dup Campaign 2; PZ_6 Campaign 2; PZ_16 Campaign 2
Nickel	µg/l	0.0086	197	1	99	151	GW1 Campaign 2; GW1 Campaign 3; GW1 Campaign 4; GW1 Campaign 5; GW1 Campaign 6; GW1 Dup Campaign 1; GW1 Dup Campaign 2; GW1 Dup Campaign 6; GW2 Campaign 1; GW2 Campaign 2; GW2 Campaign 3; GW2 Campaign 4; GW2 Campaign 5; GW2 Campaign 6; GW3 Campaign 1; GW3 Campaign 2; GW3 Campaign 3; GW3 Campaign 4; GW3 Campaign 5; GW3 Campaign 6; PZ_20 Campaign 1; PZ_20 Campaign 2; PZ_20 Campaign 4; PZ_20 Campaign 6; PZ_19 Campaign 1; PZ_19 Campaign 2; PZ_19 Campaign 3; PZ_19 Campaign 4; PZ_19 Campaign 5; PZ_19 Campaign 6; PZ_19 Dup Campaign 5; PZ_18 Campaign 1; PZ_18 Campaign 2; PZ_18 Campaign 3; PZ_18 Campaign 4; PZ_18 Campaign 5; PZ_18 Campaign 6; PZ_18 Dup Campaign 3; GW6D Campaign 1; GW6D Campaign 2; GW6D Campaign 3; GW6D Campaign 4; GW6D Campaign 5; GW6D Campaign 6; GW7 Campaign 1; GW7 Campaign 4; GW7 Campaign 6; GW8 Campaign 1; GW8 Campaign 3; GW8 Campaign 5; GW8 Campaign 6; GW9S Campaign 1; GW9S Campaign 2; GW9S Campaign 3; GW9S Campaign 4; GW9S Campaign 5; GW9D Campaign 4; GW10 Campaign 1; GW10 Campaign 2; GW10 Campaign 3; GW10 Campaign 4; GW10 Campaign 5; GW10 Campaign 6; GW10 Dup Campaign 1; GW11D Campaign 1; GW11D Campaign 2;

Constituents	GW17 Campaign 6	GW18 Campaign 1	GW18 Campaign 2	GW18 Campaign 3	GW18 Campaign 4	GW18 Campaign 5	GW18 Campaign 6	PZ_21 Campaign 1	PZ_21 Campaign 2	PZ_21 Campaign 3	PZ_21 Campaign 4	PZ_21 Campaign 5	PZ_21 Campaign 6	GW20 Campaign 1	GW20 Campaign 2	GW20 Campaign 3	GW20 Campaign 4	GW20 Campaign 5	GW20 Campaign 6	GW20 Dup Campaign 1	GW20 Dup Campaign 3
pH Value (Lab)	7.2	-	-	7.5	7.6	6.7	-	-	-	7.1	7.6	7.2	6.9	6.9	7	8.2	7.4	7.2	7.3	6.9	8.3
pH Value (Field)	7	-	-	7.2	6.5	6.2	-	-	-	6.7	6.8	6.8	7.1	-	6.7	6.9	7	6.9	6.8	-	-
Redox Potential (ORP)	-18	-	-	64	-25	54	-	-	-	52	-103	-40	-85	-	67	91	-96	15	70	-	-
DO	81	-	-	80	78	86	-	-	-	8	3	4	2	-	57	33	32	34	42	-	-
Salinity	0.18	-	-	0.12	0.08	0.07	-	-	-	0.67	0.66	0.73	0.75	-	0.22	0.21	0.44	0.45	0.45	-	-
Electrical Conductivity	400	-	-	99	188	138	-	-	-	1330	1281	1442	1493	520	540	607	899	889	874	520	538
Suspended Solids	6	-	-	4	216	22	-	-	-	<5	64	14	22	11	44	28	102	22	36	15	44
Calcium	34	-	-	34.9	24.6	58	-	-	-	203.9	188.9	211	219	68.4	73	86.3	108.5	156	112	74.8	79.3
Magnesium	6	-	-	3.9	3.1	2	-	-	-	15	14.9	16	17	9.3	10	11.6	18.3	22	26	10.2	10.5
Sodium	38	-	-	11.1	11.2	14	-	-	-	66.9	66	92	107	24.4	31	26.1	24.6	25	7	26.7	25.1
Potassium	3	-	-	3.1	3.1	2	-	-	-	5.6	5.5	7	8.5	2.6	3	3.7	4.2	5	32	2.8	3.4
Chloride	42	-	-	15	16	17	-	-	-	160	203	354	258	31	27	25	72	66	52	36	25
Sulphate	22	-	-	24	16	24	-	-	-	28	32	31	29	25	25	27	49	47	71	30	28
Alkalinity	90	-	-	80	60	60	-	-	-	180	390	210	360	260	240	240	240	180	160	270	260
Nitrate	19	-	-	<5	8	7	-	-	-	67	16	24	25	50	52	44	191	202	214	50	43
Ammonium as NH4	0.04	-	-	<0.01	0.11	<0.01	-	-	-	0.11	0.04	0.32	0.02	0.02	<0.01	0.03	0.01	<0.01	0.03	0.02	0.03
COD	<2	-	-	13	<2	<2	-	-	-	<2	<2	<2	<2	<2	5	<2	<2	<2	<2	<2	<2
BOD	<2	-	-	<2	<2	<2	-	-	-	<2	9	<2	<2	<2	13	<2	<2	<2	#	<2	<2
Iron	<10	-	-	<10	42	<10	-	-	-	<10	<10	<10	<10	<10	<10	16	72	<10	<10	<10	<10
Boron	791	-	-	<5	<5	109	-	-	-	<5	144	<5	49	36	<5	33	77	148	<5	16	21
Arsenic	<5	-	-	<5	<5	<5	-	-	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chromium	<5	-	-	<5	<5	<5	-	-	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Lead	<1	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Nickel	<1	-	-	3	<1	1	-	-	-	5	2	2	4	2	2	1	<1	<1	<1	2	1

Constituents	GW21 Campaign 1	GW21 Campaign 2	GW21 Campaign 3	GW21 Campaign 4	GW21 Campaign 5	GW21 Campaign 6	GW22 Campaign 1	GW22 Campaign 2	GW22 Campaign 3	GW22 Campaign 4	GW22 Campaign 5	GW22 Campaign 6	GW23 Campaign 1	GW23 Campaign 2	GW23 Campaign 3	GW23 Campaign 4	GW23 Campaign 5	GW23 Campaign 6	GW23 Dup Campaign 2	GW23 Dup Campaign 6	GW24D Campaign 1	GW24D Campaign 2	GW24D Campaign 3
pH Value (Lab)	5.9	6	7.8	6.4	6.1	6.5	7	7	8.1	7	6.3	6.6	7.3	7.1	8.3	7.3	6.9	7.3	7	7.4	7.3	8.4	7.2
pH Value (Field)	-	6	5.9	5.9	5.7	6.5	-	6.8	7	6.3	6.1	6.3	-	6.8	6.8	6.3	6.5	6.8	-	-	-	7.3	7
Redox Potential (ORP)	-	96	101	41	79	6	-	53	109	15	62	93	-	-35	61	-13	54	61	-	-	-	-125	-166
DO	-	65	72	65	72	71	-	20	14	64	5	5	-	4	10	11	4	2	-	-	-	3	4
Salinity	-	0.24	0.22	0.26	0.25	0.28	-	0.18	0.18	0.29	0.41	0.41	-	0.33	0.32	0.35	0.34	0.34	-	-	-	1.12	1.11
Electrical Conductivity	540	597	619	568	494	564	493	447	472	597	772	798	742	796	836	740	701	656	795	680	1877	2110	1948
Suspended Solids	44	10	38	198	6	36	14	2	32	68	10	6	86	22	26	58	20	14	2	8	300	18	40
Calcium	64.1	57	74.4	62.9	36	68	65.9	50	71.8	84	159	122	107.3	110.2	133.6	111	160	107	120.6	109	219.7	308	335.4
Magnesium	7.2	6	9.2	7.3	5	8	5.5	4	5.2	5.9	11	13	10.4	4.4	5.6	6.6	7	9	5.1	9	22.5	25	26.1
Sodium	25.2	29	27.4	23.6	50	28	18.6	19	15.2	16.2	28	31	23	29.2	26.8	20	38	23	33.2	27	120.4	119	119.1
Potassium	2.8	3	3.5	2.7	2	3	5.3	5	6.3	5.5	4	5	6.4	1.3	1.7	2.8	3	3	1.5	3	13.3	8	8.9
Chloride	57	54	52	42	47	45	36	29	28	36	51	57	38	51	54	48	47	50	51	50	458	528	508
Sulphate	55	52	52	47	51	49	30	25	25	35	79	90	31	37	53	100	97	107	36	107	5	3	<5
Alkalinity	270	50	120	60	30	120	230	80	150	120	130	140	440	240	370	190	250	180	290	170	400	380	360
Nitrate	145	148	127	118	124	122	77	63	56	101	166	173	33	32	14	47	50	59	32	60	1	<1	<5
Ammonium as NH4	0.37	<0.01	0.08	<0.01	0.06	9	0.19	<0.01	0.04	<0.01	0.01	0.02	0.48	<0.01	0.02	0.11	0.03	0.06	<0.01	0.03	1.62	0.9	0.47
COD	<2	<2	<2	<2	<2	<2	<2	<2	<2	3	<2	<2	<2	<2	<2	<2	4	<2	<2	<2	17	<2	7
BOD	<2	<2	<2	<2	<2	#	<2	<2	<2	<2	<2	#	<2	<2	<2	<2	<2	<2	<2	#	<2	3	<2
Iron	<10	<10	<10	50	<10	<10	17	12	12	11	<10	<10	<10	<10	21	<10	<10	<10	<10	<10	60	17	53
Boron	33	<5	10	141	288	21	59	<5	13	151	178	39	539	<5	67	176	183	35	27	23	<5	67	63
Arsenic	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chromium	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Lead	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	<1	<1	<1	<1	1	<1	<1	<1	<1
Nickel	5	5	6	3	4	3	2	2	1	2	7	4	<1	2	2	1	2	2	2	2	3	2	<1

ATKINS

Assessment Criteria :	Coastal and Estuarine EQS					
CaCO	0.00		0.00	DOC	0.00	
Calcium	0.00	DOC	0.00		Catchment area	Freshwater not listed

Constituents	Unit	Generic Assessment Criteria (mg/l)	Number of Samples	Minimum Value	Maximum Value	Number of Exceedences	Locations of Exceedences
pH Value (Lab)	pH Units	No WSV	197	5.7	12.6	0	
pH Value (Field)	pH Units	No WSV	155	5.6	12.6	0	
Redox Potential (ORP)	mV	No WSV	155	-363	145	0	
DO	%	No WSV	155	1	102	0	
Copper	µg/l	0.00376	197	5	32	35	GW1 Campaign 2; GW1 Dup Campaign 1; GW1 Dup Campaign 2; GW2 Campaign 1; GW2 Campaign 2; GW3 Campaign 2; PZ_20 Campaign 2; PZ_19 Campaign 2; PZ_18 Campaign 2; GW6D Campaign 2; GW9S Campaign 2; GW9D Campaign 2; GW10 Campaign 2; GW11D Campaign 1; GW11D Campaign 2; GW11D Campaign 3; GW11S Campaign 2; GW11S1 Campaign 2; GW15 Campaign 2; GW15 Campaign 3; GW16D Campaign 2; GW16D Dup Campaign 2; GW20 Campaign 2; GW21 Campaign 2; GW22 Campaign 2; GW23 Campaign 2; GW23 Dup Campaign 2; GW24D Campaign 2; PZ_6 Campaign 2; PZ_14 Campaign 1; PZ_14 Campaign 2; PZ_16 Campaign 2; PZ_16 Campaign 3; PZ_16 Campaign 4; PZ_16 Campaign 5
Zinc	µg/l	0.0068	197	5	1234	188	GW1 Campaign 2; GW1 Campaign 3; GW1 Campaign 4; GW1 Campaign 5; GW1 Campaign 6; GW1 Dup Campaign 1; GW1 Dup Campaign 2; GW1 Dup Campaign 6; GW2 Campaign 1; GW2 Campaign 2; GW2 Campaign 3; GW2 Campaign 4; GW2 Campaign 5; GW2 Campaign 6; GW3 Campaign 1; GW3 Campaign 2; GW3 Campaign 3; GW3 Campaign 4; GW3 Campaign 5; GW3 Campaign 6; PZ_20 Campaign 1; PZ_20 Campaign 2; PZ_20 Campaign 3; PZ_20 Campaign 4; PZ_20 Campaign 5; PZ_20 Campaign 6; PZ_19 Campaign 1; PZ_19 Campaign 2; PZ_19 Campaign 3; PZ_19 Campaign 4; PZ_19 Campaign 5; PZ_19 Campaign 6; PZ_19 Dup Campaign 5; PZ_18 Campaign 1; PZ_18 Campaign 2; PZ_18 Campaign 3; PZ_18 Campaign 4; PZ_18 Campaign 5; PZ_18 Dup Campaign 3; GW6D Campaign 1; GW6D Campaign 2; GW6D Campaign 3; GW6D Campaign 4; GW6D Campaign 5; GW6D Campaign 6; GW7 Campaign 1; GW7 Campaign 2; GW7 Campaign 3; GW7 Campaign 4; GW7 Campaign 5; GW7 Campaign 6; GW8 Campaign 1; GW8 Campaign 2; GW8 Campaign 3; GW8 Campaign 4; GW8 Campaign 5; GW8 Campaign 6; GW9S Campaign 1; GW9S Campaign 2; GW9S Campaign 3; GW9S Campaign 4; GW9S Campaign 5; GW9S Campaign 6; GW9D Campaign 1; GW9D [illegible]
Cadmium	µg/l	0.0002	197	<1	9	6	GW3 Campaign 1; PZ_20 Campaign 6; PZ_18 Campaign 2; GW6D Campaign 2; GW9S Campaign 3; GW12 Campaign 3
Mercury	µg/l	0.00007	197	0.1	2.5	14	PZ_20 Campaign 3; PZ_19 Campaign 3; GW6D Campaign 6; GW11D Campaign 2; GW11D Campaign 3; GW11D Campaign 4; GW11D Dup Campaign 4; GW16D Campaign 6; GW17 Campaign 6; PZ_21 Campaign 5; PZ_21 Campaign 6; GW20 Campaign 2; PZ_14 Campaign 1; PZ_16 Campaign 1
Total Phenols	µg/l	No WSV	197	0.5	<0.5	0	
Total Petroleum Hydrocarbons	µg/l	No WSV	197	<10	2233	0	
Free Cyanide	µg/l	0.001	197	5	21.1	6	PZ_20 Campaign 6; PZ_19 Campaign 6; GW20 Campaign 4; GW20 Campaign 5; GW21 Campaign 5; GW22 Campaign 5
Naphthalene	µg/l	0.002	197	<0.01	13.49	25	GW1 Campaign 5; GW6D Campaign 4; GW8 Campaign 2; GW9S Campaign 2; GW9S Campaign 5; GW9S Campaign 6; GW9D Campaign 2; GW9D Campaign 5; GW9D Campaign 6; GW10 Campaign 1; GW10 Campaign 2; GW10 Campaign 4; GW10 Dup Campaign 1; GW11D Campaign 6; GW12 Campaign 2; GW12 Campaign 5; GW12 Campaign 6; GW13 Campaign 6; GW15 Campaign 4; PZ_21 Campaign 6; GW20 Campaign 2; GW23 Campaign 2; GW23 Dup Campaign 2; PZ_6 Campaign 6; PZ_16 Campaign 6
Acenaphthylene	µg/l	N/A	197	0.01	0.12	0	
Acenaphthene	µg/l	N/A	197	0.01	3.76	0	
Fluorene	µg/l	N/A	197	<0.01	1.34	0	
Phenanthrene	µg/l	See BaP	197	<0.01	1	0	
Anthracene	µg/l	0.0001	197	0.01	0.1	18	GW1 Campaign 2; GW1 Campaign 6; GW1 Dup Campaign 6; GW2 Campaign 6; GW6D Campaign 4; GW6D Campaign 6; GW7 Campaign 2; GW8 Campaign 2; GW9S Campaign 6; GW9D Campaign 2; GW9D Campaign 6; GW10 Campaign 2; GW10 Campaign 6; GW11D Campaign 6; GW12 Campaign 6; PZ_21 Campaign 6; GW20 Campaign 6; GW21 Campaign 6
Fluoranthene	µg/l	0.0000063	197	<0.01	0.21	10	GW1 Campaign 2; GW6D Campaign 4; GW6D Campaign 6; GW7 Campaign 2; GW8 Campaign 2; GW10 Campaign 2; GW11D Campaign 1; GW11D Campaign 6; PZ_21 Campaign 6; GW20 Campaign 6
Pyrene	µg/l	N/A	197	<0.01	0.19	0	
Benz(a)anthracene	µg/l	No WSV	197	<0.01	0.12	0	
Chrysene	µg/l	See BaP	197	<0.01	0.12	0	
Benzo(b)fluoranthene	µg/l	0.000017	197	<0.01	0.13	1	GW6D Campaign 4
Benzo(k)fluoranthene	µg/l	0.000017	197	<0.01	0.16	1	GW6D Campaign 4
Benzo(a)pyrene	µg/l	0.00000017	197	<0.01	0.16	1	GW6D Campaign 4
Indeno(123-cd)pyrene	µg/l	N/A	197	0.01	<0.01	0	
Benzo(ghi)perylene	µg/l	0.00000082	197	0.01	<0.01	0	
Dibenz(ah)anthracene	µg/l	N/A	197	0.01	<0.01	0	
Total PAH	µg/l	No WSV	197	<0.01	19.89	0	
Benzene	µg/l	0.008	197	<0.01	<1	0	
Toluene	µg/l	0.074	197	<0.01	1	1	PZ_16 Campaign 3
Ethylbenzene	µg/l	0.02	197	<0.01	<1	0	
m&p-Xylene	µg/l	No WSV	197	<0.01	<1	0	
o-Xylene	µg/l	0.03	197	<0.01	<1	0	
Styrene	µg/l	0.05	197	<0.01	<1	0	
Propylbenzene	µg/l	No WSV	197	<0.01	<1	0	
Methylethylbenzene	µg/l	No WSV	197	<0.01	<1	0	
sec-Butylbenzene	µg/l	No WSV	197	<0.01	<1	0	
1,3,5-Trimethylbenzene	µg/l	No WSV	197	<0.01	<1	0	
tert-Butylbenzene	µg/l	No WSV	197	<0.01	1	0	
1-methylpropylbenzene	µg/l	No WSV	197	<0.01	<1	0	
Vinyl Chloride	µg/l	N/A	197	<0.01	<1	0	
cis 1,2-Dichloroethene	µg/l	No WSV	197	<0.01	137	0	
1,1-Dichloroethane	µg/l	No WSV	197	<0.01	<1	0	
Chloroform	µg/l	See Trihalomethanes	197	<0.01	4	0	
Carbontetrachloride	µg/l	No WSV	197	<0.01	<1	0	
1,1,1-Trichloroethane	µg/l	0.1	197	<0.01	3	2	PZ_14 Campaign 4; PZ_14 Campaign 6
Trichloroethylene	µg/l	0.01	197	<0.01	<1	0	
Tetrachloroethylene	µg/l	0.01	197	<0.01	31	1	GW20 Campaign 6
1,1,1,2-Tetrachloroethane	µg/l	No WSV	197	<0.01	<1	0	
1,1,2,2-Tetrachloroethane	µg/l	No WSV	197	<0.01	<1	0	
Chlorobenzene	µg/l	No WSV	197	<0.01	1	0	
1,1-Dichloro-1-Propene	µg/l	No WSV	197	<0.01	<1	0	
1,2-Dichloroethane	µg/l	0.01	197	<0.01	132	1	GW20 Campaign 6
2,2-Dichloropropane	µg/l	No WSV	197	<0.01	2	0	
trans 1,2-Dichloroethene	µg/l	No WSV	197	<0.01	<1	0	
Dibromomethane	µg/l	No WSV	197	<0.01	1	0	
1,2-Dichloropropane	µg/l	N/A	197	<0.01	<1	0	
cis 1,2-Dichloro-1-Propene	µg/l	No WSV	197	<0.01	<1	0	
trans 1,3-Dichloro-1-Propene	µg/l	No WSV	197	<0.01	3	0	
1,1,2-Trichloroethane	µg/l	0.3	197	<0.01	<1	0	
1,3-Dichloropropane	µg/l	No WSV	197	<0.01	<1	0	
2-Chlorotoluene	µg/l	No WSV	197	<0.01	<1	0	
1,2,4-Trimethylbenzene	µg/l	No WSV	197	<0.01	<1	0	
4-Chlorotoluene	µg/l	No WSV	197	<0.01	<1	0	

Constituents	GW17 Campaign 6	GW18 Campaign 1	GW18 Campaign 2	GW18 Campaign 3	GW18 Campaign 4	GW18 Campaign 5	GW18 Campaign 6	PZ_21 Campaign 1	PZ_21 Campaign 2	PZ_21 Campaign 3	PZ_21 Campaign 4	PZ_21 Campaign 5	PZ_21 Campaign 6	GW20 Campaign 1	GW20 Campaign 2	GW20 Campaign 3	GW20 Campaign 4	GW20 Campaign 5	GW20 Campaign 6	GW20 Dup Campaign 1	GW20 Dup Campaign 3	GW21 Campaign 1
pH Value (Lab)	7.2	-	-	7.5	7.6	6.7	-	-	-	7.1	7.6	7.2	6.9	6.9	7	8.2	7.4	7.2	7.3	6.9	8.3	5.9
pH Value (Field)	7	-	-	7.2	6.5	6.2	-	-	-	6.7	6.8	6.8	7.1	-	6.7	6.9	7	6.9	6.8	-	-	-
Redox Potential (ORP)	-18	-	-	64	-25	54	-	-	-	52	-103	-40	-85	-	67	91	-96	15	70	-	-	-
DO	81	-	-	80	78	86	-	-	-	8	3	4	2	-	57	33	32	34	42	-	-	-
Copper	<5	-	-	<5	<5	<5	-	-	-	<5	<5	<5	<5	<5	17	<5	<5	<5	<5	<5	<5	<5
Zinc	10	-	-	10	16	33	-	-	-	37	45	54	45	10	23	67	13	11	10	7	81	24
Cadmium	<1	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Mercury	0.1`	-	-	<0.1	<0.1	<0.1	-	-	-	<0.1	<0.1	0.2	0.1	<0.1	0.1	<0.1	<1	<1	<0.1	<0.1	<0.1	<0.1
Total Phenols	<0.5	-	-	<0.5	<0.5	<0.5	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Petroleum Hydrocarbons	<10	-	-	<10	<10	<10	-	-	-	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Free Cyanide	<5	-	-	<5	<5	<5	-	-	-	<5	<5	<5	<5	<5	<5	<5	5	10.5	<5	<5	<5	<5
Naphthalene	<0.01	-	-	<0.01	<0.01	<0.01	-	-	-	<0.01	<0.01	<0.01	0.05	<0.01	0.22	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Acenaphthylene	<0.01	-	-	<0.01	<0.01	<0.01	-	-	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01
Acenaphthene	<0.01	-	-	<0.01	<0.01	<0.01	-	-	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.17	<0.01	<0.01	<0.01
Fluorene	<0.01	-	-	<0.01	<0.01	<0.01	-	-	-	<0.01	<0.01	<0.01	0.09	<0.01	<0.01	<0.01	<0.01	<0.01	0.18	<0.01	<0.01	<0.01
Phenanthrene	<0.01	-	-	<0.01	<0.01	<0.01	-	-	-	<0.01	<0.01	<0.01	0.14	<0.01	<0.01	<0.01	<0.01	<0.01	0.22	<0.01	<0.01	<0.01
Anthracene	<0.01	-	-	<0.01	<0.01	<0.01	-	-	-	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01
Fluoranthene	<0.01	-	-	<0.01	<0.01	<0.01	-	-	-	<0.01	<0.01	<0.01	0.04	<0.01	<0.01	<0.01	<0.01	<0.01	0.08	<0.01	<0.01	<0.01
Pyrene	<0.01	-	-	<0.01	<0.01	<0.01	-	-	-	<0.01	<0.01	<0.01	0.04	<0.01	<0.01	<0.01	<0.01	<0.01	0.07	<0.01	<0.01	<0.01
Benz(a)anthracene	<0.01	-	-	<0.01	<0.01	<0.01	-	-	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chrysene	<0.01	-	-	<0.01	<0.01	<0.01	-	-	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b)fluoranthene	<0.01	-	-	<0.01	<0.01	<0.01	-	-	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(k)fluoranthene	<0.01	-	-	<0.01	<0.01	<0.01	-	-	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(a)pyrene	<0.01	-	-	<0.01	<0.01	<0.01	-	-	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Indeno(123-cd)pyrene	<0.01	-	-	<0.01	<0.01	<0.01	-	-	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(ghi)perylene	<0.01	-	-	<0.01	<0.01	<0.01	-	-	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Dibenz(ah)anthracene	<0.01	-	-	<0.01	<0.01	<0.01	-	-	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Total PAH	<0.01	-	-	<0.01	<0.01	<0.01	-	-	-	<0.01	<0.01	<0.01	0.37	<0.01	0.22	<0.01	<0.01	<0.01	0.76	<0.01	<0.01	<0.01
Benzene	<1	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	<1	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	<1	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
m&p-Xylene	<1	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
o-Xylene	<1	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Styrene	<1	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Propylbenzene	<1	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylethylbenzene	<1	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene	<1	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene	<1	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
tert-Butylbenzene	<1	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1-methylpropylbenzene	<1	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	<1	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis 1,2-Dichloroethene	<1	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	137	<1	<1	<1
1,1-Dichloroethane	<1	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	<1	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbontetrachloride	<1	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	<1	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethylene	<1	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	<1	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	31	<1	<1	<1
1,1,1,2-Tetrachloroethane	<1	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	<1	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	<1	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloro-1-Propene	<1	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	<1	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	132	<1	<1	<1
2,2-Dichloropropane	<1	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans 1,2-Dichloroethene	<1	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	<1	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	<1	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis 1,2-Dichloro-1-Propene	<1	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans 1,3-Dichloro-1-Propene	<1	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	<1	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichloropropane	<1	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Chlorotoluene	<1	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene	<1	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-Chlorotoluene	<1	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

Constituents	GW21 Campaign 2	GW21 Campaign 3	GW21 Campaign 4	GW21 Campaign 5	GW21 Campaign 6	GW22 Campaign 1	GW22 Campaign 2	GW22 Campaign 3	GW22 Campaign 4	GW22 Campaign 5	GW22 Campaign 6	GW23 Campaign 1	GW23 Campaign 2	GW23 Campaign 3	GW23 Campaign 4	GW23 Campaign 5	GW23 Campaign 6	GW23 Dup Campaign 2	GW23 Dup Campaign 6	GW24D Campaign 1	GW24D Campaign 2	GW24D Campaign 3
pH Value (Lab)	6	7.8	6.4	6.1	6.5	7	7	8.1	7	6.3	6.6	7.3	7.1	8.3	7.3	6.9	7.3	7	7.4	7.3	8.4	7.2
pH Value (Field)	6	5.9	5.9	5.7	6.5	-	6.8	7	6.3	6.1	6.3	-	6.8	6.8	6.3	6.5	6.8	-	-	-	7.3	7
Redox Potential (ORP)	96	101	41	79	6	-	53	109	15	62	93	-	-35	61	-13	54	61	-	-	-	-125	-166
DO	65	72	65	72	71	-	20	14	64	5	5	-	4	10	11	4	2	-	-	-	3	4
Copper	17	<5	<5	<5	<5	<5	17	<5	<5	<5	<5	<5	16	<5	<5	<5	<5	18	<5	<5	5	<5
Zinc	41	238	76	79	28	13	20	28	22	67	30	8	21	84	15	10	13	24	11	6	81	13
Cadmium	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Mercury	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Phenols	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Petroleum Hydrocarbons	56	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Free Cyanide	<5	<5	<5	18.2	<5	<5	<5	<5	<5	21.1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.53	<0.01	<0.01	<0.01	<0.01	0.56	<0.01	<0.01	<0.01	<0.01
Acenaphthylene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Acenaphthene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Fluorene	<0.01	<0.01	<0.01	<0.01	0.04	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.04	<0.01	<0.01	<0.01
Phenanthrene	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01
Anthracene	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Fluoranthene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Pyrene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benz(a)anthracene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chrysene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b)fluoranthene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(k)fluoranthene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(a)pyrene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Indeno(123-cd)pyrene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(ghi)perylene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Dibenz(ah)anthracene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Total PAH	<0.01	<0.01	<0.01	<0.01	0.08	<0.01	<0.01	<0.01	<0.01	<0.01	0.04	<0.01	0.53	<0.01	<0.01	<0.01	<0.01	0.56	0.07	<0.01	<0.01	<0.01
Benzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
m&p-Xylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
o-Xylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Styrene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Propylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
tert-Butylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1-methylpropylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis 1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbontetrachloride	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloro-1-Propene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2,2-Dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans 1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis 1,2-Dichloro-1-Propene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans 1,3-Dichloro-1-Propene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Chlorotoluene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-Chlorotoluene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

ATKINS

Assessment Criteria :	Coastal and Estuarine EQS						
CaCO	0.00		0.00	DOC	0.00		
Calcium	0.00	DOC	0.00		Catchment area	Freshwater not listed	

Constituents	Unit	Generic Assessment Criteria (mg/l)	Number of Samples	Minimum Value	Maximum Value	Number of Exceedences	Locations of Exceedences	GW17 Campaign 6	GW18 Campaign 1	GW18 Campaign 2	GW18 Campaign 3	GW18 Campaign 4	GW18 Campaign 5	GW18 Campaign 6	PZ_21 Campaign 1	PZ_21 Campaign 2	PZ_21 Campaign 3	PZ_21 Campaign 4	PZ_21 Campaign 5	PZ_21 Campaign 6	GW20 Campaign 1	GW20 Campaign 2	GW20 Campaign 3	GW20 Campaign 4	GW20 Campaign 5	GW20 Campaign 6	GW20 Dup Campaign 1	GW20 Dup Campaign 3	GW21 Campaign 1	GW21 Campaign 2	GW21 Campaign 3	GW21 Campaign 4	GW21 Campaign 5	GW21 Campaign 6	GW22 Campaign 1	GW22 Campaign 2	GW22 Campaign 3	GW22 Campaign 4	GW22 Campaign 5	GW22 Campaign 6	GW23 Campaign 1	GW23 Campaign 2	GW23 Campaign 3	GW23 Campaign 4	GW23 Campaign 5	GW23 Campaign 6	GW23 Dup Campaign 2	GW23 Dup Campaign 6	GW24D Campaign 1	GW24D Campaign 2	GW24D Campaign 3
pH Value (Lab)	pH Units	No WSV	197	5.7	12.6	0		7.2	-	-	7.5	7.6	6.7	-	-	-	7.1	7.6	7.2	6.9	6.9	7	8.2	7.4	7.2	7.3	6.9	8.3	5.9	6	7.8	6.4	6.1	6.5	7	7	8.1	7	6.3	6.6	7.3	7.1	8.3	7.3	6.9	7.3	7	7.4	7.3	8.4	7.2
pH Value (Field)	pH Units	No WSV	155	5.6	12.6	0		7	-	-	7.2	6.5	6.2	-	-	-	6.7	6.8	6.8	7.1	-	6.7	6.9	7	6.9	6.8	-	-	-	6	5.9	5.9	5.7	6.5	-	6.8	7	6.3	6.1	6.3	-	6.8	6.8	6.3	6.5	6.8	-	-	-	7.3	7
Redox Potential (ORP)	mV	No WSV	155	-363	145	0		-18	-	-	64	-25	54	-	-	-	52	-103	-40	-85	-	67	91	-96	15	70	-	-	-	96	101	41	79	6	-	53	109	15	62	93	-	-35	61	-13	54	61	-	-	-	-125	-166
DO	%	No WSV	155	1	102	0		81	-	-	80	78	86	-	-	-	8	3	4	2	-	57	33	32	34	42	-	-	-	65	72	65	72	71	-	20	14	64	5	5	-	4	10	11	4	2	-	-	-	3	4
o-Cymene	µg/l	No WSV	197	<0.01	<1	0		<1	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	µg/l	No WSV	197	<0.01	<1	0		<1	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dibromo-3-chloropropane	µg/l	N/A	197	<0.01	<1	0		<1	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Hexachlorobutadiene	µg/l	0.0006	197	<0.01	1	1	GW11S1 Campaign 6	<1	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-Trichlorobenzene	µg/l	No WSV	197	<0.01	<1	0		<1	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	µg/l	No WSV	197	<0.01	<1	0		<1	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichlorobenzene	µg/l	No WSV	197	<0.01	<1	0		<1	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	µg/l	No WSV	197	<0.01	<1	0		<1	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromochloromethane	µg/l	No WSV	197	<0.01	1	0		<1	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromethane	µg/l	No WSV	197	<0.01	1	0		<1	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromobenzene	µg/l	No WSV	197	<0.01	<1	0		<1	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	µg/l	N/A	197	<0.01	<1	0		<1	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromochloromethane	µg/l	N/A	197	<0.01	<1	0		<1	-	-	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
PCB28	µg/l	No WSV	197	0.01	<0.01	0		<0.01	-	-	<0.01	<0.01	<0.01	-	-	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB52	µg/l	No WSV	197	<0.01	0.17	0		<0.01	-	-	<0.01	<0.01	<0.01	-	-	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB101	µg/l	No WSV	197	0.01	<0.01	0		<0.01	-	-	<0.01	<0.01	<0.01	-	-	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB118	µg/l	No WSV	197	0.01	<0.01	0		<0.01	-	-	<0.01	<0.01	<0.01	-	-	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB138	µg/l	No WSV	197	0.01	<0.01	0		<0.01	-	-	<0.01	<0.01	<0.01	-	-	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB153	µg/l	No WSV	197	0.01	<0.01	0		<0.01	-	-	<0.01	<0.01	<0.01	-	-	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB180	µg/l	No WSV	197	0.01	<0.01	0		<0.01	-	-	<0.01	<0.01	<0.01	-	-	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Total PCB	µg/l	No WSV	197	<0.01	0.17	0		<0.01	-	-	<0.01	<0.01	<0.01	-	-	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

Assessment Criteria :	Coastal and Estuarine EQS					
CaCO	0.00		0.00	DOC	0.00	
Calcium	0.00	DOC	0.00	Catchment area	Freshwater not listed	

Constituents	Unit	Generic Assessment Criteria (mg/l)	Number of Samples	Minimum Value	Maximum Value	Number of Exceedences	Locations of Exceedences
pH Value (Lab)	pH Units	No WSV	197	5.7	12.6	0	
pH Value (Field)	pH Units	No WSV	155	5.6	12.6	0	
Redox Potential (ORP)	mV	No WSV	155	-363	145	0	
DO	%	No WSV	155	1	102	0	
Salinity	pss	No WSV	155	0	17.9	0	
Electrical Conductivity	µS/cm	No WSV	197	0.49	26100	0	
Suspended Solids	mg/l	No WSV	197	<0.5	1200	0	
Calcium	mg/l	N/A	197	14	8925	0	
Magnesium	mg/l	N/A	197	0.5	533.8	0	
Sodium	mg/l	N/A	197	4	5336	0	
Potassium	mg/l	N/A	197	1	141	0	
Chloride	mg/l	N/A	197	13	8504	0	
Sulphate	mg/l	N/A	197	1	1197	0	
Alkalinity	mg/l CaCO3	No WSV	197	30	1360	0	
Nitrate	mg/l	N/A	197	1	214	0	
Ammonium as NH4	mg/l	Not appropriate, see Unionised Ammonia	197	<0.01	42	0	
COD	mg/l	No WSV	197	<2	120	0	
BOD	mg/l	No WSV	197	2	33	0	
Iron	µg/l	1	197	10	54370	115	GW1 Dup Campaign 1; GW2 Campaign 1; GW2 Campaign 2; GW2 Campaign 4; GW3 Campaign 2; GW3 Campaign 5; PZ_20 Campaign 5; PZ_19 Campaign 2; PZ_19 Campaign 3; PZ_19 Campaign 4; PZ_19 Campaign 5; PZ_19 Dup Campaign 5; PZ_18 Campaign 1; PZ_18 Campaign 3; PZ_18 Campaign 4; PZ_18 Campaign 5; PZ_18 Dup Campaign 3; GW6D Campaign 1; GW6D Campaign 3; GW6D Campaign 5; GW6D Campaign 6; GW7 Campaign 1; GW7 Campaign 2; GW7 Campaign 3; GW7 Campaign 4; GW7 Campaign 5; GW8 Campaign 1; GW8 Campaign 2; GW8 Campaign 3; GW8 Campaign 4; GW8 Campaign 5; GW8 Campaign 6; GW9S Campaign 1; GW9S Campaign 2; GW9S Campaign 4; GW9S Campaign 5; GW9S Campaign 6; GW9D Campaign 1; GW9D Campaign 2; GW9D Campaign 3; GW9D Campaign 4; GW9D Campaign 5; GW9D Campaign 6; GW10 Campaign 1; GW10 Campaign 2; GW10 Campaign 3; GW10 Campaign 4; GW10 Campaign 5; GW10 Campaign 6; GW10 Dup Campaign 1; GW11D Campaign 3; GW11D Campaign 4; GW11D Campaign 5; GW11D Dup Campaign 4; GW11S Campaign 1; GW11S Campaign 2; GW11S Campaign 3; GW11S Campaign 4; GW11S Campaign 5; GW11S1 Campaign 1; GW11S1 Campaign 2; GW11S1 Campaign 3; GW11S1 Campaign 4; GW11S1 Campaign
Boron	µg/l	7	197	5	1402	149	Campaign 4; GW1 Campaign 5; GW1 Campaign 6; GW1 Dup Campaign 1; GW1 Dup Campaign 2; GW1 Dup Campaign 6; GW2 Campaign 5; GW2 Campaign 6; GW3 Campaign 2; GW3 Campaign 5; GW3 Campaign 6; PZ_20 Campaign 2; PZ_20 Campaign 4; PZ_20 Campaign 5; PZ_19 Campaign 2; PZ_19 Campaign 4; PZ_19 Campaign 5; PZ_19 Campaign 6; PZ_18 Campaign 1; PZ_18 Campaign 2; PZ_18 Campaign 4; PZ_18 Campaign 5; PZ_18 Campaign 6; PZ_18 Dup Campaign 3; GW6D Campaign 2; GW6D Campaign 4; GW6D Campaign 6; GW7 Campaign 3; GW7 Campaign 4; GW7 Campaign 5; GW7 Campaign 6; GW8 Campaign 1; GW8 Campaign 2; GW8 Campaign 3; GW8 Campaign 4; GW8 Campaign 5; GW8 Campaign 6; GW9S Campaign 1; GW9S Campaign 2; GW9S Campaign 3; GW9S Campaign 4; GW9S Campaign 5; GW9S Campaign 6; GW9D Campaign 1; GW9D Campaign 2; GW9D Campaign 3; GW9D Campaign 4; GW9D Campaign 5; GW9D Campaign 6; GW10 Campaign 1; GW10 Campaign 2; GW10 Campaign 3; GW10 Campaign 4; GW10 Campaign 5; GW10 Campaign 6; GW10 Dup Campaign 1; GW11D Campaign 6; GW11D Dup Campaign 4; GW11S Campaign 2; GW11S Campaign 3; GW11S Campaign 4; GW11S Campaign
Arsenic	µg/l	0.025	197	5	77	43	PZ_18 Campaign 1; PZ_18 Campaign 2; PZ_18 Campaign 3; PZ_18 Campaign 4; PZ_18 Campaign 5; PZ_18 Campaign 6; PZ_18 Dup Campaign 3; GW7 Campaign 1; GW7 Campaign 2; GW7 Campaign 3; GW7 Campaign 4; GW7 Campaign 5; GW7 Campaign 6; GW8 Campaign 1; GW8 Campaign 2; GW8 Campaign 3; GW8 Campaign 4; GW8 Campaign 5; GW8 Campaign 6; GW9S Campaign 6; GW9D Campaign 6; GW10 Campaign 2; GW10 Campaign 3; GW10 Campaign 6; GW11D Campaign 4; GW11D Campaign 6; GW11D Dup Campaign 4; GW11S Campaign 2; GW11S Campaign 5; GW11S1 Campaign 2; GW11S1 Campaign 4; GW11S1 Campaign 5; GW11S1 Campaign 6; GW15 Campaign 1; GW15 Campaign 2; GW15 Campaign 3; GW15 Campaign 4; GW15 Campaign 5; GW24S Campaign 1; GW24S Campaign 3; GW24S Campaign 4; PZ_14 Campaign 1; PZ_16 Campaign 2
Chromium	µg/l	0.0006	197	<5	7	1	PZ_14 Campaign 1
Lead	µg/l	0.0013	197	1	6	10	GW1 Dup Campaign 1; GW2 Campaign 1; GW3 Campaign 2; GW6D Campaign 6; GW10 Campaign 2; GW11S Campaign 2; GW23 Campaign 2; GW23 Dup Campaign 2; PZ_6 Campaign 2; PZ_16 Campaign 2
Nickel	µg/l	0.0086	197	1	99	151	Campaign 4; GW1 Campaign 5; GW1 Campaign 6; GW1 Dup Campaign 1; GW1 Dup Campaign 2; GW1 Dup Campaign 6; GW2 Campaign 1; GW2 Campaign 2; GW2 Campaign 3; GW2 Campaign 4; GW2 Campaign 5; GW2 Campaign 6; GW3 Campaign 1; GW3 Campaign 2; GW3 Campaign 3; GW3 Campaign 4; GW3 Campaign 5; GW3 Campaign 6; PZ_20 Campaign 1; PZ_20 Campaign 2; PZ_20 Campaign 4; PZ_20 Campaign 6; PZ_19 Campaign 1; PZ_19 Campaign 2; PZ_19 Campaign 3; PZ_19 Campaign 4; PZ_19 Campaign 5; PZ_19 Campaign 6; PZ_19 Dup Campaign 5; PZ_18 Campaign 1; PZ_18 Campaign 2; PZ_18 Campaign 3; PZ_18 Campaign 4; PZ_18 Campaign 5; PZ_18 Campaign 6; PZ_18 Dup Campaign 3; GW6D Campaign 1; GW6D Campaign 2; GW6D Campaign 3; GW6D Campaign 4; GW6D Campaign 5; GW6D Campaign 6; GW7 Campaign 1; GW7 Campaign 4; GW7 Campaign 6; GW8 Campaign 1; GW8 Campaign 3; GW8 Campaign 5; GW8 Campaign 6; GW9S Campaign 1; GW9S Campaign 2; GW9S Campaign 3; GW9S Campaign 4; GW9S Campaign 5; GW9D Campaign 4; GW10 Campaign 1; GW10 Campaign 2; GW10 Campaign 3; GW10 Campaign 4; GW10 Campaign 5; GW10 Campaign 6; GW10 Dup Campaign 1;

Constituents	GW24D Campaign 4	GW24D Campaign 5	GW24D Campaign 6	GW24D Dup Campaign 4	GW24S Campaign 1	GW24S Campaign 2	GW24S Campaign 3	GW24S Campaign 4	GW24S Campaign 5	GW24S Campaign 6	PZ_6 Campaign 1	PZ_6 Campaign 2	PZ_6 Campaign 3	PZ_6 Campaign 4	PZ_6 Campaign 5	PZ_6 Campaign 6	PZ_14 Campaign 1	PZ_14 Campaign 2	PZ_14 Campaign 3	PZ_14 Campaign 4	PZ_14 Campaign 5	PZ_14 Campaign 6	PZ_16 Campaign 1	PZ_16 Campaign 2	PZ_16 Campaign 3	PZ_16 Campaign 4	PZ_16 Campaign 5	PZ_16 Campaign 6	PZ_16 Dup Campaign 5	
pH Value (Lab)	6.7	7.3	7	6.7	7.2	8.2	7.2	7.5	7.5	7.2	7	7.1	7.1	7.2	6.9	6.9	7.4	7.9	7.7	7.5	7.5	7.5	7.8	7.1	6.9	7	6.5	6.6	6.5	
pH Value (Field)	6.9	6.7	7.5	6.9	-	7.4	7.1	6.9	7.1	7.5	-	7.2	7.3	6.9	7.1	-	-	7.7	7.4	7.6	7.7	6.9	-	7	6.7	6.5	6.5	6.8	-	
Redox Potential (ORP)	-135	-165	-228	-135	-	-138	-164	-189	-196	-231	-	-143	-196	-184	-194	-	-	20	-104	-3	28	57	-	-109	-91	-152	-151	-152	-	
DO	66	2	1	66	-	2	4	2	4	1	-	4	4	17	3	-	-	43	48	34	25	58	-	5	2	7	3	2	-	
Salinity	1.08	1.06	1.1	1.08	-	1.47	1.5	1.55	1.47	1.42	-	0.79	0.81	0.8	0.81	-	-	0.2	0.2	0.2	0.2	0.21	-	1.12	16.04	17.9	17.66	11.67	-	
Electrical Conductivity	2040	1860	1990	2100	2390	2650	2860	2890	2640	2590	1430	1519	1589	1599	1558	1300	6390	393	490	424	411	444	540	1997	21600	26100	21300	18710	20200	
Suspended Solids	8	172	24	22	10	18	4	56	83	<0.5	84	2	16	66	122	22	186	14	12	20	8	2	38	14	58	16	134	152	172	
Calcium	315.2	306	255	322.7	78.9	123	166.2	284.2	135	97	141.8	183	196.4	155.7	222	135	250.4	41	53.8	43.2	76	49	40.9	125	1153	8925	1066	1147	1035	
Magnesium	22.7	22	19	23.4	35.8	53	59.8	99.4	49	37	14.5	19	19.4	15.8	19	15	82.3	7	8	7.5	7	9	6.6	28	466.5	533.8	296	352	265	
Sodium	112.5	107	92	116.1	306.8	382	443.6	730	389	345	128.6	188	170.1	141.8	160	133	1286	39	37.2	32.5	26	60	34.7	272	4703	5336	3578	3221	2954	
Potassium	7.6	7	5	7.9	10.1	15	15.9	27.8	13	11	6.6	10	8.9	6.7	9	7	24.1	4	4.2	3.5	4	5	3.6	10	36.5	38.3	27	32	24	
Chloride	498	473	464	498	650	728	764	752	734	704	323	317	330	315	321	329	1746	41	42	36	28	54	58	440	8504	1270	6844	6382	6599	
Sulphate	7	7	<5	<5	2	2	<1	<5	<5	<5	7	9	8	9	8	7	327	48	56	57	51	57	50	83	981	1197	932	855	850	
Alkalinity	350	340	420	360	200	320	270	270	230	280	270	310	380	350	420	420	800	110	200	130	80	150	140	410	290	360	160	400	210	
Nitrate	<1	<1	<1	<1	<1	<1	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	34	33	29	27	36	27	<1	<1	<1	<1	<1	<1	
Ammonium as NH4	0.42	1.1	0.5	0.58	10.27	4.24	4.1	0.06	4.8	2.7	7	10.6	8.2	10.1	7	2.1	0.05	<0.01	<0.1	0.01	0.16	0.07	0.81	9	0.85	3.71	1.2	0.05	1.2	
COD	<2	<2	<2	<2	22	<2	<2	<2	<2	<2	5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	95	26	50	78	<2	120	31	
BOD	<2	2	<2	2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	15	26	5	22	<2	33	<2	
Iron	11	6009	<10	<10	29	11	3500	566	10	<10	<10	<10	9693	36	317	9101	9417	<10	13	<10	<10	<10	<10	3470	21910	18640	<10	10800	85	
Boron	38	<5	114	42	94	<5	102	103	14	51	36	115	27	82	<5	59	439	<5	<5	49	<5	30	32	127	417	667	<5	106	<5	
Arsenic	<5	<5	<5	<5	6	<5	12	5	<5	<5	<5	<5	<5	<5	<5	<5	6	<5	<5	<5	<5	<5	<5	9	<5	<5	<5	<5	<5	
Chromium	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	7	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
Lead	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2	<1	<1	<1	<1	<1	
Nickel	2	2	2	2	2	2	2	2	2	2	<1	4	<1	<1	<1	<1	12	<1	<1	<1	<1	3	<1	2	5	5	2	6	2	

ATKINS

Assessment Criteria : *Coastal and Estuarine EQS*

CaCO	0.00		0.00	DOC	0.00
Calcium	0.00	DOC	0.00	Catchment area	Freshwater not listed

Constituents	Unit	Generic Assessment Criteria (mg/l)	Number of Samples	Minimum Value	Maximum Value	Number of Exceedences	Locations of Exceedences	GW24D Campaign 4	GW24D Campaign 5	GW24D Campaign 6	GW24D Dup Campaign 4	GW24S Campaign 1	GW24S Campaign 2	GW24S Campaign 3	GW24S Campaign 4	GW24S Campaign 5	GW24S Campaign 6	PZ_6 Campaign 1	PZ_6 Campaign 2	PZ_6 Campaign 3	PZ_6 Campaign 4	PZ_6 Campaign 5	PZ_6 Campaign 6	PZ_14 Campaign 1	PZ_14 Campaign 2	PZ_14 Campaign 3	PZ_14 Campaign 4	PZ_14 Campaign 5	PZ_14 Campaign 6	PZ_16 Campaign 1	PZ_16 Campaign 2	PZ_16 Campaign 3	PZ_16 Campaign 4	PZ_16 Campaign 5	PZ_16 Campaign 6	PZ_16 Dup Campaign 5
pH Value (Lab)	pH Units	No WSV	197	5.7	12.6	0		6.7	7.3	7	6.7	7.2	8.2	7.2	7.5	7.5	7.2	7	7.1	7.1	7.2	6.9	6.9	7.4	7.9	7.7	7.5	7.5	7.5	7.8	7.1	6.9	7	6.5	6.6	6.5
pH Value (Field)	pH Units	No WSV	155	5.6	12.6	0		6.9	6.7	7.5	6.9	-	7.4	7.1	6.9	7.1	7.5	-	7.2	7.3	6.9	7.1	-	-	7.7	7.4	7.6	7.7	6.9	-	7	6.7	6.5	6.5	6.8	-
Redox Potential (ORP)	mV	No WSV	155	-363	145	0		-135	-165	-228	-135	-	-138	-164	-189	-196	-231	-	-143	-196	-184	-194	-	-	20	-104	-3	28	57	-	-109	-91	-152	-151	-152	-
DO	%	No WSV	155	1	102	0		66	2	1	66	-	2	4	2	4	1	-	4	4	17	3	-	-	43	48	34	25	58	-	5	2	7	3	2	-
Copper	µg/l	0.00376	197	5	32	35	GW1 Campaign 2; GW1 Dup Campaign 1; GW1 Dup Campaign 2; GW2 Campaign 1; GW2 Campaign 2; GW3 Campaign 2; PZ_20 Campaign 2; PZ_19 Campaign 2; PZ_18 Campaign 2; GW6D Campaign 2; GW9S Campaign 2; GW9D Campaign 2; GW10 Campaign 2; GW11D Campaign 1; GW11D Campaign 2; GW11D Campaign 3; GW11S Campaign 2; GW11S1 Campaign 2; GW15 Campaign 2; GW15 Campaign 3; GW16D Campaign 2; GW16D Dup Campaign 2; GW20 Campaign 2; GW21 Campaign 2; GW22 Campaign 2; GW23 Campaign 2; GW23 Dup Campaign 2; GW24D Campaign 2; PZ_6 Campaign 2; PZ_14 Campaign 1; PZ_14 Campaign 2; PZ_16 Campaign 2; PZ_16 Campaign 3; PZ_16 Campaign 4; PZ_16 Campaign 5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	13	<5	<5	<5	<5	32	9	<5	<5	<5	<5	<5	6	8	8	7	<5	<5
Zinc	µg/l	0.0068	197	5	1234	188	GW1 Campaign 2; GW1 Campaign 3; GW1 Campaign 4; GW1 Campaign 5; GW1 Campaign 6; GW1 Dup Campaign 1; GW1 Dup Campaign 2; GW1 Dup Campaign 6; GW2 Campaign 1; GW2 Campaign 2; GW2 Campaign 3; GW2 Campaign 4; GW2 Campaign 5; GW2 Campaign 6; GW3 Campaign 1; GW3 Campaign 2; GW3 Campaign 3; GW3 Campaign 4; GW3 Campaign 5; GW3 Campaign 6; PZ_20 Campaign 1; PZ_20 Campaign 2; PZ_20 Campaign 3; PZ_20 Campaign 4; PZ_20 Campaign 5; PZ_20 Campaign 6; PZ_19 Campaign 1; PZ_19 Campaign 2; PZ_19 Campaign 3; PZ_19 Campaign 4; PZ_19 Campaign 5; PZ_19 Campaign 6; PZ_19 Dup Campaign 5; PZ_18 Campaign 1; PZ_18 Campaign 2; PZ_18 Campaign 3; PZ_18 Campaign 4; PZ_18 Campaign 5; PZ_18 Dup Campaign 3; GW6D Campaign 1; GW6D Campaign 2; GW6D Campaign 3; GW6D Campaign 4; GW6D Campaign 5; GW6D Campaign 6; GW7 Campaign 1; GW7 Campaign 2; GW7 Campaign 3; GW7 Campaign 4; GW7 Campaign 5; GW7 Campaign 6; GW8 Campaign 1; GW8 Campaign 2; GW8 Campaign 3; GW8 Campaign 4; GW8 Campaign 5; GW8 Campaign 6; GW9S Campaign 1; GW9S Campaign 2; GW9S Campaign 3; GW9S Campaign 4; GW9S Campaign 5; GW9S Campaign 6; GW9D Campaign 1; GW9D Campaign 2; GW9D Campaign 3; GW9D	18	16	32	18	<5	329	21	18	16	11	1234	68	14	14	16	<5	90	25	12	17	9	33	67	15	61	99	44	83	53
Cadmium	µg/l	0.0002	197	<1	9	6	GW3 Campaign 1; PZ_20 Campaign 6; PZ_18 Campaign 2; GW6D Campaign 2; GW9S Campaign 3; GW12 Campaign 3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Mercury	µg/l	0.00007	197	0.1	2.5	14	PZ_20 Campaign 3; PZ_19 Campaign 3; GW6D Campaign 6; GW11D Campaign 2; GW11D Campaign 3; GW11D Campaign 4; GW11D Dup Campaign 4; GW16D Campaign 6; GW17 Campaign 6; PZ_21 Campaign 5; PZ_21 Campaign 6; GW20 Campaign 2; PZ_14 Campaign 1; PZ_16 Campaign 1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.5	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Phenols	µg/l	No WSV	197	0.5	<0.5	0		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Petroleum Hydrocarbons	µg/l	No WSV	197	<10	2233	0		92	<10	<10	91	<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
Free Cyanide	µg/l	0.001	197	5	21.1	6	PZ_20 Campaign 6; PZ_19 Campaign 6; GW20 Campaign 4; GW20 Campaign 5; GW21 Campaign 5; GW22 Campaign 5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene	µg/l	0.002	197	<0.01	13.49	25	GW1 Campaign 5; GW6D Campaign 4; GW8 Campaign 2; GW9S Campaign 2; GW9S Campaign 5; GW9S Campaign 6; GW9D Campaign 2; GW9D Campaign 5; GW9D Campaign 6; GW10 Campaign 1; GW10 Campaign 2; GW10 Campaign 4; GW10 Dup Campaign 1; GW11D Campaign 6; GW12 Campaign 2; GW12 Campaign 5; GW12 Campaign 6; GW13 Campaign 6; GW15 Campaign 4; PZ_21 Campaign 6; GW20 Campaign 2; GW23 Campaign 2; GW23 Dup Campaign 2; PZ_6 Campaign 6; PZ_16 Campaign 6	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.6	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.6	<0.01
Acenaphthylene	µg/l	N/A	197	0.01	0.12	0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Acenaphthene	µg/l	N/A	197	0.01	3.76	0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01
Fluorene	µg/l	N/A	197	<0.01	1.34	0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.13	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.13	<0.01
Phenanthrene	µg/l	See BaP	197	<0.01	1	0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.13	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.13	<0.01
Anthracene	µg/l	0.0001	197	0.01	0.1	18	GW1 Campaign 2; GW1 Campaign 6; GW1 Dup Campaign 6; GW2 Campaign 6; GW6D Campaign 4; GW6D Campaign 6; GW7 Campaign 2; GW8 Campaign 2; GW9S Campaign 6; GW9D Campaign 2; GW9D Campaign 6; GW10 Campaign 2; GW10 Campaign 6; GW11D Campaign 6; GW12 Campaign 6; PZ_21 Campaign 6; GW20 Campaign 6; GW21 Campaign 6	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Fluoranthene	µg/l	0.0000063	197	<0.01	0.21	10	GW1 Campaign 2; GW6D Campaign 4; GW6D Campaign 6; GW7 Campaign 2; GW8 Campaign 2; GW10 Campaign 2; GW11D Campaign 1; GW11D Campaign 6; PZ_21 Campaign 6; GW20 Campaign 6	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Pyrene	µg/l	N/A	197	<0.01	0.19	0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benz(a)anthracene	µg/l	No WSV	197	<0.01	0.12	0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chrysene	µg/l	See BaP	197	<0.01	0.12	0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b)fluoranthene	µg/l	0.000017	197	<0.01	0.13	1	GW6D Campaign 4	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(k)fluoranthene	µg/l	0.000017	197	<0.01	0.16	1	GW6D Campaign 4	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(a)pyrene	µg/l	0.00000017	197	<0.01	0.16	1	GW6D Campaign 4	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Indeno(123-cd)pyrene	µg/l	N/A	197	0.01	<0.01	0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(ghi)perylene	µg/l	0.00000082	197	0.01	<0.01	0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Dibenz(ah)anthracene	µg/l	N/A	197	0.01	<0.01	0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Total PAH	µg/l	No WSV	197	<0.01	19.89	0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.87	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.87	<0.01
Benzene	µg/l	0.008	197	<0.01	<1	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	µg/l	0.074	197	<0.01	1	1	PZ_16 Campaign 3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	<1	<1	<1	<1
Ethylbenzene	µg/l	0.02	197	<0.01	<1	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
m&p-Xylene	µg/l	No WSV	197	<0.01	<1	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
o-Xylene	µg/l	0.03	197	<0.01	<1	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Styrene	µg/l	0.05	197	<0.01	<1	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Propylbenzene	µg/l	No WSV	197	<0.01	<1	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylethylbenzene	µg/l	No WSV	197	<0.01	<1	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene	µg/l	No WSV	197	<0.01	<1	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene	µg/l	No WSV	197	<0.01	<1	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
tert-Butylbenzene	µg/l	No WSV	197	<0.01	1	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1-methylpropylbenzene	µg/l	No WSV	197	<0.01	<1	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	µg/l	N/A	197	<0.01	<1	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis 1,2-Dichloroethene	µg/l	No WSV	197	<0.01	137	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	µg/l	No WSV	197	<0.01	<1	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	µg/l	See Trihalomethanes	197	<0.01	4	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbontetrachloride	µg/l	No WSV	197	<0.01	<1	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	µg/l	0.1	197	<0.01	3	2	PZ_14 Campaign 4; PZ_14 Campaign 6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2	<1	3	<1	<1	<1	<1	<1	<1	<1
Trichloroethylene	µg/l	0.01	197	<0.01	<1	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	µg/l	0.01	197	<0.01	31	1	GW20 Campaign 6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane	µg/l	No WSV	197	<0.01	<1	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	µg/l	No WSV	197	<0.01	<1	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	µg/l	No WSV	197	<0.01	1	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloro-1-Propene	µg/l	No WSV	197	<0.01	<1	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	µg/l	0.01	197	<0.01	132	1	GW20 Campaign 6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2,2-Dichloropropane	µg/l	No WSV	197	<0.01	2	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans 1,2-Dichloroethene	µg/l	No WSV	197	<0.01	<1	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	µg/l	No WSV	197	<0.01	1	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	µg/l	N/A	197	<0.01	<1	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis 1,2-Dichloro-1-Propene	µg/l	No WSV	197	<0.01	<1	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans 1,3-Dichloro-1-Propene	µg/l	No WSV	197	<0.01	3	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	3	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	µg/l	0.3	197	<0.01	<1	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichloropropane	µg/l	No WSV	197	<0.01	<1	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Chlorotoluene	µg/l	No WSV	197	<0.01	<1	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene	µg/l	No WSV	197	<0.01	<1	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-Chlorotoluene	µg/l	No WSV	197	<0.01	<1	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

Assessment Criteria : *Coastal and Estuarine EQS*

CaCO 0.00 | 0.00 | DOC 0.00

Calcium 0.00 | DOC 0.00 | Catchment area | Freshwater not listed

Constituents	Unit	Generic Assessment Criteria (mg/l)	Number of Samples	Minimum Value	Maximum Value	Number of Exceedences	Locations of Exceedences	GW24D Campaign 4	GW24D Campaign 5	GW24D Campaign 6	GW24D Dup Campaign 4	GW24S Campaign 1	GW24S Campaign 2	GW24S Campaign 3	GW24S Campaign 4	GW24S Campaign 5	GW24S Campaign 6
pH Value (Lab)	pH Units	No WSV	197	5.7	12.6	0		6.7	7.3	7	6.7	7.2	8.2	7.2	7.5	7.5	7.2
pH Value (Field)	pH Units	No WSV	155	5.6	12.6	0		6.9	6.7	7.5	6.9	-	7.4	7.1	6.9	7.1	7.5
Redox Potential (ORP)	mV	No WSV	155	-363	145	0		-135	-165	-228	-135	-	-138	-164	-189	-196	-231
DO	%	No WSV	155	1	102	0		66	2	1	66	-	2	4	2	4	1
o-Cymene	µg/l	No WSV	197	<0.01	<1	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	µg/l	No WSV	197	<0.01	<1	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dibromo-3-chloropropane	µg/l	N/A	197	<0.01	<1	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Hexachlorobutadiene	µg/l	0.0006	197	<0.01	1	1	GW11S1 Campaign 6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-Trichlorobenzene	µg/l	No WSV	197	<0.01	<1	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	µg/l	No WSV	197	<0.01	<1	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichlorobenzene	µg/l	No WSV	197	<0.01	<1	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	µg/l	No WSV	197	<0.01	<1	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromochloromethane	µg/l	No WSV	197	<0.01	1	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromethane	µg/l	No WSV	197	<0.01	1	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromobenzene	µg/l	No WSV	197	<0.01	<1	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	µg/l	N/A	197	<0.01	<1	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromochloromethane	µg/l	N/A	197	<0.01	<1	0		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
PCB28	µg/l	No WSV	197	0.01	<0.01	0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB52	µg/l	No WSV	197	<0.01	0.17	0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.17
PCB101	µg/l	No WSV	197	0.01	<0.01	0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB118	µg/l	No WSV	197	0.01	<0.01	0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB138	µg/l	No WSV	197	0.01	<0.01	0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB153	µg/l	No WSV	197	0.01	<0.01	0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB180	µg/l	No WSV	197	0.01	<0.01	0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Total PCB	µg/l	No WSV	197	<0.01	0.17	0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.17

Constituents	PZ_6 Campaign 1	PZ_6 Campaign 2	PZ_6 Campaign 3	PZ_6 Campaign 4	PZ_6 Campaign 5	PZ_6 Campaign 6	PZ_14 Campaign 1	PZ_14 Campaign 2	PZ_14 Campaign 3	PZ_14 Campaign 4	PZ_14 Campaign 5	PZ_14 Campaign 6
pH Value (Lab)	7	7.1	7.1	7.2	6.9	6.9	7.4	7.9	7.7	7.5	7.5	7.5
pH Value (Field)	-	7.2	7.3	6.9	7.1	-	-	7.7	7.4	7.6	7.7	6.9
Redox Potential (ORP)	-	-143	-196	-184	-194	-	-	20	-104	-3	28	57
DO	-	4	4	17	3	-	-	43	48	34	25	58
o-Cymene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dibromo-3-chloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Hexachlorobutadiene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-Trichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromethane	<1	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
PCB28	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB52	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB101	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB118	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB138	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB153	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB180	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Total PCB	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

Constituents	PZ_16 Campaign 1	PZ_16 Campaign 2	PZ_16 Campaign 3	PZ_16 Campaign 4	PZ_16 Campaign 5	PZ_16 Campaign 6	PZ_16 Dup Campaign 5
pH Value (Lab)	7.8	7.1	6.9	7	6.5	6.6	6.5
pH Value (Field)	-	7	6.7	6.5	6.5	6.8	-
Redox Potential (ORP)	-	-109	-91	-152	-151	-152	-
DO	-	5	2	7	3	2	-
o-Cymene	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1
1,2-Dibromo-3-chloropropane	<1	<1	<1	<1	<1	<1	<1
Hexachlorobutadiene	<1	<1	<1	<1	<1	<1	<1
1,2,3-Trichlorobenzene	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	<1	<1	<1	<1	<1	<1	<1
1,3-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1
Bromochloromethane	<1	<1	<1	<1	<1	<1	<1
Dibromethane	<1	<1	<1	<1	<1	<1	<1
Bromobenzene	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1
Dibromochloromethane	<1	<1	<1	<1	<1	<1	<1
PCB28	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB52	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB101	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB118	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB138	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB153	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB180	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Total PCB	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

ATKINS

Assessment Criteria :	Drinking Water Standard				
CaCO (mg/l):	0.00	pH	0.00		
Calcium (mg/l):	0.00	DOC (mg/l)	0.00	Catchment area:	Freshwater not listed

Constituents	Unit	Limit of Detection	Generic Assessment Criteria	Number of Samples	Minimum Value	Maximum Value	Number of Exceedences	Locations of Exceedences	Strata	Zone
Arsenic	mg/l	0	0.01	134	<0.005	0.077	4	GW24S, 40682, Campaign 1; GW8, 40821, Campaign 5; GW95, 40819, Campaign 5; GW9D, 40819, Campaign 5		
Cadmium	mg/l	0	0.005	134	<0.001	0.002	0			
Chromium	mg/l	0	0.05	134	<0.005	<0.005	0			
Lead	mg/l	0	0.01	134	0.001	0.001	0			
Nickel	mg/l	0	0.02	134	0.001	0.011	0			
Copper	mg/l	0	2	134	<0.005	0.008	0			
Zinc	mg/l	0	3	134	<0.005	0.143	0			
Mercury	mg/l	0	0.001	134	0.0001	<0.001	0			
Iron	mg/l	0	0.2	134	<0.01	54.37	13	PZ_6, 40683, Campaign 1; GW24S, 40682, Campaign 1; PZ_16, 40687, Campaign 1; PZ_16, 40722, Campaign 2; PZ_16, 40722, Campaign 3; PZ_6, 40785, Campaign 4; GW8, 40821, Campaign 5; PZ_16, 40815, Campaign 5; GW12, 40819, Campaign 5; GW95, 40819, Campaign 5; GW9D, 40819, Campaign 5; Pz_6, 40819, Campaign 5; PZ_3, 40870, Campaign 7		
Boron	mg/l	0	1	134	<0.005	0.667	0			
Calcium	mg/l		N/A	134	12.4	1297	0			
Magnesium	mg/l		N/A	134	2.3	987.8	0			
Potassium	mg/l		N/A	134	2.4	250.3	0			
Sodium	mg/l		200	134	15.4	8632	55	PZ_3, 40652, Campaign 0; PZ_10, 40653, Campaign 0; PZ_11, 40652, Campaign 0; PZ_15, 40653, Campaign 0; PZ_18, 40652, Campaign 0; PZ_18, 40683, Campaign 1; GW24S, 40682, Campaign 1; PZ_16, 40687, Campaign 1; PZ_3, 40689, Campaign 1; PZ_10, 40689, Campaign 1; PZ_11, 40689, Campaign 1; PZ_12, 40689, Campaign 1; PZ_15, 40690, Campaign 1; GW6D, 40721, Campaign 2; PZ_16, 40722, Campaign 2; PZ_3, 40696, Campaign 2; PZ_5, 40696, Campaign 2; PZ_10, 40696, Campaign 2; PZ_11, 40696, Campaign 2; PZ_12, 40696, Campaign 2; PZ_15, 40724, Campaign 2; PZ_16, 40722, Campaign 3; GW6D, 40721, Campaign 3; PZ_15, 40724, Campaign 3; PZ_16, 40771, Campaign 4; PZ_16 DUP, 40771, Campaign 4; GW6d, 40786, Campaign 4; PZ_11, 40786, Campaign 4; PZ_3, 40786, Campaign 4; PZ_5, 40787, Campaign 4; PZ_10, 40787, Campaign 4; PZ_15, 40787, Campaign 4; GW6D, 40815, Campaign 5; PZ_16, 40815, Campaign 5; PZ_15, 40816, Campaign 5; GW95, 40819, Campaign 5; GW9D, 40819, Campaign 5; Pz_3, 40851, Campaign 6; Pz_18, 40849, Campaign 6; Pz_10, 40850, Campaign 6; Pz_16, 40850, Campaign 6; Pz_11, 40849, Campaign 6; Pz_15, 40851, Campaign 6; PZ_11, 40869, Campaign 7; PZ_16, 40869, Campaign 7; PZ_18, 40870, Campaign 7; PZ_3, 40870, Campaign 7; PZ_10, 40870, Campaign 7; PZ_15, 40871, Campaign 7;		
pH Value	Units		No WSV	134	5.8	11.2	0			
Electrical Conductivity	µS/cm		No WSV	134	269	26100	0			
Sulphate	mg/l		250	134	<1	1197	14	PZ_16, 40687, Campaign 1; PZ_3, 40689, Campaign 1; PZ_5, 40689, Campaign 1; PZ_7, 40689, Campaign 1; PZ_10, 40689, Campaign 1; PZ_11, 40689, Campaign 1; PZ_12, 40689, Campaign 1; PZ_16, 40722, Campaign 2; PZ_16, 40722, Campaign 3; PZ_16, 40771, Campaign 4; PZ_16 DUP, 40771, Campaign 4; PZ_16, 40815, Campaign 5; Pz_16, 40850, Campaign 6; Pz_16, 41263, Campaign 8		
Chloride	mg/l		250	134	0.1	8504	73	PZ_3, 40652, Campaign 0; PZ_5, 40653, Campaign 0; PZ_7, 40652, Campaign 0; PZ_10, 40653, Campaign 0; PZ_11, 40652, Campaign 0; PZ_12, 40653, Campaign 0; PZ_15, 40653, Campaign 0; PZ_18, 40652, Campaign 0; PZ_6, 40683, Campaign 1; PZ_18, 40683, Campaign 1; GW24S, 40682, Campaign 1; PZ_16, 40687, Campaign 1; GW6D, 40721, Campaign 2; PZ_16, 40722, Campaign 2; PZ_3, 40696, Campaign 2; PZ_5, 40696, Campaign 2; PZ_7, 40696, Campaign 2; PZ_10, 40696, Campaign 2; PZ_11, 40696, Campaign 2; PZ_12, 40696, Campaign 2; PZ_6, 40724, Campaign 2; PZ_15, 40724, Campaign 2; PZ_16, 40722, Campaign 3; GW6D, 40721, Campaign 3; PZ_6, 40724, Campaign 3; PZ_15, 40724, Campaign 3; PZ_16, 40771, Campaign 4; GW19, 40772, Campaign 4; PZ_16 DUP, 40771, Campaign 4; PZ_6, 40785, Campaign 4; GW6d, 40786, Campaign 4; PZ_7, 40786, Campaign 4; PZ_11, 40786, Campaign 4; PZ_3, 40786, Campaign 4; PZ_5, 40787, Campaign 4; PZ_10, 40787, Campaign 4; PZ_12, 40787, Campaign 4; PZ_15, 40787, Campaign 4; GW6D, 40815, Campaign 5; GW19, 40816, Campaign 5; PZ_16, 40815, Campaign 5; PZ_15, 40816, Campaign 5; GW95, 40819, Campaign 5; GW9D, 40819, Campaign 5; Pz_6, 40819, Campaign 5; Pz_3, 40851, Campaign 6; Pz_7, 40849, Campaign 6; Pz_18, 40849, Campaign 6; Pz_10, 40850, Campaign 6; Pz_16, 40850		
Nitrate	mg/l		0.05	134	1	214	42	GW1D, 40682, Campaign 1; GW2, 40682, Campaign 1; GW3, 40682, Campaign 1; PZ_14, 40683, Campaign 1; PZ_19, 40687, Campaign 1; PZ_20, 40687, Campaign 1; PZ_21, 40687, Campaign 1; PZ_21, 40722, Campaign 2; PZ_14, 40723, Campaign 2; PZ_20, 40723, Campaign 2; PZ_19, 40723, Campaign 2; GW20, 40724, Campaign 2; GW21, 40724, Campaign 2; GW22, 40725, Campaign 2; GW23, 40725, Campaign 2; PZ_21, 40722, Campaign 3; PZ_14, 40723, Campaign 3; PZ_20, 40723, Campaign 3; PZ_19, 40723, Campaign 3; GW20, 40724, Campaign 3; GW21, 40724, Campaign 3; GW22, 40725, Campaign 3; GW23, 40725, Campaign 3; GW19, 40772, Campaign 4; PZ_14, 40785, Campaign 4; GW5 / PZ_19, 40786, Campaign 4; GW5 / PZ_19 DUP, 40786, Campaign 4; GW6d, 40786, Campaign 4; GN4, 40815, Campaign 5; GN5, 40815, Campaign 5; GW20, 40821, Campaign 5; GW21, 40821, Campaign 5; GW22, 40821, Campaign 5; GW23, 40821, Campaign 5; GW23 DUP, 40821, Campaign 5; GW19, 40816, Campaign 5; PZ_14, 40815, Campaign 5; GW9D, 40819, Campaign 5; GW13, 40819, Campaign 5; PZ_19, 40869, Campaign 7; PZ_21, 40869, Campaign 7; PZ_14, 40870, Campaign 7		
Free Cyanide	mg/l	0	See Cyanide (total)	134	0.005	0.01	0			
Total Phenols	mg/l	0	No WSV	134	<0.0005	<0.005	0			
Ammonium as NH4	mg/l		0.5	134	<0.01	84.6	25	PZ_6, 40683, Campaign 1; GW24S, 40682, Campaign 1; PZ_16, 40687, Campaign 1; PZ_16, 40722, Campaign 2; PZ_6, 40724, Campaign 2; PZ_16, 40722, Campaign 3; PZ_6, 40724, Campaign 3; PZ_16, 40771, Campaign 4; PZ_16 DUP, 40771, Campaign 4; PZ_6, 40785, Campaign 4; GW21, 40821, Campaign 5; GW8, 40821, Campaign 5; GW12, 40819, Campaign 5; GW95, 40819, Campaign 5; GW9D, 40819, Campaign 5; Pz_6, 40819, Campaign 5; PZ_11, 40869, Campaign 7; PZ_16, 40869, Campaign 7; PZ_7, 40870, Campaign 7; PZ_3, 40870, Campaign 7; PZ_10, 40870, Campaign 7; PZ_12, 40870, Campaign 7; PZ_5, 40870, Campaign 7; PZ_6, 40871, Campaign 7; PZ_15, 40871, Campaign 7		
BOD	mg/l		No WSV	134	<2	33	0			
COD	mg/l		No WSV	134	<2	120	0			
Alkalinity	mg/l CaCO3		No WSV	134	40	720	0			
Suspended Solids	mg/l		No WSV	134	2	1200	0			
Total Petroleum Hydrocarbons	mg/l	0	No WSV	134	<0.01	0.062	0			
PCB 28	mg/l	0	No WSV	134	<0.00001	<0.00001	0			
PCB 52	mg/l	0	No WSV	134	<0.00001	<0.00001	0			
PCB 101	mg/l	0	No WSV	134	<0.00001	<0.00001	0			
PCB 118	mg/l	0	No WSV	134	<0.00001	<0.00001	0			
PCB 138	mg/l	0	No WSV	134	<0.00001	<0.00001	0			
PCB 153	mg/l	0	No WSV	134	<0.00001	<0.00001	0			
PCB 180	mg/l	0	No WSV	134	<0.00001	<0.00001	0			
Total PCB	mg/l	0	No WSV	134	<0.00001	<0.00001	0			
Naphthalene	mg/l	0	See BaP	134	<0.00001	0.00323	0			
Acenaphthylene	mg/l	0	See BaP	134	0.00001	0.00012	0			
Acenaphthene	mg/l	0	See BaP	134	0.00001	0.00021	0			
Fluorene	mg/l	0	See BaP	134	<0.00001	0.00018	0			
Phenanthrene	mg/l	0	See BaP	134	<0.00001	0.00024	0			
Anthracene	mg/l	0	See BaP	134	0.00001	0.00003	0			
Fluoranthene	mg/l	0	See BaP	134	<0.00001	<0.001	0			
Pyrene	mg/l	0	See BaP	134	<0.00001	0.00019	0			
Benz(a)anthracene	mg/l	0	No WSV	134	<0.00001	0.00012	0			
Chrysene	mg/l	0	See BaP	134	<0.00001	0.00012	0			
Benzo(b)fluoranthene	mg/l	0	See PAH Sum of 4	134	<0.00001	0.00013	0			
Benzo(k)fluoranthene	mg/l	0	See PAH Sum of 4	134	<0.00001	0.00016	0			
Benzo(a)pyrene	mg/l	0	0.00001	134	<0.00001	0.00016	1	GW6D, 40721, Campaign 3		
Indeno(123-cd)pyrene	mg/l	0	See PAH Sum of 4	134	<0.00001	<0.00001	0			
Dibenz(ah)anthracene	mg/l	0	See BaP	134	<0.00001	<0.00001	0			
Benzo(ghi)perylene	mg/l	0	See PAH Sum of 4	134	<0.00001	<0.00001	0			
Total PAH	mg/l	0	No WSV	134	<0.00001	0.00377	0			
Benzene	mg/l	0	0.001	134	<0.001	<0.001	0			
Toluene	mg/l	0	0.7	134	<0.001	<0.001	0			
Ethylbenzene	mg/l	0	0.3	134	<0.001	<0.001	0			
m&p-Xylene	mg/l	0	No WSV	134	<0.001	<0.001	0			
o-Xylene	mg/l	0	0.5	134	<0.001	<0.001	0			
cis 1,2-Dichloroethene	mg/l	0	No WSV	134	<0.001	0.137	0			
1,1-Dichloroethane	mg/l	0	No WSV	134	<0.001	<0.001	0			

Location	PZ_3	PZ_5	PZ_6	PZ_7	PZ_10	PZ_11	PZ_12	PZ_14	PZ_15	PZ_16	PZ_18	PZ_19	PZ_21
Sample ID	40652	40653	40652	40652	40653	40652	40653	40652	40653	40652	40652	40651	40652
Depth	Campaign 0	Campaign 0	Campaign 0	Campaign 0	Campaign 0	Campaign 0	Campaign 0	Campaign 0	Campaign 0	Campaign 0	Campaign 0	Campaign 0	Campaign 0
Calcium	12.4	109	123.9	168.6	69.5	131	106.6	44.4	169.7	119.5	928.3	21.5	168.4
Magnesium	8.9	12.6	12.6	16	2.3	20.9	19	7	21.3	15.4	54.9	5.7	12.3
Potassium	222.7	14.9	8.8	8.2	51.5	13	10.2	8.8	16.3	9.9	11.7	9.3	8.3
Sodium	619.1	179.8	95.6	93	615.8	516.9	164.9	41.6	203.9	138	329.3	46.4	66.5
pH Value	10.7	7	7.3	7.3	11.2	7.9	7.5	7.8	7.5	7.5	7.1	6.8	7.2
Sulphate	33	6	24	7	36	45	85	54	8	38	40	20	29
Chloride	1117	324	210	316	1141	922	288	37	445	216	2022	54	230

Location	GW1D	GW2	GW3	PZ_6	PZ_18	PZ_14	GW24S	PZ_16	PZ_19	PZ_20	PZ_21	PZ_3	PZ_5	PZ_7	PZ_10	PZ_11	PZ_12	PZ_15
Sample ID	40682	40682	40682	40683	40683	40683	40682	40687	40687	40687	40687	40689	40689	40689	40689	40689	40689	40690
Depth	Campaign 1	Campaign 1	Campaign 1	Campaign 1	Campaign 1	Campaign 1	Campaign 1	Campaign 1	Campaign 1	Campaign 1	Campaign 1	Campaign 1	Campaign 1	Campaign 1	Campaign 1	Campaign 1	Campaign 1	Campaign 1
Arsenic	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.012	<0.005	<0.005	<0.005	<0.005							
Cadmium	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001							
Chromium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005							
Lead	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001							
Nickel	0.003	0.011	0.002	<0.001	0.003	<0.001	0.002	0.005	0.003	<0.001	0.005							
Copper	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.008	<0.005	<0.005	<0.005							
Zinc	0.05	0.045	0.02	0.014	0.06	0.012	0.021	0.061	0.029	0.029	0.037							
Mercury	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0002	0.0006	<0.0001							
Iron	<0.01	<0.01	<0.01	9.693	0.036	0.013	3.5	21.91	0.096	<0.01	<0.01							
Boron	0.403	<0.005	<0.005	0.027	<0.005	<0.005	0.102	0.417	<0.005	<0.005	<0.005							
Calcium	210.6	87.7	131.1	196.4	1079	53.8	166.2	1153	19.4	51.7	203.9	18	102.4	171.2	43.4	130.8	121.1	186.9
Magnesium	19.5	28.6	12.4	19.4	53.8	8	59.8	466.5	6.8	16.3	15	9.3	12.1	16.8	5.5	21.7	31.1	17.2
Potassium	7.4	4.5	3.7	8.9	7	4.2	15.9	36.5	2.7	4.3	5.6	203.5	12.1	5.8	44.7	9.9	10.6	6.7
Sodium	95.7	31	32.1	170.1	299.3	37.2	443.6	4703	47.9	23.2	66.9	629.5	167.2	90.3	571.5	492.7	232.1	208.6
pH Value	6.5	5.8	6.6	7.1	6.8	7.7	7.2	6.9	6.3	7.1	7.1	10.3	6.9	7.3	10.5	8	7.5	7.3
Electrical Conductivity	1384	692	928	1589	5370	490	2860	21600	290	481	1330							
Sulphate	114	94	103	8	34	56	<1	981	28	27	28	940	290	294	903	780	396	<5
Chloride	130	61	99	330	1351	42	764	8504	66	176	160	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Nitrate	75	176	154	<1	<1	33	<1	<1	67	55	67							
Free Cyanide	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005							
Total Phenols	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005							
Ammonium as NH4	<0.1	<0.1	<0.1	8.2	<0.1	<0.1	4.1	0.85	0.02	0.02	0.11							
BOD	<2	<2	<2	<2	<2	<2	<2	5	<2	<2	<2							
COD	<2	<2	<2	<2	<2	<2	<2	50	<2	<2	<2							
Alkalinity	510	60	180	380	230	200	270	290	80	280	180							
Suspended Solids	6	12	12	16	14	12	4	58	<5	<5	<5							
Total Petroleum Hydrocarbons	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01							
PCB 28	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001							
PCB 52	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001							
PCB 101	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001							
PCB 118	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001							
PCB 138	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001							
PCB 153	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001							
PCB 180	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001							
Total PCB	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001							

Location	GW6D	PZ_21	PZ_16	PZ_3	PZ_5	PZ_7	PZ_10	PZ_11	PZ_12	PZ_14	PZ_20	PZ_19	PZ_6	GW20	GW21	GW22	GW23	PZ_15
Sample ID	40721	40722	40722	40696	40696	40696	40696	40696	40696	40723	40723	40723	40724	40724	40724	40725	40725	40724
Depth	Campaign 2	Campaign 2	Campaign 2	Campaign 2	Campaign 2	Campaign 2	Campaign 2	Campaign 2	Campaign 2	Campaign 2	Campaign 2	Campaign 2	Campaign 2	Campaign 2	Campaign 2	Campaign 2	Campaign 2	Campaign 2
Arsenic	<0.005	<0.005	<0.005							<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Cadmium	<0.001	<0.001	<0.001							<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Chromium	<0.005	<0.005	<0.005							<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Lead	<0.001	<0.001	<0.001							<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Nickel	0.003	0.002	0.005							<0.001	0.003	0.004	<0.001	<0.001	0.003	0.002	0.001	
Copper	<0.005	<0.005	0.008							<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Zinc	0.143	0.045	0.099							0.017	0.065	0.055	0.014	0.013	0.076	0.022	0.015	
Mercury	<0.0001	<0.0001	<0.0001							<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
Iron	<0.01	<0.01	18.64							<0.01	<0.01	0.057	0.036	0.072	0.05	0.011	<0.01	
Boron	0.105	0.144	0.667							0.049	0.038	0.08	0.082	0.077	0.141	0.151	0.176	
Calcium	803.7	188.9	1297	187.8	122.8	161.5	47.3	129.8	505	43.2	43.4	14.6	155.7	108.5	62.9	84	111	195.9
Magnesium	44.5	14.9	533.8	37.6	49.5	15.8	4.4	18.1	987.8	7.5	14.2	5.1	15.8	18.3	7.3	5.9	6.6	17.4
Potassium	5.3	5.5	38.3	30.2	21.4	4.9	47.2	8.9	250.3	3.5	3.8	2.4	6.7	4.2	2.7	5.5	2.8	5.8
Sodium	232.1	66	5336	525.4	477.1	88.3	575.1	496.6	8632	32.5	17.9	30.3	141.8	24.6	23.6	16.2	20	211.9
pH Value	7.4	7.6	7	7.3	7.1	7.2	10.1	7.7	7.1	7.5	6.6	5.9	7.2	7.4	6.4	7	7.3	7.3
Electrical Conductivity	5190	1281	26100							424	490	269	1599	899	568	597	740	
Sulphate	51	32	1197	11	79	<5	32	64	180	57	20	21	9	49	47	35	100	5
Chloride	1381	203	1270	914	766	289	881	763	1345	36	56	31	315	72	42	36	48	500
Nitrate	<1	16	<1							29	127	69	<1	191	118	101	47	
Free Cyanide	<0.005	<0.005	<0.005							<0.005	<0.005	<0.005	<0.005	0.005	<0.005	<0.005	<0.005	
Total Phenols	<0.0005	<0.0005	<0.0005							<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
Ammonium as NH4	0.34	0.04	3.71							0.01	0.02	0.02	10.06	0.01	<0.01	<0.01	0.11	
BOD	<2	9	22							<2	<2	<2	<2	<2	<2	<2	<2	
COD	<2	<2	78							<2	<2	<2	<2	<2	<2	3	<2	
Alkalinity	230	390	360							130	120	70	350	240	60	120	190	
Suspended Solids	<5	64	16							20	10	56	66	102	198	68	58	
Total Petroleum Hydrocarbons	<0.01	<0.01	<0.01							<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
PCB 28	<0.00001	<0.00001	<0.00001							<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	
PCB 52	<0.00001	<0.00001	<0.00001							<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	
PCB 101	<0.00001	<0.00001	<0.00001							<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	
PCB 118	<0.00001	<0.00001	<0.00001							<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	
PCB 138	<0.00001	<0.00001	<0.00001							<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	
PCB 153	<0.00001	<0.00001	<0.00001							<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	
PCB 180	<0.00001	<0.00001	<0.00001							<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	
Total PCB	<0.00001	<0.00001	<0.00001							<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	

Assessment Criteria :	Drinking Water Standard							
CaCO (mg/l): 0.00			pH 0.00					
Calcium (mg/l): 0.00			DOC (mg/l) 0.00				Catchment area:	Freshwater not listed

Constituents	Unit	Limit of Detection	Generic Assessment Criteria	Number of Samples	Minimum Value	Maximum Value	Number of Exceedences	Locations of Exceedences
Chloroform	mg/l	0	See Trihalomethanes	134	0.001	0.001	0	
Carbontetrachloride	mg/l	0	No WSV	134	<0.001	<0.001	0	
1,1,1-Trichloroethane	mg/l	0	2	134	<0.001	0.003	0	
Trichloroethylene	mg/l	0	0.01 (sum of TCE & PCE)	134	<0.001	<0.001	0	
Tetrachloroethylene	mg/l	0	0.01 (sum of TCE & PCE)	134	<0.001	0.031	0	
1,1,1,2-Tetrachloroethane	mg/l	0	No WSV	134	<0.001	<0.001	0	
1,1,2,2-Tetrachloroethane	mg/l	0	No WSV	134	<0.001	<0.001	0	
Chlorobenzene	mg/l	0	No WSV	134	<0.001	<0.001	0	
Bromobenzene	mg/l	0	No WSV	134	<0.001	<0.001	0	
Bromodichloromethane	mg/l	0	See Trihalomethanes	134	<0.001	<0.001	0	
Methylethylbenzene	mg/l	0	No WSV	134	<0.001	<0.001	0	
1,1-Dichloro-1-Propene	mg/l	0	No WSV	134	<0.001	<0.001	0	
1,2-Dichloroethane	mg/l	0	0.003	134	<0.001	0.132	1	GW20, 40821, Campaign 5
2-2-Dichloropropane	mg/l	0	No WSV	134	<0.001	0.002	0	
Bromochloromethane	mg/l	0	No WSV	134	0.001	0.001	0	
trans 1,2-Dichloroethene	mg/l	0	No WSV	134	<0.001	<0.001	0	
Dibromomethane	mg/l	0	No WSV	134	<0.001	<0.001	0	
1,2-Dichloropropane	mg/l	0	0.04	134	<0.001	<0.001	0	
cis 1,3-Dichloro-1-Propene	mg/l	0	No WSV	134	<0.001	<0.001	0	
trans 1,3-Dichloro-1-Propene	mg/l	0	No WSV	134	<0.001	0.003	0	
1,1,2-Trichloroethane	mg/l	0	N/A	134	<0.001	<0.001	0	
Dibromochloromethane	mg/l	0	See Trihalomethanes	134	<0.001	<0.001	0	
1,3-Dichloropropane	mg/l	0	No WSV	134	<0.001	<0.001	0	
Dibromoethane	mg/l	0	No WSV	134	<0.001	<0.001	0	
Styrene	mg/l	0	0.02	134	<0.001	<0.001	0	
Propylbenzene	mg/l	0	No WSV	134	<0.001	<0.001	0	
2-Chlorotoluene	mg/l	0	No WSV	134	<0.001	<0.001	0	
1,2,4-Trimethylbenzene	mg/l	0	No WSV	134	<0.001	<0.001	0	
4-Chlorotoluene	mg/l	0	No WSV	134	<0.001	<0.001	0	
tert-Butylbenzene	mg/l	0	No WSV	134	0.001	0.001	0	
1,3,5-Trimethylbenzene	mg/l	0	No WSV	134	<0.001	<0.001	0	
1-methylpropylbenzene	mg/l	0	No WSV	134	<0.001	<0.001	0	
o-Cymene	mg/l	0	No WSV	134	<0.001	<0.001	0	
1,4-Dichlorobenzene	mg/l	0	No WSV	134	<0.001	<0.001	0	
sec-Butylbenzene	mg/l	0	No WSV	134	<0.001	<0.001	0	
1,2-Dibromo-3-chloropropane	mg/l	0	0.001	134	<0.001	<0.001	0	
Hexachlorobutadiene	mg/l	0	0.0006	134	<0.001	<0.001	0	
1,2,3-Trichlorobenzene	mg/l	0	No WSV	134	<0.001	<0.001	0	
1,2,4-Trichlorobenzene	mg/l	0	No WSV	134	<0.001	<0.001	0	
1,3-Dichlorobenzene	mg/l	0	No WSV	134	<0.001	<0.001	0	
1,2-Dichlorobenzene	mg/l	0	No WSV	134	<0.001	<0.001	0	
Vinyl Chloride	mg/l	0	0.0005	134	<0.001	<0.001	0	

Location	PZ_3	PZ_5	PZ_6	PZ_7	PZ_10	PZ_11	PZ_12	PZ_14	PZ_15	PZ_16	PZ_18	PZ_19	PZ_21
Sample ID	40652	40653	40652	40652	40653	40652	40653	40652	40653	40652	40652	40651	40652
Depth	Campaign 0	Campaign 0	Campaign 0	Campaign 0	Campaign 0	Campaign 0	Campaign 0	Campaign 0	Campaign 0	Campaign 0	Campaign 0	Campaign 0	Campaign 0
Date													
Strata / Zone													

Location	GW1D	GW2	GW3	PZ_6	PZ_18	PZ_14	GW24S	PZ_16	PZ_19	PZ_20	PZ_21	PZ_3	PZ_5	PZ_7	PZ_10	PZ_11	PZ_12	PZ_15
Sample ID	40682	40682	40682	40683	40683	40683	40682	40687	40687	40687	40687	40689	40689	40689	40689	40689	40689	40690
Depth	Campaign 1	Campaign 1	Campaign 1	Campaign 1	Campaign 1	Campaign 1	Campaign 1	Campaign 1	Campaign 1	Campaign 1	Campaign 1	Campaign 1	Campaign 1	Campaign 1	Campaign 1	Campaign 1	Campaign 1	Campaign 1
Date																		
Strata / Zone																		

Location	GW6D	PZ_21	PZ_16	PZ_3	PZ_5	PZ_7	PZ_10	PZ_11	PZ_12	PZ_14	PZ_20	PZ_19	PZ_6	GW20	GW21	GW22	GW23	PZ_15
Sample ID	40721	40722	40722	40696	40696	40696	40696	40696	40696	40723	40723	40723	40724	40724	40724	40725	40725	40724
Depth	Campaign 2	Campaign 2	Campaign 2	Campaign 2	Campaign 2	Campaign 2	Campaign 2	Campaign 2	Campaign 2	Campaign 2	Campaign 2	Campaign 2	Campaign 2	Campaign 2	Campaign 2	Campaign 2	Campaign 2	Campaign 2
Date																		
Strata / Zone																		

Assessment Criteria :	Drinking Water Standard		
CaCO (mg/l): 0.00	pH 0.00		
Calcium (mg/l): 0.00	DOC (mg/l) 0.00	Catchment area:	Freshwater not listed

Constituents	Unit	Limit of Detection	Generic Assessment Criteria	Number of Samples	Minimum Value	Maximum Value	Number of Exceedences	Locations of Exceedences
Arsenic	mg/l	0	0.01	134	<0.005	0.077	4	GW24S, 40682, Campaign 1; GW8, 40821, Campaign 5; GW95, 40819, Campaign 5; GW9D, 40819, Campaign 5
Cadmium	mg/l	0	0.005	134	<0.001	0.002	0	
Chromium	mg/l	0	0.05	134	<0.005	<0.005	0	
Lead	mg/l	0	0.01	134	0.001	0.001	0	
Nickel	mg/l	0	0.02	134	0.001	0.011	0	
Copper	mg/l	0	2	134	<0.005	0.008	0	
Zinc	mg/l	0	3	134	<0.005	0.143	0	
Mercury	mg/l	0	0.001	134	0.0001	<0.001	0	
Iron	mg/l	0	0.2	134	<0.01	54.37	13	PZ_6, 40683, Campaign 1; GW24S, 40682, Campaign 1; PZ_16, 40687, Campaign 1; PZ_16, 40722, Campaign 2; PZ_16, 40722, Campaign 3; PZ_6, 40785, Campaign 4; GW8, 40821, Campaign 5; PZ_16, 40815, Campaign 5; GW12, 40819, Campaign 5; GW95, 40819, Campaign 5; GW9D, 40819, Campaign 5; Pz_6, 40819, Campaign 5; PZ_3, 40870, Campaign 7
Boron	mg/l	0	1	134	<0.005	0.667	0	
Calcium	mg/l		N/A	134	12.4	1297	0	
Magnesium	mg/l		N/A	134	2.3	987.8	0	
Potassium	mg/l		N/A	134	2.4	250.3	0	
Sodium	mg/l		200	134	15.4	8632	55	PZ_3, 40652, Campaign 0; PZ_10, 40653, Campaign 0; PZ_11, 40652, Campaign 0; PZ_15, 40653, Campaign 0; PZ_18, 40652, Campaign 0; PZ_18, 40683, Campaign 1; GW24S, 40682, Campaign 1; PZ_16, 40687, Campaign 1; PZ_3, 40689, Campaign 1; PZ_10, 40689, Campaign 1; PZ_11, 40689, Campaign 1; PZ_12, 40689, Campaign 1; PZ_15, 40690, Campaign 1; GW6D, 40721, Campaign 2; PZ_16, 40722, Campaign 2; PZ_3, 40696, Campaign 2; PZ_5, 40696, Campaign 2; PZ_10, 40696, Campaign 2; PZ_11, 40696, Campaign 2; PZ_12, 40696, Campaign 2; PZ_15, 40724, Campaign 2; PZ_16, 40722, Campaign 3; GW6D, 40721, Campaign 3; PZ_15, 40724, Campaign 3; PZ_16, 40771, Campaign 4; PZ_16 DUP, 40771, Campaign 4; GW6d, 40786, Campaign 4; PZ_11, 40786, Campaign 4; PZ_3, 40786, Campaign 4; PZ_5, 40787, Campaign 4; PZ_10, 40787, Campaign 4; PZ_15, 40787, Campaign 4; GW6D, 40815, Campaign 5; PZ_16, 40815, Campaign 5; PZ_15, 40816, Campaign 5; GW95, 40819, Campaign 5; GW9D, 40819, Campaign 5; Pz_3, 40851, Campaign 6; Pz_18, 40849, Campaign 6; Pz_10, 40850, Campaign 6; Pz_16, 40850, Campaign 6; Pz_11, 40849, Campaign 6; Pz_15, 40851, Campaign 6; PZ_11, 40869, Campaign 7; PZ_16, 40869, Campaign 7; PZ_18, 40870, Campaign 7; PZ_3, 40870, Campaign 7; PZ_10, 40870, Campaign 7; PZ_15, 40871, Campaign 7;
pH Value	Units		No WSV	134	5.8	11.2	0	
Electrical Conductivity	µS/cm		No WSV	134	269	26100	0	
Sulphate	mg/l		250	134	<1	1197	14	PZ_16, 40687, Campaign 1; PZ_3, 40689, Campaign 1; PZ_5, 40689, Campaign 1; PZ_7, 40689, Campaign 1; PZ_10, 40689, Campaign 1; PZ_11, 40689, Campaign 1; PZ_12, 40689, Campaign 1; PZ_16, 40722, Campaign 2; PZ_16, 40722, Campaign 3; PZ_16, 40771, Campaign 4; PZ_16 DUP, 40771, Campaign 4; PZ_16, 40815, Campaign 5; Pz_16, 40850, Campaign 6; Pz_16, 41263, Campaign 8
Chloride	mg/l		250	134	0.1	8504	73	PZ_3, 40652, Campaign 0; PZ_5, 40653, Campaign 0; PZ_7, 40652, Campaign 0; PZ_10, 40653, Campaign 0; PZ_11, 40652, Campaign 0; PZ_12, 40653, Campaign 0; PZ_15, 40653, Campaign 0; PZ_18, 40652, Campaign 0; PZ_6, 40683, Campaign 1; PZ_18, 40683, Campaign 1; GW24S, 40682, Campaign 1; PZ_16, 40687, Campaign 1; GW6D, 40721, Campaign 2; PZ_16, 40722, Campaign 2; PZ_3, 40696, Campaign 2; PZ_5, 40696, Campaign 2; PZ_7, 40696, Campaign 2; PZ_10, 40696, Campaign 2; PZ_11, 40696, Campaign 2; PZ_12, 40696, Campaign 2; PZ_6, 40724, Campaign 2; PZ_15, 40724, Campaign 2; PZ_16, 40722, Campaign 3; GW6D, 40721, Campaign 3; PZ_6, 40724, Campaign 3; PZ_15, 40724, Campaign 3; PZ_16, 40771, Campaign 4; GW19, 40772, Campaign 4; PZ_16 DUP, 40771, Campaign 4; PZ_6, 40785, Campaign 4; GW6d, 40786, Campaign 4; PZ_7, 40786, Campaign 4; PZ_11, 40786, Campaign 4; PZ_3, 40786, Campaign 4; PZ_5, 40787, Campaign 4; PZ_10, 40787, Campaign 4; PZ_12, 40787, Campaign 4; PZ_15, 40787, Campaign 4; GW6D, 40815, Campaign 5; GW19, 40816, Campaign 5; PZ_16, 40815, Campaign 5; PZ_15, 40816, Campaign 5; GW95, 40819, Campaign 5; GW9D, 40819, Campaign 5; Pz_6, 40819, Campaign 5; Pz_3, 40851, Campaign 6; Pz_7, 40849, Campaign 6; Pz_18, 40849, Campaign 6; Pz_10, 40850, Campaign 6; Pz_16, 40850,
Nitrate	mg/l		0.05	134	1	214	42	GW1D, 40682, Campaign 1; GW2, 40682, Campaign 1; GW3, 40682, Campaign 1; PZ_14, 40683, Campaign 1; PZ_19, 40687, Campaign 1; PZ_20, 40687, Campaign 1; PZ_21, 40687, Campaign 1; PZ_21, 40722, Campaign 2; PZ_14, 40723, Campaign 2; PZ_20, 40723, Campaign 2; PZ_19, 40723, Campaign 2; GW20, 40724, Campaign 2; GW21, 40724, Campaign 2; GW22, 40725, Campaign 2; GW23, 40725, Campaign 2; PZ_21, 40722, Campaign 3; PZ_14, 40723, Campaign 3; PZ_20, 40723, Campaign 3; PZ_19, 40723, Campaign 3; GW20, 40724, Campaign 3; GW21, 40724, Campaign 3; GW22, 40725, Campaign 3; GW23, 40725, Campaign 3; GW19, 40772, Campaign 4; PZ_14, 40785, Campaign 4; GW5 / PZ_19, 40786, Campaign 4; GW5 / PZ_19 DUP, 40786, Campaign 4; GW6d, 40786, Campaign 4; GN4, 40815, Campaign 5; GN5, 40815, Campaign 5; GW20, 40821, Campaign 5; GW21, 40821, Campaign 5; GW22, 40821, Campaign 5; GW23, 40821, Campaign 5; GW23 DUP, 40821, Campaign 5; GW19, 40816, Campaign 5; PZ_14, 40815, Campaign 5; GW9D, 40819, Campaign 5; GW13, 40819, Campaign 5; PZ_19, 40869, Campaign 7; PZ_21, 40869, Campaign 7; PZ_14, 40870, Campaign 7
Free Cyanide	mg/l	0	See Cyanide (total)	134	0.005	0.01	0	
Total Phenols	mg/l	0	No WSV	134	<0.0005	<0.005	0	
Ammonium as NH4	mg/l		0.5	134	<0.01	84.6	25	PZ_6, 40683, Campaign 1; GW24S, 40682, Campaign 1; PZ_16, 40687, Campaign 1; PZ_16, 40722, Campaign 2; PZ_6, 40724, Campaign 2; PZ_16, 40722, Campaign 3; PZ_6, 40724, Campaign 3; PZ_16, 40771, Campaign 4; PZ_16 DUP, 40771, Campaign 4; PZ_6, 40785, Campaign 4; GW21, 40821, Campaign 5; GW8, 40821, Campaign 5; GW12, 40819, Campaign 5; GW95, 40819, Campaign 5; GW9D, 40819, Campaign 5; Pz_6, 40819, Campaign 5; PZ_11, 40869, Campaign 7; PZ_16, 40869, Campaign 7; PZ_7, 40870, Campaign 7; PZ_3, 40870, Campaign 7; PZ_10, 40870, Campaign 7; PZ_12, 40870, Campaign 7; PZ_5, 40870, Campaign 7; PZ_6, 40871, Campaign 7; PZ_15, 40871, Campaign 7
BOD	mg/l		No WSV	134	<2	33	0	
COD	mg/l		No WSV	134	<2	120	0	
Alkalinity	mg/l CaCO3		No WSV	134	40	720	0	
Suspended Solids	mg/l		No WSV	134	2	1200	0	
Total Petroleum Hydrocarbons	mg/l	0	No WSV	134	<0.01	0.062	0	
PCB 28	mg/l	0	No WSV	134	<0.00001	<0.00001	0	
PCB 52	mg/l	0	No WSV	134	<0.00001	<0.00001	0	
PCB 101	mg/l	0	No WSV	134	<0.00001	<0.00001	0	
PCB 118	mg/l	0	No WSV	134	<0.00001	<0.00001	0	
PCB 138	mg/l	0	No WSV	134	<0.00001	<0.00001	0	
PCB 153	mg/l	0	No WSV	134	<0.00001	<0.00001	0	
PCB 180	mg/l	0	No WSV	134	<0.00001	<0.00001	0	
Total PCB	mg/l	0	No WSV	134	<0.00001	<0.00001	0	
Naphthalene	mg/l	0	See BaP	134	<0.00001	0.00323	0	
Acenaphthylene	mg/l	0	See BaP	134	0.00001	0.00012	0	
Acenaphthene	mg/l	0	See BaP	134	0.00001	0.00021	0	
Fluorene	mg/l	0	See BaP	134	<0.00001	0.00018	0	
Phenanthrene	mg/l	0	See BaP	134	<0.00001	0.00024	0	
Anthracene	mg/l	0	See BaP	134	0.00001	0.00003	0	
Fluoranthene	mg/l	0	See BaP	134	<0.00001	<0.001	0	
Pyrene	mg/l	0	See BaP	134	<0.00001	0.00019	0	
Benz(a)anthracene	mg/l	0	No WSV	134	<0.00001	0.00012	0	
Chrysene	mg/l	0	See BaP	134	<0.00001	0.00012	0	
Benzo(b)fluoranthene	mg/l	0	See PAH Sum of 4	134	<0.00001	0.00013	0	
Benzo(k)fluoranthene	mg/l	0	See PAH Sum of 4	134	<0.00001	0.00016	0	
Benzo(a)pyrene	mg/l	0	0.00001	134	<0.00001	0.00016	1	GW6D, 40721, Campaign 3
Indeno(123-cd)pyrene	mg/l	0	See PAH Sum of 4	134	<0.00001	<0.00001	0	
Dibenz(ah)anthracene	mg/l	0	See BaP	134	<0.00001	<0.00001	0	
Benzo(ghi)perylene	mg/l	0	See PAH Sum of 4	134	<0.00001	<0.00001	0	
Total PAH	mg/l	0	No WSV	134	<0.00001	0.00377	0	
Benzene	mg/l	0	0.001	134	<0.001	<0.001	0	
Toluene	mg/l	0	0.7	134	<0.001	<0.001	0	
Ethylbenzene	mg/l	0	0.3	134	<0.001	<0.001	0	
m&p-Xylene	mg/l	0	No WSV	134	<0.001	<0.001	0	
o-Xylene	mg/l	0	0.5	134	<0.001	<0.001	0	
cis 1,2-Dichloroethene	mg/l	0	No WSV	134	<0.001	0.137	0	
1,1-Dichloroethane	mg/l	0	No WSV	134	<0.001	<0.001	0	

Constituents	PZ_21 40722 Campaign 3	PZ_16 40722 Campaign 3	GW6D 40721 Campaign 3	PZ_14 40723 Campaign 3	PZ_20 40723 Campaign 3	PZ_19 40723 Campaign 3	PZ_6 40724 Campaign 3	GW20 40724 Campaign 3	GW21 40724 Campaign 3	GW22 40725 Campaign 3	GW23 40725 Campaign 3	PZ_15 40724 Campaign 3
Arsenic	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Cadmium	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Chromium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Lead	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Nickel	0.002	0.005	0.003	<0.001	0.003	0.004	<0.001	<0.001	0.003	0.002	0.001	
Copper	<0.005	0.008	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Zinc	0.045	0.099	0.143	0.017	0.065	0.055	0.014	0.013	0.076	0.022	0.015	
Mercury	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
Iron	<0.01	18.64	<0.01	<0.01	<0.01	0.057	0.036	0.072	0.05	0.011	<0.01	
Boron	0.144	0.667	0.105	0.049	0.038	0.08	0.082	0.077	0.141	0.151	0.176	
Calcium	188.9	1297	803.7	43.2	43.4	14.6	155.7	108.5	62.9	84	111	195.9
Magnesium	14.9	533.8	44.5	7.5	14.2	5.1	15.8	18.3	7.3	5.9	6.6	17.4
Potassium	5.5	38.3	5.3	3.5	3.8	2.4	6.7	4.2	2.7	5.5	2.8	5.8
Sodium	66	5336	232.1	32.5	17.9	30.3	141.8	24.6	23.6	16.2	20	211.9
pH Value	7.6	7	7.4	7.5	6.6	5.9	7.2	7.4	6.4	7	7.3	7.3
Electrical Conductivity	1281	26100	5190	424	490	269	1599	899	568	597	740	
Sulphate	32	1197	51	57	20	21	9	49	47	35	100	5
Chloride	203	1270	1381	36	56	31	315	72	42	36	48	500
Nitrate	16	<1	<1	29	127	69	<1	191	118	101	47	
Free Cyanide	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	<0.005	<0.005	<0.005	
Total Phenols	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
Ammonium as NH4	0.04	3.71	0.34	0.01	0.02	0.02	10.06	0.01	<0.01	<0.01	0.11	
BOD	9	22	<2	<2	<2	<2	<2	<2	<2	<2	<2	
COD	<2	78	<2	<2	<2	<2	<2	<2	<2	3	<2	
Alkalinity	390	360	230	130	120	70	350	240	60	120	190	
Suspended Solids	64	16	<5	20	10	56	66	102	198	68	58	
Total Petroleum Hydrocarbons	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
PCB 28	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	
PCB 52	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	
PCB 101	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	
PCB 118	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	
PCB 138	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	
PCB 153	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	
PCB 180	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	
Total PCB	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	
Naphthalene	<0.00001	<0.00001	0.00011	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	
Acenaphthylene	<0.00001	<0.00001	0.00003	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	
Acenaphthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	
Fluorene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	
Phenanthrene	<0.00001	<0.00001	0.00006	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	
Anthracene	<0.00001	<0.00001	0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	
Fluoranthene	<0.00001	<0.00001	0.00021	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	
Pyrene	<0.00001	<0.00001	0.00019	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	
Benz(a)anthracene	<0.00001	<0.00001	0.00012	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	
Chrysene	<0.00001	<0.00001	0.00012	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	
Benzo(b)fluoranthene	<0.00001	<0.00001	0.00013	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	
Benzo(k)fluoranthene	<0.00001	<0.00001	0.00016	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	
Benzo(a)pyrene	<0.00001	<0.00001	0.00016	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	
Indeno(123-cd)pyrene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	
Dibenz(ah)anthracene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	
Benzo(ghi)perylene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	
Total PAH	<0.00001	<0.00001	0.0013	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	
Benzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Toluene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Ethylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
m&p-Xylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
o-Xylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
cis 1,2-Dichloroethene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
1,1-Dichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	

Constituents	PZ_16 40771 Campaign 4	GW19 40772 Campaign 4	PZ_16 DUP 40771 Campaign 4	PZ_6 40785 Campaign 4	PZ_14 40785 Campaign 4	GW5 / PZ_19 40786 Campaign 4	GW5 / PZ_19 DUP 40786 Campaign 4	GW6d 40786 Campaign 4	PZ_7 40786 Campaign 4	PZ_11 40786 Campaign 4	PZ_3 40786 Campaign 4	PZ_5 40787 Campaign 4	PZ_10 40787 Campaign 4	PZ_12 40787 Campaign 4	PZ_15 40787 Campaign 4
Arsenic	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005							
Cadmium	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001							
Chromium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005							
Lead	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001							
Nickel	0.002	0.002	0.002	<0.001	<0.001	0.01	0.01	0.003							
Copper	0.007	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005							
Zinc	0.044	0.054	0.053	0.016	0.009	0.026	0.024	0.027							
Mercury	<0.0001	0.0002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001							
Iron	<0.01	<0.01	0.085	0.317	<0.01	0.072	0.068	0.11							
Boron	<0.005	<0.005	<0.005	<0.005	<0.005	0.016	<0.005	<0.005							
Calcium	1066	211.2	1035	221.8	76.5	15.8	13.7	917.7	186.5	125.6	76.6	244	37.1	52.2	207.3
Magnesium	295.9	16.2	264.8	18.7	6.5	5.9	5.9	48.7	14.7	17.3	34	27.6	5.3	10.4	19.8
Potassium	26.9	6.9	24.4	8.7	3.5	2.6	2.6	5.8	5.7	9.6	141.5	28.8	43.6	3.7	7.7
Sodium	3578	92.2	2954	159.9	26	27.2	27	270	87.8	510.8	688.4	369.9	540.2	72.6	232.4
pH Value	6.5	7.2	6.5	6.9	7.5	6	5.9	6.7	7.1	7.2	8.1	6.8	8.1	7.5	7.1
Electrical Conductivity	21300	1442	20200	1558	411	281	290	5380							
Sulphate	932	31	850	8	51	15	15	36	<5	30	<5	<5	29	59	<5
Chloride	6844	354	6599	321	28	24	24	1236	302	775	939	273	895	257	482
Nitrate	<1	24	<1	<1	27	74	74	70							
Free Cyanide	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005							
Total Phenols	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005							
Ammonium as NH4	1.22	0.32	1.19	6.97	0.16	0.03	0.03	0.21							
BOD				<2	<2	<2	<2	<2							
COD				<2	<2	<2	<2	<2							
Alkalinity				420	80	60	40	210							
Suspended Solids				122	8	24	40	1200							
Total Petroleum Hydrocarbons				<0.01	<0.01	0.062	0.029	0.03							
PCB 28				<0.00001	<0.00001	<0.00001	<0.00001	<0.00001							
PCB 52				<0.00001	<0.00001	<0.00001	<0.00001	<0.00001							
PCB 101				<0.00001	<0.00001	<0.00001	<0.00001	<0.00001							
PCB 118				<0.00001	<0.00001	<0.00001	<0.00001	<0.00001							
PCB 138				<0.00001	<0.00001	<0.00001	<0.00001	<0.00001							
PCB 153				<0.00001	<0.00001	<0.00001	<0.00001	<0.00001							
PCB 180				<0.00001	<0.00001	<0.00001	<0.00001	<0.00001							
Total PCB				<0.00001	<0.00001	<0.00001	<0.00001	<0.00001							
Naphthalene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001							
Acenaphthylene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001							
Acenaphthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001							
Fluorene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001							
Phenanthrene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001							
Anthracene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001							
Fluoranthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001							
Pyrene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001							
Benz(a)anthracene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001							
Chrysene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001							
Benzo(b)fluoranthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001							
Benzo(k)fluoranthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001							
Benzo(a)pyrene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001							
Indeno(123-cd)pyrene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001							
Dibenz(ah)anthracene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001							
Benzo(ghi)perylene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001							
Total PAH	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001							
Benzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001							
Toluene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001							
Ethylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001							
m&p-Xylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001							
o-Xylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001							
cis 1,2-Dichloroethene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001							
1,1-Dichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001							

Constituents	GN4 40815 Campaign 5	GN5 40815 Campaign 5	GW20 40821 Campaign 5	GW21 40821 Campaign 5	GW22 40821 Campaign 5	GW23 40821 Campaign 5	GW23 DUP 40821 Campaign 5	GW7 40821 Campaign 5	GW8 40821 Campaign 5	GW6D 40815 Campaign 5	GW19 40816 Campaign 5	PZ_14 40815 Campaign 5	PZ_16 40815 Campaign 5	PZ_15 40816 Campaign 5	GW12 40819 Campaign 5	GW95 40819 Campaign 5	GW9D 40819 Campaign 5	Pz_6 40819 Campaign 5	GW13 40819 Campaign 5
Arsenic	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.009	0.031	<0.005	<0.005	<0.005	<0.005		<0.005	0.077	0.03	<0.005	<0.005
Cadmium	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001
Chromium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005
Lead	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001
Nickel	0.004	0.004	<0.001	0.003	0.004	0.002	0.002	0.001	0.002	0.009	0.004	0.003	0.006		0.002	<0.001	<0.001	<0.001	0.002
Copper	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.055	0.031	0.01	0.028	0.03	0.013	0.011	0.007	0.013	0.093	0.045	0.033	0.083		0.036	0.031	0.012	<0.005	0.048
Mercury	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0008	<0.0001	<0.0001	<0.0001		<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Iron	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	2.339	0.113	<0.01	<0.01	10.8		25.6	54.37	34.13	9.101	0.034
Boron	<0.005	0.055	<0.005	0.021	0.039	0.035	0.023	0.084	0.616	0.015	0.049	0.03	0.106		0.046	0.274	0.55	0.059	0.036
Calcium	53.5	25.5	112.3	68.4	122.2	107.1	108.8	44.2	106.5	1158	218.8	48.5	1147		90	111	102.5	135.3	70.3
Magnesium	15.5	5.5	25.6	7.9	12.7	8.6	8.8	22.2	40.2	65.9	17	9.1	351.5	16.5	16.4	37.3	53.9	15.2	12
Potassium	4.3	2.4	6.7	3.2	5	3.2	3.2	7.3	44.9	9.3	8.5	4.6	31.8	6.9	11.5	25.7	30	7.1	6.4
Sodium	15.4	27.5	32	27.8	31	22.6	27.3	47.1	126.7	456.9	107.3	60.4	3221	214.9	83.5	231.3	377.9	132.7	66.6
pH Value	6.5	6.2	7.3	6.5	6.6	7.3	7.4	7.7	7.4	6.8	6.9	7.5	6.6	6.9	6.7	7	6.8	6.9	7.4
Electrical Conductivity	477	279	874	564	798	656	680	511	1280	7120	1493	444	18710		800	1800	2900	1300	500
Sulphate	18	18	52	49	90	107	107	20	13	66	29	57	855	7	<5	<5	<5	7	43
Chloride	51	27	71	45	57	50	50	35	118	2434	258	54	6382	488	136	298	618	329	86
Nitrate	137	74	214	122	173	59	60	<5	<5	<1	25	36	<1		<1	<1	1	<1	4
Free Cyanide	0.01	0.007	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005
Total Phenols	<0.0005	<0.0005	<0.0005	<0.005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Ammonium as NH4	0	0	0.03	9	0.02	0.06	0.03	0.04	4.24	0.03	0.02	0.07	0.05		4.24	5.29	3.18	2.12	0.32
BOD	<2	<2								<2	<2	<2	33		<2	<2	5	<2	<2
COD	<2	<2	<2	<2	<2	<2	<2	<2	21	<2	<2	<2	120		12	21	22	<2	9
Alkalinity	60	50	160	120	140	180	170	260	590	300	360	150	400		420	650	720	420	300
Suspended Solids	6	<5	36	36	6	14	8	2	14	134	22	2	152		42	42	60	22	6
Total Petroleum Hydrocarbons	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01	<0.01	<0.01
PCB 28	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
PCB 52	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
PCB 101	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
PCB 118	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
PCB 138	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
PCB 153	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
PCB 180	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Total PCB	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Naphthalene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.001	<0.00001	<0.00001	0.00005	<0.00001	<0.00001		0.00323	0.00099	0.00067	0.0006	0.00081
Acenaphthylene	<0.00001	<0.00001	0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001		0.00012	<0.00001	<0.00001	<0.00001	<0.00001
Acenaphthene	<0.00001	<0.00001	0.00017	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001		<0.00001	0.00002	0.00021	0.00001	0.00001
Fluorene	<0.00001	<0.00001	0.00018	0.00004	0.00002	0.00004	0.00004	0.00003	0.00003	0.00008	0.00009	<0.00001	<0.00001		0.00017	<0.00001	<0.00001	0.00013	0.00012
Phenanthrene	<0.00001	<0.00001	0.00022	0.00003	0.00002	0.00003	0.00003	<0.00001	<0.00001	0.00009	0.00014	<0.00001	<0.00001		0.00024	0.00015	0.00005	0.00013	0.00008
Anthracene	<0.00001	<0.00001	0.00003	0.00001	<0.00001	0.00002	<0.00001	<0.00001	<0.00001	0.00001	0.00001	<0.00001	<0.00001		0.00001	0.00001	0.00001	<0.00001	<0.00001
Fluoranthene	<0.00001	<0.00001	0.00008	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.001	0.00003	0.00004	<0.00001	<0.00001		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Pyrene	<0.00001	<0.00001	0.00007	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.00003	0.00004	<0.00001	<0.00001		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benz(a)anthracene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Chrysene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo(b)fluoranthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo(k)fluoranthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo(a)pyrene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Indeno(123-cd)pyrene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Dibenz(ah)anthracene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo(ghi)perylene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Total PAH	<0.00001	<0.00001	0.00076	0.00008	0.00004	0.00009	0.00007	0.00003	0.00003	0.00024	0.00037	<0.00001	<0.00001		0.00377	0.00117	0.00094	0.00087	0.00102
Benzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001
Toluene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001
Ethylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001
m&p-Xylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001
o-Xylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001
cis 1,2-Dichloroethene	<0.001	<0.001	0.137	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001

Constituents	Pz_3 40851 Campaign 6	Pz_7 40849 Campaign 6	Pz_18 40849 Campaign 6	Pz_10 40850 Campaign 6
Calcium	149.2	213	641.8	99.9
Magnesium	33.6	15.8	35.2	19.9
Potassium	96.4	5.3	7.9	30.7
Sodium	230.8	95.4	226.4	426.5
pH Value	7.3	7	6.8	7.3
Sulphate	8	15	19	6
Chloride	991	318	1453	836

ATKINS

Assessment Criteria : *Drinking Water Standard*

CaCO (mg/l): 0.00 **pH** 0.00

Calcium (mg/l): 0.00 **DOC (mg/l)** 0.00 **Catchment area:** **Freshwater not listed**

Constituents	Unit	Limit of Detection	Generic Assessment Criteria	Number of Samples	Minimum Value	Maximum Value	Number of Exceedences	Locations of Exceedences	PZ_21	PZ_16	GW6D	PZ_14	PZ_20	PZ_19	PZ_6	GW20	GW21	GW22	GW23	PZ_15	PZ_16	GW19	PZ_16 DUP	PZ_6	PZ_14	GW5 / PZ_19	GW5 / PZ_19 DUP	GW6d	PZ_7	PZ_11	PZ_3	PZ_5	PZ_10	PZ_12	PZ_15	GN4	GN5	GW20	GW21	GW22	GW23	GW23 DUP	GW7	GW8	GW6D	GW19	PZ_14	PZ_16	PZ_15	GW12	GW95	GW9D	Pz_6	GW13	Pz_3	Pz_7	Pz_18	Pz_10
									40722	40722	40721	40723	40723	40723	40724	40724	40724	40725	40725	40724	40771	40772	40771	40785	40785	40786	40786	40786	40786	40786	40786	40787	40787	40787	40787	40815	40815	40821	40821	40821	40821	40821	40821	40821	40815	40816	40815	40815	40816	40819	40819	40819	40819	40819	40851	40849	40849	40850
									Campaign 3	Campaign 3	Campaign 3	Campaign 3	Campaign 3	Campaign 3	Campaign 3	Campaign 3	Campaign 3	Campaign 3	Campaign 3	Campaign 3	Campaign 4	Campaign 4	Campaign 4	Campaign 4	Campaign 4	Campaign 4	Campaign 4	Campaign 4	Campaign 4	Campaign 4	Campaign 4	Campaign 4	Campaign 4	Campaign 4	Campaign 4	Campaign 5	Campaign 5	Campaign 5	Campaign 5	Campaign 5	Campaign 5	Campaign 5	Campaign 5	Campaign 5	Campaign 5	Campaign 5	Campaign 5	Campaign 5	Campaign 5	Campaign 5	Campaign 5	Campaign 5	Campaign 5	Campaign 5	Campaign 6	Campaign 6	Campaign 6	Campaign 6
Chloroform	mg/l	0	See Trihalomethanes	134	0.001	0.001	0		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001								<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001				
Carbontetrachloride	mg/l	0	No WSV	134	<0.001	<0.001	0		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001								<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001				
1,1,1-Trichloroethane	mg/l	0	2	134	<0.001	0.003	0		<0.001	<0.001	<0.001	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001								<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.003	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001				
Trichloroethylene	mg/l	0	0.01 (sum of TCE & PCE)	134	<0.001	<0.001	0		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001								<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001				
Tetrachloroethylene	mg/l	0	0.01 (sum of TCE & PCE)	134	<0.001	0.031	0		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001								<0.001	<0.001	0.031	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001				
1,1,1,2-Tetrachloroethane	mg/l	0	No WSV	134	<0.001	<0.001	0		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001								<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001				
1,1,2,2-Tetrachloroethane	mg/l	0	No WSV	134	<0.001	<0.001	0		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001								<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001				
Chlorobenzene	mg/l	0	No WSV	134	<0.001	<0.001	0		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001								<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001				
Bromobenzene	mg/l	0	No WSV	134	<0.001	<0.001	0		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001								<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001				
Bromodichloromethane	mg/l	0	See Trihalomethanes	134	<0.001	<0.001	0		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001								<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001				
Methylethylbenzene	mg/l	0	No WSV	134	<0.001	<0.001	0		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001								<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001				
1,1-Dichloro-1-Propene	mg/l	0	No WSV	134	<0.001	<0.001	0		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001								<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001				
1,2-Dichloroethane	mg/l	0	0.003	134	<0.001	0.132	1	GW20, 40821, Campaign 5	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001								<0.001	<0.001	0.132	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001				
2-2-Dichloropropane	mg/l	0	No WSV	134	<0.001	0.002	0		<0.001	<0.001	<0.001	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001								<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001				
Bromochloromethane	mg/l	0	No WSV	134	0.001	0.001	0		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001								<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001				
trans 1,2-Dichloroethene	mg/l	0	No WSV	134	<0.001	<0.001	0		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001								<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001				
Dibromomethane	mg/l	0	No WSV	134	<0.001	<0.001	0		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001								<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001				
1,2-Dichloropropane	mg/l	0	0.04	134	<0.001	<0.001	0		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001								<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001				
cis 1,3-Dichloro-1-Propene	mg/l	0	No WSV	134	<0.001	<0.001	0		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001								<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001				
trans 1,3-Dichloro-1-Propene	mg/l	0	No WSV	134	<0.001	0.003	0		<0.001	<0.001	<0.001	0.003	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001								<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001				
1,1,2-Trichloroethane	mg/l	0	N/A	134	<0.001	<0.001	0		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001								<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001				
Dibromochloromethane	mg/l	0	See Trihalomethanes	134	<0.001	<0.001	0		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001								<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001				
1,3-Dichloropropane	mg/l	0	No WSV	134	<0.001	<0.001	0		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001								<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001				
Dibromoethane	mg/l	0	No WSV	134	<0.001	<0.001	0		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001								<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001				
Styrene	mg/l	0	0.02	134	<0.001	<0.001	0		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001								<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001				
Propylbenzene	mg/l	0	No WSV	134	<0.001	<0.001	0		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001								<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001				
2-Chlorotoluene	mg/l	0	No WSV	134	<0.001	<0.001	0		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001								<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001				
1,2,4-Trimethylbenzene	mg/l	0	No WSV	134	<0.001	<0.001	0		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001								<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001				
4-Chlorotoluene	mg/l	0	No WSV	134	<0.001	<0.001	0		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001								<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001				
tert-Butylbenzene	mg/l	0	No WSV	134	0.001	0.001	0		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001								<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001				
1,3,5-Trimethylbenzene	mg/l	0	No WSV	134	<0.001	<0.001	0		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001								<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001				
1-methylpropylbenzene	mg/l	0	No WSV	134	<0.001	<0.001	0		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001								<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001				
o-Cymene	mg/l	0	No WSV	134	<0.001	<0.001	0		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001								<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001				
1,4-Dichlorobenzene	mg/l	0	No WSV	134	<0.001	<0.001	0		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001								<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001				
sec-Butylbenzene	mg/l	0	No WSV	134	<0.001	<0.001	0		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001								<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001				
1,2-Dibromo-3-chloropropane	mg/l	0	0.001	134	<0.001	<0.001	0		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001								<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001				
Hexachlorobutadiene	mg/l	0	0.0006	134	<0.001	<0.001	0		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001								<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001				
1,2,3-Trichlorobenzene	mg/l	0	No WSV	134	<0.001	<0.001	0		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001								<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001				
1,2,4-Trichlorobenzene	mg/l	0	No WSV	134	<0.001	<0.001	0		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001								<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001				
1,3-Dichlorobenzene	mg/l	0	No WSV	134	<0.001	<0.001	0		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001								<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001				
1,2-Dichlorobenzene	mg/l	0	No WSV	134	<0.001	<0.001	0		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001								<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001				
Vinyl Chloride	mg/l	0	0.0005	134	<0.001	<0.001	0		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001								<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001				

Assessment Criteria :	Drinking Water Standard			
CaCO (mg/l): 0.00	pH 0.00			
Calcium (mg/l): 0.00	DOC (mg/l) 0.00	Catchment area:	Freshwater not listed	

Constituents	Unit	Limit of Detection	Generic Assessment Criteria	Number of Samples	Minimum Value	Maximum Value	Number of Exceedences	Locations of Exceedences
Arsenic	mg/l	0	0.01	134	<0.005	0.077	4	GW24S, 40682, Campaign 1; GW8, 40821, Campaign 5; GW95, 40819, Campaign 5; GW9D, 40819, Campaign 5
Cadmium	mg/l	0	0.005	134	<0.001	0.002	0	
Chromium	mg/l	0	0.05	134	<0.005	<0.005	0	
Lead	mg/l	0	0.01	134	0.001	0.001	0	
Nickel	mg/l	0	0.02	134	0.001	0.011	0	
Copper	mg/l	0	2	134	<0.005	0.008	0	
Zinc	mg/l	0	3	134	<0.005	0.143	0	
Mercury	mg/l	0	0.001	134	0.0001	<0.001	0	
Iron	mg/l	0	0.2	134	<0.01	54.37	13	PZ_6, 40683, Campaign 1; GW24S, 40682, Campaign 1; PZ_16, 40687, Campaign 1; PZ_16, 40722, Campaign 2; PZ_16, 40722, Campaign 3; PZ_6, 40785, Campaign 4; GW8, 40821, Campaign 5; PZ_16, 40815, Campaign 5; GW12, 40819, Campaign 5; GW95, 40819, Campaign 5; GW9D, 40819, Campaign 5; Pz_6, 40819, Campaign 5; PZ_3, 40870, Campaign 7
Boron	mg/l	0	1	134	<0.005	0.667	0	
Calcium	mg/l		N/A	134	12.4	1297	0	
Magnesium	mg/l		N/A	134	2.3	987.8	0	
Potassium	mg/l		N/A	134	2.4	250.3	0	
Sodium	mg/l		200	134	15.4	8632	55	PZ_3, 40652, Campaign 0; PZ_10, 40653, Campaign 0; PZ_11, 40652, Campaign 0; PZ_15, 40653, Campaign 0; PZ_18, 40652, Campaign 0; PZ_18, 40683, Campaign 1; GW24S, 40682, Campaign 1; PZ_16, 40687, Campaign 1; PZ_3, 40689, Campaign 1; PZ_10, 40689, Campaign 1; PZ_11, 40689, Campaign 1; PZ_12, 40689, Campaign 1; PZ_15, 40690, Campaign 1; GW6D, 40721, Campaign 2; PZ_16, 40722, Campaign 2; PZ_3, 40696, Campaign 2; PZ_5, 40696, Campaign 2; PZ_10, 40696, Campaign 2; PZ_11, 40696, Campaign 2; PZ_12, 40696, Campaign 2; PZ_15, 40724, Campaign 2; PZ_16, 40722, Campaign 3; GW6D, 40721, Campaign 3; PZ_15, 40724, Campaign 3; PZ_16, 40771, Campaign 4; PZ_16 DUP, 40771, Campaign 4; GW6d, 40786, Campaign 4; PZ_11, 40786, Campaign 4; PZ_3, 40786, Campaign 4; PZ_5, 40787, Campaign 4; PZ_10, 40787, Campaign 4; PZ_15, 40787, Campaign 4; GW6D, 40815, Campaign 5; PZ_16, 40815, Campaign 5; PZ_15, 40816, Campaign 5; GW95, 40819, Campaign 5; GW9D, 40819, Campaign 5; Pz_3, 40851, Campaign 6; Pz_18, 40849, Campaign 6; Pz_10, 40850, Campaign 6; Pz_16, 40850, Campaign 6; Pz_11, 40849, Campaign 6; Pz_15, 40851, Campaign 6; PZ_11, 40869, Campaign 7; PZ_16, 40869, Campaign 7; PZ_18, 40870, Campaign 7; PZ_3, 40870, Campaign 7; PZ_10, 40870, Campaign 7; PZ_15, 40871, Campaign 7;
pH Value	Units		No WSV	134	5.8	11.2	0	
Electrical Conductivity	µS/cm		No WSV	134	269	26100	0	
Sulphate	mg/l		250	134	<1	1197	14	PZ_16, 40687, Campaign 1; PZ_3, 40689, Campaign 1; PZ_5, 40689, Campaign 1; PZ_7, 40689, Campaign 1; PZ_10, 40689, Campaign 1; PZ_11, 40689, Campaign 1; PZ_12, 40689, Campaign 1; PZ_16, 40722, Campaign 2; PZ_16, 40722, Campaign 3; PZ_16, 40771, Campaign 4; PZ_16 DUP, 40771, Campaign 4; PZ_16, 40815, Campaign 5; Pz_16, 40850, Campaign 6; Pz_16, 41263, Campaign 8
Chloride	mg/l		250	134	0.1	8504	73	PZ_3, 40652, Campaign 0; PZ_5, 40653, Campaign 0; PZ_7, 40652, Campaign 0; PZ_10, 40653, Campaign 0; PZ_11, 40652, Campaign 0; PZ_12, 40653, Campaign 0; PZ_15, 40653, Campaign 0; PZ_18, 40652, Campaign 0; PZ_6, 40683, Campaign 1; PZ_18, 40683, Campaign 1; GW24S, 40682, Campaign 1; PZ_16, 40687, Campaign 1; GW6D, 40721, Campaign 2; PZ_16, 40722, Campaign 2; PZ_3, 40696, Campaign 2; PZ_5, 40696, Campaign 2; PZ_7, 40696, Campaign 2; PZ_10, 40696, Campaign 2; PZ_11, 40696, Campaign 2; PZ_12, 40696, Campaign 2; PZ_6, 40724, Campaign 2; PZ_15, 40724, Campaign 2; PZ_16, 40722, Campaign 3; GW6D, 40721, Campaign 3; PZ_6, 40724, Campaign 3; PZ_15, 40724, Campaign 3; PZ_16, 40771, Campaign 4; GW19, 40772, Campaign 4; PZ_16 DUP, 40771, Campaign 4; PZ_6, 40785, Campaign 4; GW6d, 40786, Campaign 4; PZ_7, 40786, Campaign 4; PZ_11, 40786, Campaign 4; PZ_3, 40786, Campaign 4; PZ_5, 40787, Campaign 4; PZ_10, 40787, Campaign 4; PZ_12, 40787, Campaign 4; PZ_15, 40787, Campaign 4; GW6D, 40815, Campaign 5; GW19, 40816, Campaign 5; PZ_16, 40815, Campaign 5; PZ_15, 40816, Campaign 5; GW95, 40819, Campaign 5; GW9D, 40819, Campaign 5; Pz_6, 40819, Campaign 5; Pz_3, 40851, Campaign 6; Pz_7, 40849, Campaign 6; Pz_18, 40849, Campaign 6; Pz_10, 40850, Campaign 6; Pz_16, 40850,
Nitrate	mg/l		0.05	134	1	214	42	GW1D, 40682, Campaign 1; GW2, 40682, Campaign 1; GW3, 40682, Campaign 1; PZ_14, 40683, Campaign 1; PZ_19, 40687, Campaign 1; PZ_20, 40687, Campaign 1; PZ_21, 40687, Campaign 1; PZ_21, 40722, Campaign 2; PZ_14, 40723, Campaign 2; PZ_20, 40723, Campaign 2; PZ_19, 40723, Campaign 2; GW20, 40724, Campaign 2; GW21, 40724, Campaign 2; GW22, 40725, Campaign 2; GW23, 40725, Campaign 2; PZ_21, 40722, Campaign 3; PZ_14, 40723, Campaign 3; PZ_20, 40723, Campaign 3; PZ_19, 40723, Campaign 3; GW20, 40724, Campaign 3; GW21, 40724, Campaign 3; GW22, 40725, Campaign 3; GW23, 40725, Campaign 3; GW19, 40772, Campaign 4; PZ_14, 40785, Campaign 4; GW5 / PZ_19, 40786, Campaign 4; GW5 / PZ_19 DUP, 40786, Campaign 4; GW6d, 40786, Campaign 4; GN4, 40815, Campaign 5; GN5, 40815, Campaign 5; GW20, 40821, Campaign 5; GW21, 40821, Campaign 5; GW22, 40821, Campaign 5; GW23, 40821, Campaign 5; GW23 DUP, 40821, Campaign 5; GW19, 40816, Campaign 5; PZ_14, 40815, Campaign 5; GW9D, 40819, Campaign 5; GW13, 40819, Campaign 5; PZ_19, 40869, Campaign 7; PZ_21, 40869, Campaign 7; PZ_14, 40870, Campaign 7
Free Cyanide	mg/l	0	See Cyanide (total)	134	0.005	0.01	0	
Total Phenols	mg/l	0	No WSV	134	<0.0005	<0.005	0	
Ammonium as NH4	mg/l		0.5	134	<0.01	84.6	25	PZ_6, 40683, Campaign 1; GW24S, 40682, Campaign 1; PZ_16, 40687, Campaign 1; PZ_16, 40722, Campaign 2; PZ_6, 40724, Campaign 2; PZ_16, 40722, Campaign 3; PZ_6, 40724, Campaign 3; PZ_16, 40771, Campaign 4; PZ_16 DUP, 40771, Campaign 4; PZ_6, 40785, Campaign 4; GW21, 40821, Campaign 5; GW8, 40821, Campaign 5; GW12, 40819, Campaign 5; GW95, 40819, Campaign 5; GW9D, 40819, Campaign 5; Pz_6, 40819, Campaign 5; PZ_11, 40869, Campaign 7; PZ_16, 40869, Campaign 7; PZ_7, 40870, Campaign 7; PZ_3, 40870, Campaign 7; PZ_10, 40870, Campaign 7; PZ_12, 40870, Campaign 7; PZ_5, 40870, Campaign 7; PZ_6, 40871, Campaign 7; PZ_15, 40871, Campaign 7
BOD	mg/l		No WSV	134	<2	33	0	
COD	mg/l		No WSV	134	<2	120	0	
Alkalinity	mg/l CaCO3		No WSV	134	40	720	0	
Suspended Solids	mg/l		No WSV	134	2	1200	0	
Total Petroleum Hydrocarbons	mg/l	0	No WSV	134	<0.01	0.062	0	
PCB 28	mg/l	0	No WSV	134	<0.00001	<0.00001	0	
PCB 52	mg/l	0	No WSV	134	<0.00001	<0.00001	0	
PCB 101	mg/l	0	No WSV	134	<0.00001	<0.00001	0	
PCB 118	mg/l	0	No WSV	134	<0.00001	<0.00001	0	
PCB 138	mg/l	0	No WSV	134	<0.00001	<0.00001	0	
PCB 153	mg/l	0	No WSV	134	<0.00001	<0.00001	0	
PCB 180	mg/l	0	No WSV	134	<0.00001	<0.00001	0	
Total PCB	mg/l	0	No WSV	134	<0.00001	<0.00001	0	
Naphthalene	mg/l	0	See BaP	134	<0.00001	0.00323	0	
Acenaphthylene	mg/l	0	See BaP	134	0.00001	0.00012	0	
Acenaphthene	mg/l	0	See BaP	134	0.00001	0.00021	0	
Fluorene	mg/l	0	See BaP	134	<0.00001	0.00018	0	
Phenanthrene	mg/l	0	See BaP	134	<0.00001	0.00024	0	
Anthracene	mg/l	0	See BaP	134	0.00001	0.00003	0	
Fluoranthene	mg/l	0	See BaP	134	<0.00001	<0.001	0	
Pyrene	mg/l	0	See BaP	134	<0.00001	0.00019	0	
Benz(a)anthracene	mg/l	0	No WSV	134	<0.00001	0.00012	0	
Chrysene	mg/l	0	See BaP	134	<0.00001	0.00012	0	
Benzo(b)fluoranthene	mg/l	0	See PAH Sum of 4	134	<0.00001	0.00013	0	
Benzo(k)fluoranthene	mg/l	0	See PAH Sum of 4	134	<0.00001	0.00016	0	
Benzo(a)pyrene	mg/l	0	0.00001	134	<0.00001	0.00016	1	GW6D, 40721, Campaign 3
Indeno(123-cd)pyrene	mg/l	0	See PAH Sum of 4	134	<0.00001	<0.00001	0	
Dibenz(ah)anthracene	mg/l	0	See BaP	134	<0.00001	<0.00001	0	
Benzo(ghi)perylene	mg/l	0	See PAH Sum of 4	134	<0.00001	<0.00001	0	
Total PAH	mg/l	0	No WSV	134	<0.00001	0.00377	0	
Benzene	mg/l	0	0.001	134	<0.001	<0.001	0	
Toluene	mg/l	0	0.7	134	<0.001	<0.001	0	
Ethylbenzene	mg/l	0	0.3	134	<0.001	<0.001	0	
m&p-Xylene	mg/l	0	No WSV	134	<0.001	<0.001	0	
o-Xylene	mg/l	0	0.5	134	<0.001	<0.001	0	
cis 1,2-Dichloroethene	mg/l	0	No WSV	134	<0.001	0.137	0	
1,1-Dichloroethane	mg/l	0	No WSV	134	<0.001	<0.001	0	

Constituents	Pz_12 40850 Campaign 6	Pz_14 40850 Campaign 6	Pz_16 40850 Campaign 6	Pz_19 40850 Campaign 6	Pz_21 40850 Campaign 6	Pz_11 40849 Campaign 6	Pz_5 40851 Campaign 6	Pz_6 40851 Campaign 6	Pz_15 40851 Campaign 6
Arsenic									
Cadmium									
Chromium									
Lead									
Nickel									
Copper									
Zinc									
Mercury									
Iron									
Boron									
Calcium	107.8	45.8	787.5	18.5	254.3	188.2	129	157.6	238.1
Magnesium	16.3	7	198.6	6.1	18.5	22	12.6	15.6	18.1
Potassium	6.2	3.8	19.4	2.9	8.5	12.7	15.9	7.7	8.1
Sodium	100.6	29.2	2452	29.5	98.3	405.9	188.9	127.2	250.5
pH Value	7.3	7.6	6.6	6.6	6.9	7.3	6.8	7	7
Electrical Conductivity									
Sulphate	59	51	747	16	24	46	<5	<5	<5
Chloride	146	30	5683	25	228	838	275	239	494

Constituents	PZ_19 40869 Campaign 7	PZ_11 40869 Campaign 7	PZ_16 40869 Campaign 7	PZ_21 40869 Campaign 7	PZ_18 40870 Campaign 7	PZ_14 40870 Campaign 7	PZ_7 40870 Campaign 7	PZ_3 40870 Campaign 7	PZ_10 40870 Campaign 7	PZ_12 40870 Campaign 7	PZ_5 40870 Campaign 7	PZ_6 40871 Campaign 7	PZ_15 40871 Campaign 7
Arsenic	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Cadmium	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Lead	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Nickel	0.001	<0.001	0.003	0.005	0.002	<0.001	<0.001	0.004	0.006	<0.001	<0.001	<0.001	0.001
Copper	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.031	0.012	0.047	0.039	0.026	<0.005	0.037	0.08	0.02	0.01	0.009	0.02	0.01
Mercury	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Iron	<0.01	0.024	0.054	<0.01	<0.01	<0.01	<0.01	2.881	0.054	<0.01	0.011	0.019	<0.01
Boron	<0.005	0.158	0.075	0.066	<0.005	<0.005	<0.005	0.062	0.101	<0.005	0.058	0.007	0.049
Calcium	17.9	131.8	994.3	205.5	744.7	46.6	209.1	175.9	141.5	109.6	118.9	185.1	201.4
Magnesium	6.3	18.9	25.8	15.8	41.7	8.2	17.6	34	25.6	17.9	13.2	19.3	17.5
Potassium	3	10	24	6.8	6.1	4.6	5.8	59.8	31	6.7	14.9	7.6	7.5
Sodium	46.6	538.6	2345	98.6	232.5	52.9	117.1	588.8	480.8	119.4	195.4	185.5	236.6
pH Value	6.2	7.4	6.7	7.1	7.1	7.9	7.1	7.4	7.2	7.3	6.9	7.2	7.1
Electrical Conductivity	298	2990	18010	1456	4650	421	1524	3570	2940	1023	1413	1748	2010
Sulphate	24	49	85	31	50	60	16	10	10	64	7	36	7
Chloride	48	800	652	294	1269	53	353	936	790	169	291	427	508
Nitrate	67	<5	<5	22	<5	28	<5	<5	<5	<5	<5	<5	<5
Free Cyanide	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Phenols	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Ammonium as NH4	0.02	4.23	8.46	0.01	0.03	0.01	4.23	4.23	42.3	1.69	84.6	8.46	4.23
BOD	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
COD	<2	<2	<2	11	<2	<2	6	11	14	11	9	28	9
Alkalinity	120	390	340	390	240	150	320	350	360	320	420	340	370
Suspended Solids	18	16	82	16	32	4	6	24	18	6	12	10	10
Total Petroleum Hydrocarbons	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB 28	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
PCB 52	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
PCB 101	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
PCB 118	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
PCB 138	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
PCB 153	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
PCB 180	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Total PCB	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Naphthalene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Acenaphthylene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Acenaphthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Fluorene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Phenanthrene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Anthracene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Fluoranthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Pyrene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benz(a)anthracene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Chrysene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo(b)fluoranthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo(k)fluoranthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo(a)pyrene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Indeno(123-cd)pyrene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Dibenz(ah)anthracene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo(ghi)perylene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Total PAH	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Toluene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Ethylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
m&p-Xylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
o-Xylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
cis 1,2-Dichloroethene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

Constituents	Pz_16 41263 Campaign 8	Pz_7 41263 Campaign 8	Pz_11 41263 Campaign 8	Pz_21 41263 Campaign 8	Pz_19 41263 Campaign 8	Pz_12 40898 Campaign 8	Pz_5 40898 Campaign 8	Pz_18 40898 Campaign 8	Pz_14 40898 Campaign 8	Pz_10 40898 Campaign 8	Pz_3 40898 Campaign 8	Pz_15 40899 Campaign 8	Pz_6 40899 Campaign 8
Calcium	905.9	200.9	159.8	200.3	21.8	109.7	123.5	1084	44.5	168.4	179.9	232.2	172.8
Magnesium	223.4	16.7	21	15.3	5.9	17.1	13.3	60.9	7.1	27.5	34.4	20	18.3
Potassium	22.2	5.4	12.3	6.9	3.4	6.7	15.8	7.9	4.2	30.3	68	9.1	8.4
Sodium	2141	97.7	631.7	82.9	32.2	98.3	187.1	363.9	30.2	470	607.5	256.9	164.8
pH Value	6.6	7.1	7.3	6.9	9.4	7.2	6.7	6.8	7.7	7	7.2	7	7.3
Sulphate	728	9	49	32	18	59	<5	41	48	<5	<5	<5	21
Chloride	5342	336	802	254	34	148	289	1584	30	772	945	500	373

Assessment Criteria :	Drinking Water Standard				
CaCO (mg/l):	0.00	pH	0.00		
Calcium (mg/l):	0.00	DOC (mg/l)	0.00	Catchment area:	Freshwater not listed

Constituents	Unit	Limit of Detection	Generic Assessment Criteria	Number of Samples	Minimum Value	Maximum Value	Number of Exceedences	Locations of Exceedences
Chloroform	mg/l	0	See Trihalomethanes	134	0.001	0.001	0	
Carbontetrachloride	mg/l	0	No WSV	134	<0.001	<0.001	0	
1,1,1-Trichloroethane	mg/l	0	2	134	<0.001	0.003	0	
Trichloroethylene	mg/l	0	0.01 (sum of TCE & PCE)	134	<0.001	<0.001	0	
Tetrachloroethylene	mg/l	0	0.01 (sum of TCE & PCE)	134	<0.001	0.031	0	
1,1,1,2-Tetrachloroethane	mg/l	0	No WSV	134	<0.001	<0.001	0	
1,1,2,2-Tetrachloroethane	mg/l	0	No WSV	134	<0.001	<0.001	0	
Chlorobenzene	mg/l	0	No WSV	134	<0.001	<0.001	0	
Bromobenzene	mg/l	0	No WSV	134	<0.001	<0.001	0	
Bromodichloromethane	mg/l	0	See Trihalomethanes	134	<0.001	<0.001	0	
Methylethylbenzene	mg/l	0	No WSV	134	<0.001	<0.001	0	
1,1-Dichloro-1-Propene	mg/l	0	No WSV	134	<0.001	<0.001	0	
1,2-Dichloroethane	mg/l	0	0.003	134	<0.001	0.132	1	GW20, 40821, Campaign 5
2-2-Dichloropropane	mg/l	0	No WSV	134	<0.001	0.002	0	
Bromochloromethane	mg/l	0	No WSV	134	0.001	0.001	0	
trans 1,2-Dichloroethene	mg/l	0	No WSV	134	<0.001	<0.001	0	
Dibromomethane	mg/l	0	No WSV	134	<0.001	<0.001	0	
1,2-Dichloropropane	mg/l	0	0.04	134	<0.001	<0.001	0	
cis 1,3-Dichloro-1-Propene	mg/l	0	No WSV	134	<0.001	<0.001	0	
trans 1,3-Dichloro-1-Propene	mg/l	0	No WSV	134	<0.001	0.003	0	
1,1,2-Trichloroethane	mg/l	0	N/A	134	<0.001	<0.001	0	
Dibromochloromethane	mg/l	0	See Trihalomethanes	134	<0.001	<0.001	0	
1,3-Dichloropropane	mg/l	0	No WSV	134	<0.001	<0.001	0	
Dibromoethane	mg/l	0	No WSV	134	<0.001	<0.001	0	
Styrene	mg/l	0	0.02	134	<0.001	<0.001	0	
Propylbenzene	mg/l	0	No WSV	134	<0.001	<0.001	0	
2-Chlorotoluene	mg/l	0	No WSV	134	<0.001	<0.001	0	
1,2,4-Trimethylbenzene	mg/l	0	No WSV	134	<0.001	<0.001	0	
4-Chlorotoluene	mg/l	0	No WSV	134	<0.001	<0.001	0	
tert-Butylbenzene	mg/l	0	No WSV	134	0.001	0.001	0	
1,3,5-Trimethylbenzene	mg/l	0	No WSV	134	<0.001	<0.001	0	
1-methylpropylbenzene	mg/l	0	No WSV	134	<0.001	<0.001	0	
o-Cymene	mg/l	0	No WSV	134	<0.001	<0.001	0	
1,4-Dichlorobenzene	mg/l	0	No WSV	134	<0.001	<0.001	0	
sec-Butylbenzene	mg/l	0	No WSV	134	<0.001	<0.001	0	
1,2-Dibromo-3-chloropropane	mg/l	0	0.001	134	<0.001	<0.001	0	
Hexachlorobutadiene	mg/l	0	0.0006	134	<0.001	<0.001	0	
1,2,3-Trichlorobenzene	mg/l	0	No WSV	134	<0.001	<0.001	0	
1,2,4-Trichlorobenzene	mg/l	0	No WSV	134	<0.001	<0.001	0	
1,3-Dichlorobenzene	mg/l	0	No WSV	134	<0.001	<0.001	0	
1,2-Dichlorobenzene	mg/l	0	No WSV	134	<0.001	<0.001	0	
Vinyl Chloride	mg/l	0	0.0005	134	<0.001	<0.001	0	

Constituents	Pz_12	Pz_14	Pz_16	Pz_19	Pz_21	Pz_11	Pz_5	Pz_6	Pz_15	PZ_19	PZ_11	PZ_16	PZ_21	PZ_18	PZ_14	PZ_7	PZ_3	PZ_10	PZ_12	PZ_5	PZ_6	PZ_15
	40850	40850	40850	40850	40850	40849	40851	40851	40851	40869	40869	40869	40869	40870	40870	40870	40870	40870	40870	40870	40871	40871
	Campaign 6	Campaign 6	Campaign 6	Campaign 6	Campaign 6	Campaign 6	Campaign 6	Campaign 6	Campaign 6	Campaign 7	Campaign 7	Campaign 7	Campaign 7	Campaign 7	Campaign 7	Campaign 7	Campaign 7	Campaign 7	Campaign 7	Campaign 7	Campaign 7	Campaign 7
Chloroform										<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Carbontetrachloride										<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,1-Trichloroethane										<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trichloroethylene										<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tetrachloroethylene										<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,1,2-Tetrachloroethane										<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,2,2-Tetrachloroethane										<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chlorobenzene										<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromobenzene										<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromodichloromethane										<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Methylethylbenzene										<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloro-1-Propene										<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichloroethane										<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2-2-Dichloropropane										<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromochloromethane										<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
trans 1,2-Dichloroethene										<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dibromomethane										<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichloropropane										<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
cis 1,3-Dichloro-1-Propene										<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
trans 1,3-Dichloro-1-Propene										<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,2-Trichloroethane										<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dibromochloromethane										<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,3-Dichloropropane										<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dibromoethane										<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Styrene										<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Propylbenzene										<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2-Chlorotoluene										<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2,4-Trimethylbenzene										<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
4-Chlorotoluene										<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
tert-Butylbenzene										<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,3,5-Trimethylbenzene										<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1-methylpropylbenzene										<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
o-Cymene										<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,4-Dichlorobenzene										<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
sec-Butylbenzene										<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dibromo-3-chloropropane										<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Hexachlorobutadiene										<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2,3-Trichlorobenzene										<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2,4-Trichlorobenzene										<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,3-Dichlorobenzene										<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichlorobenzene										<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vinyl Chloride										<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

Constituents	Pz_16	Pz_7	Pz_11	Pz_21	Pz_19	Pz_12	Pz_5	Pz_18	Pz_14	Pz_10	Pz_3	Pz_15	Pz_6
	41263	41263	41263	41263	41263	40898	40898	40898	40898	40898	40898	40899	40899
	Campaign 8	Campaign 8	Campaign 8	Campaign 8	Campaign 8	Campaign 8	Campaign 8	Campaign 8	Campaign 8	Campaign 8	Campaign 8	Campaign 8	Campaign 8
Chloroform													
Carbontetrachloride													
1,1,1-Trichloroethane													
Trichloroethylene													
Tetrachloroethylene													
1,1,1,2-Tetrachloroethane													
1,1,2,2-Tetrachloroethane													
Chlorobenzene													
Bromobenzene													
Bromodichloromethane													
Methylethylbenzene													
1,1-Dichloro-1-Propene													
1,2-Dichloroethane													
2-2-Dichloropropane													
Bromochloromethane													
trans 1,2-Dichloroethene													
Dibromomethane													
1,2-Dichloropropane													
cis 1,3-Dichloro-1-Propene													
trans 1,3-Dichloro-1-Propene													
1,1,2-Trichloroethane													
Dibromochloromethane													
1,3-Dichloropropane													
Dibromoethane													
Styrene													
Propylbenzene													
2-Chlorotoluene													
1,2,4-Trimethylbenzene													
4-Chlorotoluene													
tert-Butylbenzene													
1,3,5-Trimethylbenzene													
1-methylpropylbenzene													
o-Cymene													
1,4-Dichlorobenzene													
sec-Butylbenzene													
1,2-Dibromo-3-chloropropane													
Hexachlorobutadiene													
1,2,3-Trichlorobenzene													
1,2,4-Trichlorobenzene													
1,3-Dichlorobenzene													
1,2-Dichlorobenzene													
Vinyl Chloride													

ATKINS

Assessment Criteria :	Coastal and Estuarine EQS
CaCO (mg/l):	0.00
pH	0.00
Calcium (mg/l):	0.00
DOC (mg/l)	0.00
Catchment area:	Freshwater not listed

Constituents	Unit	Limit of Detection	Generic Assessment Criteria	Number of Samples	Minimum Value	Maximum Value	Number of Exceedences	Locations of Exceedences
Arsenic	mg/l	0	0.025	134	<0.005	0.077	3	GW8, 40821, Campaign 5; GW95, 40819, Campaign 5; GW9D, 40819, Campaign 5
Cadmium	mg/l	0	0.0002	134	<0.001	0.002	1	GN4, 40815, Campaign 5
Chromium	mg/l	0	0.0006	134	<0.005	<0.005	0	
Lead	mg/l	0	0.0013	134	0.001	0.001	0	
Nickel	mg/l	0	0.0086	134	0.001	0.011	4	GW2, 40682, Campaign 1; GW5 / PZ_19, 40786, Campaign 4; GW5 / PZ_19 DUP, 40786, Campaign 4; GW6D, 40815, Campaign 5
Copper	mg/l	0	0.00376	134	<0.005	0.008	4	PZ_16, 40687, Campaign 1; PZ_16, 40722, Campaign 2; PZ_16, 40722, Campaign 3; PZ_16, 40771, Campaign 4
Zinc	mg/l	0	0.0068	134	<0.005	0.143	70	GW1D, 40682, Campaign 1; GW2, 40682, Campaign 1; GW3, 40682, Campaign 1; PZ_6, 40683, Campaign 1; PZ_18, 40683, Campaign 1; PZ_14, 40683, Campaign 1; GW24S, 40682, Campaign 1; PZ_16, 40687, Campaign 1; PZ_19, 40687, Campaign 1; PZ_20, 40687, Campaign 1; PZ_21, 40687, Campaign 1; GW6D, 40721, Campaign 2; PZ_21, 40722, Campaign 2; PZ_16, 40722, Campaign 2; PZ_14, 40723, Campaign 2; PZ_20, 40723, Campaign 2; PZ_19, 40723, Campaign 2; PZ_6, 40724, Campaign 2; GW20, 40724, Campaign 2; GW21, 40724, Campaign 2; GW22, 40725, Campaign 2; GW23, 40725, Campaign 2; PZ_21, 40722, Campaign 3; PZ_16, 40722, Campaign 3; GW6D, 40721, Campaign 3; PZ_14, 40723, Campaign 3; PZ_20, 40723, Campaign 3; PZ_19, 40723, Campaign 3; PZ_6, 40724, Campaign 3; GW20, 40724, Campaign 3; GW21, 40724, Campaign 3; GW22, 40725, Campaign 3; GW23, 40725, Campaign 3; PZ_16, 40771, Campaign 4; GW19, 40772, Campaign 4; PZ_16 DUP, 40771, Campaign 4; PZ_6, 40785, Campaign 4; PZ_14, 40785, Campaign 4; GW5 / PZ_19, 40786, Campaign 4; GW5 / PZ_19 DUP, 40786, Campaign 4; GW6d, 40786, Campaign 4; GN4, 40815, Campaign 5; GN5, 40815, Campaign 5; GW20, 40821, Campaign 5; GW21, 40821, Campaign 5; GW22, 40821, Campaign 5; GW23, 40821, Campaign 5; GW23 DUP,
Mercury	mg/l	0	0.00007	134	0.0001	<0.001	5	PZ_19, 40687, Campaign 1; PZ_20, 40687, Campaign 1; GW19, 40772, Campaign 4; GW6D, 40815, Campaign 5; PZ_19, 40869, Campaign 7
Iron	mg/l	0	1	134	<0.01	54.37	12	PZ_6, 40683, Campaign 1; GW24S, 40682, Campaign 1; PZ_16, 40687, Campaign 1; PZ_16, 40722, Campaign 2; PZ_16, 40722, Campaign 3; GW8, 40821, Campaign 5; PZ_16, 40815, Campaign 5; GW12, 40819, Campaign 5; GW95, 40819, Campaign 5; GW9D, 40819, Campaign 5; Pz_6, 40819, Campaign 5; PZ_3, 40870, Campaign 7
Boron	mg/l	0	7	134	<0.005	0.667	0	
Calcium	mg/l		N/A	134	12.4	1297	0	
Magnesium	mg/l		N/A	134	2.3	987.8	0	
Potassium	mg/l		N/A	134	2.4	250.3	0	
Sodium	mg/l		N/A	134	15.4	8632	0	
pH Value	Units		No WSV	134	5.8	11.2	0	
Electrical Conductivity	μS/cm		No WSV	134	269	26100	0	
Sulphate	mg/l		N/A	134	<1	1197	0	
Chloride	mg/l		N/A	134	0.1	8504	0	
Nitrate	mg/l		N/A	134	1	214	0	
Free Cyanide	mg/l	0	0.001	134	0.005	0.01	4	GW20, 40724, Campaign 2; GW20, 40724, Campaign 3; GN4, 40815, Campaign 5; GN5, 40815, Campaign 5
Total Phenols	mg/l	0	No WSV	134	<0.0005	<0.005	0	
Ammonium as NH4	mg/l		Not appropriate, see Unionised Ammonia	134	<0.01	84.6	0	
BOD	mg/l		No WSV	134	<2	33	0	
COD	mg/l		No WSV	134	<2	120	0	
Alkalinity	mg/l CaCO3		No WSV	134	40	720	0	
Suspended Solids	mg/l		No WSV	134	2	1200	0	
Total Petroleum Hydrocarbons	mg/l	0	No WSV	134	<0.01	0.062	0	
PCB 28	mg/l	0	No WSV	134	<0.00001	<0.00001	0	
PCB 52	mg/l	0	No WSV	134	<0.00001	<0.00001	0	
PCB 101	mg/l	0	No WSV	134	<0.00001	<0.00001	0	
PCB 118	mg/l	0	No WSV	134	<0.00001	<0.00001	0	
PCB 138	mg/l	0	No WSV	134	<0.00001	<0.00001	0	
PCB 153	mg/l	0	No WSV	134	<0.00001	<0.00001	0	
PCB 180	mg/l	0	No WSV	134	<0.00001	<0.00001	0	
Total PCB	mg/l	0	No WSV	134	<0.00001	<0.00001	0	
Naphthalene	mg/l	0	0.002	134	<0.00001	0.00323	1	GW12, 40819, Campaign 5
Acenaphthylene	mg/l	0	N/A	134	0.00001	0.00012	0	
Acenaphthene	mg/l	0	N/A	134	0.00001	0.00021	0	
Fluorene	mg/l	0	N/A	134	<0.00001	0.00018	0	
Phenanthrene	mg/l	0	See BaP	134	<0.00001	0.00024	0	
Anthracene	mg/l	0	0.0001	134	0.00001	0.00003	0	
Fluoranthene	mg/l	0	0.0000063	134	<0.00001	<0.001	4	GW6D, 40721, Campaign 3; GW20, 40821, Campaign 5; GW6D, 40815, Campaign 5; GW19, 40816, Campaign 5
Pyrene	mg/l	0	N/A	134	<0.00001	0.00019	0	
Benz(a)anthracene	mg/l	0	No WSV	134	<0.00001	0.00012	0	
Chrysene	mg/l	0	See BaP	134	<0.00001	0.00012	0	
Benzo(b)fluoranthene	mg/l	0	0.000017	134	<0.00001	0.00013	1	GW6D, 40721, Campaign 3
Benzo(k)fluoranthene	mg/l	0	0.000017	134	<0.00001	0.00016	1	GW6D, 40721, Campaign 3
Benzo(a)pyrene	mg/l	0	0.00000017	134	<0.00001	0.00016	1	GW6D, 40721, Campaign 3
Indeno(123-cd)pyrene	mg/l	0	N/A	134	<0.00001	<0.00001	0	
Dibenz(ah)anthracene	mg/l	0	N/A	134	<0.00001	<0.00001	0	
Benzo(ghi)perylene	mg/l	0	0.00000082	134	<0.00001	<0.00001	0	
Total PAH	mg/l	0	No WSV	134	<0.00001	0.00377	0	
Benzene	mg/l	0	0.008	134	<0.001	<0.001	0	
Toluene	mg/l	0	0.074	134	<0.001	<0.001	0	
Ethylbenzene	mg/l	0	0.02	134	<0.001	<0.001	0	
m&p-Xylene	mg/l	0	No WSV	134	<0.001	<0.001	0	
o-Xylene	mg/l	0	0.03	134	<0.001	<0.001	0	
cis 1,2-Dichloroethene	mg/l	0	No WSV	134	<0.001	0.137	0	
1,1-Dichloroethane	mg/l	0	No WSV	134	<0.001	<0.001	0	
Chloroform	mg/l	0	See Trihalomethanes	134	0.001	0.001	0	
Carbontetrachloride	mg/l	0	No WSV	134	<0.001	<0.001	0	
1,1,1-Trichloroethane	mg/l	0	0.1	134	<0.001	0.003	0	
Trichloroethylene	mg/l	0	0.01	134	<0.001	<0.001	0	
Tetrachloroethylene	mg/l	0	0.01	134	<0.001	0.031	1	GW20, 40821, Campaign 5
1,1,1,2-Tetrachloroethane	mg/l	0	No WSV	134	<0.001	<0.001	0	
1,1,2,2-Tetrachloroethane	mg/l	0	No WSV	134	<0.001	<0.001	0	
Chlorobenzene	mg/l	0	No WSV	134	<0.001	<0.001	0	
Bromobenzene	mg/l	0	No WSV	134	<0.001	<0.001	0	
Bromodichloromethane	mg/l	0	N/A	134	<0.001	<0.001	0	
Methylethylbenzene	mg/l	0	No WSV	134	<0.001	<0.001	0	
1,1-Dichloro-1-Propene	mg/l	0	No WSV	134	<0.001	<0.001	0	
1,2-Dichloroethane	mg/l	0	0.01	134	<0.001	0.132	1	GW20, 40821, Campaign 5
2-2-Dichloropropane	mg/l	0	No WSV	134	<0.001	0.002	0	
Bromochloromethane	mg/l	0	No WSV	134	0.001	0.001	0	
trans 1,2-Dichloroethene	mg/l	0	No WSV	134	<0.001	<0.001	0	
Dibromomethane	mg/l	0	No WSV	134	<0.001	<0.001	0	
1,2-Dichloropropane	mg/l	0	N/A	134	<0.001	<0.001	0	
cis 1,3-Dichloro-1-Propene	mg/l	0	No WSV	134	<0.001	<0.001	0	
trans 1,3-Dichloro-1-Propene	mg/l	0	No WSV	134	<0.001	0.003	0	
1,1,2-Trichloroethane	mg/l	0	0.3	134	<0.001	<0.001	0	
Dibromochloromethane	mg/l	0	N/A	134	<0.001	<0.001	0	
1,3-Dichloropropane	mg/l	0	No WSV	134	<0.001	<0.001	0	
Dibromoethane	mg/l	0	No WSV	134	<0.001	<0.001	0	
Styrene	mg/l	0	0.05	134	<0.001	<0.001	0	
Propylbenzene	mg/l	0	No WSV	134	<0.001	<0.001	0	
2-Chlorotoluene	mg/l	0	No WSV	134	<0.001	<0.001	0	
1,2,4-Trimethylbenzene	mg/l	0	No WSV	134	<0.001	<0.001	0	
4-Chlorotoluene	mg/l	0	No WSV	134	<0.001	<0.001	0	
tert-Butylbenzene	mg/l	0	No WSV	134	0.001	0.001	0	
1,3,5-Trimethylbenzene	mg/l	0	No WSV	134	<0.001	<0.001	0	
1-methylpropylbenzene	mg/l	0	No WSV	134	<0.001	<0.001	0	
o-Cymene	mg/l	0	No WSV	134	<0.001	<0.001	0	
1,4-Dichlorobenzene	mg/l	0	No WSV	134	<0.001	<0.001	0	
sec-Butylbenzene	mg/l	0	No WSV	134	<0.001	<0.001	0	
1,2-Dibromo-3-chloropropane	mg/l	0	N/A	134	<0.001	<0.001	0	
Hexachlorobutadiene	mg/l	0	0.0006	134	<0.001	<0.001	0	
1,2,3-Trichlorobenzene	mg/l	0	No WSV	134	<0.001	<0.001	0	
1,2,4-Trichlorobenzene	mg/l	0	No WSV	134	<0.001	<0.001	0	
1,3-Dichlorobenzene	mg/l	0	No WSV	134	<0.001	<0.001	0	
1,2-Dichlorobenzene	mg/l	0	No WSV	134	<0.001	<0.001	0	
Vinyl Chloride	mg/l	0	N/A	134	<0.001	<0.001	0	

Location	PZ_3	PZ_5	PZ_6	PZ_7	PZ_10	PZ_11	PZ_12	PZ_14	PZ_15	PZ_16	PZ_18	PZ_19	PZ_21
Sample ID	40652	40653	40652	40652	40653	40652	40653	40652	40653	40652	40652	40651	40652
Depth	Campaign 0	Campaign 0	Campaign 0	Campaign 0	Campaign 0	Campaign 0	Campaign 0	Campaign 0	Campaign 0	Campaign 0	Campaign 0	Campaign 0	Campaign 0
Calcium	12.4	109	123.9	168.6	69.5	131	106.6	44.4	169.7	119.5	928.3	21.5	168.4
Magnesium	8.9	12.6	12.6	16	2.3	20.9	19	7	21.3	15.4	54.9	5.7	12.3
Potassium	222.7	14.9	8.8	8.2	51.5	13	10.2	8.8	16.3	9.9	11.7	9.3	8.3
Sodium	619.1	179.8	95.6	93	615.8	516.9	164.9	41.6	203.9	138	329.3	46.4	66.5
pH Value	10.7	7	7.3	7.3	11.2	7.9	7.5	7.8	7.5	7.5	7.1	6.8	7.2
Sulphate	33	6	24	7	36	45	85	54	8	38	40	20	29
Chloride	1117	324	210	316	1141	922	288	37	445	216	2022	54	230

Location	GW1D	GW2	GW3	PZ_6	PZ_18	PZ_14	GW24S	PZ_16	PZ_19	PZ_20	PZ_21	PZ_3	PZ_5	PZ_7	PZ_10	PZ_11	PZ_12	PZ_15
Sample ID	40682	40682	40682	40683	40683	40683	40682	40687	40687	40687	40687	40689	40689	40689	40689	40689	40689	40690
Depth	Campaign 1	Campaign 1	Campaign 1	Campaign 1	Campaign 1	Campaign 1	Campaign 1	Campaign 1	Campaign 1	Campaign 1	Campaign 1	Campaign 1	Campaign 1	Campaign 1	Campaign 1	Campaign 1	Campaign 1	Campaign 1
Arsenic	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.012	<0.005	<0.005	<0.005	<0.005							
Cadmium	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001							
Chromium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005							
Lead	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001							
Nickel	0.003	0.011	0.002	<0.001	0.003	<0.001	0.002	0.005	0.003	<0.001	0.005							
Copper	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.008	<0.005	<0.005	<0.005							
Zinc	0.05	0.045	0.02	0.014	0.06	0.012	0.021	0.061	0.029	0.029	0.037							
Mercury	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0002	0.0006	<0.0001							
Iron	<0.01	<0.01	<0.01	9.693	0.036	0.013	3.5	21.91	0.096	<0.01	<0.01							
Boron	0.403	<0.005	<0.005	0.027	<0.005	<0.005	0.102	0.417	<0.005	<0.005	<0.005							
Calcium	210.6	87.7	131.1	196.4	1079	53.8	166.2	1153	19.4	51.7	203.9	18	102.4	171.2	43.4	130.8	121.1	186.9
Magnesium	19.5	28.6	12.4	19.4	53.8	8	59.8	466.5	6.8	16.3	15	9.3	12.1	16.8	5.5	21.7	31.1	17.2
Potassium	7.4	4.5	3.7	8.9	7	4.2	15.9	36.5	2.7	4.3	5.6	203.5	12.1	5.8	44.7	9.9	10.6	6.7
Sodium	95.7	31	32.1	170.1	299.3	37.2	443.6	4703	47.9	23.2	66.9	629.5	167.2	90.3	571.5	492.7	232.1	208.6
pH Value	6.5	5.8	6.6	7.1	6.8	7.7	7.2	6.9	6.3	7.1	7.1	10.3	6.9	7.3	10.5	8	7.5	7.3
Electrical Conductivity	1384	692	928	1589	5370	490	2860	21600	290	481	1330							
Sulphate	114	94	103	8	34	56	<1	981	28	27	28	940	290	294	903	780	396	<5
Chloride	130	61	99	330	1351	42	764	8504	66	176	160	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Nitrate	75	176	154	<1	<1	33	<1	<1	67	55	67							
Free Cyanide	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005							
Total Phenols	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005							
Ammonium as NH4	<0.1	<0.1	<0.1	8.2	<0.1	<0.1	4.1	0.85	0.02	0.02	0.11							
BOD	<2	<2	<2	<2	<2	<2	<2	5	<2	<2	<2							
COD	<2	<2	<2	<2	<2	<2	<2	50	<2	<2	<2							
Alkalinity	510	60	180	380	230	200	270	290	80	280	180							
Suspended Solids	6	12	12	16	14	12	4	58	<5	<5	<5							
Total Petroleum Hydrocarbons	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01							
PCB 28	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001							
PCB 52	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001							
PCB 101	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001							
PCB 118	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001							
PCB 138	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001							
PCB 153	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001							
PCB 180	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001							
Total PCB	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001							

Location	GW6D	PZ_21	PZ_16	PZ_3	PZ_5	PZ_7	PZ_10	PZ_11	PZ_12	PZ_14	PZ_20	PZ_19	PZ_6	GW20	GW21	GW22	GW23	PZ_15
Sample ID	40721	40722	40722	40696	40696	40696	40696	40696	40696	40723	40723	40723	40724	40724	40724	40725	40725	40724
Depth	Campaign 2	Campaign 2	Campaign 2	Campaign 2	Campaign 2	Campaign 2	Campaign 2	Campaign 2	Campaign 2	Campaign 2	Campaign 2	Campaign 2	Campaign 2	Campaign 2	Campaign 2	Campaign 2	Campaign 2	Campaign 2
Arsenic	<0.005	<0.005	<0.005							<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Cadmium	<0.001	<0.001	<0.001							<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Chromium	<0.005	<0.005	<0.005							<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Lead	<0.001	<0.001	<0.001							<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Nickel	0.003	0.002	0.005							<0.001	0.003	0.004	<0.001	<0.001	0.003	0.002	0.001	
Copper	<0.005	<0.005	0.008							<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Zinc	0.143	0.045	0.099							0.017	0.065	0.055	0.014	0.013	0.076	0.022	0.015	
Mercury	<0.0001	<0.0001	<0.0001							<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
Iron	<0.01	<0.01	18.64							<0.01	<0.01	0.057	0.036	0.072	0.05	0.011	<0.01	
Boron	0.105	0.144	0.667							0.049	0.038	0.08	0.082	0.077	0.141	0.151	0.176	
Calcium	803.7	188.9	1297	187.8	122.8	161.5	47.3	129.8	505	43.2	43.4	14.6	155.7	108.5	62.9	84	111	195.9
Magnesium	44.5	14.9	533.8	37.6	49.5	15.8	4.4	18.1	987.8	7.5	14.2	5.1	15.8	18.3	7.3	5.9	6.6	17.4
Potassium	5.3	5.5	38.3	30.2	21.4	4.9	47.2	8.9	250.3	3.5	3.8	2.4	6.7	4.2	2.7	5.5	2.8	5.8
Sodium	232.1	66	5336	525.4	477.1	88.3	575.1	496.6	8632	32.5	17.9	30.3	141.8	24.6	23.6	16.2	20	211.9
pH Value	7.4	7.6	7	7.3	7.1	7.2	10.1	7.7	7.1	7.5	6.6	5.9	7.2	7.4	6.4	7	7.3	7.3
Electrical Conductivity	5190	1281	26100							424	490	269	1599	899	568	597	740	
Sulphate	51	32	1197	11	79	<5	32	64	180	57	20	21	9	49	47	35	100	5
Chloride	1381	203	1270	914	766	289	881	763	1345	36	56	31	315	72	42	36	48	500
Nitrate	<1	16	<1							29	127	69	<1	191	118	101	47	
Free Cyanide	<0.005	<0.005	<0.005							<0.005	<0.005	<0.005	<0.005	0.005	<0.005	<0.005	<0.005	
Total Phenols	<0.0005	<0.0005	<0.0005							<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
Ammonium as NH4	0.34	0.04	3.71							0.01	0.02	0.02	10.06	0.01	<0.01	<0.01	0.11	
BOD	<2	9	22							<2	<2	<2	<2	<2	<2	<2	<2	
COD	<2	<2	78							<2	<2	<2	<2	<2	<2	3	<2	
Alkalinity	230	390	360							130	120	70	350	240	60	120	190	
Suspended Solids	<5	64	16							20	10	56	66	102	198	68	58	
Total Petroleum Hydrocarbons	<0.01	<0.01	<0.01							<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
PCB 28	<0.00001	<0.00001	<0.00001							<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	
PCB 52	<0.00001	<0.00001	<0.00001							<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	
PCB 101	<0.00001	<0.00001	<0.00001							<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	
PCB 118	<0.00001	<0.00001	<0.00001							<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	
PCB 138	<0.00001	<0.00001	<0.00001							<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	
PCB 153	<0.00001	<0.00001	<0.00001							<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	
PCB 180	<0.00001	<0.00001	<0.00001							<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	
Total PCB	<0.00001	<0.00001	<0.00001							<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	

ATKINS

Assessment Criteria :	Coastal and Estuarine EQS		
CaCO (mg/l): 0.00	pH 0.00		
Calcium (mg/l): 0.00	DOC (mg/l) 0.00	Catchment area:	Freshwater not listed

Constituents	Unit	Limit of Detection	Generic Assessment Criteria	Number of Samples	Minimum Value	Maximum Value	Number of Exceedences	Locations of Exceedences
Arsenic	mg/l	0	0.025	134	<0.005	0.077	3	GW8, 40821, Campaign 5; GW95, 40819, Campaign 5; GW9D, 40819, Campaign 5
Cadmium	mg/l	0	0.0002	134	<0.001	0.002	1	GN4, 40815, Campaign 5
Chromium	mg/l	0	0.0006	134	<0.005	<0.005	0	
Lead	mg/l	0	0.0013	134	0.001	0.001	0	
Nickel	mg/l	0	0.0086	134	0.001	0.011	4	GW2, 40682, Campaign 1; GW5 / PZ_19, 40786, Campaign 4; GW5 / PZ_19 DUP, 40786, Campaign 4; GW6D, 40815, Campaign 5
Copper	mg/l	0	0.00376	134	<0.005	0.008	4	PZ_16, 40687, Campaign 1; PZ_16, 40722, Campaign 2; PZ_16, 40722, Campaign 3; PZ_16, 40771, Campaign 4
Zinc	mg/l	0	0.0068	134	<0.005	0.143	70	GW1D, 40682, Campaign 1; GW2, 40682, Campaign 1; GW3, 40682, Campaign 1; PZ_6, 40683, Campaign 1; PZ_18, 40683, Campaign 1; PZ_14, 40683, Campaign 1; GW24S, 40682, Campaign 1; PZ_16, 40687, Campaign 1; PZ_19, 40687, Campaign 1; PZ_20, 40687, Campaign 1; PZ_21, 40687, Campaign 1; GW6D, 40721, Campaign 2; PZ_21, 40722, Campaign 2; PZ_16, 40722, Campaign 2; PZ_14, 40723, Campaign 2; PZ_19, 40723, Campaign 2; PZ_20, 40723, Campaign 2; PZ_19, 40723, Campaign 2; PZ_6, 40724, Campaign 2; GW20, 40724, Campaign 2; GW21, 40724, Campaign 2; GW22, 40725, Campaign 2; GW23, 40725, Campaign 2; PZ_21, 40722, Campaign 3; PZ_16, 40722, Campaign 3; GW6D, 40721, Campaign 3; PZ_14, 40723, Campaign 3; PZ_20, 40723, Campaign 3; PZ_19, 40723, Campaign 3; PZ_6, 40724, Campaign 3; GW20, 40724, Campaign 3; GW21, 40724, Campaign 3; GW22, 40725, Campaign 3; GW23, 40725, Campaign 3; PZ_16, 40771, Campaign 4; GW19, 40772, Campaign 4; PZ_16 DUP, 40771, Campaign 4; PZ_6, 40785, Campaign 4; PZ_14, 40785, Campaign 4; GW5 / PZ_19, 40786, Campaign 4; GW5 / PZ_19 DUP, 40786, Campaign 4; GW6d, 40786, Campaign 4; GN4, 40815, Campaign 5; GN5, 40815, Campaign 5; GW20, 40821, Campaign 5; GW21, 40821, Campaign 5; GW22, 40821, Campaign 5; GW23, 40821, Campaign 5; GW23 DUP, 40821, Campaign 5; GW7, 40821, Campaign
Mercury	mg/l	0	0.00007	134	0.0001	<0.001	5	PZ_19, 40687, Campaign 1; PZ_20, 40687, Campaign 1; GW19, 40772, Campaign 4; GW6D, 40815, Campaign 5; PZ_19, 40869, Campaign 7
Iron	mg/l	0	1	134	<0.01	54.37	12	PZ_6, 40683, Campaign 1; GW24S, 40682, Campaign 1; PZ_16, 40687, Campaign 1; PZ_16, 40722, Campaign 2; PZ_16, 40722, Campaign 3; GW8, 40821, Campaign 5; PZ_16, 40815, Campaign 5; GW12, 40819, Campaign 5; GW95, 40819, Campaign 5; GW9D, 40819, Campaign 5; Pz_6, 40819, Campaign 5; PZ_3, 40870, Campaign 7
Boron	mg/l	0	7	134	<0.005	0.667	0	
Calcium	mg/l		N/A	134	12.4	1297	0	
Magnesium	mg/l		N/A	134	2.3	987.8	0	
Potassium	mg/l		N/A	134	2.4	250.3	0	
Sodium	mg/l		N/A	134	15.4	8632	0	
pH Value	Units		No WSV	134	5.8	11.2	0	
Electrical Conductivity	µS/cm		No WSV	134	269	26100	0	
Sulphate	mg/l		N/A	134	<1	1197	0	
Chloride	mg/l		N/A	134	0.1	8504	0	
Nitrate	mg/l		N/A	134	1	214	0	
Free Cyanide	mg/l	0	0.001	134	0.005	0.01	4	GW20, 40724, Campaign 2; GW20, 40724, Campaign 3; GN4, 40815, Campaign 5; GN5, 40815, Campaign 5
Total Phenols	mg/l	0	No WSV	134	<0.0005	<0.005	0	
Ammonium as NH4	mg/l		Not appropriate, see Unionised Ammonia	134	<0.01	84.6	0	
BOD	mg/l		No WSV	134	<2	33	0	
COD	mg/l		No WSV	134	<2	120	0	
Alkalinity	mg/l CaCO3		No WSV	134	40	720	0	
Suspended Solids	mg/l		No WSV	134	2	1200	0	
Total Petroleum Hydrocarbons	mg/l	0	No WSV	134	<0.01	0.062	0	
PCB 28	mg/l	0	No WSV	134	<0.00001	<0.00001	0	
PCB 52	mg/l	0	No WSV	134	<0.00001	<0.00001	0	
PCB 101	mg/l	0	No WSV	134	<0.00001	<0.00001	0	
PCB 118	mg/l	0	No WSV	134	<0.00001	<0.00001	0	
PCB 138	mg/l	0	No WSV	134	<0.00001	<0.00001	0	
PCB 153	mg/l	0	No WSV	134	<0.00001	<0.00001	0	
PCB 180	mg/l	0	No WSV	134	<0.00001	<0.00001	0	
Total PCB	mg/l	0	No WSV	134	<0.00001	<0.00001	0	
Naphthalene	mg/l	0	0.002	134	<0.00001	0.00323	1	GW12, 40819, Campaign 5
Acenaphthylene	mg/l	0	N/A	134	0.00001	0.00012	0	
Acenaphthene	mg/l	0	N/A	134	0.00001	0.00021	0	
Fluorene	mg/l	0	N/A	134	<0.00001	0.00018	0	
Phenanthrene	mg/l	0	See BaP	134	<0.00001	0.00024	0	
Anthracene	mg/l	0	0.0001	134	0.00001	0.00003	0	
Fluoranthene	mg/l	0	0.0000063	134	<0.00001	<0.001	4	GW6D, 40721, Campaign 3; GW20, 40821, Campaign 5; GW6D, 40815, Campaign 5; GW19, 40816, Campaign 5
Pyrene	mg/l	0	N/A	134	<0.00001	0.00019	0	
Benz(a)anthracene	mg/l	0	No WSV	134	<0.00001	0.00012	0	
Chrysene	mg/l	0	See BaP	134	<0.00001	0.00012	0	
Benzo(b)fluoranthene	mg/l	0	0.000017	134	<0.00001	0.00013	1	GW6D, 40721, Campaign 3
Benzo(k)fluoranthene	mg/l	0	0.000017	134	<0.00001	0.00016	1	GW6D, 40721, Campaign 3
Benzo(a)pyrene	mg/l	0	0.00000017	134	<0.00001	0.00016	1	GW6D, 40721, Campaign 3
Indeno(123-cd)pyrene	mg/l	0	N/A	134	<0.00001	<0.00001	0	
Dibenz(ah)anthracene	mg/l	0	N/A	134	<0.00001	<0.00001	0	
Benzo(ghi)perylene	mg/l	0	0.00000082	134	<0.00001	<0.00001	0	
Total PAH	mg/l	0	No WSV	134	<0.00001	0.00377	0	
Benzene	mg/l	0	0.008	134	<0.001	<0.001	0	
Toluene	mg/l	0	0.074	134	<0.001	<0.001	0	
Ethylbenzene	mg/l	0	0.02	134	<0.001	<0.001	0	
m&p-Xylene	mg/l	0	No WSV	134	<0.001	<0.001	0	
o-Xylene	mg/l	0	0.03	134	<0.001	<0.001	0	
cis 1,2-Dichloroethene	mg/l	0	No WSV	134	<0.001	0.137	0	
1,1-Dichloroethane	mg/l	0	No WSV	134	<0.001	<0.001	0	
Chloroform	mg/l	0	See Trihalomethanes	134	0.001	0.001	0	
Carbontetrachloride	mg/l	0	No WSV	134	<0.001	<0.001	0	
1,1,1-Trichloroethane	mg/l	0	0.1	134	<0.001	0.003	0	
Trichloroethylene	mg/l	0	0.01	134	<0.001	<0.001	0	
Tetrachloroethylene	mg/l	0	0.01	134	<0.001	0.031	1	GW20, 40821, Campaign 5
1,1,1,2-Tetrachloroethane	mg/l	0	No WSV	134	<0.001	<0.001	0	
1,1,2,2-Tetrachloroethane	mg/l	0	No WSV	134	<0.001	<0.001	0	
Chlorobenzene	mg/l	0	No WSV	134	<0.001	<0.001	0	
Bromobenzene	mg/l	0	No WSV	134	<0.001	<0.001	0	
Bromodichloromethane	mg/l	0	N/A	134	<0.001	<0.001	0	
Methylethylbenzene	mg/l	0	No WSV	134	<0.001	<0.001	0	
1,1-Dichloro-1-Propene	mg/l	0	No WSV	134	<0.001	<0.001	0	
1,2-Dichloroethane	mg/l	0	0.01	134	<0.001	0.132	1	GW20, 40821, Campaign 5
2-2-Dichloropropane	mg/l	0	No WSV	134	<0.001	0.002	0	
Bromochloromethane	mg/l	0	No WSV	134	0.001	0.001	0	
trans 1,2-Dichloroethene	mg/l	0	No WSV	134	<0.001	<0.001	0	
Dibromomethane	mg/l	0	No WSV	134	<0.001	<0.001	0	
1,2-Dichloropropane	mg/l	0	N/A	134	<0.001	<0.001	0	
cis 1,3-Dichloro-1-Propene	mg/l	0	No WSV	134	<0.001	<0.001	0	
trans 1,3-Dichloro-1-Propene	mg/l	0	No WSV	134	<0.001	0.003	0	
1,1,2-Trichloroethane	mg/l	0	0.3	134	<0.001	<0.001	0	
Dibromochloromethane	mg/l	0	N/A	134	<0.001	<0.001	0	
1,3-Dichloropropane	mg/l	0	No WSV	134	<0.001	<0.001	0	
Dibromoethane	mg/l	0	No WSV	134	<0.001	<0.001	0	
Styrene	mg/l	0	0.05	134	<0.001	<0.001	0	
Propylbenzene	mg/l	0	No WSV	134	<0.001	<0.001	0	
2-Chlorotoluene	mg/l	0	No WSV	134	<0.001	<0.001	0	
1,2,4-Trimethylbenzene	mg/l	0	No WSV	134	<0.001	<0.001	0	
4-Chlorotoluene	mg/l	0	No WSV	134	<0.001	<0.001	0	
tert-Butylbenzene	mg/l	0	No WSV	134	0.001	0.001	0	
1,3,5-Trimethylbenzene	mg/l	0	No WSV	134	<0.001	<0.001	0	
1-methylpropylbenzene	mg/l	0	No WSV	134	<0.001	<0.001	0	
o-Cymene	mg/l	0	No WSV	134	<0.001	<0.001	0	
1,4-Dichlorobenzene	mg/l	0	No WSV	134	<0.001	<0.001	0	
sec-Butylbenzene	mg/l	0	No WSV	134	<0.001	<0.001	0	
1,2-Dibromo-3-chloropropane	mg/l	0	N/A	134	<0.001	<0.001	0	
Hexachlorobutadiene	mg/l	0	0.0006	134	<0.001	<0.001	0	
1,2,3-Trichlorobenzene	mg/l	0	No WSV	134	<0.001	<0.001	0	
1,2,4-Trichlorobenzene	mg/l	0	No WSV	134	<0.001	<0.001	0	
1,3-Dichlorobenzene	mg/l	0	No WSV	134	<0.001	<0.001	0	
1,2-Dichlorobenzene	mg/l	0	No WSV	134	<0.001	<0.001	0	
Vinyl Chloride	mg/l	0	N/A	134	<0.001	<0.001	0	

Constituents	PZ_21 40722 Campaign 3	PZ_16 40722 Campaign 3	GW6D 40721 Campaign 3	PZ_14 40723 Campaign 3	PZ_20 40723 Campaign 3	PZ_19 40723 Campaign 3	PZ_6 40724 Campaign 3	GW20 40724 Campaign 3	GW21 40724 Campaign 3	GW22 40725 Campaign 3	GW23 40725 Campaign 3	PZ_15 40724 Campaign 3
Arsenic	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Cadmium	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Chromium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Lead	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Nickel	0.002	0.005	0.003	<0.001	0.003	0.004	<0.001	<0.001	0.003	0.002	0.001	
Copper	<0.005	0.008	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Zinc	0.045	0.099	0.143	0.017	0.065	0.055	0.014	0.013	0.076	0.022	0.015	
Mercury	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
Iron	<0.01	18.64	<0.01	<0.01	<0.01	0.057	0.036	0.072	0.05	0.011	<0.01	
Boron	0.144	0.667	0.105	0.049	0.038	0.08	0.082	0.077	0.141	0.151	0.176	
Calcium	188.9	1297	803.7	43.2	43.4	14.6	155.7	108.5	62.9	84	111	195.9
Magnesium	14.9	533.8	44.5	7.5	14.2	5.1	15.8	18.3	7.3	5.9	6.6	17.4
Potassium	5.5	38.3	5.3	3.5	3.8	2.4	6.7	4.2	2.7	5.5	2.8	5.8
Sodium	66	5336	232.1	32.5	17.9	30.3	141.8	24.6	23.6	16.2	20	211.9
pH Value	7.6	7	7.4	7.5	6.6	5.9	7.2	7.4	6.4	7	7.3	7.3
Electrical Conductivity	1281	26100	5190	424	490	269	1599	899	568	597	740	
Sulphate	32	1197	51	57	20	21	9	49	47	35	100	5
Chloride	203	1270	1381	36	56	31	315	72	42	36	48	500
Nitrate	16	<1	<1	29	127	69	<1	191	118	101	47	
Free Cyanide	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	<0.005	<0.005	<0.005	
Total Phenols	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
Ammonium as NH4	0.04	3.71	0.34	0.01	0.02	0.02	10.06	0.01	<0.01	<0.01	0.11	
BOD	9	22	<2	<2	<2	<2	<2	<2	<2	<2	<2	
COD	<2	78	<2	<2	<2	<2	<2	<2	<2	3	<2	
Alkalinity	390	360	230	130	120	70	350	240	60	120	190	
Suspended Solids	64	16	<5	20	10	56	66	102	198	68	58	
Total Petroleum Hydrocarbons	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
PCB 28	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	
PCB 52	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	
PCB 101	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	
PCB 118	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	
PCB 138	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	
PCB 153	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	
PCB 180	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	
Total PCB	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	
Naphthalene	<0.00001	<0.00001	0.00011	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	
Acenaphthylene	<0.00001	<0.00001	0.00003	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	
Acenaphthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	
Fluorene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	
Phenanthrene	<0.00001	<0.00001	0.00006	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	
Anthracene	<0.00001	<0.00001	0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	
Fluoranthene	<0.00001	<0.00001	0.00021	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	
Pyrene	<0.00001	<0.00001	0.00019	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	
Benz(a)anthracene	<0.00001	<0.00001	0.00012	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	
Chrysene	<0.00001	<0.00001	0.00012	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	
Benzo(b)fluoranthene	<0.00001	<0.00001	0.00013	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	
Benzo(k)fluoranthene	<0.00001	<0.00001	0.00016	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	
Benzo(a)pyrene	<0.00001	<0.00001	0.00016	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	
Indeno(123-cd)pyrene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	
Dibenz(ah)anthracene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	
Benzo(ghi)perylene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	
Total PAH	<0.00001	<0.00001	0.0013	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	
Benzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Toluene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Ethylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
m&p-Xylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
o-Xylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
cis 1,2-Dichloroethene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
1,1-Dichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Chloroform	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Carbontetrachloride	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
1,1,1-Trichloroethane	<0.001	<0.001	<0.001	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Trichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Tetrachloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
1,1,1,2-Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
1,1,2,2-Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Chlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Bromobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Bromodichloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Methylethylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
1,1-Dichloro-1-Propene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
1,2-Dichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
2-2-Dichloropropane	<0.001	<0.001	<0.001	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Bromochloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
trans 1,2-Dichloroethene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Dibromomethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
1,2-Dichloropropane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
cis 1,3-Dichloro-1-Propene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
trans 1,3-Dichloro-1-Propene	<0.001	<0.001	<0.001	0.003	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
1,1,2-Trichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Dibromochloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
1,3-Dichloropropane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Dibromoethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Styrene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Propylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
2-Chlorotoluene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
1,2,4-Trimethylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
4-Chlorotoluene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
tert-Butylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
1,3,5-Trimethylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
1-methylpropylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
o-Cymene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
1,4-Dichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
sec-Butylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
1,2-Dibromo-3-chloropropane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Hexachlorobutadiene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
1,2,3-Trichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
1,2,4-Trichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
1,3-Dichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
1,2-Dichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Vinyl Chloride	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	

Constituents	PZ_16 40771 Campaign 4	GW19 40772 Campaign 4	PZ_16 DUP 40771 Campaign 4	PZ_6 40785 Campaign 4	PZ_14 40785 Campaign 4	GW5 / PZ_19 40786 Campaign 4	GW5 / PZ_19 DUP 40786 Campaign 4	GW6d 40786 Campaign 4	PZ_7 40786 Campaign 4	PZ_11 40786 Campaign 4	PZ_3 40786 Campaign 4	PZ_5 40787 Campaign 4	PZ_10 40787 Campaign 4	PZ_12 40787 Campaign 4	PZ_15 40787 Campaign 4
Arsenic	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005							
Cadmium	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001							
Chromium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005							
Lead	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001							
Nickel	0.002	0.002	0.002	<0.001	<0.001	0.01	0.01	0.003							
Copper	0.007	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005							
Zinc	0.044	0.054	0.053	0.016	0.009	0.026	0.024	0.027							
Mercury	<0.0001	0.0002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001							
Iron	<0.01	<0.01	0.085	0.317	<0.01	0.072	0.068	0.11							
Boron	<0.005	<0.005	<0.005	<0.005	<0.005	0.016	<0.005	<0.005							
Calcium	1066	211.2	1035	221.8	76.5	15.8	13.7	917.7	186.5	125.6	76.6	244	37.1	52.2	207.3
Magnesium	295.9	16.2	264.8	18.7	6.5	5.9	5.9	48.7	14.7	17.3	34	27.6	5.3	10.4	19.8
Potassium	26.9	6.9	24.4	8.7	3.5	2.6	2.6	5.8	5.7	9.6	141.5	28.8	43.6	3.7	7.7
Sodium	3578	92.2	2954	159.9	26	27.2	27	270	87.8	510.8	688.4	369.9	540.2	72.6	232.4
pH Value	6.5	7.2	6.5	6.9	7.5	6	5.9	6.7	7.1	7.2	8.1	6.8	8.1	7.5	7.1
Electrical Conductivity	21300	1442	20200	1558	411	281	290	5380							
Sulphate	932	31	850	8	51	15	15	36	<5	30	<5	<5	29	59	<5
Chloride	6844	354	6599	321	28	24	24	1236	302	775	939	273	895	257	482
Nitrate	<1	24	<1	<1	27	74	74	70							
Free Cyanide	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005							
Total Phenols	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005							
Ammonium as NH4	1.22	0.32	1.19	6.97	0.16	0.03	0.03	0.21							
BOD				<2	<2	<2	<2	<2							
COD				<2	<2	<2	<2	<2							
Alkalinity				420	80	60	40	210							
Suspended Solids				122	8	24	40	1200							
Total Petroleum Hydrocarbons				<0.01	<0.01	0.062	0.029	0.03							
PCB 28				<0.00001	<0.00001	<0.00001	<0.00001	<0.00001							
PCB 52				<0.00001	<0.00001	<0.00001	<0.00001	<0.00001							
PCB 101				<0.00001	<0.00001	<0.00001	<0.00001	<0.00001							
PCB 118				<0.00001	<0.00001	<0.00001	<0.00001	<0.00001							
PCB 138				<0.00001	<0.00001	<0.00001	<0.00001	<0.00001							
PCB 153				<0.00001	<0.00001	<0.00001	<0.00001	<0.00001							
PCB 180				<0.00001	<0.00001	<0.00001	<0.00001	<0.00001							
Total PCB				<0.00001	<0.00001	<0.00001	<0.00001	<0.00001							
Naphthalene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001							
Acenaphthylene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001							
Acenaphthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001							
Fluorene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001							
Phenanthrene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001							
Anthracene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001							
Fluoranthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001							
Pyrene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001							
Benz(a)anthracene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001							
Chrysene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001							
Benzo(b)fluoranthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001							
Benzo(k)fluoranthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001							
Benzo(a)pyrene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001							
Indeno(123-cd)pyrene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001							
Dibenz(ah)anthracene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001							
Benzo(ghi)perylene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001							
Total PAH	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001							
Benzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001							
Toluene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001							
Ethylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001							
m&p-Xylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001							
o-Xylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001							
cis 1,2-Dichloroethene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001							
1,1-Dichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001							
Chloroform	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001							
Carbontetrachloride	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001							
1,1,1-Trichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001							
Trichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001							
Tetrachloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001							
1,1,1,2-Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001							
1,1,2,2-Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001							
Chlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001							
Bromobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001							
Bromodichloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001							
Methylethylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001							
1,1-Dichloro-1-Propene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001							
1,2-Dichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001							
2-2-Dichloropropane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001							
Bromochloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001							
trans 1,2-Dichloroethene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001							
Dibromomethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001							
1,2-Dichloropropane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001							
cis 1,3-Dichloro-1-Propene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001							
trans 1,3-Dichloro-1-Propene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001							
1,1,2-Trichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001							
Dibromochloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001							
1,3-Dichloropropane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001							
Dibromoethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001							
Styrene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001							
Propylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001							
2-Chlorotoluene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001							
1,2,4-Trimethylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001							
4-Chlorotoluene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001							
tert-Butylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001							
1,3,5-Trimethylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001							
1-methylpropylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001							
o-Cymene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001							
1,4-Dichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001							
sec-Butylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001							
1,2-Dibromo-3-chloropropane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001							
Hexachlorobutadiene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001							
1,2,3-Trichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001							
1,2,4-Trichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001							
1,3-Dichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001							
1,2-Dichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001							
Vinyl Chloride	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001							

Constituents	GN4 40815 Campaign 5	GN5 40815 Campaign 5	GW20 40821 Campaign 5	GW21 40821 Campaign 5	GW22 40821 Campaign 5	GW23 40821 Campaign 5	GW23 DUP 40821 Campaign 5	GW7 40821 Campaign 5	GW8 40821 Campaign 5	GW6D 40815 Campaign 5	GW19 40816 Campaign 5	PZ_14 40815 Campaign 5	PZ_16 40815 Campaign 5	PZ_15 40816 Campaign 5	GW12 40819 Campaign 5	GW95 40819 Campaign 5	GW9D 40819 Campaign 5	Pz_6 40819 Campaign 5	GW13 40819 Campaign 5
Arsenic	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.009	0.031	<0.005	<0.005	<0.005	<0.005		<0.005	0.077	0.03	<0.005	<0.005
Cadmium	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001
Chromium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005
Lead	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001
Nickel	0.004	0.004	<0.001	0.003	0.004	0.002	0.002	0.001	0.002	0.009	0.004	0.003	0.006		0.002	<0.001	<0.001	<0.001	0.002
Copper	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.055	0.031	0.01	0.028	0.03	0.013	0.011	0.007	0.013	0.093	0.045	0.033	0.083		0.036	0.031	0.012	<0.005	0.048
Mercury	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0008	<0.0001	<0.0001	<0.0001		<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Iron	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	2.339	0.113	<0.01	<0.01	10.8		25.6	54.37	34.13	9.101	0.034
Boron	<0.005	0.055	<0.005	0.021	0.039	0.035	0.023	0.084	0.616	0.015	0.049	0.03	0.106		0.046	0.274	0.55	0.059	0.036
Calcium	53.5	25.5	112.3	68.4	122.2	107.1	108.8	44.2	106.5	1158	218.8	48.5	1147		90	111	102.5	135.3	70.3
Magnesium	15.5	5.5	25.6	7.9	12.7	8.6	8.8	22.2	40.2	65.9	17	9.1	351.5	16.5	16.4	37.3	53.9	15.2	12
Potassium	4.3	2.4	6.7	3.2	5	3.2	3.2	7.3	44.9	9.3	8.5	4.6	31.8	6.9	11.5	25.7	30	7.1	6.4
Sodium	15.4	27.5	32	27.8	31	22.6	27.3	47.1	126.7	456.9	107.3	60.4	3221	214.9	83.5	231.3	377.9	132.7	66.6
pH Value	6.5	6.2	7.3	6.5	6.6	7.3	7.4	7.7	7.4	6.8	6.9	7.5	6.6	6.9	6.7	7	6.8	6.9	7.4
Electrical Conductivity	477	279	874	564	798	656	680	511	1280	7120	1493	444	18710		800	1800	2900	1300	500
Sulphate	18	18	52	49	90	107	107	20	13	66	29	57	855	7	<5	<5	<5	7	43
Chloride	51	27	71	45	57	50	50	35	118	2434	258	54	6382	488	136	298	618	329	86
Nitrate	137	74	214	122	173	59	60	<5	<5	<1	25	36	<1		<1	<1	1	<1	4
Free Cyanide	0.01	0.007	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005
Total Phenols	<0.0005	<0.0005	<0.0005	<0.005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Ammonium as NH4	0	0	0.03	9	0.02	0.06	0.03	0.04	4.24	0.03	0.02	0.07	0.05		4.24	5.29	3.18	2.12	0.32
BOD	<2	<2								<2	<2	<2	33		<2	<2	5	<2	<2
COD	<2	<2	<2	<2	<2	<2	<2	<2	21	<2	<2	<2	120		12	21	22	<2	9
Alkalinity	60	50	160	120	140	180	170	260	590	300	360	150	400		420	650	720	420	300
Suspended Solids	6	<5	36	36	6	14	8	2	14	134	22	2	152		42	42	60	22	6
Total Petroleum Hydrocarbons	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01	<0.01	<0.01
PCB 28	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
PCB 52	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
PCB 101	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
PCB 118	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
PCB 138	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
PCB 153	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
PCB 180	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Total PCB	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Naphthalene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.001	<0.00001	<0.00001	0.00005	<0.00001	<0.00001		0.00323	0.00099	0.00067	0.0006	0.00081
Acenaphthylene	<0.00001	<0.00001	0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001		0.00012	<0.00001	<0.00001	<0.00001	<0.00001
Acenaphthene	<0.00001	<0.00001	0.00017	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001		<0.00001	0.00002	0.00021	0.00001	0.00001
Fluorene	<0.00001	<0.00001	0.00018	0.00004	0.00002	0.00004	0.00004	0.00003	0.00003	0.00008	0.00009	<0.00001	<0.00001		0.00017	<0.00001	<0.00001	0.00013	0.00012
Phenanthrene	<0.00001	<0.00001	0.00022	0.00003	0.00002	0.00003	0.00003	<0.00001	<0.00001	0.00009	0.00014	<0.00001	<0.00001		0.00024	0.00015	0.00005	0.00013	0.00008
Anthracene	<0.00001	<0.00001	0.00003	0.00001	<0.00001	0.00002	<0.00001	<0.00001	<0.00001	0.00001	0.00001	<0.00001	<0.00001		0.00001	0.00001	0.00001	<0.00001	<0.00001
Fluoranthene	<0.00001	<0.00001	0.00008	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.001	0.00003	0.00004	<0.00001	<0.00001		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Pyrene	<0.00001	<0.00001	0.00007	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.00003	0.00004	<0.00001	<0.00001		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benz(a)anthracene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Chrysene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo(b)fluoranthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo(k)fluoranthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo(a)pyrene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Indeno(123-cd)pyrene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Dibenz(ah)anthracene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo(ghi)perylene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Total PAH	<0.00001	<0.00001	0.00076	0.00008	0.00004	0.00009	0.00007	0.00003	0.00003	0.00024	0.00037	<0.00001	<0.00001		0.00377	0.00117	0.00094	0.00087	0.00102
Benzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001
Toluene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001
Ethylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001
m&p-Xylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001
o-Xylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001
cis 1,2-Dichloroethene	<0.001	<0.001	0.137	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001
Chloroform	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001
Carbontetrachloride	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001
1,1,1-Trichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.003	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001
Trichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001
Tetrachloroethylene	<0.001	<0.001	0.031	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001
1,1,1,2-Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001
1,1,2,2-Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001
Chlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001
Bromobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001
Bromodichloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001
Methylethylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloro-1-Propene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichloroethane	<0.001	<0.001	0.132	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001
2-2-Dichloropropane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001
Bromochloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001
trans 1,2-Dichloroethene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001
Dibromomethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichloropropane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001
cis 1,3-Dichloro-1-Propene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001
trans 1,3-Dichloro-1-Propene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001
1,1,2-Trichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001
Dibromochloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001
1,3-Dichloropropane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001
Dibromoethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001
Styrene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001
Propylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001
2-Chlorotoluene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001
1,2,4-Trimethylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001
4-Chlorotoluene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001
tert-Butylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001
1,3,5-Trimethylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001
1-methylpropylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001
o-Cymene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001
1,4-Dichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001
sec-Butylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dibromo-3-chloropropane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001
Hexachlorobutadiene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001
1,2,3-Trichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001
1,2,4-Trichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001
1,3-Dichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001
Vinyl Chloride	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001

Constituents	Pz_3 40851 Campaign 6	Pz_7 40849 Campaign 6	Pz_18 40849 Campaign 6	Pz_10 40850 Campaign 6
Calcium	149.2	213	641.8	99.9
Magnesium	33.6	15.8	35.2	19.9
Potassium	96.4	5.3	7.9	30.7
Sodium	230.8	95.4	226.4	426.5
pH Value	7.3	7	6.8	7.3
Sulphate	8	15	19	6
Chloride	991	318	1453	836

Assessment Criteria :	Coastal and Estuarine EQS							
CaCO (mg/l):	0.00		pH	0.00				
Calcium (mg/l):	0.00		DOC (mg/l)	0.00		Catchment area:	Freshwater not listed	

Constituents	Unit	Limit of Detection	Generic Assessment Criteria	Number of Samples	Minimum Value	Maximum Value	Number of Exceedences	Locations of Exceedences
Arsenic	mg/l	0	0.025	134	<0.005	0.077	3	GW8, 40821, Campaign 5; GW95, 40819, Campaign 5; GW9D, 40819, Campaign 5
Cadmium	mg/l	0	0.0002	134	<0.001	0.002	1	GN4, 40815, Campaign 5
Chromium	mg/l	0	0.0006	134	<0.005	<0.005	0	
Lead	mg/l	0	0.0013	134	0.001	0.001	0	
Nickel	mg/l	0	0.0086	134	0.001	0.011	4	GW2, 40682, Campaign 1; GW5 / PZ_19, 40786, Campaign 4; GW5 / PZ_19 DUP, 40786, Campaign 4; GW6D, 40815, Campaign 5
Copper	mg/l	0	0.00376	134	<0.005	0.008	4	PZ_16, 40687, Campaign 1; PZ_16, 40722, Campaign 2; PZ_16, 40722, Campaign 3; PZ_16, 40771, Campaign 4
Zinc	mg/l	0	0.0068	134	<0.005	0.143	70	GW1D, 40682, Campaign 1; GW2, 40682, Campaign 1; GW3, 40682, Campaign 1; PZ_6, 40683, Campaign 1; PZ_18, 40683, Campaign 1; PZ_14, 40683, Campaign 1; GW24S, 40682, Campaign 1; PZ_16, 40687, Campaign 1; PZ_19, 40687, Campaign 1; PZ_20, 40687, Campaign 1; PZ_21, 40687, Campaign 1; GW6D, 40721, Campaign 2; PZ_21, 40722, Campaign 2; PZ_16, 40722, Campaign 2; PZ_14, 40723, Campaign 2; PZ_20, 40723, Campaign 2; PZ_19, 40723, Campaign 2; PZ_6, 40724, Campaign 2; GW20, 40724, Campaign 2; GW21, 40724, Campaign 2; GW22, 40725, Campaign 2; GW23, 40725, Campaign 2; PZ_21, 40722, Campaign 3; PZ_16, 40722, Campaign 3; GW6D, 40721, Campaign 3; PZ_14, 40723, Campaign 3; PZ_20, 40723, Campaign 3; PZ_19, 40723, Campaign 3; PZ_6, 40724, Campaign 3; GW20, 40724, Campaign 3; GW21, 40724, Campaign 3; GW22, 40725, Campaign 3; GW23, 40725, Campaign 3; PZ_16, 40771, Campaign 4; GW19, 40772, Campaign 4; PZ_16 DUP, 40771, Campaign 4; PZ_6, 40785, Campaign 4; PZ_14, 40785, Campaign 4; GW5 / PZ_19, 40786, Campaign 4; GW5 / PZ_19 DUP, 40786, Campaign 4; GW6d, 40786, Campaign 4; GN4, 40815, Campaign 5; GN5, 40815, Campaign 5; GW20, 40821, Campaign 5; GW21, 40821, Campaign 5; GW22, 40821, Campaign 5; GW23, 40821, Campaign 5; GW23 DUP, 40821, Campaign 5; GW7, 40821, Campaign
Mercury	mg/l	0	0.00007	134	0.0001	<0.001	5	PZ_19, 40687, Campaign 1; PZ_20, 40687, Campaign 1; GW19, 40772, Campaign 4; GW6D, 40815, Campaign 5; PZ_19, 40869, Campaign 7
Iron	mg/l	0	1	134	<0.01	54.37	12	PZ_6, 40683, Campaign 1; GW24S, 40682, Campaign 1; PZ_16, 40687, Campaign 1; PZ_16, 40722, Campaign 2; PZ_16, 40722, Campaign 3; GW8, 40821, Campaign 5; PZ_16, 40815, Campaign 5; GW12, 40819, Campaign 5; GW95, 40819, Campaign 5; GW9D, 40819, Campaign 5; Pz_6, 40819, Campaign 5; PZ_3, 40870, Campaign 7
Boron	mg/l	0	7	134	<0.005	0.667	0	
Calcium	mg/l		N/A	134	12.4	1297	0	
Magnesium	mg/l		N/A	134	2.3	987.8	0	
Potassium	mg/l		N/A	134	2.4	250.3	0	
Sodium	mg/l		N/A	134	15.4	8632	0	
pH Value	Units		No WSV	134	5.8	11.2	0	
Electrical Conductivity	µS/cm		No WSV	134	269	26100	0	
Sulphate	mg/l		N/A	134	<1	1197	0	
Chloride	mg/l		N/A	134	0.1	8504	0	
Nitrate	mg/l		N/A	134	1	214	0	
Free Cyanide	mg/l	0	0.001	134	0.005	0.01	4	GW20, 40724, Campaign 2; GW20, 40724, Campaign 3; GN4, 40815, Campaign 5; GN5, 40815, Campaign 5
Total Phenols	mg/l	0	No WSV	134	<0.0005	<0.005	0	
Ammonium as NH4	mg/l		Not appropriate, see Unionised Ammonia	134	<0.01	84.6	0	
BOD	mg/l		No WSV	134	<2	33	0	
COD	mg/l		No WSV	134	<2	120	0	
Alkalinity	mg/l CaCO3		No WSV	134	40	720	0	
Suspended Solids	mg/l		No WSV	134	2	1200	0	
Total Petroleum Hydrocarbons	mg/l	0	No WSV	134	<0.01	0.062	0	
PCB 28	mg/l	0	No WSV	134	<0.00001	<0.00001	0	
PCB 52	mg/l	0	No WSV	134	<0.00001	<0.00001	0	
PCB 101	mg/l	0	No WSV	134	<0.00001	<0.00001	0	
PCB 118	mg/l	0	No WSV	134	<0.00001	<0.00001	0	
PCB 138	mg/l	0	No WSV	134	<0.00001	<0.00001	0	
PCB 153	mg/l	0	No WSV	134	<0.00001	<0.00001	0	
PCB 180	mg/l	0	No WSV	134	<0.00001	<0.00001	0	
Total PCB	mg/l	0	No WSV	134	<0.00001	<0.00001	0	
Naphthalene	mg/l	0	0.002	134	<0.00001	0.00323	1	GW12, 40819, Campaign 5
Acenaphthylene	mg/l	0	N/A	134	0.00001	0.00012	0	
Acenaphthene	mg/l	0	N/A	134	0.00001	0.00021	0	
Fluorene	mg/l	0	N/A	134	<0.00001	0.00018	0	
Phenanthrene	mg/l	0	See BaP	134	<0.00001	0.00024	0	
Anthracene	mg/l	0	0.0001	134	0.00001	0.00003	0	
Fluoranthene	mg/l	0	0.0000063	134	<0.00001	<0.001	4	GW6D, 40721, Campaign 3; GW20, 40821, Campaign 5; GW6D, 40815, Campaign 5; GW19, 40816, Campaign 5
Pyrene	mg/l	0	N/A	134	<0.00001	0.00019	0	
Benz(a)anthracene	mg/l	0	No WSV	134	<0.00001	0.00012	0	
Chrysene	mg/l	0	See BaP	134	<0.00001	0.00012	0	
Benzo(b)fluoranthene	mg/l	0	0.000017	134	<0.00001	0.00013	1	GW6D, 40721, Campaign 3
Benzo(k)fluoranthene	mg/l	0	0.000017	134	<0.00001	0.00016	1	GW6D, 40721, Campaign 3
Benzo(a)pyrene	mg/l	0	0.00000017	134	<0.00001	0.00016	1	GW6D, 40721, Campaign 3
Indeno(123-cd)pyrene	mg/l	0	N/A	134	<0.00001	<0.00001	0	
Dibenz(ah)anthracene	mg/l	0	N/A	134	<0.00001	<0.00001	0	
Benzo(ghi)perylene	mg/l	0	0.00000082	134	<0.00001	<0.00001	0	
Total PAH	mg/l	0	No WSV	134	<0.00001	0.00377	0	
Benzene	mg/l	0	0.008	134	<0.001	<0.001	0	
Toluene	mg/l	0	0.074	134	<0.001	<0.001	0	
Ethylbenzene	mg/l	0	0.02	134	<0.001	<0.001	0	
m&p-Xylene	mg/l	0	No WSV	134	<0.001	<0.001	0	
o-Xylene	mg/l	0	0.03	134	<0.001	<0.001	0	
cis 1,2-Dichloroethene	mg/l	0	No WSV	134	<0.001	0.137	0	
1,1-Dichloroethane	mg/l	0	No WSV	134	<0.001	<0.001	0	
Chloroform	mg/l	0	See Trihalomethanes	134	0.001	0.001	0	
Carbontetrachloride	mg/l	0	No WSV	134	<0.001	<0.001	0	
1,1,1-Trichloroethane	mg/l	0	0.1	134	<0.001	0.003	0	
Trichloroethylene	mg/l	0	0.01	134	<0.001	<0.001	0	
Tetrachloroethylene	mg/l	0	0.01	134	<0.001	0.031	1	GW20, 40821, Campaign 5
1,1,1,2-Tetrachloroethane	mg/l	0	No WSV	134	<0.001	<0.001	0	
1,1,2,2-Tetrachloroethane	mg/l	0	No WSV	134	<0.001	<0.001	0	
Chlorobenzene	mg/l	0	No WSV	134	<0.001	<0.001	0	
Bromobenzene	mg/l	0	No WSV	134	<0.001	<0.001	0	
Bromodichloromethane	mg/l	0	N/A	134	<0.001	<0.001	0	
Methylethylbenzene	mg/l	0	No WSV	134	<0.001	<0.001	0	
1,1-Dichloro-1-Propene	mg/l	0	No WSV	134	<0.001	<0.001	0	
1,2-Dichloroethane	mg/l	0	0.01	134	<0.001	0.132	1	GW20, 40821, Campaign 5
2-2-Dichloropropane	mg/l	0	No WSV	134	<0.001	0.002	0	
Bromochloromethane	mg/l	0	No WSV	134	0.001	0.001	0	
trans 1,2-Dichloroethene	mg/l	0	No WSV	134	<0.001	<0.001	0	
Dibromomethane	mg/l	0	No WSV	134	<0.001	<0.001	0	
1,2-Dichloropropane	mg/l	0	N/A	134	<0.001	<0.001	0	
cis 1,3-Dichloro-1-Propene	mg/l	0	No WSV	134	<0.001	<0.001	0	
trans 1,3-Dichloro-1-Propene	mg/l	0	No WSV	134	<0.001	0.003	0	
1,1,2-Trichloroethane	mg/l	0	0.3	134	<0.001	<0.001	0	
Dibromochloromethane	mg/l	0	N/A	134	<0.001	<0.001	0	
1,3-Dichloropropane	mg/l	0	No WSV	134	<0.001	<0.001	0	
Dibromoethane	mg/l	0	No WSV	134	<0.001	<0.001	0	
Styrene	mg/l	0	0.05	134	<0.001	<0.001	0	
Propylbenzene	mg/l	0	No WSV	134	<0.001	<0.001	0	
2-Chlorotoluene	mg/l	0	No WSV	134	<0.001	<0.001	0	
1,2,4-Trimethylbenzene	mg/l	0	No WSV	134	<0.001	<0.001	0	
4-Chlorotoluene	mg/l	0	No WSV	134	<0.001	<0.001	0	
tert-Butylbenzene	mg/l	0	No WSV	134	0.001	0.001	0	
1,3,5-Trimethylbenzene	mg/l	0	No WSV	134	<0.001	<0.001	0	
1-methylpropylbenzene	mg/l	0	No WSV	134	<0.001	<0.001	0	
o-Cymene	mg/l	0	No WSV	134	<0.001	<0.001	0	
1,4-Dichlorobenzene	mg/l	0	No WSV	134	<0.001	<0.001	0	
sec-Butylbenzene	mg/l	0	No WSV	134	<0.001	<0.001	0	
1,2-Dibromo-3-chloropropane	mg/l	0	N/A	134	<0.001	<0.001	0	
Hexachlorobutadiene	mg/l	0	0.0006	134	<0.001	<0.001	0	
1,2,3-Trichlorobenzene	mg/l	0	No WSV	134	<0.001	<0.001	0	
1,2,4-Trichlorobenzene	mg/l	0	No WSV	134	<0.001	<0.001	0	
1,3-Dichlorobenzene	mg/l	0	No WSV	134	<0.001	<0.001	0	
1,2-Dichlorobenzene	mg/l	0	No WSV	134	<0.001	<0.001	0	
Vinyl Chloride	mg/l	0	N/A	134	<0.001	<0.001	0	

Constituents	Pz_12	Pz_14	Pz_16	Pz_19	Pz_21	Pz_11	Pz_5	Pz_6	Pz_15
	40850	40850	40850	40850	40850	40849	40851	40851	40851
	Campaign 6	Campaign 6	Campaign 6	Campaign 6	Campaign 6	Campaign 6	Campaign 6	Campaign 6	Campaign 6
Calcium	107.8	45.8	787.5	18.5	254.3	188.2	129	157.6	238.1
Magnesium	16.3	7	198.6	6.1	18.5	22	12.6	15.6	18.1
Potassium	6.2	3.8	19.4	2.9	8.5	12.7	15.9	7.7	8.1
Sodium	100.6	29.2	2452	29.5	98.3	405.9	188.9	127.2	250.5
pH Value	7.3	7.6	6.6	6.6	6.9	7.3	6.8	7	7
Sulphate	59	51	747	16	24	46	<5	<5	<5
Chloride	146	30	5683	25	228	838	275	239	494

Constituents	PZ_19	PZ_11	PZ_16	PZ_21	PZ_18	PZ_14	PZ_7	PZ_3	PZ_10	PZ_12	PZ_5	PZ_6	PZ_15
	40869	40869	40869	40869	40870	40870	40870	40870	40870	40870	40870	40871	40871
	Campaign 7	Campaign 7	Campaign 7	Campaign 7	Campaign 7	Campaign 7	Campaign 7	Campaign 7	Campaign 7	Campaign 7	Campaign 7	Campaign 7	Campaign 7
Arsenic	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Cadmium	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Lead	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Nickel	0.001	<0.001	0.003	0.005	0.002	<0.001	<0.001	0.004	0.006	<0.001	<0.001	<0.001	0.001
Copper	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.031	0.012	0.047	0.039	0.026	<0.005	0.037	0.08	0.02	0.01	0.009	0.02	0.01
Mercury	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Iron	<0.01	0.024	0.054	<0.01	<0.01	<0.01	<0.01	2.881	0.054	<0.01	0.011	0.019	<0.01
Boron	<0.005	0.158	0.075	0.066	<0.005	<0.005	<0.005	0.062	0.101	<0.005	0.058	0.007	0.049
Calcium	17.9	131.8	994.3	205.5	744.7	46.6	209.1	175.9	141.5	109.6	118.9	185.1	201.4
Magnesium	6.3	18.9	25.8	15.8	41.7	8.2	17.6	34	25.6	17.9	13.2	19.3	17.5
Potassium	3	10	24	6.8	6.1	4.6	5.8	59.8	31	6.7	14.9	7.6	7.5
Sodium	46.6	538.6	2345	98.6	232.5	52.9	117.1	588.8	480.8	119.4	195.4	185.5	236.6
pH Value	6.2	7.4	6.7	7.1	7.1	7.9	7.1	7.4	7.2	7.3	6.9	7.2	7.1
Electrical Conductivity	298	2990	18010	1456	4650	421	1524	3570	2940	1023	1413	1748	2010
Sulphate	24	49	85	31	50	60	16	10	10	64	7	36	7
Chloride	48	800	652	294	1269	53	353	936	790	169	291	427	508
Nitrate	67	<5	<5	22	<5	28	<5	<5	<5	<5	<5	<5	<5
Free Cyanide	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Phenols	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Ammonium as NH4	0.02	4.23	8.46	0.01	0.03	0.01	4.23	4.23	42.3	1.69	84.6	8.46	4.23
BOD	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
COD	<2	<2	<2	11	<2	<2	6	11	14	11	9	28	9
Alkalinity	120	390	340	390	240	150	320	350	360	320	420	340	370
Suspended Solids	18	16	82	16	32	4	6	24	18	6	12	10	10
Total Petroleum Hydrocarbons	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB 28	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
PCB 52	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
PCB 101	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
PCB 118	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
PCB 138	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
PCB 153	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
PCB 180	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Total PCB	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Naphthalene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Acenaphthylene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Acenaphthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Fluorene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Phenanthrene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Anthracene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Fluoranthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Pyrene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benz(a)anthracene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Chrysene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo(b)fluoranthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo(k)fluoranthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo(a)pyrene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Indeno(123-cd)pyrene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Dibenz(ah)anthracene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo(ghi)perylene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Total PAH	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Toluene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Ethylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
m&p-Xylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
o-Xylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
cis 1,2-Dichloroethene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloroform	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Carbontetrachloride	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,1-Trichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tetrachloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,1,2-Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,2,2-Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromodichloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Methylethylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloro-1-Propene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2-2-Dichloropropane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromochloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
trans 1,2-Dichloroethene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dibromomethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichloropropane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
cis 1,3-Dichloro-1-Propene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
trans 1,3-Dichloro-1-Propene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,2-Trichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dibromochloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,3-Dichloropropane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dibromoethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Styrene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Propylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2-Chlorotoluene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2,4-Trimethylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
4-Chlorotoluene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
tert-Butylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,3,5-Trimethylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1-methylpropylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
o-Cymene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,4-Dichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
sec-Butylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dibromo-3-chloropropane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Hexachlorobutadiene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2,3-Trichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2,4-Trichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,3-Dichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vinyl Chloride	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

Constituents	Pz_16	Pz_7	Pz_11	Pz_21	Pz_19	Pz_12	Pz_5	Pz_18	Pz_14	Pz_10	Pz_3	Pz_15	Pz_6
	41263	41263	41263	41263	41263	40898	40898	40898	40898	40898	40898	40899	40899
	Campaign 8	Campaign 8	Campaign 8	Campaign 8	Campaign 8	Campaign 8	Campaign 8	Campaign 8	Campaign 8	Campaign 8	Campaign 8	Campaign 8	Campaign 8
Calcium	905.9	200.9	159.8	200.3	21.8	109.7	123.5	1084	44.5	168.4	179.9	232.2	172.8
Magnesium	223.4	16.7	21	15.3	5.9	17.1	13.3	60.9	7.1	27.5	34.4	20	18.3
Potassium	22.2	5.4	12.3	6.9	3.4	6.7	15.8	7.9	4.2	30.3	68	9.1	8.4
Sodium	2141	97.7	631.7	82.9	32.2	98.3	187.1	363.9	30.2	470	607.5	256.9	164.8
pH Value	6.6	7.1	7.3	6.9	9.4	7.2	6.7	6.8	7.7	7	7.2	7	7.3
Sulphate	728	9	49	32	18	59	<5	41	48	<5	<5	<5	21
Chloride	5342	336	802	254	34	148	289	1584	30	772	945	500	373

Appendix K – EDF, May 2014. EPR UK, Sizewell C – Pre-existing Geotechnical Data Synthesis and Interpretative Report

Department/Service: **TEGG/Geology & Geotechnics** Date: *07/05/2014*

Author(s): S. DEPINOIS

Number of pages : 21 + 62 p. of Appendixes

Number of Appendixes : 5

TITLE:

EPR UK – SIZEWELL C – Pre-existing geotechnical data synthesis and Interpretative report (Step 1)

Reference	*Revision*	*Status*	*WBS or Internal Order*
E D T GG 120213 A		**-**	**E230/076871/ESZPSF**

UK Project Document Number **SZC-EDTGGX-AU-000-RET-000530**

DOCUMENT TYPE: TECHNICAL REPORT

KEY WORDS: EPR UK, SIZEWELL, GEOTECHNICS, ONSHORE

ASSOCIATED DOCUMENTS: **EDTGG110745, EDTGG130815**

Abstract:

In the context of EPR UK project on Sizewell C site, this Report reviews "historical" geotechnical site investigations previously undertaken from 1950's to 2010, before specific EPR site investigations. It lists the content of relevant pre-existing geotechnical reports, identifies geotechnical units' properties, and provides a first geotechnical model including physical and mechanical parameters.

Proposed parameters values are indicative, limited to feasibility studies, and should not be used as design values for detailed calculation purpose. This Report should be commonly used in conjunction with the synthesis of specific onshore investigations led in 2010-2011 for EPR UK project, as a way to control consistency of new acquired data.

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UK EPR – SIZEWELL C – Pre-existing geotechnical data synthesis and interpretative report (Step 1)

Scope : NUCL/REP/EPR/UKEPR/SZ0

Series : UK EPR *Plant : UK Sizewell* *Plant units : SZC*

Safety related document: Yes ☒ No ☐

Availability related document: Yes ☐ No ☒

HPIC Document[1]: Yes ☐ No ☒

Independant review requested[1]: Yes ☐ No ☒ By EDF: ☐ Outside EDF : ☐ Online : ☐ Off-line : ☐ In Progess : ☐ Carried Out : ☐

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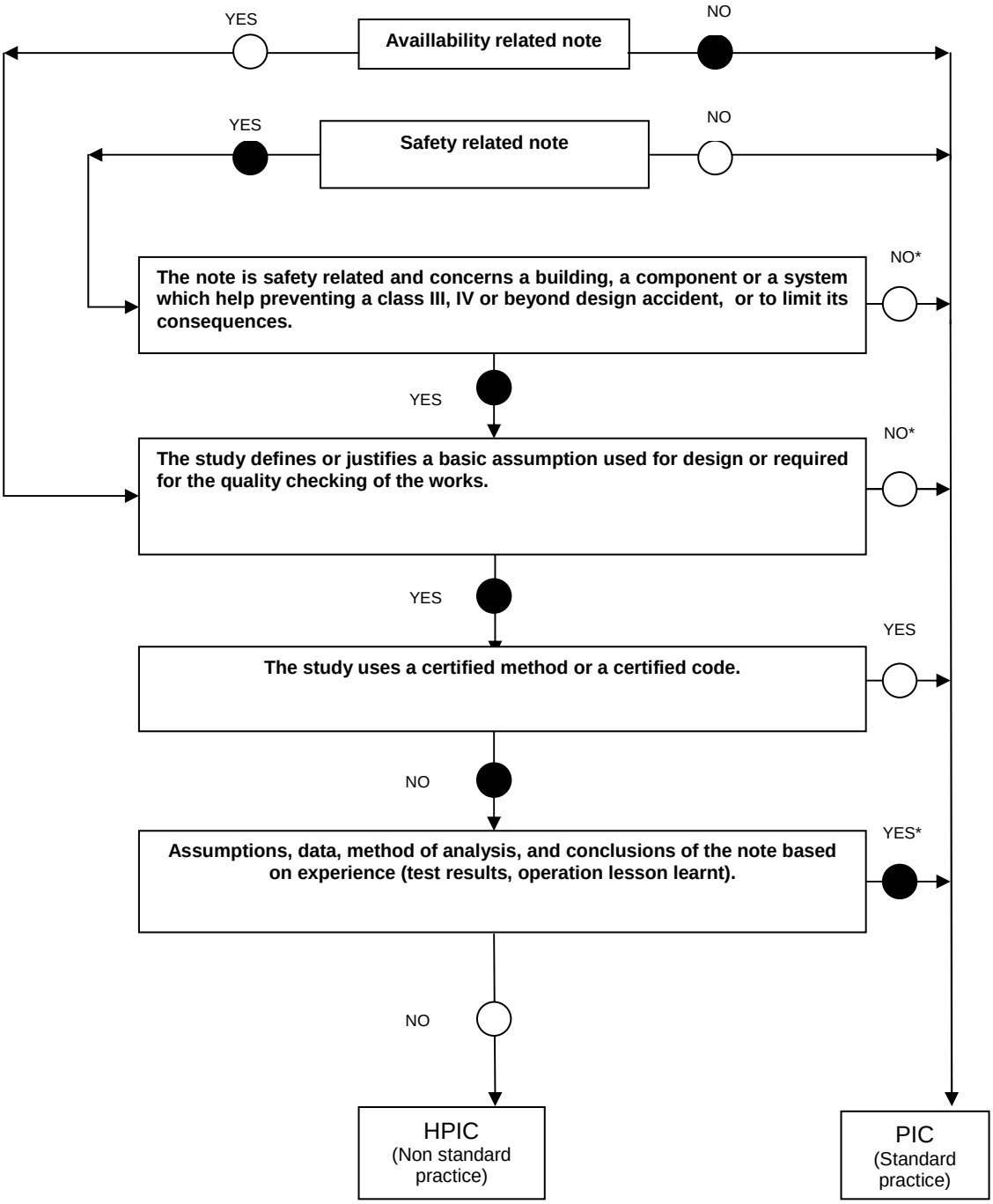
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Flowchart



JUSTIFICATION

The study relies on the experience of the Geology Department in the field of Geotechnical and Earth Sciences.

UPDATES RECORD

Rev.	Modifications
A	FIRST ISSUE

EXECUTIVE SUMMARY

In the context of EPR UK project, EDF is undertaking studies of constructing two EPR type units on Sizewell C site, in close proximity to the existing power generation site (Sizewell A & B).

Since 2010, EDF have conducted extensive site investigations onshore and offshore in order to characterize the ground for engineering and hydro-geological purposes and to provide geotechnical design parameters.

However, other ground investigations have also been conducted in the vicinity of the Sizewell UK EPR site, initially associated with the construction of Sizewell 'A' and 'B' power stations, and latterly in respect of plans for a Sizewell Point 'C' power station. Review of those “historical” site investigations (SI) is developed in this report, to be commonly used with specific EPR SI results, object of another specific Ceidre/TEGG synthesis.

The aim of this report is:

1. To list and detail the content of relevant pre-existing geotechnical reports.
2. To identify geotechnical layers with their depth and thickness.
3. To provide a first geotechnical model, including geotechnical parameters, derived from a thorough review of historical data. Correlations have been used to check the consistency of the various data.

This report does not provide any design basis or pre-application considerations.

Pre-existing data encompass the three nuclear sites at Sizewell: A (in decommissioning process), B (on-use facility) and C (EPR project), as they spread from 1958 to 2010. Analysed pre-existing geotechnical reports can be divided into Geotechnical Site Investigations (GSI) and Geotechnical Engineering Reports (GER).

Identified geotechnical units upon Sizewell C site are (with mean Reduced Level AOD of indicative top of layer):

- **Recent Deposits:** they consist in Made Ground (from reworked Crags and fills from Sizewell B construction), Beach deposits (sands and gravels close to eastern seashore), and soft organic mixed Peat & Clay deposits (randomly imbricated and often indistinct, with very low geotechnical characteristics).
- **Crag Deposits** (≈ -7/-10 mAOD): also called “Norwich Crag” or “Crag Sands”, these are the main “in place” geotechnical formation of the site, and will be the foundation layer of most of nuclear buildings.

  Crag Deposits can be divided into three sub-strata (Crag 1: loose to mid-dense yellowish brown fine sands - Crag 2: dense to very dense grey-brown fine to medium shelly sands – Crag 3: dense to very dense brownish clayey to shelly sands). This distinction can be based both on geotechnical tests criteria (in-situ and laboratory tests) and on geological description criteria.
- **London Clay** (≈ -47/-41 mAOD): this stratum is a overconsolidated and very stiff dark brown clay, with thickness varying between 13 and 15 m
- **Lower London Tertiaries** (≈ -60/-55 mAOD): This stratum can be divided into a 13 m thick upper layer of silty/sandy clay or clayey sands (called Woolwich & Reading Beds), and a lower part of 11 m thick homogeneous highly plastic clay (called Thanet Clay).
- **Chalk** (≈ -80/-77 mAOD): this layer is the geotechnical bedrock of the site, around 400 m thick.

Detailed analysis of geotechnical parameters data sources are developed in Appendixes of this Report. A synthesis of assessed parameters is given in the main text body of this Report, for each soil stratum on Sizewell C main site.

Given parameters values are only indicative, limited to feasibility design stage, and should not be used as characteristic design values for detailed calculation purpose (i.e. they are not “characteristic values” as defined in Eurocode 7 approach).

“Mean” or “representative” values are given in the main text body, but associated variation range for involved parameters are detailed in Appendixes.

This Report should be commonly used with specific onshore investigations synthesis, as a way to control consistency of recent result, derived from the specific geotechnical site investigations led in 2010-2011 for EPR UK project.

TABLE OF CONTENT

1 References 9
2 Introduction 9
3 Objectives of this report 9
4 Pre-existing dat consistency 10
5 Soil stratum and geotechnical model 12
5.1 Nature of geotechnical strata 12
5.2 Geometry of layers 14
5.3 Groundwater conditions 15
6 Assessed Geotechnical Parameters for soil strata 16
6.1 Recent deposits 16
6.1.1 Made Ground 16
6.1.2 Peat and Clay 16
6.2 Crag Sands 17
6.3 London clay 18
6.4 Lower London Tertiaries 19
6.5 Chalk 19
7 Synthesis on geotechnical parameters 20
8 Environmental impact 21
9 Conclusion and Limitation of the study 21

APPENDIX

Appendix A: List of available geotechnical site investigations (GSI) and geotechnical engineering reports (GER)
Appendix B: Review of previous site investigations (GSI)
Appendix C: Review of previous geotechnical engineering reports (GER)
Appendix D: Detailed analysis of geotechnical parameters
Appendix D.1. Average stratigraphy
Appendix D.2. State parameters
Appendix D.3. Identification parameters
Appendix D.4. In-situ SPT test results
Appendix D.5. Shear resistance parameters
Appendix D.6. Static deformation parameters
Appendix D.7. Dynamic parameters
Appendix D.8. Soils & water Chemical characteristics
Appendix E: Extracts of onshore site investigations location on Sizewell A, B and C sites

FIGURES

LIST OF FIGURES IN MAIN TEXT

(Pages of main text)

Figure 1: Indicative location of area covered by site investigations on Sizewell A, B and C 10

LIST OF FIGURES IN APPENDIXES

(Pages of Appendixes)

Figure E.1 : Location of A Site investigations from Soils Mechanics – 1960 [SIZ03]..... 60
Figure E.2 : Location of B Site investigations from Foundation Engineering Ltd – 1976 [SIZ07] 61
Figure E.3 : Location of C Site investigations from Soil Mechanics – 1995 [SIZ21] 62

TABLES

LIST OF TABLES IN MAIN TEXT

(Pages of main text)

Table 1 : Average position of soil layers on main site, from historical SI 14
Table 2: Synthesis of geotechnical parameters average values for site strata..... 20

LIST OF TABLES IN APPENDIXES

(Pages of Appendixes)

Table D.1 : Values for state parameters from Lab tests ([SIZ02], [SIZ07] and [SIZ10]) 23
Table D.2: Values for particle size distribution 28
Table D.3: Values for fine contents parameters 33
Table D.4: Values for relative density parameters ([SIZ07]) 33
Table D.5: Analysis made in [Ref.3] on assessment of undrained shear strength..... 45
Table D.6: Shear box test results on Crags – Effective strength ([SIZ02]) 46
Table D.7: Effective shear strength in Crags – Recommended values ([SIZ25])..... 46
Table D.8: Effective shear strength parameters in Tertiaries layers – Recommended design values ([SIZ25]) 46
Table D.9: Undrained shear strength in Tertiaries layers – Recommended values from [SIZ25]..... 47
Table D.10: Proposed values for static deformation parameters on Sizewell C, derived from [SIZ15] 49
Table D.11: Compressibility parameters in Peat & Clay, from analysis in [Ref.3]..... 50
Table D.12: Mean values for compressibility parameters in Peat & Clay (Ref.3]) 51
Table D.13: Synthesis of geotechnical dynamic parameters 57
Table D.14: Chemical tests results for Crag soils samples – Sizewell C ([SIZ25])..... 58
Table D.15: Chemical tests results for groundwater samples (Crag aquifer) – Sizewell C ([SIZ25])..... 58

1 REFERENCES

[Ref.1]. EDF/Ceidre/TEGG Technical Report EDTGG110745PREL: “UK EPR Sizewell - Preliminary On shore Investigations (phase 1) – Ground Investigation Report”.

[Ref.2]. EDF/Ceidre/TEGG Technical Report EDTGG130815A: “UK EPR Sizewell: Geological cross-sections”.

[Ref.3]. EDF/Ceidre/TEGG Technical Position EDTGG130633: “UK-EPR Sizewell – Sea Protection foundation : assessment of Peat and Clay behavior”

[Ref.4]. EDF/Ceidre/TEGG Technical Report EDTGG090074B “Ground data for a nuclear power plant serie on Penly, Hinkley Point and Sizewell sites” (*“Données de sol pour un palier couvrant les sites de Penly, Hinkley Point et Sizewell”).*

[Ref.5]. EDF/Ceidre/TEGG Technical Report EDTGG070370A: “Geological, Geotechnical and Seismic desk study for the Sizewell Site”.

2 INTRODUCTION

EDF is undertaking studies of constructing new Power Stations at Sizewell in close proximity to the existing power generation site (Sizewell A & B). The new stations will be EPR type (2 units).

The site for the proposed EPR development (the ‘Site’) is located on the east Suffolk coast adjacent to the existing Sizewell ‘A’ (currently in decommissioning process) and ‘B’ generating stations (currently in operation).

Since 2010, EDF have conducted extensive site investigations (SI) onshore and offshore in order to classify and model the ground for engineering and hydro-geological purposes and to provide geotechnical design parameters.

However, other ground investigations have also been previously conducted in the vicinity of the Sizewell UK EPR site; initially associated with the construction of Sizewell 'A' and 'B' power stations, and latterly in respect of plans for a Sizewell Point 'C' power station (PWR project, by British Energy, and not EPR).

The earliest investigations were Le Grand Sutcliffe and Gell Ltd in 1958 and the most recent investigations (excepted EDF-specified investigations) were Royal Haskonings/Structural Soils Limited in 2009.

Review of those “historical” site investigations is developed in this report, to be commonly used with specific EPR SI results (object of a specific synthesis in [Ref.1]).

3 OBJECTIVES OF THIS REPORT

This report is a review of the geotechnical data that are available from the onshore investigations undertaken during the period 1959 to 2009 (i.e. before EDF SI and studies for EPR plant) and which are relevant to characterize the proposed EPR Sizewell ‘C’ area.

Some of the pre-EDF geotechnical data are direct information, i.e. in the form of a factual report, and some are indirect, e.g. in the form of an interpretive engineering report.

The works to which this report relates comprise not only nuclear safety related structures of the main site (including reactor buildings, turbine halls, forebays, on shore part of tunnels, galleries and cooling water pumphouses) but other permanent and temporary buildings and roads including for temporary sewage works and contractor’s construction compound areas.

For the purposes of this report the term 'site' refers to the onshore area covered by the permanent and temporary structures for the Sizewell EPR (Sizewell C Site).

The aim of this note is to:

- List and detail the content of relevant pre-existing geotechnical reports (factual reports and engineering reports),

- Identify the geometry of geotechnical layers: this point will be briefly discussed, as it is mainly developed in specific EPR SI in [Ref.1] and [Ref.2].
- Provide a first geotechnical model with associated parameters values, based on thorough review of historical results and using usual correlations.

Note that directions – north, south etc - are given with respect to Ordnance Survey grid orientation and levels are related to Ordnance (Newlyn) Datum (OD) unless specified otherwise. Note that some previous reports refer to a local grid specific at Sizewell site to express investigations positions. If needed, conversion into Genera Grid would be necessary to such references.

4 PRE-EXISTING DAT CONSISTENCY

Pre-existing data encompass the three nuclear sites at Sizewell: A (on decommissioning process), B (on-use facility) and C (EPR project), as they spread from 1958 to 2010, depending of constructions projects that have been undertaken upon those sites. Location of area covered by these three sites ground investigation is shown on Figure 1.

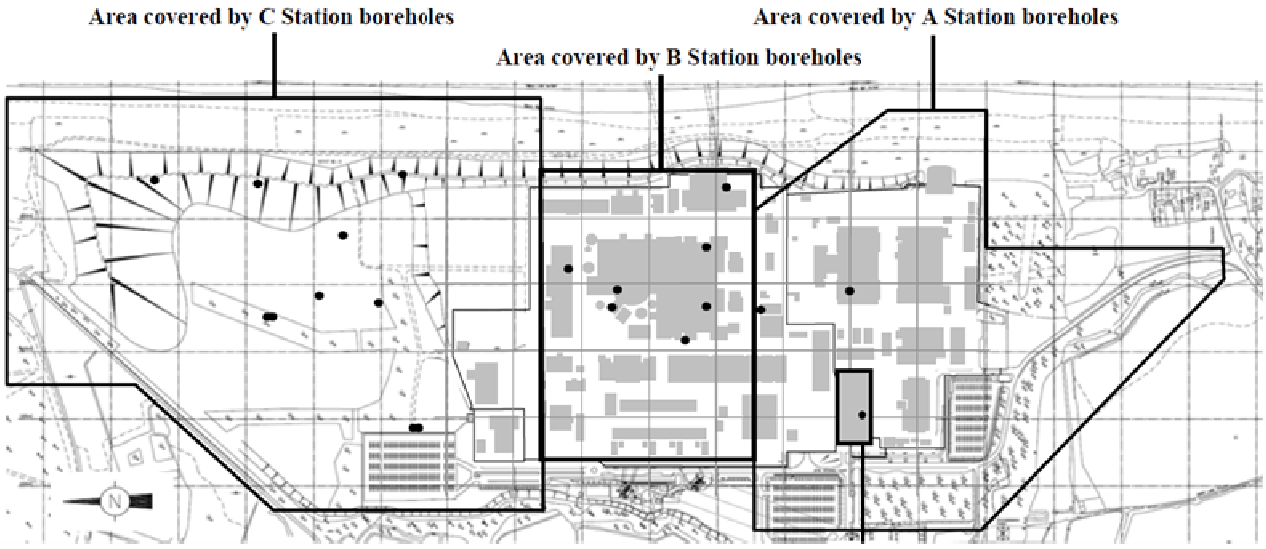


Figure 1: Indicative location of area covered by site investigations on Sizewell A, B and C ([SIZ25])

A synthetic table of analysed reports is given in Appendix A. Detailed review of available reports is then developed in Appendix B (Geotechnical Site Investigations, or GSI) and Appendix C (Geotechnical Engineering Reports, or GER).

A list of those reports is shown in the following. Note that each document has been specifically numbered for reference convenience among this report.

[SIZ01]. Sizewell A: Site Investigation at The Warren Sizewell - Le Grand Sutcliff and Geil Ltd, 1958 (GSI)

[SIZ02]. Sizewell C: Site Investigation at Sizewell - Le Grand ASCO Ltd, 1959 (GSI)

[SIZ03]. Sizewell A: Site investigation for water cooling intake and outfall conduits of the proposed nuclear power station at Sizewell - Soil Mechanics, 1960 (GSI)

[SIZ04]. Sizewell A: Sizewell Nuclear Power Station – Settlement of foundations, and Sizewell Power Station – Settlement of reactors - Taylor Woodrow Construction Limited, 1960 and 1968 (GER)

[SIZ05]. Sizewell B: Report on site investigation – Proposed Sizewell 'B' power station - Wimpey Laboratories Ltd., 1968 (GSI)

[SIZ06]. Sizewell B: Dewatering investigation - Soil Mechanics, 1976 (GSI)

[SIZ07]. Sizewell B: Onshore site investigation - Foundation Engineering Limited, 1976 (GSI)

[SIZ08]. Sizewell B: Contractor's plant area and access road – Site investigation - Central Electricity Generating Board (CEGB), 1976 (GSI)

[SIZ09]. Sizewell B: Deep Static Cone Penetration Test – Phase B - FUGRO LTD, 1981 (GSI)

[SIZ10]. Sizewell B: Site Investigation (1980) - Soil Mechanics and Wimpey laboratories Joint Venture, 1981 (GSI)

[SIZ11]. Sizewell B: Contractors Plant area and access road Site Investigation - CEGB, 1981 (GSI)

[SIZ12]. Sizewell B: Site investigation for access road – Soil Mechanics, 1983 (GSI)

[SIZ13]. Sizewell B: Seismic aspect of the Sizewell 'B' Site - CEGB, 1983 (GER)

[SIZ14]. Sizewell B: Station Design Document : Aseismic Design - NNC, 1983 (GER)

[SIZ15]. Sizewell B: Soil Parameters for static design of Sizewell 'B' Foundations - National Nuclear Corporation Limited (NNC), 1984 (GER)

[SIZ16]. Sizewell B: Assessment of Soil Parameters for Dynamic Sol Structure Interaction Analysis for Sizewell 'B' - Nuclear Design Associate, 1985 (GER)

[SIZ17]. Sizewell B: Site response to vertical ground motion - NNC, 1986 (GER)

[SIZ18]. Sizewell B: Supporting studies for Sizewell 'B' site seismic response analysis - NNC, 1986 (GER)

[SIZ19]. Sizewell C: Preapplication Studies – Studies of Peat Disposal & Fill provision - Sir Alexander Gibb & partners, 1989 (GER)

[SIZ20]. Sizewell C: Design of Diaphragm Wall & dewatering system - Sir Alexander Gibb & partners, 1990 (GER)

[SIZ21]. Sizewell C: Site investigation - Soil Mechanics, 1995 (GSI)

[SIZ22]. Sizewell C: Incorporation of common Diaphragm Wall between 'C' and "B' stations - Sir Alexander Gibb & partners, 1995 (GER)

[SIZ23]. Sizewell C: Geological and Hydrogeological Review – Royal Haskonings, 2008 (GER)

[SIZ24]. Sizewell C: Supplementary ground investigation at proposed nuclear development at Sizewell 'C' - Royal Haskonings/Structural Soils Limited, 2009 (GSI)

[SIZ25]. Sizewell B and C: Independent Spent Fuel Storage Installation (ISFSI) on Sizewell B power Station, Site Geotechnical Report – Sir Robert Mc Alpine Design Group, 09/04/2010 (GSI/GER)

[SIZ26]. Sizewell B: Technical note on Bechtel Generic Design PWR Foundations on the Sizewell site – C. Howden, K. Jeremicz, I.B. Hopkin, 1981 (GER)

Not all of those reports are relevant for geotechnical data analysis on Sizewell C site. Details are given in Appendixes about their content. Useful data are discussed in following sections of this note.

Note that reports dealing with Sizewell C site are in fact related to previous PWR project (mainly supported by British Energy), and not with EPR plants project supported by EDF.

Concerning factual reports, the most valuable documents on Sizewell C are Le Grand ASCO Ltd 1959 [SIZ02], Foundation Engineering Limited 1976 [SIZ07], Soil Mechanics and Wimpeys Laboratories 1981 [SIZ10], Soil Mechanics 1995 [SIZ21] and Royal Haskonings 2009 [SIZ24] (which doesn't mean that others reports are not useful).

Some Engineering Reports also show interest because of proposed geotechnical parameters values and construction considerations. The main ones are: NNC Ltd 1984 [SIZ15], NDA 1985 [SIZ16], Sir Alexander Gibbs & partners 1990 [SIZ20].

At last, [SIZ25] shows interest because it offers analysis of factual data on Sizewell C site in order to be compared with investigation made upon B site in 2010 for ISFSI project.

5 SOIL STRATUM AND GEOTECHNICAL MODEL

5.1 NATURE OF GEOTECHNICAL STRATA

On-desk analysis of geotechnical strata present on Sizewell C site has already been undertaken in [Ref.4] and [Ref.5]. Their conclusions are reminded here, improved by historical data review.

The site lies between +1.2 and +5 m Above OD (AOD), except upon coastal mound on East side of the site, reaching up to +6/+7 m AOD.

Sizewell C site shows a lower topography than A and B site, as it consists in an old marsh area, partially backfilled (during construction's stages of A and B facilities, from 60's to 90's).

Identified geotechnical strata are the following.

RECENT DEPOSITS (RD)

Those Recent Deposits, specific of C site and almost missing upon B and A sites, can be divided into very different sub-formations:

- ***Fills and Made-Ground (MG):***

  Mainly encountered in South part of the site, close to Sizewell B, they consist in excavated and replaced Norwich Crag (sand and sandy gravels), with construction debris (concrete, brick, plastic, and metallic and vegetal debris) : they are issued from Sizewell A and B construction.

- ***Beach deposits (RDb):***

  Identified on East side, close to the sea, they are composed of loose sands and gravels.

- ***Soft organic deposits (P&C):***

  They consist in soft to very soft organic clay and peat, sometimes with loose sand and gravel at base. Peat and clay are randomly imbricated, often indistinct. Those peat and clay have been deposited in an old channel eroded in the underlying Crags, leading to variable thickness of stratum up to 5 to 6 m.

Recent Deposits geometry is highly complicated and irregular: thickness and depth given later are average values, and must be considered with caution.

CRAG DEPOSITS

Those Crag Deposits or Crag Sands (also called Norwich Crag) are the main « in place » geotechnical formation on the site, and will form expected foundation level of nuclear buildings.

They broadly consist in fine to medium sand, which can be silty and/or shelly depending from depth, with weakly cemented beds and occasional thin lenses of clay. Actually, Crag Deposits can be divided into 3 sub-strata, depending of their facies and densities:

- ***Crag 1 (C1):***

  Loose to medium dense yellowish brown fine sand, contains some thin (centimetric) clayey beds.

- ***Crag 2 (C2):***

  Dense to very dense grey-brown fine to medium sand, shelly to very shelly (even with shell fragments up to few centimetres), with almost cemented layers.

- ***Crag 3 (C3):***

  Dense to very dense grey and brownish fine to medium shelly sand with layers of silt and clay, almost cemented with depth.

This 3-strata distinction of Crag Deposits is detailed in [Ref.1] and [Ref.2]. It must be noticed here that distinction of Crag Deposits in 3 sub-strata is not explicit in historical documents reviewed here: differences are made upon density and cemented-state basis, but not really on facies criteria (except in 1968 campaign - [SIZ05]). This involves very little confidence onto sub-strata interface levels which are given in the various documents. Better trust would be given to specific and recent SI results, developed in [Ref.1].

LONDON CLAY (LC)

This deep stratum consists in very stiff to hard dark grey-brown clay, overconsolidated. It is approximately 13 to 15 m thick, but its original thickness was considerably reduced by erosion prior to the deposit of the Crag material.

LOWER LONDON TERTIARIES (LLT)

Approximately 20-25 m thick, this formation is overconsolidated too and consists in a variable amount of very dense silty fine sand and very stiff sandy clay overlying very stiff dark grey silty clay. This layer can be divided into two main sub-stratum: the Woolwich & Reading Beds (clay and sand - W&Rb), and the Thanet Clay (moderately homogenous clay - TCl).

CHALK (CRETACEOUS) (CH)

With occasional flints, the chalk is likely to be around 400 m thick.

5.2 GEOMETRY OF LAYERS

Following Table 1 gives average depth and thickness of geotechnical layers underlying the Site. They are coming from proposed geotechnical site model in [SIZ25] on Sizewell C and B site. The average stratigraphy column is shown in Appendix D.1.

One should refer to detailed cross-section in [Ref.2] for precision on local variations and irregularities. Especially for Crags, document [Ref.2] bases distinction on facies on geological description criteria from core logging, which may differ from reliable geomechanical criteria (densities or SPT/CPT test results) used in Table 1.

Layer No.	Layer	Top of layer		Thickness (m)
		Depth below ground level (m)	Level AOD	
1	Made Ground	0	≈ +1.0 / +6 AOD	≈ 2 - 6m
2 *2a* *2b*	Soft Deposit[1] *Organic clay with peat* *Clayey Peat*	≈ 5 / 6m	≈ -3 / -1 AOD	≈ 4 – 7m *1 - 4m* *2 - 4m*
3	Crag deposits	≈ 10 / 11m	≈ - 10 / -7 AOD[2]	≈ 35 / 38m
3a	*Crag 1*	*≈ 10 / 11m*	*≈ - 10 / -7 AOD*	*≈ 5m*
3b	*Crag 2*	*≈ 15 / 16m*	*≈ -12 / - 13 AOD[3]*	*≈ 20m*
3c	*Crag 3*	*≈ 35m*	*≈ -30 to -35 AOD[4]*	*≈ 10 – 15m*
4	London clay (L.C.)	≈ 45 / 48m	≈ - 47 to -41 AOD	≈ 11 – 13m
5	Lower London Tertiaries (L.L.T.)	≈ 60m	≈ - 60 to - 55 AOD	≈ 20 - 25m for whole LLT *W&Rb: ≈ 12 - 14m* *TCl: ≈ 10 – 11m*
6	Chalk	≈ 80 / 85m	≈ - 85 to - 77 AOD	> 300 – 400m

Table 1 : Average position of soil layers on main site, from historical SI

[1] High and irregular imbrications of peat and clay: distinction of both facies is quite uneasy.
[2] Important variations may occur depending on topography and amount of Made Ground and Soft Deposits – see Appendix D.1, Graph D.1
[3] Based only on dry density and CPT's qc values – differences could be met after comparison with geological description criteria
[4] Average value roughly estimated from presence of deep cemented beds in boreholes below this level – great caution should be taken with this altimetric limit

5.3 GROUNDWATER CONDITIONS

The document [SIZ25] presents a good synthesis on groundwater conditions upon the whole Sizewell site. Its main conclusions are quoted here.

"The hydrogeology of the site is dominated by the aquifer of the Crag which is separated from the deep chalk aquifer by the London Clay, the Woolwich and Reading Beds and the Thanet Clay [...]."

"The Crag aquifer [for much of the region of the C Station site] is confined beneath recent peat and clay deposits. To the west of the C Station site, beneath the higher ground to the west of the Wetlands, the Crag aquifer is again unconfined [so as on B Station site]."

"[...] groundwater levels within the Crag deposits range mostly between +0.0 and +1.0 mAOD. Beneath the eastern part of the site close to the North Sea, piezometric elevations vary considerably due to tidal influence [...]. The tidal response within the Crag aquifer decreases from approximately 0.5 m within 100 m of the sea to zero 500 m inland".

It should be added that because of this tidal fluctuation, groundwater flow in Crag aquifer is assumed to be directed to the East (toward sea) under low tides, and to reverse to the West (toward inland) under high tides. Moreover, there is a lag of 2 hours between tidal level in the sea and groundwater fluctuation.

Also, analysis of pumping tests carried out on the site in the Crag aquifer indicates hydraulic conductivity in the order of 20m/day horizontally (2.10^{-4} m/s) and 2m/day vertically (2.10^{-5} m/s).

"Within the alluvial peat and clay on the C Station site, groundwater levels are generally higher than in the Crag, due probably to the presence of perched groundwater in the fill deposits overlying the [soft deposits]."

"Within the Chalk aquifer beneath the Thanet Clay of the Lower London Tertiaries, piezometric elevations are above +6.0 mAOD and are therefore artesian [...]."

Finally, few historical chemical analyses on groundwater are available. Results are listed in Appendix D.8.

6 ASSESSED GEOTECHNICAL PARAMETERS FOR SOIL STRATA

Detailed analysis of geotechnical parameters data sources is especially developed in Appendix D. Items that have been studied are reminded here:

- Appendix D.2: State parameters
- Appendix D.3: Identification parameters
- Appendix D.4: In-situ SPT test results
- Appendix D.5: Shear resistance parameters
- Appendix D.6: Static deformation parameters
- Appendix D.7: Dynamic parameters
- Appendix D.8: Soils & water Chemical characteristics

In following paragraphs, a synthesis of assessed parameters is given for each soil strata, and focused on Sizewell C main site, based on those detailed analysis.

6.1 RECENT DEPOSITS

6.1.1 Made Ground

There are no available data on geotechnical characteristics for Made Ground, except few particle size distribution tests that show great scatter of the grading curves, (which is not surprising as these are heterogeneous fills from Sizewell B construction).

For instance, D_{max} ranges from 10 to 60 mm (and probably more for granular materials that cannot be sampled), with a median D_{50} of 1 mm, ranging from 0.25 mm to 10 mm.

6.1.2 Peat and Clay

Because of the high imbrications of peat facies with the clayey one, it is not always possible to distribute parameters values into two separated layers (Peat/Clay),

Nevertheless, while possible, identification parameters show that peaty layers exhibit a wider range of variation for weight and fine content than clay:

- For true Peat, natural moisture content w_{nat} is far more than 150-300 %, with a void ratio e from 160 % to 600 %. Consequently, associated bulk and dry weight density are very low (average value respectively of γ_h = 10.6 kN/m^3 and γ_d = 2.9 kN/m^3), with an average specific grain weight density γ_s of 12.4 kN/m^3. Plasticity Index PI is also high (median value around 114 %), and varies from 42 to 262 %.
- For true Clay layers, identification parameters still show significant values, with average w_{nat} of 80 % (max value of 233 %!), and PI varying from 18 to 75 %. Such results tend to confirm the mixing of peaty lenses inside clayey layers, and vice versa.

This Peat and Clay layer is known to be very compressible, especially for area having experienced only a low thickness of filling with Made Ground, during and after Sizewell B construction (i.e. majority of the main site surface). Only Peat & Clay under the existing mound on shore-side could show slightly improved characteristics, due to the beneficial effect of the superficial loading.

For this compressible layer, assessed average undrained shear strength and compressibility parameters are as following:

- Under the sea mound: undrained shear strength c_u from 35 to 100 kPa (upon the whole homogeneous thickness of peat and clay, with no distinction between both facies), and oedometric modulus from 0.8-1.1 MPa in Peat and 1.5-2.5 MPa in Clay.
- For rest of the Site: cu varies from 20 to 90 kPa, while oedometric modulus ranges from 0.3-0.4 MPa (in Peat) to 0.7-1.2 MPa (for Clay).

As this very poor quality layer is due to be fully excavated before construction of the two EPR units, it has not been studied in further details.

6.2 CRAG SANDS

Crag sands show slightly different geotechnical parameters values with depth, leading to the fact that they can be separated in three sub-strata. This is especially highlighted by their mechanical behaviour (in terms of shear resistance and deformations), far less by their identification parameters.

Bulk and dry weight densities for Crags are mainly issued from geophysical borehole loggings, also compared to samples laboratory tests:

- In Crag 1 and 2 (i.e. above -30 mAOD): bulk weight density γ_h varies from 16.5 kN/m^3 to 23.3 kN/m^3 (mean value 19.6 kN/m^3 for Crag 1, 19.9 kN/m^3 for Crag 2), while dry weight density γ_d ranges from 14.1 to 17.4 kN/m^3 (mean value of 16.4 kN/m^3 for Crag 1, 16.6 kN/m^3 for Crag 2).
- In Crag 3 (below -30 mAOD): γ_h is slightly upper, with mean value 20.6 kN/m^3, and γ_d is 17.2 kN/m^3.

Considering particle size distribution, there is a good consistency all along the whole Crags stratum, even below -30 mAOD, with coefficient of uniformity CU ranging from 1.8 to 6.0 for most part. The average values are characteristic of a even graded material: D_{max} = 5 mm, D50 = 0.35 mm, D10 = 0.12 mm (all average values).

It must be noticed that in fact an important part of this granular distribution may be formed of shells, that could be confounded with coarse sand grains: for instance, shell content (in percentage of dry weight) can reach more than 30 % for some layers, with average value of 10 to 15 % (above -20 mAOD).

Some fine layers of clayey sands can be found in Crags, which also explain dispersion of some laboratory test results.

On mechanical point of view, there is an obvious positive evolution with increasing depth.

- Concerning SPT tests: mean values for N are quite low from top of Crags to -12/-13 mAOD, close to N = 5 to 30, even if great dispersion can be noticed (max values more than 50 to 80 blows). There is a linear progression with depth, since values are always upper than 20 between -13 and -17/-18 mAOD, and more than 30 blows below this last level. SPT results are then widely scattered from N = 30 to more than 100/150. These are representative of very dense sands.
- From CPT test: mean values of cone tip resistance are:
  - Above -10 mAOD: $q_c \approx$ 10 MPa in Crags
  - Between -10 to -12/-13 mAOD: $q_c \approx$ 20 MPa
  - Between -12/-13 to -20 mAOD: $q_c \approx$ 35 to 40 MPa
  - Between -20 to -30 mAOD: $q_c \approx$ 45 MPa and more
  - Below -30 mAOD: more than 60 MPa (or refusals)

Shear strength of Crags is expressed in terms of effective strength, as the mass behaviour of the whole stratum (even in case of distinction between sub-layers of Crags 1, 2 or 3) is driven by drained properties, with no influence at such scale of thin layer of clayed sands. For Crags above -10 mAOD, best estimate value for effective friction angle φ' is 37° (with lower and upper bounds of 33°-42°), while it reaches 40° for layers under this level (then with lower bound of 35° and upper bound of 45°). Of course, effective co hesion is considered to be null at whole layer scale.

On static deformations point of view, deformation moduli have been assessed with consideration on the effect of stress level under Nuclear Island. Distinction between first loading and unloading/reloading moduli has also been made.

For Crag sands, static deformation moduli (E_∞) are assessed on 10 m thick layers. They spread from 205 MPa for sands between -10 to -20 mAOD, to 640 MPa between -30 to -40 mAOD. It should be noticed than the base of Crag 3 (roughly between -40 and -45 mAOD) shows a slightly lower value for E_∞, with 510 MPa.

Associated Poisson ratio is 0.3 for static deformations along whole Crags.

So as static parameters, dynamic deformations parameters have been assessed. Since description of these parameters involves definition of lower and upper bounds for sensibility analysis, they won't be described in this main part of this report. The reader is suggested to refer to Appendix D.7 for detailed analysis (with low strain modulus best estimate and lower/upper bound values, and curves for shear modulus/damping ratio variations with shear stress).

Only mean shear waves velocities are reminded below:

- Above -10 mAOD: Vs ≈ 275 m/s
- Between -10 to -20 mAOD: Vs ≈ 375 m/s
- Between -20 to -30 mAOD: Vs ≈ 475 m/s
- Between -30 to -40 mAOD: Vs ≈ 625 m/s
- Below -40 mAOD: Vs ≈ 550 m/s

It should also be noticed that effect of shear strain on shear modulus variation is quite low for Crags, as ratio between G_d and G_{max} is expected to range from 0.8 to 0.95 below -10 mAOD.

6.3 LONDON CLAY

Laboratory results show that London Clay is a quite highly plastic clay (PI ranging from 31 to 57%, mean value of 42%, and w_L from 53% to 100%, with average of 72%), with important natural moisture content (roughly w_{nat} = 30 to 50 %) and associated void ratio (mean at e = 93 %).

Mean bulk and dry weight density of stratum are (respectively) close to 19.1 kN/m^3 and 14.2 kN/m^3.

Shear resistance of London Clay is driven by undrained cohesion c_u. This undrained shear resistance exhibits a quite wide scattering along the stratum thickness: from 60 kPa (from supposed failed lab tests) to more than 600 kPa (self-boring pressuremeter tests). Mean value would rather be closer to 300 to 400 kPa.

For static deformations considerations, long term deformation modulus E_∞ for London Clay has been assessed to 65 MPa. As consolidation phenomenon must be taken into account for this very low permeability stratum, assessment of oedometric modulus has been made, that lead to an equivalent value of E_{oed} = 66 MPa. But adaptation of this oedometric parameter should be done, depending on the real level of stress applied to the stratum during and after construction of the two EPR Units:

- First, "historical" oedometric assessments are based on few oedometric tests, for which doubts exist on their reliability.
- Then, those assessments were made for former PWR project, and not for current EPR plants. It means that the stress level would not be totally the same between those different plant types. As oedometric modulus depends on this stress state, above value should be re-assessed on new basis.
- Finally, because of the overconsolidated state of the London Clay, the real stress path followed by the layer under the EPR loading should be correctly assessed, and the single oedometric modulus would not be the only parameter to take into account.

For London Clay, small strain shear modulus is assessed to be G_{max} = 205 MPa and average shear waves velocity is 325 m/s.

6.4 LOWER LONDON TERTIARIES

Laboratory test results highlight the distinction between the two sub-strata that are Woolwich & Reading Beds and Thanet Clay:

- For W&R Beds, grain-size distribution exhibits clayey sands (with $D_{50} \approx 0.15$ mm and passing percentage at 2 µm less than 10 %) and slightly sandy clay (D_{50} less than 0.05 mm, with more than 20 % passing at 2 µm). Depending on the sand rate, plasticity index PI varies from 19 % to 58 % for most clayey beds, with mean value around 35 %: these are similar as measured values for PI in London Clay.
- For Thanet Clay, plasticity index PI show very high values, roughly ranging from 100 % to more than 130 %, which is representative of a very plastic clay, far more than London Clay.

Differences can also be seen from bulk and dry weight densities, which average values are (respectively):

- 20.6 kN/m^3 and 16.5 kN/m^3 in W&R beds;
- 18.9 kN/m^3 and 13.7 kN/m^3 in Thanet clay, associated with very high void ratio (e ranging from 89 % to 122 %).

Drained shear strength in London Tertiaries still exhibits differences for each sub-strata, while undrained shear resistance are rather slightly close for both sub-strata

- For W&R Beds: $c' \approx 75$ kPa and $\varphi' = 27°$, while $c_u \approx 300$ to 350 kPa
- For Thanet Clay: $c' \approx 150$ kPa and $\varphi' = 22°$, while $c_u \approx 300$ to 450 kPa

These shear resistance parameters have few chances to be use for project purpose, because of the depth of the layer (around 50 m beneath the NI raft).

But this is not true for deformation parameters. For static deformations parameters, long term moduli have been derived from undrained moduli:

- For W&R Beds: long term modulus E_∞ has been assessed to 100 MPa.
- For Thanet Clay: long term modulus has been assessed to 75 MPa.

It is reminded that Lower London Tertiaries geotechnical units are known to be widely overconsolidated.

Distinction can also be made between the W&R beds and Thanet Clay for dynamic parameters:

- For Woolwich & Reading Beds: mean $G_{max} = 335$ MPa; $Vs \approx 400$ m/s.
- For Thanet Clay: mean $G_{max} = 270$ MPa; $Vs \approx 375$ m/s.

6.5 CHALK

In Chalk, assessed value for long term modulus E_∞ is 3000 MPa, while low strain shear modulus G_{max} is 2000 MPa, and Vs is 1000 m/s. In fact, greater velocity has been measured below top of Chalk, but proposed values are strong enough to consider this layer as the bedrock on main site, in terms of static and seismic deformations.

Assumed bulk weight density for Chalk is 19.6 KN/m3.

7 SYNTHESIS ON GEOTECHNICAL PARAMETERS

A summary of previous sections is given in Table 2, for main geotechnical parameters on each stratum.

Strata	Bulk weight density (kN/m3)	Dry weight density (kN/m3)	N SPT	qc (MPa)	Undrained shear strength cu (kPa)	Effective shear resistance parameters (φ' °; c' kPa)	Long terme static modulus E_∞ (MPa)	ν_∞	Vs (m/s)
Peat & Clay	P: 10,6 C: 14,4	P: 2,9 C: 7,9	-	0,4 to 1,0 MPa	20 to 90 kPa (consolidated layers: 35 to 100 kPa)	-			
Crag deposits									
> -10 AOD	19,6	16,4	5 to 30	10 MPa	-	33° to 40° ; c' = 0	129	0,3	275
-10 et -20 AOD	19,9	16,6	20 to 100	20 to 40 MPa		35° to 45° ; c' = 0	206	0,3	375
-20 to -30 AOD	20,6	17,2	> 30 (30 to 150)	> 45 MPa			386	0,3	475
-30 to -40 AOD	20,6	17,2		> 60 MPa			643	0,3	625
-40 to -45 AOD	20,6	17,2					514	0,3	550
London clay	19,1	14,2	-	-	300 to 400 kPa	(25° ; 75 kPa)	64	0,3	325
LLT : W&R beds	20,6	16,5	-	-	300 to 350 kPa	(25° ; 75 kPa)	103	0,3	400
LLT : Thanet clay	18,9	13,7	-	-	300 to 450 kPa	(22° ; 150 kPa)	77	0,3	375
Chalk	19,6		-	-	-	-	3000	0,2	1000

Table 2: Synthesis of geotechnical parameters average values for site strata

Only "mean" or "representative" values are given here. Those parameters values above shouldn't be considered as characteristic design values, but only as indicative one's, limited to feasibility studies.

First it is reminded that each value is associated to a variation range that could be sometimes quite wide.

Then, the specific geotechnical site investigations conducted in 2010-2011 for EPR UK project will bring updated data to those presently analysed. These new SI, object of Ceidre/TEGG synthesis in [Ref.1], will:

1. Provide extensive data in the EPR development zone;
2. Confirm the geomechanical parameters values in the EPR specific case;
3. Provide more accurate data regarding the strata limits.

Moreover, as those new site investigations are directly defined, supervised and reviewed by EDF for the specific EPR project purpose, it is far easier to evaluate their reliability, compared to "historical" ones. Better trust is then given to data issued from these new SI.

8 ENVIRONMENTAL IMPACT

This report does not specify any product or method statement likely to have a significant impact on environment.

9 CONCLUSION AND LIMITATION OF THE STUDY

As developed in former paragraphs, this Technical Report is a review of pre-existing data source on onshore geotechnical items for Sizewell C site and so doesn't state design values for detailed calculation purpose.

This Report should be commonly used with specific onshore investigations synthesis ([Ref.1]), as a way to control consistency of most recent results.

Definition of top layers positions should also be taken as tentative ones: geological cross-sections defined by Ceidre/TEGG in Technical Report [Ref.1] and [Ref.2] must be considered far more reliable.

Finally, this report does not deal with:

- Offshore site investigation or offshore data analysis.
- Environmental aspects of subsoil.

APPENDIX

Appendix A: List of available geotechnical site investigations (GSI) and geotechnical engineering reports (GER) 2

Appendix B: Review of previous site investigations (GSI) 7

B.1. Details of site investigation 8
B.2. Site investigations description 8
B.2.1. Sizewell A 8
B.2.2. Sizewell B 9
B.2.3. Sizewell C 12

Appendix C: Review of previous geotechnical engineering reports (GER) 14

C.1. Introduction 15
C.2. Summary of main geotechnical engineering reports 15
C.2.1. Sizewell A 15
C.2.2. Sizewell B 15
C.2.3. Sizewell C 17

Appendix D: Detailed analysis of geotechnical parameters 20

Appendix D.1. Average stratigraphy 22
Appendix D.2. State parameters 23
Appendix D.3. Identification parameters 28
D.3.1. Grain-size distribution 28
D.3.2. Fine content 33
D.3.3. Relative density 33
D.3.4. Shell content 35
D.3.5. Derived from in-situ tests 36
Appendix D.4. In-situ SPT test results 43
Appendix D.5. Shear resistance parameters 45
D.5.1. For Peat & Clay 45
D.5.2. For Crags 46
D.5.3. For London Clay and Lower London Tertiaries 46
Appendix D.6. Static deformation parameters 48
D.6.1. Static deformation modulus 48
D.6.2. Consolidation parameters 50
Appendix D.7. Dynamic parameters 52
D.7.1. Shear waves and compression waves velocities 52
D.7.2. Small strain modulus 54
D.7.3. Variation of shear modulus and damping ratio with shear strain 55
D.7.4. Synthesis on dynamic parameters 57
Appendix D.8. Soils & water Chemical characteristics 58

Appendix E: Extracts of onshore site investigations location on Sizewell A, B and C sites 59

Appendix A: List of available geotechnical site investigations (GSI) and geotechnical engineering reports (GER)

Original author's reference no.	Title – Ref in present Report	Author	Date	Type	Dat. Ref. Number	Site	Comments
Report no. 882	Site investigation at The Warren Sizewell - [SIZ01]	Le Grand, Sutcliff and Geil Limited (LGSG)	1958	Factual Report	325	A	Available
FLC/PT/9767	Site Investigation at Sizewell - [SIZ02]	Le Grand ADSCO Limited	1959	Factual and Engineering Report	320	C	Available
Report no. 3184/3285/1	Site investigation for water cooling intake and outfall conduits of the proposed nuclear power station at Sizewell - [SIZ03]	Soil Mechanics	1960	Factual Report	330	A	Available
RST/EPJ	Sizewell Nuclear Power Station – Settlement of foundations - [SIZ04]	Taylor Woodrow Construction Limited	1960	Engineering Report	314	A	Linked with 1968 Report about same item (same Ref No).
S/6517	Report on site investigation – Proposed Sizewell 'B' power station - [SIZ05]	Wimpey Laboratories Limited	1968	Factual Report	322	B and partially C	Available
GFP/CMN/23062	Sizewell 'B' power station – Notes on Foundation Conditions - [SIZ05]	LG Mouchel and Partners (LGMP)	1968	Engineering Report	313	B	Same Ref Number as 1980 FUGRO report
014C/NOEL/JC	Sizewell Power Station – Settlements of Reactors - [SIZ04]	Taylor Woodrow Construction Limited	1968	Engineering Report	314	A	Survey of actual settlements between 1961 and 1964. Also contains Site investigation Report
?	Sizewell 'B' Power station – SCHWR Project – no Ref.	Law & Morgan	1975	Engineering Report	309	A, B, C	Preliminary geotechnical analysis, not really useful
6654/1 & 2	Sizewell 'B' hydrographic survey – Phases 1 and 2 - no Ref.	Soil Mechanics	1975	Factual Report	308	B	No geotechical interest
6654/3	Sizewell 'B' hydrographic survey – Phase 3 - no Ref.	Soil Mechanics	1976	Factual Report	304	B	No geotechical interest

Original author's reference no.	Title – Ref in present Report	Author	Date	Type	Dat. Ref. Number	Site	Comments
6729/1	Sizewell 'B' nuclear power station dewatering investigation - [SIZ06]	Soil Mechanics	1976	Factual and Engineering Report	303	B	Available
CF669/1385	Sizewell 'B' power station – Onshore site investigation - [SIZ07]: Vol 1: Factual report Vol 2: Boreholes logs and In-situ test results Vol 3: Laboratory test results Vol 4: Laboratory consolidation test results Vol 5: Geophysicla survey report	Foundation Engineering Limited	1976	Factual Report	337 (Vol 1) 338 (Vol 2) 294 (Vol 3) 295 (Vol 4) 296 (Vol 5)	B	Vol 4 unavailable
DC/MTS/SM 355	Sizewell 'B' power station – Contractor's plant area and access road – Site investigation - [SIZ08]	Central Electricity Generating Board (CEGB)	1976	Factual Report	326	B	Available
UO636-2	Deep Static Cone Penetration Test – Phase B - [SIZ09]	FUGRO LTD	1980	Factual Report	313	B	Same Ref Number as 1968 LGMP Report
PS01885	Technical Note on BECHTEL generic design – PWR Foundation on Sizewell site - [SIZ26]	National Nuclear Corporation	1981	Engineering Report	328	B	Available
Report No. 7713/S17392	Site Investigation (1980) for Sizewell 'B' Power station - [SIZ10] Vol A: Scope of the investigation Vol B: Boreholes records Vol C: Specialist Field Testing Reports Vol D: Laboratory tests Vol E: Geological appraisal	Soil Mechanics and Wimpey laboratories Joint Venture	1981	Factual Report	299 (Vol A) 300 (Vol B) ? (Vol C) 311 (Vol D) 298 (Vol E)	B	Vol C unavailable
DC/MTS/SM 355 ADD	Contractors Plan area and access road Site Investigation - [SIZ11]	CEGB	1981	Factual Report	305	B and partially C	Precise location unknown
10456/01/DJH/CJH/KAH	Geological Appraisal of the Nuclear Power Station at Sizewell – Remote sensing interpretation – no Ref	Ove Arupr and Partners	1982	Engineering Report	307	B	Same site as Ref. N°298

Original author's reference no.	Title – Ref in present Report	Author	Date	Type	Dat. Ref. Number	Site	Comments
8036/1/A	Site investigation for access road – Sizewell 'B' power station - [SIZ12]	Soil Mechanics	1983	Factual Report	318	B	Vol. A available Vol C unavailable
8036/1/B	Site investigation for access road – Sizewell 'B' power station – Detailed report on Peat - [SIZ12]	Soil Mechanics	1983	Factual Report	312	B	Vol. B
8036/1/D	Site investigation for access road – Sizewell 'B' power station - [SIZ12]	Soil Mechanics	1983	Factual Report	316	B	Vol. D but results unavailable
C/DJM/SD/115.4/5/6/ R001	Seismic aspect of the Sizewell 'B' Site - [SIZ13]	CEGB	1983	Engineering Report	329	B	Contains also Offshor geophysical data
C33/C34/SDD/1514	Station Design Document : Aseismic Design - [SIZ14]	NNC	1983	Engineering Report	306	B	Available
IC-PSC-004	Soil Parameters for static design of Sizewell 'B' Foundations - [SIZ15]	National Nuclear Corporation Limited (NNC)	1984	Engineering Report	321 (iss. B) 315 (iss A)	B	Issue A outdated
PWR/85/09 B	Assessment of Soil Parameters for Dynamic Sol Structure Interaction Analysis for Sizewell 'B' - [SIZ16]	Nuclear Design Associate	1985	Engineering Report	331	B	Available
PWR/TM 160	Site response to vertical ground motion - [SIZ17]	NNC	1986	Engineering Report	301	B	Issue B
PWR/TM 184	Supporting studies for Sizewell 'B' site seismic response analysis - [SIZ18]	NNC	1986	Engineering Report	302	B	Support Report to the Ref. 301 above
Project No. 87/2810	Soil investigation – Static Cone Penetration Test at Sizewell 'B' power station -	FUGRO LTD.	1987	Factual Report	295	B	No datat available in this report
J7998	Sizewell 'B' Offshore Survey - no Ref.	Wimpol limited	1989	Factual Report	324	B	No geotechical interest
?	Sizewell C Preapplication Studies – Studies of Peat Disposal & Fill provision - [SIZ19]	Sir Alexander Gibb & partners	1989	Engineering Report	319	C	Common Ref. No.

Original author's reference no.	Title – Ref in present Report	Author	Date	Type	Dat. Ref. Number	Site	Comments
?	Design of Diaphragm Wall & dewatering system - [SIZ20]	Sir Alexander Gibb & partners	1990	Engineering Report	319	C	
SXC-WN-500005/2	Incorporation of common Diaphragm Wall between 'C' and "B' stations - [SIZ22]	Sir Alexander Gibb & partners	1995	Engineering Report	319	C	
Report No 7875/A to F	Sizewell 'C' power Station Site investigation - [SIZ21] Part A: Text and Drawings Part B: Borehole Records (3 Volumes) Part C: In-situ testing results (5 Volumes) Part D: Photographs (3 Volumes) Part E: Laboratory Testing (18 Volumes) Part F: Offshore investigations	Soil Mechanics	1995	Factual Report	unknown	C	Available
9S4862	Geological and Hydrogeological Review – Sizewell C power Station - [SIZ23]	Royal Haskonings	2008	Engineering Report	unknown	C	Available
Report no. 722201	Supplementary ground investigation at proposed nuclear development at Sizewell 'C' - [SIZ24]	Royal Haskonings/ Structural Soils Limited	2009	Factual Report	unknown	C	Available
Report no. DG/ST/68835/TR/005 – Rev.A	Independent Spent Fuel Storage Installation (ISFSI) on Sizewell B power Station, Site Geotechnical Report - [SIZ25]	Sir Robert Mc Alpine Design Group	2010	Factual and Engineering Report		B and C	Available

Data concerning Sizewell 'C'

Appendix B:
Review of previous site investigations (GSI)

B.1. DETAILS OF SITE INVESTIGATION

This Appendix provides a description of the majority of the site investigations that have been carried out for the Sizewell site, emphasizing those showing interest for the Sizewell C project, by giving a summary of factual reports where possible.

Appendix C provides an overview of subsequent engineering reports.

The term 'Data. Ref. Xxx' is the reference number of the piece of data as known in the original data base given to EDF.

B.2. SITE INVESTIGATIONS DESCRIPTION

B.2.1. Sizewell A

B.2.1.1. [SIZ01] Site Investigation at The Warren Sizewell, Data Ref. 325, Le Grand Sutcliff and Geil Ltd, 1958

This report presents soil investigation undertaken at The Warren site, which is located outside of Sizewell C area.

Soil investigations consist in 6 boreholes, all 18.3m deep (60 ft.) except one of 30.5m deep, meaning a end of borings between -7.5m A.O.D. and -27.2m A.O.D. Standard Penetration Test (SPT) where done in sands.

Laboratory test consisted in identification tests, shear box mechanical tests and sulphate content determination.

The sequence of strata consists of beds of medium to fine sand, showing in some layers pebbles, shell fragments or clayey character. Some borehole show thin cemented layers in sand (no more than 5cm thick) below 6 meter depth. These soil strata clearly show that those investigations don't concern Sizewell C site.

Some engineering considerations are given in this report:

- Cemented layers in sand should not be taken into account for whole formation resistance assessment;
- Settlements in sand would be rapid, and completed during construction phase.

B.2.1.2. [SIZ03] Site investigation for water cooling intake and outfall conduits of the proposed nuclear power station at Sizewell, Data Ref. 330, Soil Mechanics, 1960

This report presents the results of 6 marine boreholes undertaken along the proposed lines for intake and outfall conduits.

Those boreholes where completed by SPT and field permeability tests on site, and laboratory tests: density, grain-size distribution, permeability, porosity and void ratio determination, and triaxial compression test (consolidated drained).

Soil succession determined from boreholes is:

- Recent marine deposit mixing beach deposit and fine to medium sand with gravel
- Black organic clay
- Fine and medium sand with shell fragments and cemented layers (Crag Deposit)
- A Claystone layer only 30 cm thick viewed in 2 boreholes, at 18.5m and 21.6m depth.

Those investigation, located outside Sizewell C offshore implantation, present few interest for the current project.

B.2.2. Sizewell B

B.2.2.1. [SIZ05] Report on site investigation – Proposed Sizewell 'B' power station, Data Ref. 211, Wimpey Laboratories Ltd., 1968

This report presents soil investigation carried out for proposed Sizewell B site, **including investigations on Sizewell C location**, which bring interest to those elements.

This report includes factual description of field investigations and laboratory tests, and also description of strata encountered in boreholes with details on each stratum.

Field investigations consisted in 38 boreholes (6 of which only 2.5m deep, others ranging from 11m to 60m deep), static and dynamic CPTs in sands and gravels, 16 in-situ Vane tests, 2 in-situ Dutch cone (static penetration) associated with 2 adjacent SPT tests.

Sampling in peat and soft upper clay was done by using 101.6mm diameter open-drive sampler. In sand, samples were obtained by using a modified Bishop compressed air sampler, steadily pushed (with adaptations because of deep sand friction and density, using then percussive means).

Laboratory tests consisted in identification tests (natural moisture content, density, liquid and plastic limits, grain-size distribution), undrained triaxial tests (on 11 undisturbed samples of alluvial clay and peat, and 4 on London Clay, giving shear strength), consolidated undrained triaxial tests with pore-pressure measurements (4 samples of alluvial clay and peat), consolidation tests (on alluvial clay and peat, London Clay, and clay lenses of Norwich Crag), and chemical tests.

Strata encountered by boreholes are the following:

- Recent deposits:
  - Fill : from sand to gravel – encountered on current Sizewell B station location
  - Beach deposits: loose sand and gravel – encountered on east side, next to coast
  - Organic clay and peat: very soft to soft, with sand at base – identified on Sizewell C location. The peat and clay has been deposited in an old channel eroded in the underlying Norwich Crag, which leads to important thickness of this stratum: range from 2.3 to 10.0m under ground level.
- Pleistocene deposits - Norwich Crag:
  - Those Crag deposits are divided into 3 sub-strata, depending on their increasing density: ranging from loose or medium in upper layer to dense, then very dense with cemented thin layers.
  - They consist in fine to medium sand with varying shell content, containing thin layers (or lenses) of firm clay or silt.
- Tertiary - London Clay: this deep stratum consist in very stiff to hard grey-brown silty clay, with occasional layers of siltstone or limestone.

B.2.2.2. [SIZ06] Sizewell 'B' nuclear power station dewatering investigation, Data Ref. 303, Soil Mechanics, 1976

This report deals with pumping test led on Sizewell B site, but also close to C site, which aim was to assess the coefficient of permeability and storage capacity of sands overlying deep London Clay.

This report contains 2 boreholes logs, of 38.0m and 41.8m depth, completed with grain-size distribution laboratory analysis. Boreholes were undertaken next to test wells, while observation wells where installed at different radius from those test wells, to allow piezometric measurements.

Results of those pumping tests give an average horizontal permeability of 2.1×10^{-4} m/s for the whole aquifer (Crag Sand and upperlying Peats). Local variations of permeability must be expected and taken into account for design purpose. Anisotropy is also variable for the whole site, ratio between vertical and horizontal values of permeability range from 0.04 to 0.7 (with an average ratio between 0.25 and 0.5).

B.2.2.3. [SIZ07] Sizewell 'B' power station – Onshore site investigation, Data Ref. 337, 338, 294, 295 and 296, Foundation Engineering Limited, 1976

This Factual report presents onshore soil investigation undertaken for the Sizewell B station construction. It contains five volumes, which are:

- Volume 1: Text and campaign description
- Volume 2: Boreholes logs, and In-situ tests results
- Volume 3: Laboratory test results (except Consolidation tests)
- Volume 4: Laboratory Consolidation test results
- Volume 5: Geophysical reports

A total set of 73 boreholes (including 5 boreholes for geophysical investigation purpose) were done among Sizewell B site, ranging from 6.8 to 60.2m deep. In-situ tests consisted in SPT tests in granular deposits, Vane tests (into 3 borings, with 3 tests by boring), and 5 Mackintosh Probes (dynamic penetration tests, showing number of blows vs. depth) in soft upper soils. **A significant part of boreholes is located on Sizewell C site**.

Laboratory tests include many results on undisturbed and disturbed samples:

- Sieving analysis completed with sedimentation analysis, to obtain grain-size distribution on 82 samples, completed with shell content tests.
- Atterberg limits.
- Minimum and maximum density.
- Unconsolidated and undrained triaxial tests (28 units) to obtain shear strength.
- Laboratory Vane test
- 6 Consolidated Undrained triaxial tests with pore water pressure measurements, led on black peat.
- 31 consolidation tests carried out in oedometer cells, on peaty and cohesive materials.
- 7 Rowe Consolidation tests.
- Chemical test: pH, sulphate, organic elements, calcium carbonate content of soils, and chloride content of water.

Investigations led to the following general succession of strata:

- Fill material, consisting largely in replaced Norwich Crag (south part of the site)
- Loose sand and gravel (beach deposits), in eastern part
- Organic clay and peat, in northern part (close to Sizewell C site), between ground surface and 13 m deep.
- Crag Deposits, varying from loose to dense fine to medium silty sands, and very dense sand with lenses of clay.
- Very stiff to hard dark clay (London Clay).

Volume 5 shows results from Cross-Hole geophysical test, giving shear waves velocity values from 0 to 30 m depth.

B.2.2.4. [SIZ08] Sizewell 'B' power station – Contractor's plant area and access road – Site investigation, Data Ref. 326, Central Electricity Generating Board (CEGB), 1976

This report contains factual results concerning geotechnical investigation on site close to Sizewell B, intended to be used as Contractor's storage area. This site is located west to Sizewell B.

Investigations consist in 19 boreholes from 6 to 12m deep, 15 Probe soundings (in-situ test similar to static penetrometer, with measurement of penetration time per meter), Standard Penetration Test, and laboratory tests (including identification tests, unconsolidated undrained triaxial test, and chemical analysis).

5 probe soundings test are located within Sizewell C perimeter, showing presence of very loose soils below ground surface (range from 6 to 8 meters deep).

B.2.2.5. [SIZ09] Deep Static Cone Penetration Test – Phase B, Data Ref. 313, FUGRO LTD, 1981

This report presents results from a single deep static electric Cone penetration test. This test was completed by intermediate drillings, to ensure to pass through too dense layers.

Results show cone tip resistance profile on 100m depth, associated with lateral friction and friction ratio.

The report doesn't give the precise location of CPT test, nevertheless soil strata shown on cone resistance profile indicate that it must have been made upon Sizewell B site (no sign of peat in upper layers).

B.2.2.6. [SIZ10] Site Investigation (1980) for Sizewell 'B' Power station, Data Ref. 299, 300, 311 and 298, Soil Mechanics and Wimpey laboratories Joint Venture, 1981

This report's aim was to obtain factual data on the type and properties of the strata below the Norwich Crag deposits, to assess the potential of liquefaction of Norwich Crag and to acquire dynamic properties of this layer and underlying strata.

This report contains 5 Volumes:

- Volume A: Scope of the investigations
- Volume B: Borehole records
- Volume C: Specialist field testing reports
- Volume D: Laboratory tests
- Volume E: Geological appraisal

Field investigations consist in 15 boreholes made by rotary drilling and cable tool method, 30 shallow static CPT, 1 deep static CPT, pressuremeter tests, seismic tests and geophysical logging (down-hole, up-hole and cross-hole, which results are sum up in Volume A table II of [SIZ10]).

Laboratory test include identification test (density, Atterberg Limits, grain-size distribution), undrained triaxial tests, consolidation tests with oedometers, vibration compaction tests, chemical tests, laboratory geophysics test (ultrasonic velocities, compression and shear wave velocity), and rock tests (on deep chalk).

The report gives positions of layers interfaces, derived from borehole logs, and referring to Ordnance Datum:

- Crag Deposits/London Clay: -45.7 to -48.4m AOD
- London Clay/Lower London Tertiaries: -59.6 to -63.3m AOD
- Lower London Tertiaries/Chalk: -81.3 to -83.4m AOD

Those levels refer to Sizewell B site, as no upper peat or soft clayey deposits were found in boreholes.

B.2.2.7. [SIZ11] Contractors Plant area and access road Site Investigation, Data Ref. 305, CEGB, 1981

This report presents complementary investigations undertaken onto contractor's plant area, at NW of Sizewell B site.

Investigations consist in 8 probe sounding with 'Borros' piston sampler, completed by laboratory test (moisture content, particle-size distribution, and undrained shear resistance measurement by triaxial test).

Depth of investigations is limited to 5 to 7m under ground level. The lack of precise location also reduces interest of this document for Sizewell C project.

B.2.2.8. [SIZ12] Site investigation for access road – Sizewell 'B' power station, Data Ref. 318, 312 and 316, Soil Mechanics, 1983

This report presents investigations concerning the proposed second access road to Sizewell B site from North, which means that those elements are located upon Sizewell C site.

This report is structured into 4 volumes:

- Volume A: Factual report
- Volume B: Detailed report on Peat
- Volume C: Photographs of peat samples
- Volume D: Site records, field and laboratory test raw data

Field investigations consist of a total of 7 boreholes (cable tool boring method), 3 shallow electric static cone penetrometer tests, 13 dynamic probing, 8 Delft continuous sampling (in peat and soft clay deposits), 7 water sample pits, 3 Cambridge drive-in piezometers and 13 trial pits with 15 in-situ CBR tests. SPT tests were also carried out in surface granular fill and in Crag Deposit under peat.

Depth of boreholes ranges from 4.6 to 19m under ground surface. CPTs' were carried out at maximum depth of 10.2m, stopping at the top of Crag deposits layer.

Volume B shows detailed borehole logs and laboratory results concerning peat, especially compression test with oedometer and identification tests (moisture content, density, plasticity index, and pH).

B.2.3. Sizewell C

B.2.3.1. [SIZ02] Site Investigation at Sizewell, Data Ref. 320, Le Grand ASCO Ltd, 1959

This report is the oldest available on Sizewell C site, and followed the construction of Sizewell A, as a second power station was intended to be created by this time, and then moved to Sizewell B site. This factual report also includes engineering proposal.

This report contains 9 boreholes, between 12.2 and 30.5m deep. SPT tests have been made in sands. Laboratory tests included identification tests (granular distribution, Plasticity index, densities), mechanical tests (triaxial and shear box tests, consolidation tests, unconfined compression tests), permeability tests, and chemical analysis.

Borings analysis allows identifying the following strata:

- Near-surface sand and sandy gravels, with an underlying strata of black gravels in 5 borings;
- A layer of peat and clay, varying from 3.5 to 7.3m thick, except into one borehole which is located upon Sizewell B site.
- A transition sand layer, varying from loose sand to gravel, with thickness of 1.2 to 2.5m.
- A uniform medium to fine sand with shell fragments, which base was not found by borings, and probably belonging to Norwich Crag Deposits.

This report contains also engineering considerations about power station construction: foundations considerations (with preferences to precast concrete driven piles for nuclear raft: such design solution is no more possible by now), effect of settlements and preconsolidation operations, effect of negative friction, potential permeability of soils, chemical effect of underground water (low salinity, sulphate presence because of upper lying peats which leads to special considerations for concrete protection).

B.2.3.2. [SIZ21] Sizewell 'C' power Station Site investigation, No Data Ref. number, Soil Mechanics, 1995

This report contains factual description of investigation campaign carried out for the purpose of twin reactor project on Sizewell C site. Sizewell B power station was then under construction.

Report is structured into 6 Parts:

- Part A: Text and drawings
- Part B: Borehole records
- Part C: In-situ testing results
- Part D: Photographs
- Part E: Laboratory testing

- Part F: Offshore investigation

Fieldwork consisted in 76 cable tool boreholes (with maximum depth of 32.5 m), 16 Rotary boreholes (depth ranging from 30 to 104m, and completed by Vane tests and SPT tests) and dynamic probing on 32 locations. Geophysical in-field investigations were also carried out, with in-hole geophysical loggings (natural gamma, gamma density, etc.), and seismic wave velocity measurements (up-hole, down-hole and cross-hole into boreholes). At last, a pumping test was undertaken to check the integrity of the existing diaphragm wall around Sizewell B station.

Laboratory testing consisted in triaxial testing (total and effective stress), with small strain measurements, index and classification tests, chemical tests, and consolidation test.

B.2.3.3. [SIZ24] Supplementary ground investigation at proposed nuclear development at Sizewell 'C', No Data Ref. number, Royal Haskonings/Structural Soils Limited, 2009

This report presents the most recent geotechnical campaign provided in pre-existing data, carried out on Sizewell C site in 2009.

Fieldwork consisted in 46 cable percussion boreholes (150 mm to 200 mm diameter), driven up to a 17 m maximum depth. SPT test were carried out at regular intervals, without extrapolation done in the report. Standpipes were installed in 20 boreholes (16mm diameter, except four of them with 50mm standpipes), to carry out water and gas monitoring: borehole flow rate of water (in l/hr) and infra-red gas meter to measure concentration of different gases (CO_2, CH_4, O_2, H_2S and CO). At last, 21 falling head permeability tests were undertaken.

Laboratory testing carried out were identification test (liquid and plastic limits, plasticity index, particle size distribution, moisture content), mechanical test (one-dimensional consolidation test, UU triaxial test, hand Vane test), chemical analyses (pH, sulphate content, organic determination, loss of ignition, electrical conductivity), and environmental analyses useful for Waste Characterization (becoming of extracted soils) with determination of pollutants content (metals, PCB, VOC, PAH, etc.).

B.2.3.4. [SIZ25] Independent Spent Fuel Storage Installation (ISFSI) on Sizewell B power Station, Site Geotechnical Report, No Data Ref. Number, Sir Robert Mc Alpine Design Group, 2010

This report deals with the ISFI project upon Sizewell B site. It presents the results of a geotechnical assessment of the site of ISFIS project.

Assessment uses data from a site investigation that was carried out in 2009. It also uses data from earlier investigations, especially beneath Sizewell C site. This last point is the main interest of the report, as it makes synthesis of previous geotechnical investigation, most of them already described earlier in the present document.

Main results of this synthesis deal with: grain-size distribution, bulk density, moisture content, CPT and SPT tests, and dynamic geotechnical parameters (seismic waves velocities, small strain modulus).

Appendix C:
Review of previous geotechnical engineering reports (GER)

C.1. INTRODUCTION

This Appendix provides a short description of various Geotechnical Engineering Reports (GER) available on Sizewell site, with specific emphasise on more relevant ones for Sizewell C project.

C.2. SUMMARY OF MAIN GEOTECHNICAL ENGINEERING REPORTS

C.2.1. Sizewell A

C.2.1.1. [SIZ04] Sizewell Nuclear Power Station – Settlement of foundations, and Sizewell Power Station – Settlement of reactors, Data Ref. 314, Taylor Woodrow Construction Limited, 1960 and 1968

This report includes two main parts, concerning Sizewell A reactors settlements:

- A 1960's report, presenting calculations for expected settlements under rafts of Reactor 1 and 2, and for Turbine House foundations. Those calculations are based on SPT investigations, and Terzaghi & Peck method; gross settlement of 2'' (5.1cm) is expected for Reactors, while 1.5"" (3.8cm) of settlements are expected for Turbine House;
- A 1968's report, dealing with true settlements readings on Sizewell A plant, during and after construction. Two load/settlements diagrams are plotted, from 29th of July 1961 (step zero, when a load of 5590 t was already applied for Reactor 1, after raft construction, while Reactor 2 construction was not already begun) to September 1965. Final average settlements are reasonably close for the two reactors (3.6 to 3.8 cm), under the total load of raft (more than 79 000 t; applied on a raft surface around 2200 m²).

This document has been used as data for further Geotechnical Engineering Reports ([SIZ15] for example), for back analysis on soil behaviour under heavy loads and settlements calculation, on Sizewell B and C sites.

C.2.2. Sizewell B

C.2.2.1. [SIZ13] Seismic aspect of the Sizewell 'B' Site, Data Ref. 329, CEGB, 1983

This report describes studies which have been carried out concerning the geology and seismology of the area surrounding the Sizewell B site. It includes wherever possible all reports received from outside experts which provide data leading to the assessment of the seismic hazard at Sizewell.

It concludes that the proposed criteria (at issue time of [SIZ13]) are conservative and that the site "should be regarded as being seismically soft" (this classification is not related to an assessment of shear waves velocities as modern approach does).

Specific points of interest in this document could be:

- Description of British earthquakes context,
- Description of applied methodology,
- Main findings of the study: especially information on onshore and offshore faulting, and historical seismicity,
- Discussions on those findings,
- And Appendix, especially including Offshore Geophysical Survey results and catalogue of historical earthquakes.

C.2.2.2. [SIZ14] Station Design Document : Aseismic Design, Data Ref. 306, NNC, 1983

This document outlines the aseismic design philosophy, criteria and procedure appropriate to a new Advanced Gas Reactor (AGR).

As this document presents only general considerations for aseismic design, and deals with an old nuclear technology, it doesn't show any specific interest for Sizewell C Site.

C.2.2.3. [SIZ15] Soil Parameters for static design of Sizewell 'B' Foundations, Data Ref. 321 (issue B updated), National Nuclear Corporation Limited (NNC), 1984

This report describes the assessment of soil parameters for static design of the Sizewell B station, based on in-situ and laboratory test data, together with back analysis of Sizewell A settlement measurements.

It provides useful data on deformation parameters, with correlations between modulus and test results, like:

- E = undrained static elastic modulus, derived from SPT and CPT test, from back analysis of Sizewell A settlements, from geophysical data, and from laboratory test.
- m_v= coefficient of vertical compressibility, from oedometer tests.

Profiles of deformation parameters vs. reduced level are given in this report, depending on the different correlations used.

This document [SIZ15] has been used in [Ref.4], to define relevant values for deformation parameters (static and dynamic modulus). Those estimations are quite reliable and are included in the present Ceidre/TEGG Technical Report.

C.2.2.4. [SIZ16] Assessment of Soil Parameters for Dynamic Sol Structure Interaction Analysis for Sizewell 'B', Data Ref. 331, Nuclear Design Associate, 1985

This report discusses the dynamic soil properties derived from in-situ geophysical tests in 1980. It also derives the values required for dynamic soil-structure interaction analysis.

Discussion is made for the different soil layers, and used correlations are described.

Different plots are given in Appendix, presenting variation of dynamic parameters with reduced level.

[Ref.4] has acted that a good confidence can be granted to dynamic parameters assessed in document [SIZ16]. These values are included in the present Ceidre/TEGG Technical Report.

C.2.2.5. [SIZ17] Site response to vertical ground motion, Data Ref. 301, NNC, 1986

In this document, Sizewell site response to vertically propagated compression waves (and only these P-waves) is assessed by on-desk analysis. Factors affecting the site amplification are assumed. Analysis carried out shows that Sizewell site has not got any tendency to amplify vertical ground motion and that the maximum acceleration appearing at the site will be more or less equal to the maximum acceleration appearing at an outcrop of the bedrock.

Demonstration is made that:

- By comparing P-waves propagation speed in bedrock (Chalk), assumed to be 2350 m/s, with average P-waves propagation speed in overlying soils (from upper Crags to London Tertiaries), estimated to be 1825 m/s, mathematical amplification for vertical seismic waves is equal to ratio of these two value, that is to say amplification of 1.29 (because of similar average density in bedrock and soils). Same mathematical amplification is also reminded for shear waves, with ratio of 1000/391 = 2.56.
- By assessing other factors, like damping, random phasing of time-history, inclined incidence and non-linear effects, amplification factor falls to 0.94.

Concerning shear waves, this document makes reference to another study[6], which is not available for EDF at this time: as quoted in [SIZ17], conclusion of this study was that *"the site has a limited capacity to transmit high accelerations in the horizontal direction, partly due to the yielding of the soil deep layers and energy absorption by hysteretic damping and partly due to the shift in the fundamental frequency of the site towards the lower end of the ground spectrum".*

It must be noticed that both studies have been made for Sizewell B site. Derivation of these results to C Site should be made with caution. However, as deep geology is highly similar for both sites, main conclusion should be quite unchanged.

[6] Smith C.R., 'Assessment of the capacity of Sizewell B to withstand seismic events greater than the SSE', NNC Report PWR/R777, March 1984.

C.2.2.6. [SIZ18] Supporting studies for Sizewell 'B' site seismic response analysis, Data Ref. 302, NNC, 1986

This report presents some studies which have been carried out to support the site response analysis of Sizewell B as presented in the sensitivity study for seismic events beyond the Safe Shutdown Earthquake (SSE) (already quoted in [SIZ17] above).

This report reminds that sensitivity study has demonstrated that Sizewell B site shows a threshold at 0.30 g, beyond which the ground acceleration doesn't increase with an increase in the bedrock motion intensity.

Studies deal with following points:

- Demonstration that the computer program used is able to predicting acceleration similar to those recorded during real events;
- Investigation on the effect of inclined body waves on site response;
- Demonstration that soil properties defined by the HM Nuclear Installations Inspectorate (NNI) are excessively conservative.

  This last point brings useful data for Sizewell C (even if demonstration is made for Sizewell B site), as there is a comparison made between NNI soil properties and PWR/R777 properties below -48 m AOD: four soil layers are defined below this level (-48 to -55 m AOD / -55 to -61 m AOD / -61 to -70 m AOD / -70 to -82 m AOD), and values are given for G_0 (MPa) so as shear stress / shear strain curves (for both NNI and PWR/R777 properties).

C.2.2.7. [SIZ26] Sizewell B: Technical note on Bechtel Generic Design PWR Foundations on the Sizewell site, Data Ref. 328, C. Howden, K. Jeremicz, I.B. Hopkin, 1981

This report presents calculations of settlements on Sizewell B site, to confirm the feasibility for PWR Bechtel Generic Design (named SNUPPS), which is no longer object of Sizewell C project.

Nevertheless, after evaluation of loading data to be considered for SNUPPS, interesting data are given, consisting in assessment of oedometric modulus E_{oed} for soil layers from ground level to -120m AOD, and for raft settlements analysis purpose. Those moduli were defined as:

- For the given lower bound of coefficient of vertical compressibility (m_v, equal to 1/ E_{oed}), i.e. upper bound for E_{oed}: values derived from test results, modified by back analysis of Sizewell A settlements.
- For the upper bound of m_v, i.e. lower bound of E_{oed}, a ratio a 1.5 is applied (by dividing upper oedometric modulus) to take into account field variations.

It must be noticed that this analysis doesn't make differences between London Clay and London Tertiaries, and group them in a single layer named "Clay with sand', from -45m to -80m AOD. For London Clay, values of oedometric modulus are also given for consolidation behaviour.

Settlements calculated from lower and upper bounds of modulus are finally given, but are no more relevant for existing Sizewell C EPR project (simply because of the fact that oedometric modulus are closely linked to the stress level applied to the material, and that those stress levels are different between EPR project and PWR Bechtel design).

C.2.3. Sizewell C

C.2.3.1. [SIZ19] Sizewell C Preapplication Studies – Studies of Peat Disposal & Fill provision, Data Ref. 319, Sir Alexander Gibb & partners, 1989

This report presents the study of removal and disposal of peat and clay layers on Sizewell C site, potential sources of fill material.

Geotechnical considerations have been made to assess the quantity and type of material that must be removed from within the area of diaphragm wall.

Disposal methods are discussed within identified areas.

Two basic methods of excavating are analysed in details:

- Removal by dredging: this method can't be considered anymore on Sizewell C.
- Conventional method: with hydraulic excavators and front end loaders, working at least in three cuts, depending on the depth of excavation.

Concerning handling and transportation, the study concludes that the most satisfactory method would be the use of off-road dump trucks along a specially constructed haul road. This solution doesn't seem to be the preferred one by now, because of environmental concerns.

C.2.3.2. [SIZ20] Design of Diaphragm Wall & dewatering system, Data Ref 319, Sir Alexander Gibb & partners, 1990

This report summarises the results of the evaluation of the environmental effect of the proposed Sizewell C cut-off wall and dewatering works. Potential effects examined are lowering of groundwater levels in response to seepage through the wall, and rising of groundwater levels in response to any damming effect of the wall.

Results of the modelling show that effects on the surrounding groundwater regime are negligible. Dewatering system could cope with a potential defects equivalent to a total area of 5 m², while larger ones would exceed the pumping capacity. Finally, potential damming effects would be minimal, and would not give rise to any apparent flooding.

C.2.3.3. [SIZ22] Incorporation of common Diaphragm Wall between 'C' and "B' stations, Data Ref. 319, Sir Alexander Gibb & partners, 1995

This report presents the studies related to the possibility of including Sizewell B north diaphragm wall to new Sizewell C cut-off wall.

There is a presentation of performance records for the wall during dewatering operation for B station construction. It shows that no defect was detected in North section of Sizewell B diaphragm wall.

Results of a pumping test made in 1994 are analysed. They are compared with a numeric modelling of the same test, to assess the behaviour of groundwater inside Sizewell B enclosure. Average equivalent permeability of the B wall is the evaluated to 1.9×10^{-8} m/s, with a defect in north-east wall (and with a wall thickness of 0.8 m).

Finally, dewatering of Sizewell C is modelled: results show that after five years dewatering, the maximum drawdown beneath Sizewell B station would be in the range of 1.15 and 1.25 m under the Sizewell B Radwaste building.

C.2.3.4. [SIZ23] Geological and Hydrogeological Review – Sizewell C power Station, No Data Ref. number, Royal Haskonings, 2008

This report consists in a review of available geological and Hydrogeological data at Sizewell C site. Its aim was to provide information to understand the groundwater flow beneath the site, and to identify any changes to the baseline hydrogeology as a result of the proposed Sizewell C.

Baseline data on local hydrology are presented: records on nearest rainfall gauging stations are given (period from 1960's to 2000: average annual rainfall ranges from 597mm to 612mm), so as tidal records.

Local geology is also reminded (no specific complementary information compared to the rest of Reference Documents above).

The report presents a description of regional and local Hydrogeology:

- Hydrostratigraphical units:

  Recent deposits (Made Ground, Peat & Clay, Beach Sand) and Crag Deposits are defined as minor aquifers, with hydraulic continuity between both of them. Perched water could be present in recent deposit in case of low permeability deposits overlaying sand/gravel layers. Crag aquifer ranges from 47m to 54m thick, with its base defines as the top of London Clay.

  London clay and majority of Lower London Tertiaries are non-aquifer.

  The deep chalk is a major aquifer with a piezometric surface at or above ground level.

- Local groundwater flow:

  Data come mainly from monitoring on Sizewell B site, before, during, and after its construction.

  Limited data exist for perched water levels for superficial deposits to the west and north of the Sizewell C site. The perched water table level is +1 to +2m AOD.

  In Crags, water level measured at Sizewell B prior to dewatering indicates a near “horizontal” water table at +0.7 m AOD. On Sizewell C site, average piezometric surface of the Crag aquifer is approximately at +0.5m AOD, and could vary with the tides with a response of 0.5m within 100m of the shoreline.

  Because of this tidal fluctuation, groundwater flow in Crag aquifer is assumed to be directed to the East (toward sea) under low tides, and to reverse to the West (toward inland) under high tides.

  On Sizewell B, no tidal influence has been measured more than 500 m inland. There is also a lag of 2 hours between tidal level in the sea and groundwater fluctuation.

  Analysis of pumping tests carried out on the site in the Crag aquifer indicates hydraulic conductivity in the order of 20m/day horizontally and 2m/day vertically.

Main conclusions of the report are:

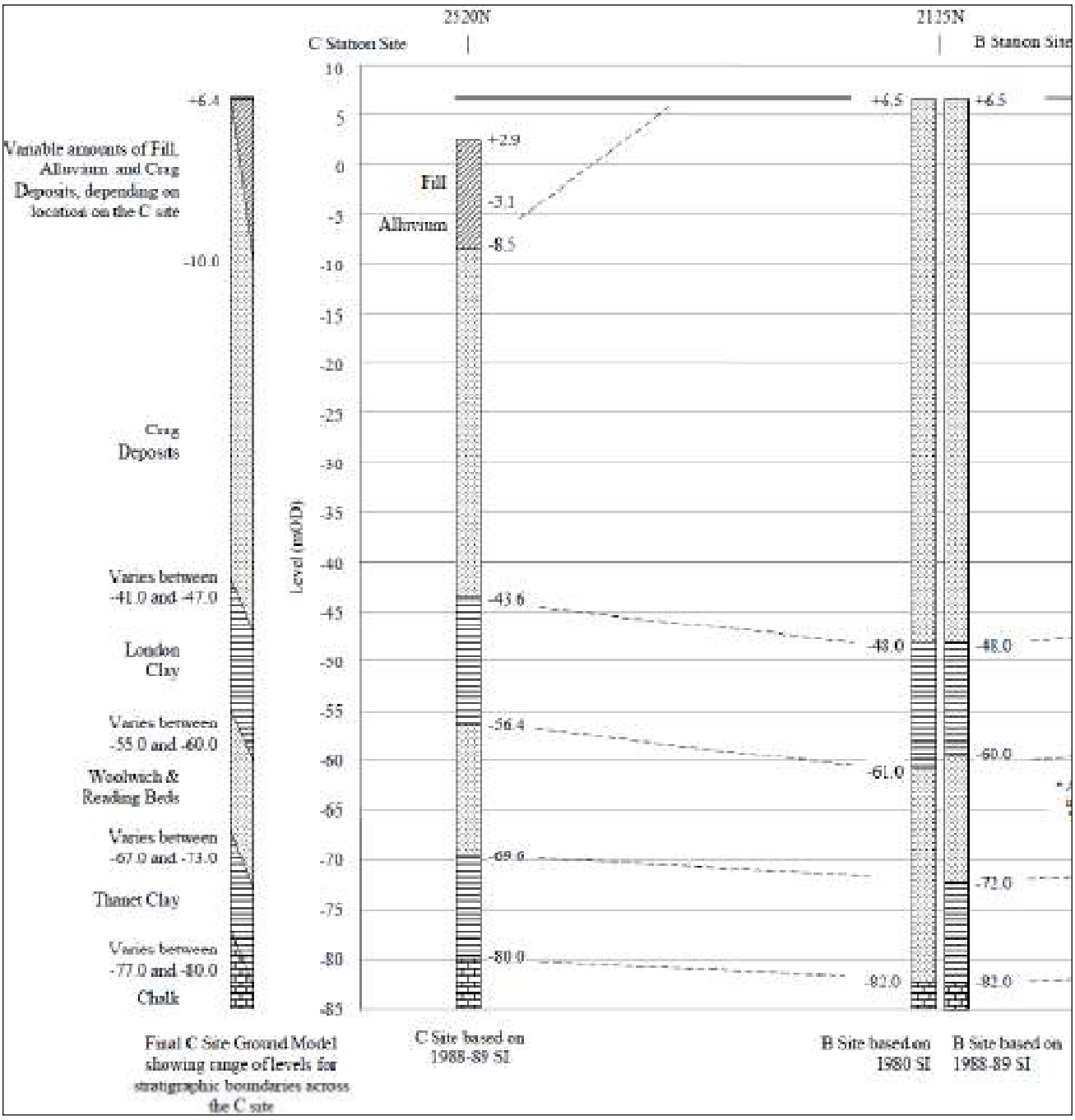
- There are limited data available to assess the potential of saline intrusion. But this risk is considered to be low because of installation of cut-off wall, as long as it is kept undamaged during exploitation of EPR plants;
- Volume of groundwater in cut-off wall is assessed to be 1.6Mm3, with 0.6Mm3 to be removed for excavation purpose (hypothesis of level excavation at -16m AOD);
- Geochemical analysis on Peat are recommended, including mineralogical and heavy metal content, to evaluate the acid generation capacity of such materials;
- Groundwater monitoring around the site is finally recommended.

Appendix D:
Detailed analysis of geotechnical parameters

LIST OF ILLUSTRATIONS FROM APPENDIX D

Graph D.1: Proposed stratigraphy on Sizewell C and B sites [SIZ25] 22
Graph D.2: Bulk mass density vs. Reduced level AOD ([SIZ25]) 24
Graph D.3: Detail on Crag Sand – Bulk and Dry weight density vs. Reduced level AOD ([SIZ02], [SIZ06], [SIZ10]) 25
Graph D.4: Detail on London Clay and Lower London Tertiaries – Bulk weight density vs. Reduced level AOD ([SIZ10]) 26
Graph D.5: Moisture content vs. Reduced level AOD from samples ([SIZ25]) 27
Graph D.6: Grain size distribution in Crag – Above 0m AOD ([SIZ25]) 29
Graph D.7: Grain size distribution in Crag – From 0m to -10m AOD ([SIZ25]) 29
Graph D.8: Grain size distribution in Crag – From -10m to -20m AOD ([SIZ25]) 30
Graph D.9: Grain size distribution in Crag – Below -20m AOD ([SIZ25]) 30
Graph D.10: Grain size distribution in London Tertiaries ([SIZ25]) 31
Graph D.11: Granular parameters vs. Reduced level AOD in Crags : D10, D50 and CU (=D60/D10) ([SIZ25]) 32
Graph D.12: Min and Max density in Crag Sands vs. Reduced level ([SIZ07]) 34
Graph D.13: Shell content in Crags vs. Reduced level ([SIZ05]) 35
Graph D.14: Plot of some CPT in-situ test ([SIZ09] and [SIZ21]), with deep CPT 37
Graph D.15: Details of CPT tests in Crag (upper than -40 mAOD) ([SIZ21]) 38
Graph D.16: Schmertman abacus for 4 CPT results (YP2A, YP14, YP18 and YP23) 39
Graph D.17: Robertson correlations applied on 4 CPT results (YP2A, YP14, YP18 and YP23) 41
Graph D.18: SPT test results vs. Reduced level AOD – values from [SIZ05] and [SIZ07] 43
Graph D.19: Undrained shear strength in Tertiaries layers – results from [SIZ10] 47
Graph D.20: Recommended values for Static deformation modulus on Sizewell B, from back analysis of Sizewell A settlements ([SIZ15]) – Values are for immediate settlement (i.e. undrained) 49
Graph D.21: Waves velocities profile (Shear waves on left – Compression waves on right) vs. Reduced level AOD ([SIZ25]) 52
Graph D.22: Ground waves velocities vs. Reduced level AOD, from Sizewell B site 1981 investigations ([SIZ16]) 53
Graph D.23: Low strain shear and elastic modulus vs. Reduced level AOD ([SIZ16]) 54
Graph D.24: Plots for Shear modulus variation vs. Shear strain, for Crag sands and Tertiaries strata ([SIZ25]) 55
Graph D.25: Plots for damping ratio variation vs. Shear strain, for Crag sands and Tertiaries strata ([SIZ25]) 56

APPENDIX D.1. AVERAGE STRATIGRAPHY



Graph D.1: Proposed stratigraphy on Sizewell C and B sites [SIZ25]

APPENDIX D.2. STATE PARAMETERS

This involve weight density – bulk (γ_h) , dry (γ_d) and/or specific weight density (γ_s) -, natural moisture content (w), natural void ratio (e). Table D.1 shows results from laboratory tests, issued from [SIZ02], [SIZ07] and [SIZ10].

Soil	γ_h (kN/m3)	γ_d (kN/m3)	γ_s (kN/m3)	w_{nat} (%)	e (%)
Made ground	No available data				
Recent Deposit - Clay	14.4 (i) [12.8; 16.3] (ii)	7.9 [6.1; 10.8]	18.9 [17.1; 22.1]	≈ 80 % [34 %; 233%][1]	142 % [105; 185]
Recent deposit - Peat	10.6 [9.4; 12.9]	2.9 [1.7; 6.5]	12.4 [11.5; 17.3]	≈ 300 % [160 %; 490 %][2]	≈ 370 % [167%; 614%][3]
Crag 1	19.45 [16.48; 23.15]	15.46 [14.13; 16.50]	26.14 [25.80; 26.49]	19.5 % [16 %; 23%]	70 % [56%; 84%]
Crag 2	19.79 [16.97; 23.35]	16.51 [15.11; 17.43]	26.04 [25.41; 26.49]	17.8 % [12 %; 21 %]	58 % [49%; 68%]
Crag 3	17.38 [17.46; 18.25]	15.73 [15.55; 15.94]	26.41 [26.19; 26.68]	13.5 % [9.4; 17%][4]	68 % [67%; 69%]
London Clay	18.01 [13.93; 20.0]	13.61 [9.67; 16.74]	25.79 [25.11; 26.49]	37 % [19 %; 63 %]	93 % [56 %; 125 %]
L.L.T. Sandy > -73 to - 67 AOD	19.6 [19.1; 20.60]	15.96 [14.85; 18.55]	25.78 [25.11; 26.29]	25.5 % [15%; 35%]	67 % [40 %; 92 %]
L.L.T. Clayey < -73 to - 67 AOD	17.94 [16.38; 18.74]	12.96 [11.14; 14.03]	26.05 [25.41; 26.59]	38.5 % [33%; 47%]	102 % [89 %; 122 %]
Chalk	19.31 [18.84; 20.0]	14.98 [14.6; 15.4]	26.38 [25.7; 26.8]	28.5 % [28%; 29%]	77 % [67 %; 82 %]

Table D.1 : Values for state parameters from Lab tests ([SIZ02], [SIZ07] and [SIZ10])

Note for each cell: (i): Mean value / (ii): [Minimum value; Maximum value]

Details on bulk and dry weight densities from laboratory tests above are given with weight density values vs. reduced level AOD in Graph D.3 for Crag Deposits, and in Graph D.4 for London Clay and Lower London Tertiaries. Moisture content versus depth is also given in Graph D.5.

Graph D.2 exhibits other bulk density values, issued from [SIZ25] and based either on samples lab tests and geophysical loggings in boreholes (before 1994). This Graph D.2 exhibits the fact that laboratory tests analysed in Table D.1 slightly underestimate bulk weight density for lower Crags and Lower London Tertiaries (by more than 1 kN/m^3 missing). This may come from disturbance of samples from those older campaigns. Therefore, geophysical results and associated consistent laboratory results from [SIZ25] are assumed to be more reliable. Moreover, they appear to be the base data source for other parameters

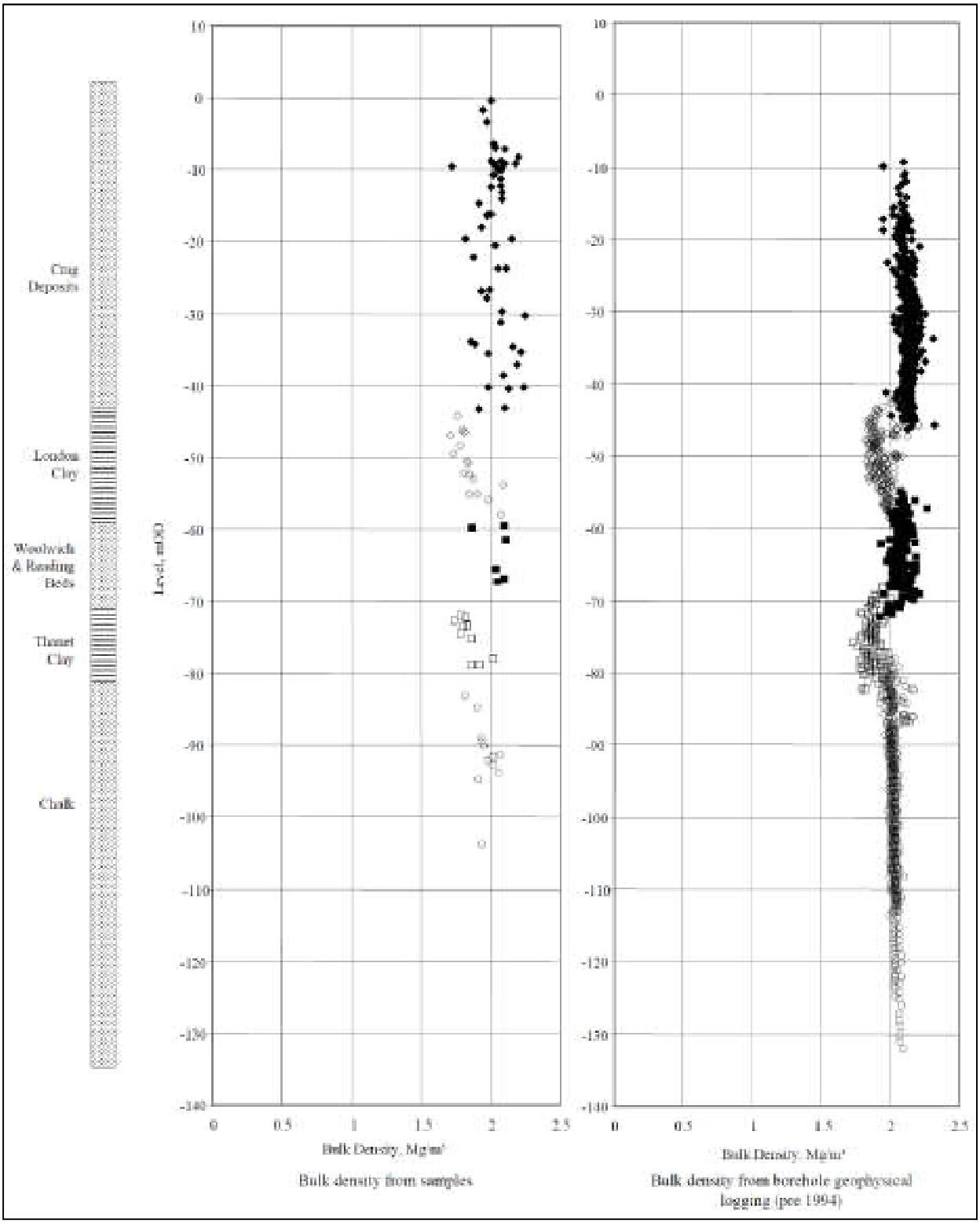
[1] Standard deviation ≈ 39 %

[2] Standard deviation ≈ 85 %

[3] Standard deviation ≈ 130 %

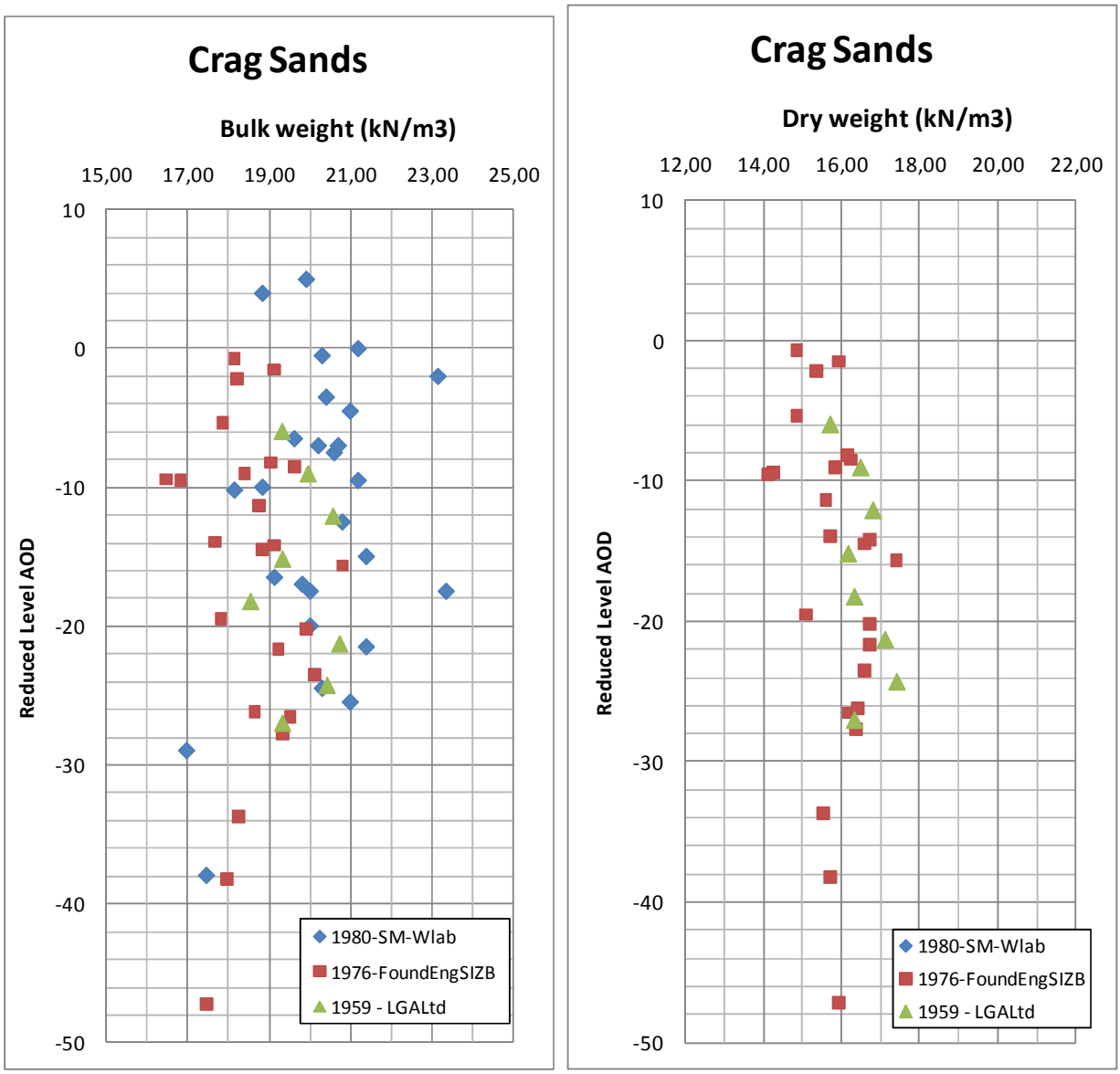
[4] only 3 values for w_{nat} and e

assessment as analysed in others parts of Appendix D (static and dynamic deformations parameters for instance).

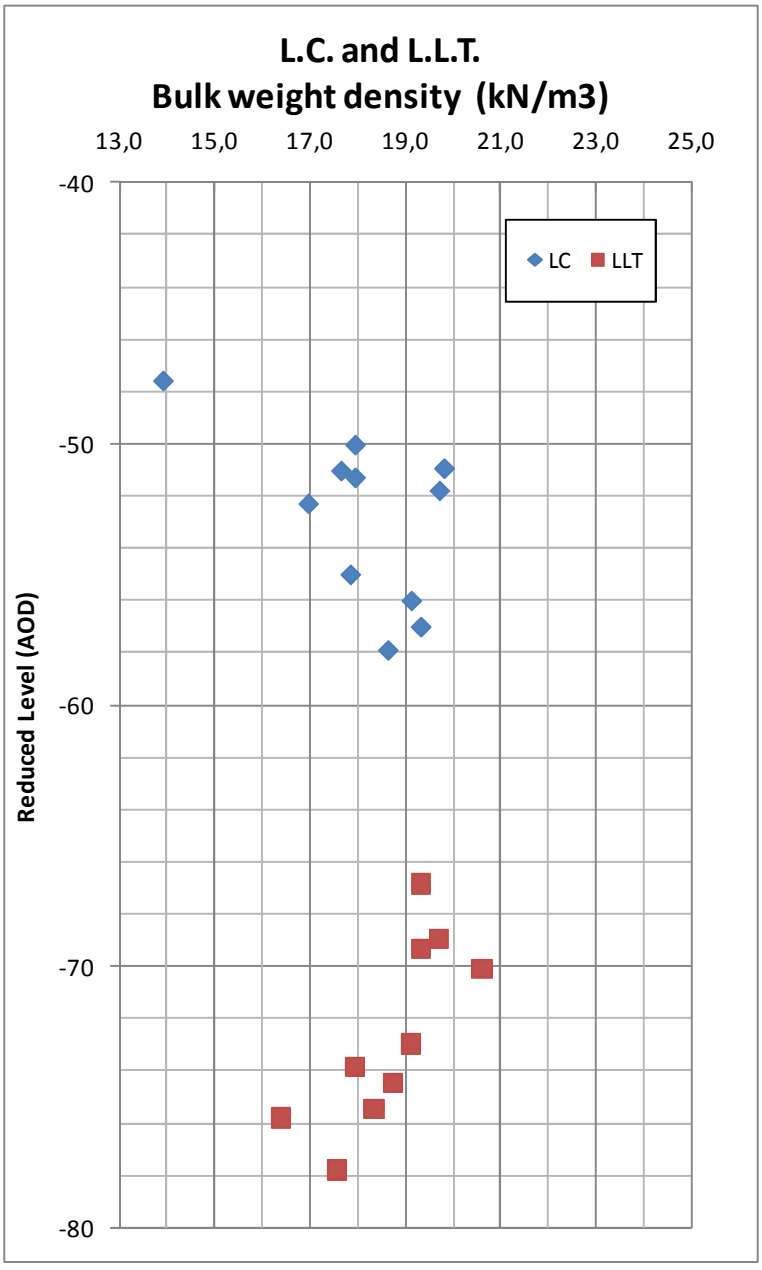


Graph D.2: Bulk mass density vs. Reduced level AOD ([SIZ25])

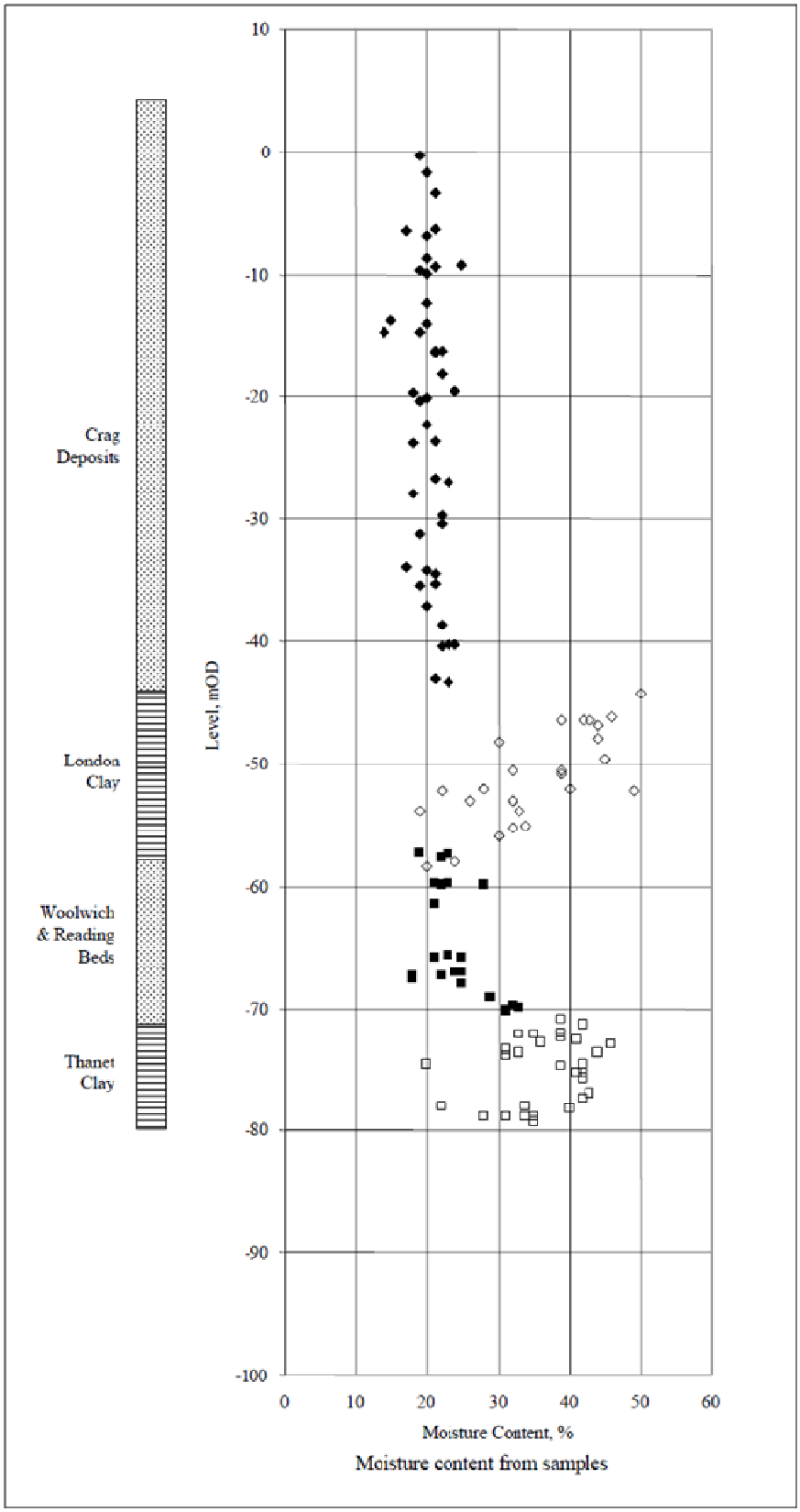
Note: gravity acceleration is taken as g = 9.81 m/s² for link between mass and weight



Graph D.3: Detail on Crag Sand – Bulk and Dry weight density vs. Reduced level AOD ([SIZ02], [SIZ06], [SIZ10])



Graph D.4: Detail on London Clay and Lower London Tertiaries – Bulk weight density vs. Reduced level AOD ([SIZ10])



Graph D.5: Moisture content vs. Reduced level AOD from samples ([SIZ25])

APPENDIX D.3. IDENTIFICATION PARAMETERS

Those are grain size distribution parameters (Passing Sieve Diameter D10, D50, Dmax, or else), CU and CC (Uniformity and Curvature coefficients[1]), fine content (Plasticity index IP or VBS), and Relative density parameters (e_{min} and e_{max}).

Discussion is also made on correlation between CPT in-situ test and nature of soils.

D.3.1. Grain-size distribution

Only granular materials are concerned, i.e. Made Ground, Crag Sands and upper part of Lower London Tertiaries (Woolwich & Reading Beds of fine sand and sandy clay).

	Grain size (mm)			Uniformity coefficient	Curvature coefficient
Soil	**D_{10}**	**D_{50}**	**D_{max}**	**CU**	**CC**
Made ground	0.1 mm [0.05 to 0.3 mm]	1 mm [0.25 to 10 mm]	30 [10 to 60 mm]	3 to 48	0.08 to 6.35
Crag 1	0.12 mm [0.05 – 0.2 mm][2]	0.35 mm [0.1 to 0.9 mm][3]	5 mm [0.5 to 12 mm]	Mainly ranging from 1.8 to 6.0 – few scattered values up to more than 100	0.7 to 2.3
Crag 2					
Crag 3					
LLT (W&R Beds)	always < 80µm average: < 2µm[4]	Average: [0.003 to 0.2mm]	< 0.6mm	From 3 (fine sand layers) to more than 75 (clayey beds)	Less than 0.3 to 2

Table D.2: Values for particle size distribution

Results on Made ground highlight great variability in material nature and in spatial distribution among the site.

No distinction is made between the 3 Crag sub-stratums. Nevertheless, it must be noticed that particle size distribution tests have been widely undertaken upon upper Crag layers. Detailed results are shown below in Graph D.6 to Graph D.9 and Graph D.11 for Crag Sand.

It appears that results are less numbered below – 20 m AOD. Those graphs present very few differences upon Crag thickness:

- Average values for specific diameters (D_{10} and D_{50}) are quite homogenous from 0 to -43 m AOD;
- Very few layers of finer material (with D_{50} less than 0.15 mm) are met between – 8 m and – 13 m AOD, and below -30 m AOD;
- Considering CU values, Crag Sands appear to be mainly even graded material: also, singular peak values are randomly present upon all Crag thickness, highlighting existence of thin heterogeneous layers.

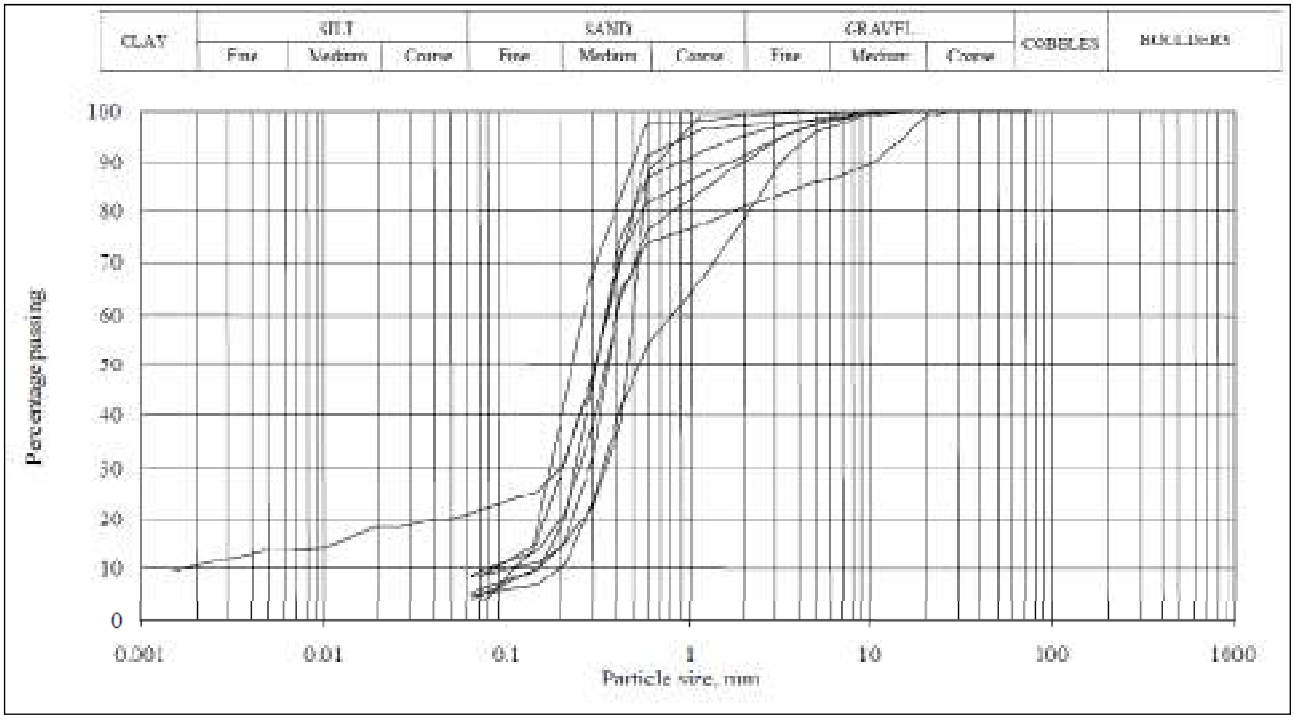
[1] $CU = D_{60}/D_{10}$ / $CC = D_{30}^2/(D_{60}xD_{10})$

[2] Very few values up to 0.3 mm, and some down to 0.002 m, scattered with depth – see Graph D.11 in present Appendix D

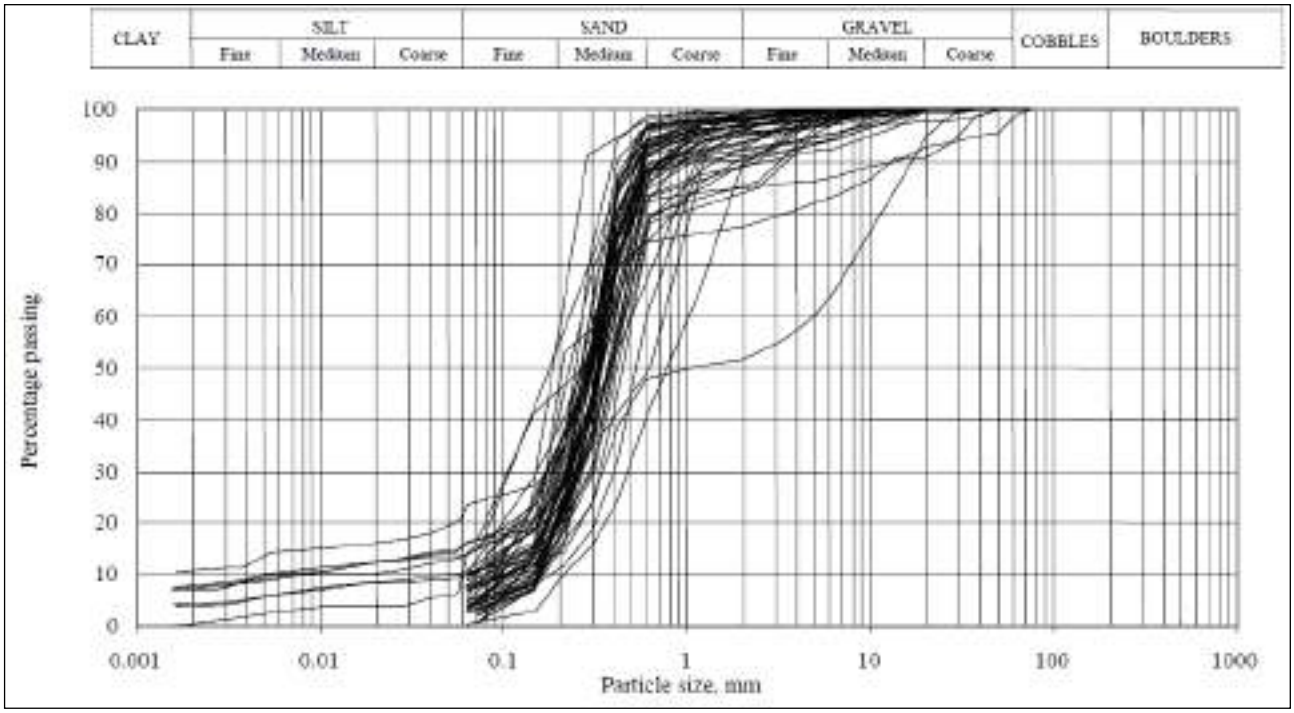
[3] Five values less than 0.1 mm, around 0.03 mm

[4] % passing at 2µm: 8% (fine sands) to 55% (sandy clay), with average range from 10% to 30%

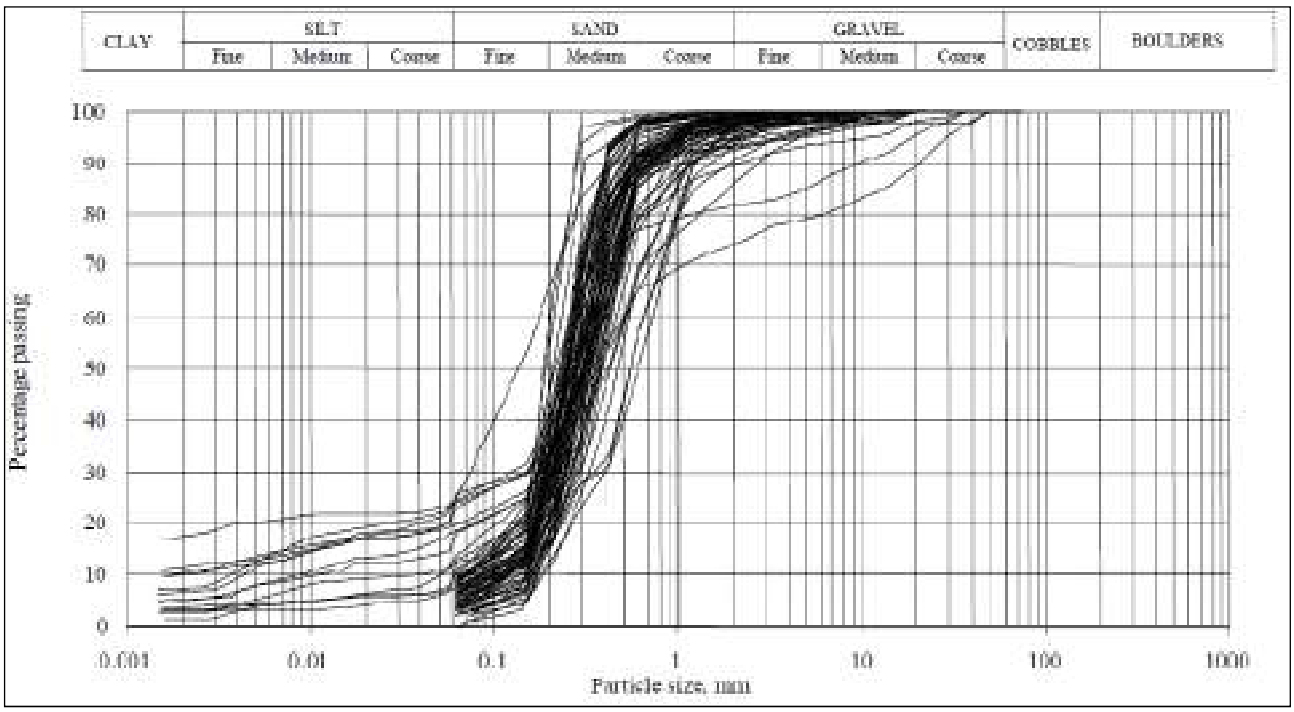
GRAIN SIZE DISTRIBUTION CURVES IN CRAGS



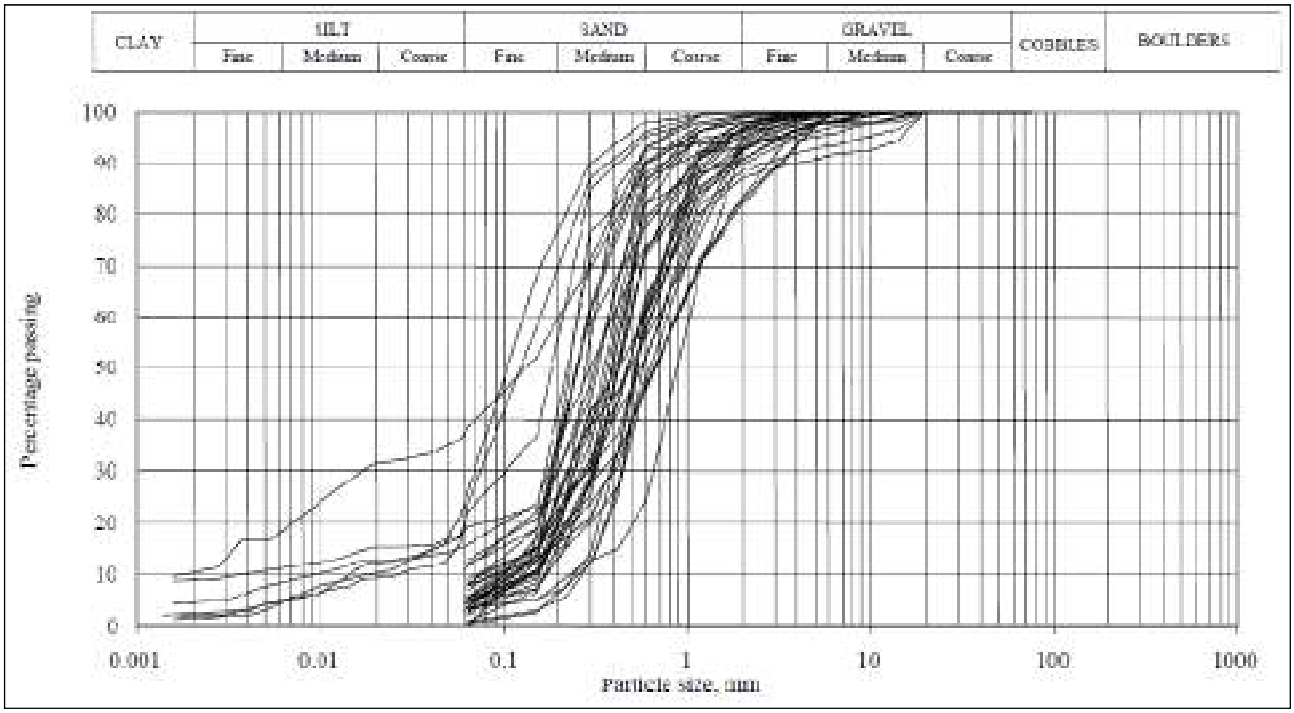
Graph D.6: Grain size distribution in Crag – Above 0m AOD ([SIZ25])



Graph D.7: Grain size distribution in Crag – From 0m to -10m AOD ([SIZ25])



Graph D.8: Grain size distribution in Crag – From -10m to -20m AOD ([SIZ25])

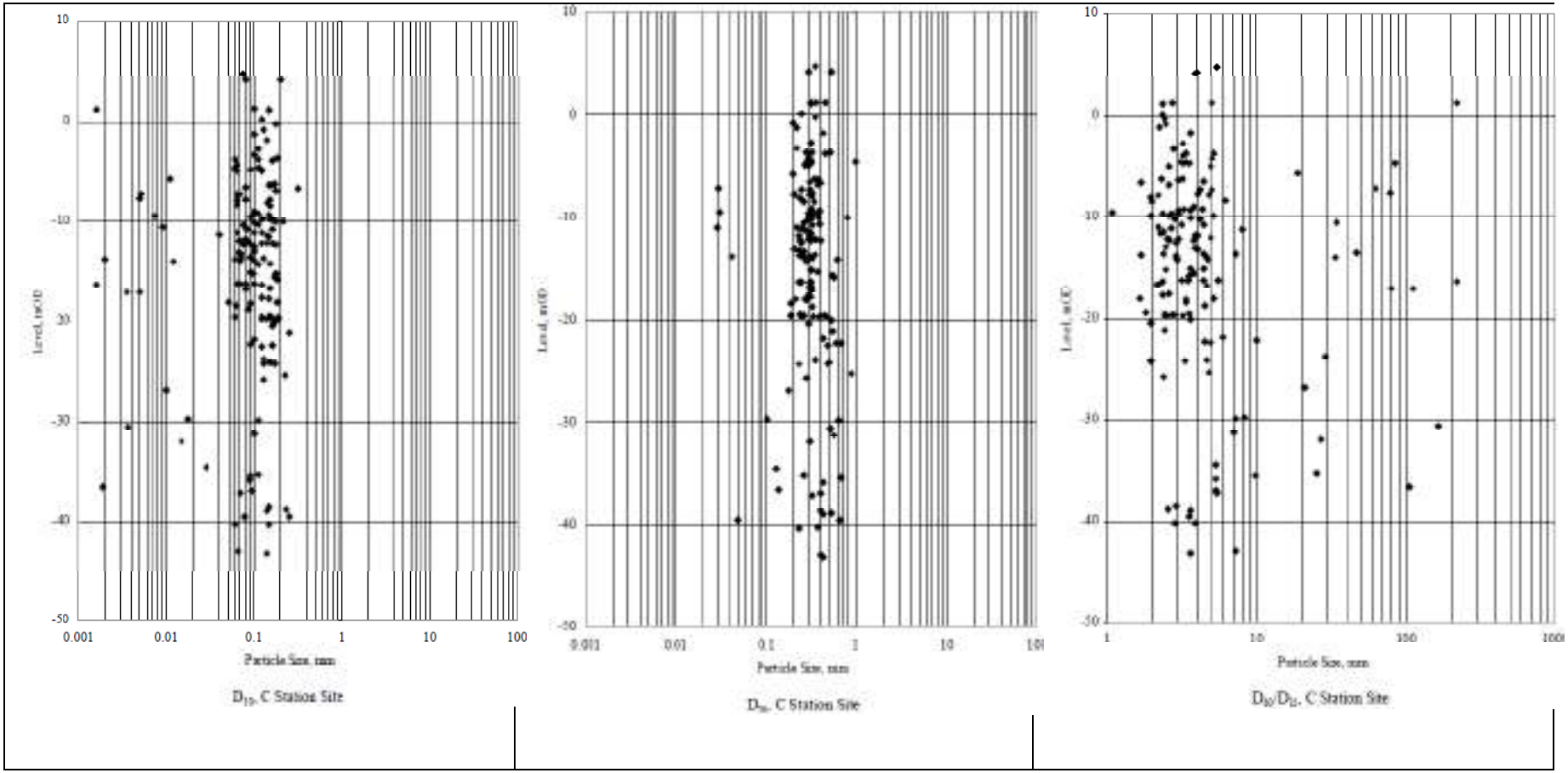


Graph D.9: Grain size distribution in Crag – Below -20m AOD ([SIZ25])

GRAIN SIZE DISTRIBUTION CURVES IN LOWER LONDON TERTIARIES



Graph D.10: Grain size distribution in London Tertiaries ([SIZ25])



Graph D.11: Granular parameters vs. Reduced level AOD in Crags : D10, D50 and CU (=D60/D10) ([SIZ25])

D.3.2. Fine content

Are concerned Recent Deposits, and deep clayey formations, i.e. London Clay and Lower London Tertiaries (including sandy sub-strata).

	Fine content (for fraction < 400 µm)			
Soil	**Liquidity limit LL (%)**	**Plasticity Index IP (%)**	**Consistency Index CI**	**Classification with BS5930**
Recent Deposit - Clay	83 % [47 to 119]	43 % [18 to 75]	0.28 [0.08 to 0.72]	Mainly MV to CV
Recent deposit - Peat	347 %[1] [146 to 597]	114 %[2] [42 to 262]	0.69[3] [0.09 to 1.59]	Outside Cassagrande graph
London Clay	72 % [53 to 100]	42 % [31 to 57]	0.93 [0.78 to 1.05]	Mainly CV
L.L.T. Sandy[4]	58 % [40 to 95]	35 % [19 to 58]	1.0 [0.92 to 1.32]	CI to CH
L.L.T. Clayey	150 % [136 to 177]	109 % [96 to 142]	1.00 [0.96 to 1.06]	Outside Cassagrande graph

Table D.3: Values for fine contents parameters

D.3.3. Relative density

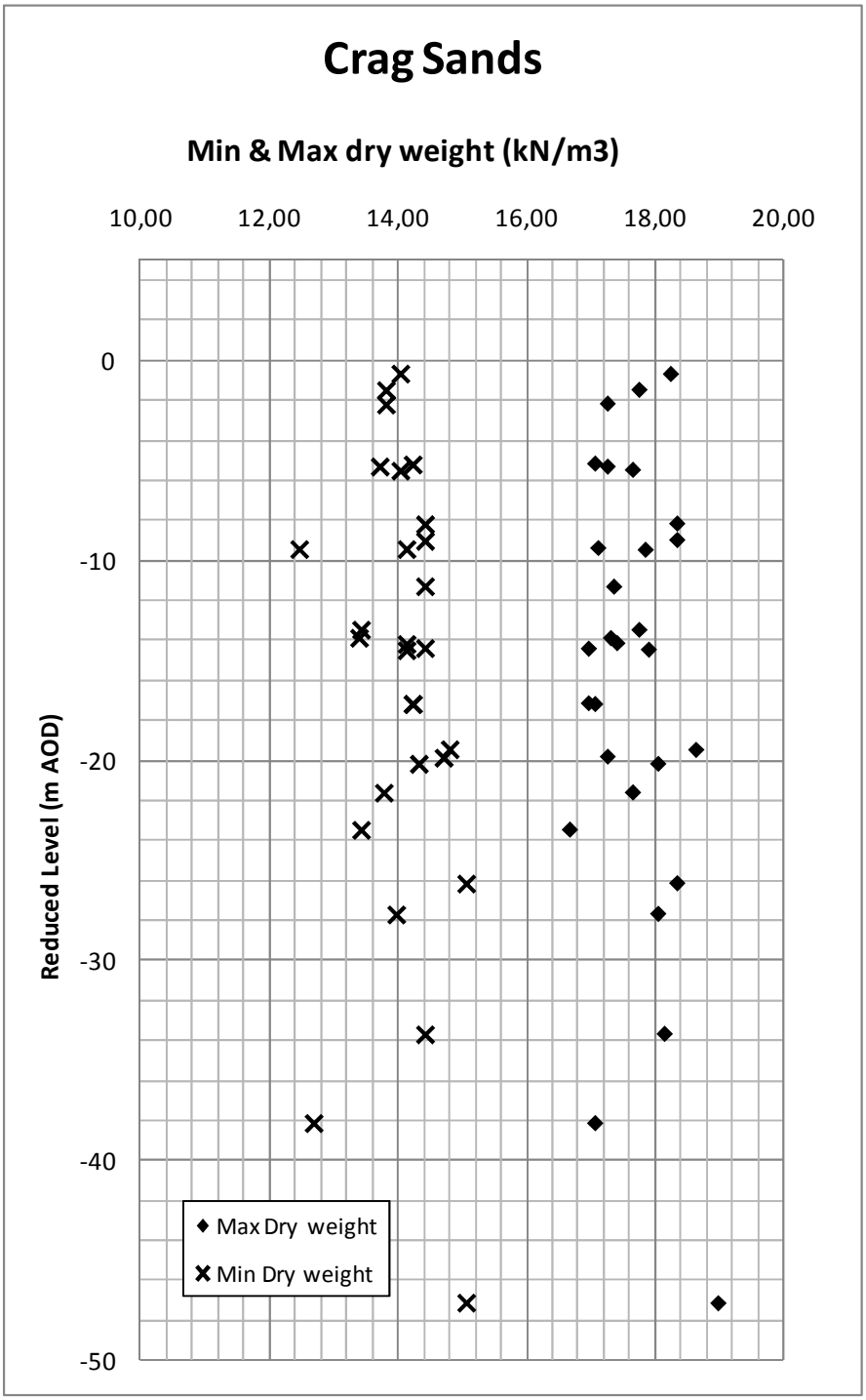
Soil	e_{min}	e_{max}	Dr (%)
Crag 1	0.48 [0.43 to 0.54]	0.87 [0.81 to 1.11]	47 % [37 to 60 %][5]
Crag 2	0.48 [0.43 to 0.58]	0.85 [0.74 to 0.96]	76 %[6] [65 to 98 %]
Crag 3	0.45 [0.41 to 0.55]	0.87 [0.77 to 1.08]	46 %, but only 3 values : 27%, 35% and 75%

Table D.4: Values for relative density parameters ([SIZ07])

Distribution of Min and Max density in Crags vs. Reduced level is plotted in Graph D.12.

These results seem quite low compared to N_{SPT} results: this observation raises doubts on the quality of those laboratory results and sampling on tested material.

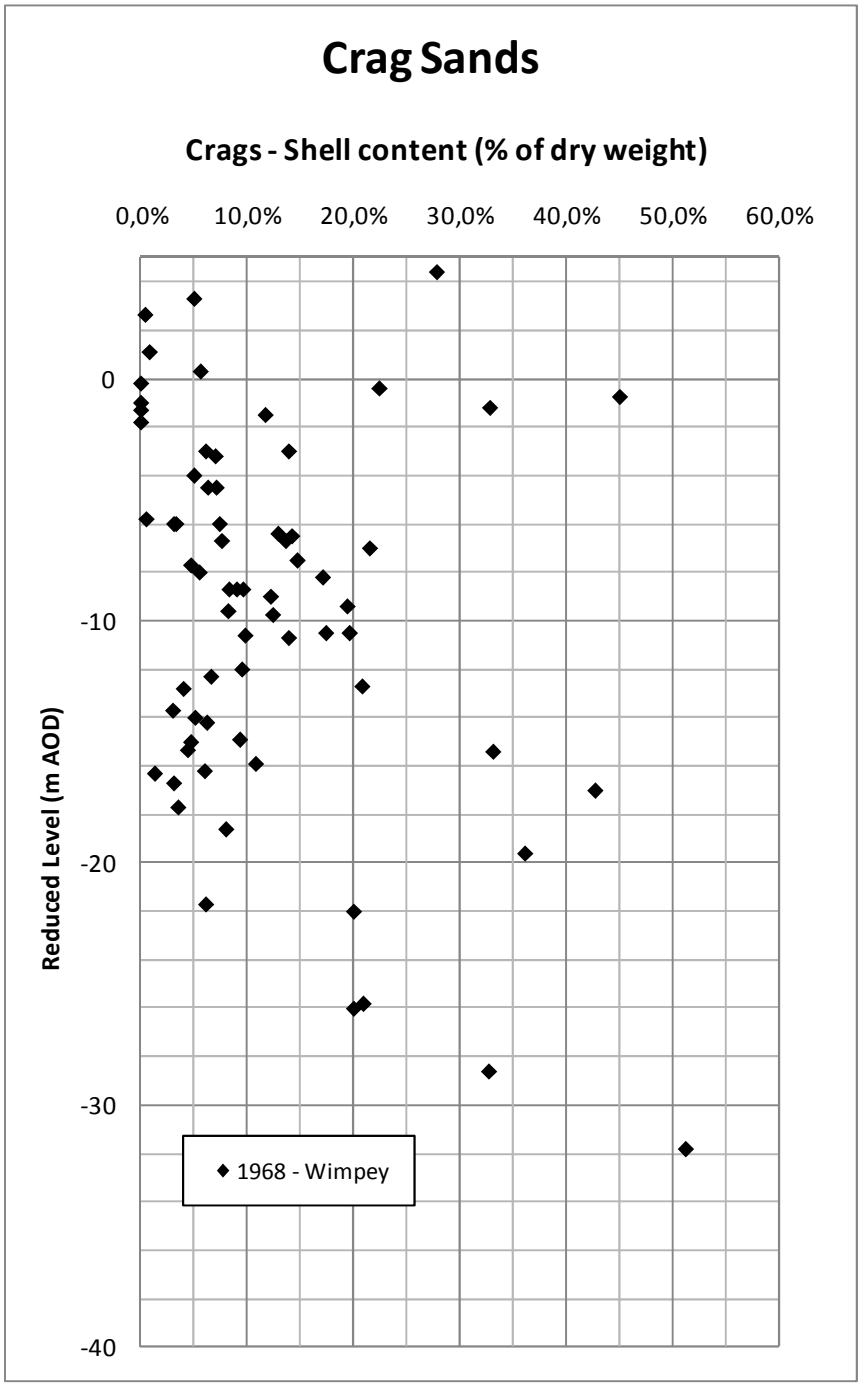
[1] Standard deviation ≈ 133 %
[2] Standard deviation ≈ 49 %
[3] Standard deviation ≈ 0.43
[4] Distinction between Sandy and Clayey LLT is made upon IP values; altimetric limit is quite heterogeneous, as few sandy faces are met until -80 m AOD, while clayey ones have been put in evidence from -71 m AOD and below.
[5] Except one value of 24 % at -0.7m AOD.
[6] Except 2 values : 10 % at -19.5m AOD (non-realistic natural dry density), and 47 % at -26.2m AOD that may be related to Crag 3



Graph D.12: Min and Max density in Crag Sands vs. Reduced level ([SIZ07])

D.3.4. Shell content

Measurements of shell content in sand samples have been led in [SIZ05], and involve Crag deposits on Sizewell B site, from +5 to -32m AOD. Distribution vs. reduced level is shown in **Erreur ! Source du renvoi introuvable.**, in terms of percentage of dry weight of material.



Graph D.13: Shell content in Crags vs. Reduced level ([SIZ05])

D.3.5. Derived from in-situ tests

Complementary approach has been conducted regarding the Crag deposits, in order to differentiate their faces and to locate in a better way the limits between sub-stratums. In-situ test results have been used, with CPT test profiles (issued from [SIZ09] and [SIZ21]).

[SIZ09] results are valuable as this deep CPT, undertaken with pre-drilling to penetrate cemented layers, is the only one of that type that reached London Clay and Lower London Tertiaries formations.

Soil types can be derived from cone tip resistance (qc) and friction ration (Fr %), using two methods: Robertson correlations[1], and Schmertmann abacus[2].

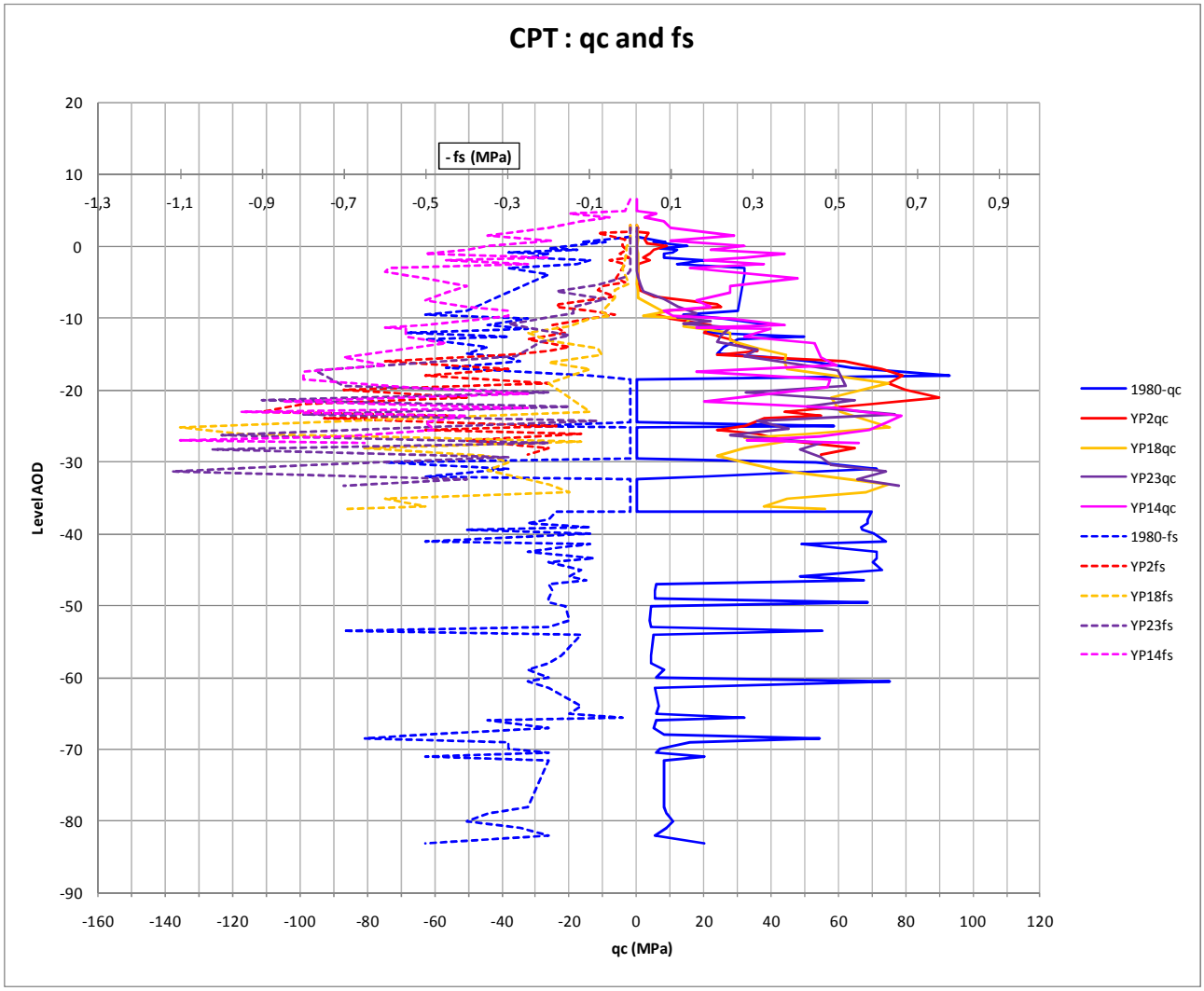
Four CPT profiles (YP2A, YP14, YP18 and YP23) issued from [SIZ21] have been redrawn, so as to plots qc and Fr values on Schmertmann abacus (see Graph D.14 to Graph D.17 below).

In addition, Robertson classification has been applied on same CPT test, so that to show soil type variation with depth.

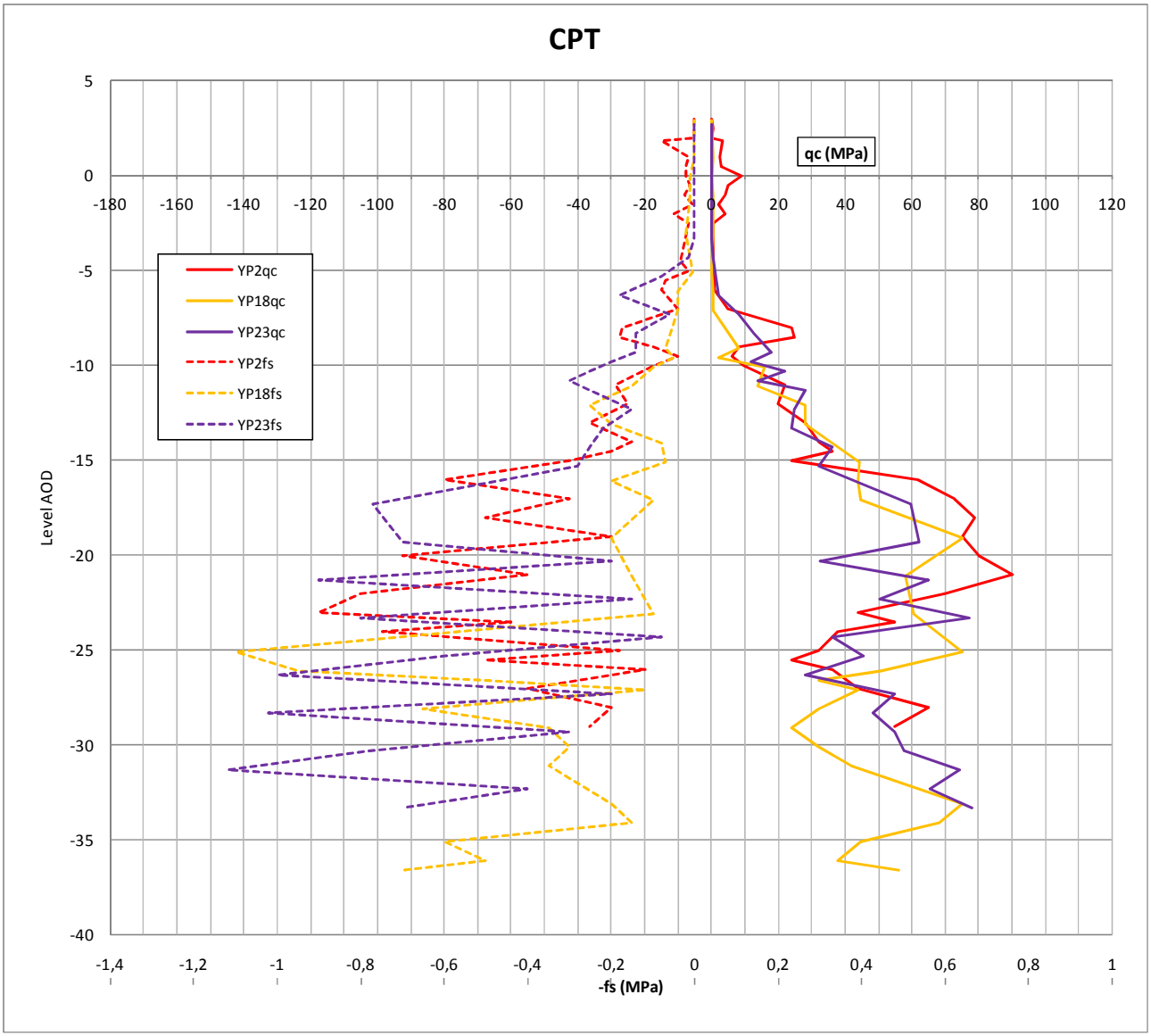
Those relationships confirm that nature of Crag ranges from shelly sands to slightly silty sand (dots close to $R_f \approx 1.5$ % or more on Schmertmann abacus), dense to very dense, especially below – 10 m AOD.

[1] Robertson P.K. – *Soil classification using the cone penetration test*, Canadian Geotechnical Journal (46: 1-19), 1990

[2] Schmertmann J.H. – *Guidelines for cone penetration test performance and design – US Department of Transportation,* Federal Higway Administration, Washington DC, 1978

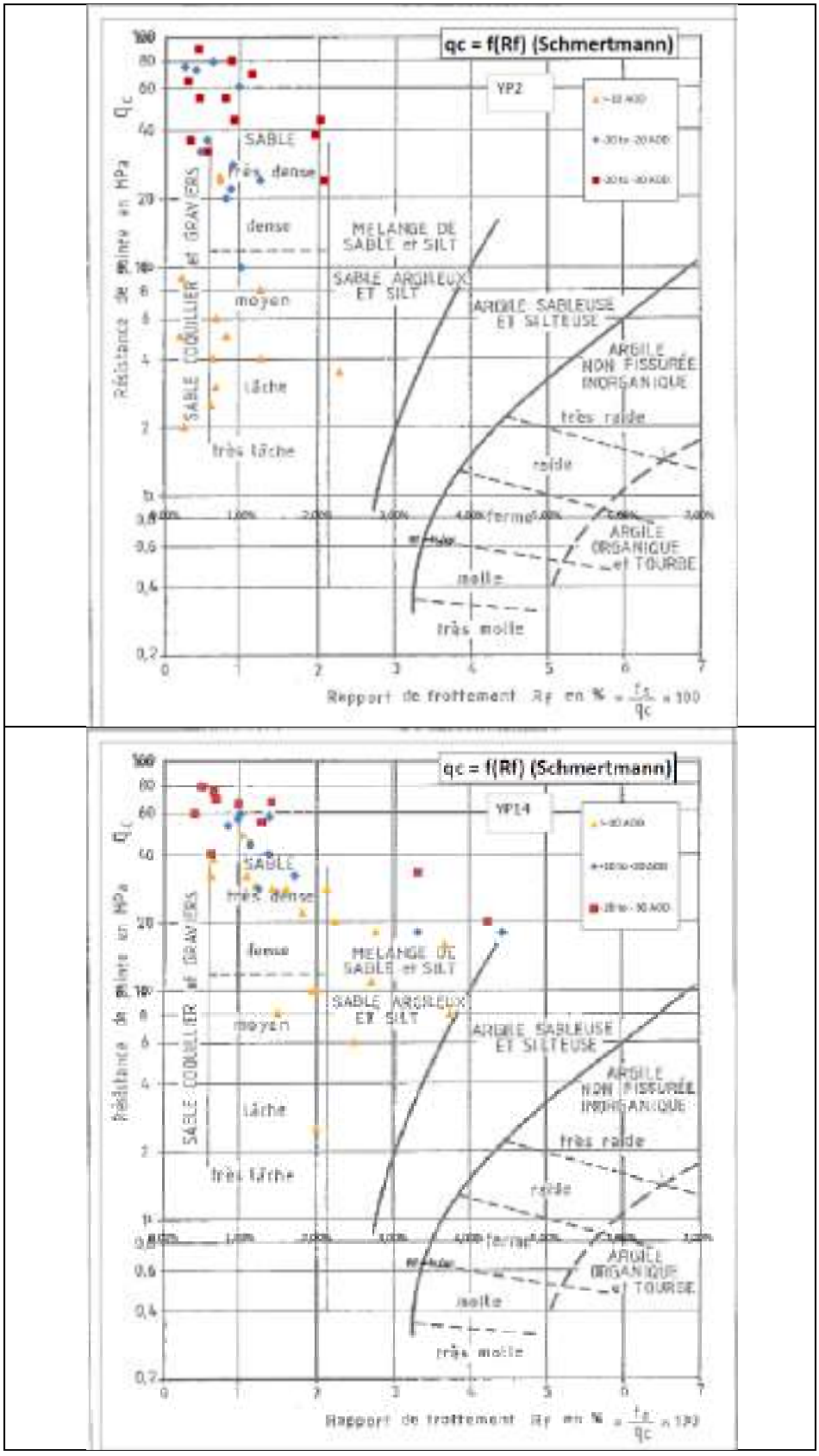


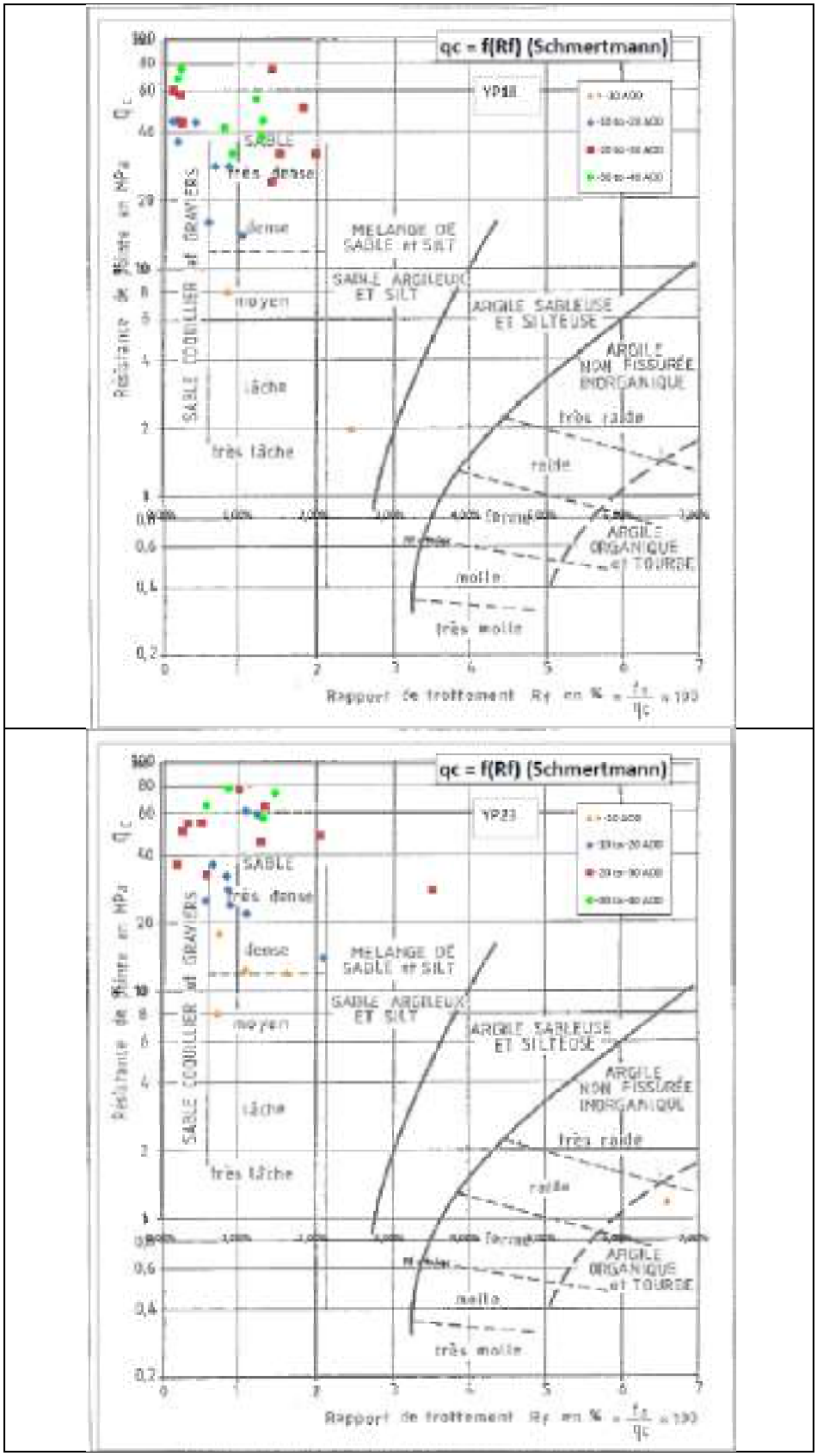
Graph D.14: Plot of some CPT in-situ test ([SIZ09] and [SIZ21]), with deep CPT



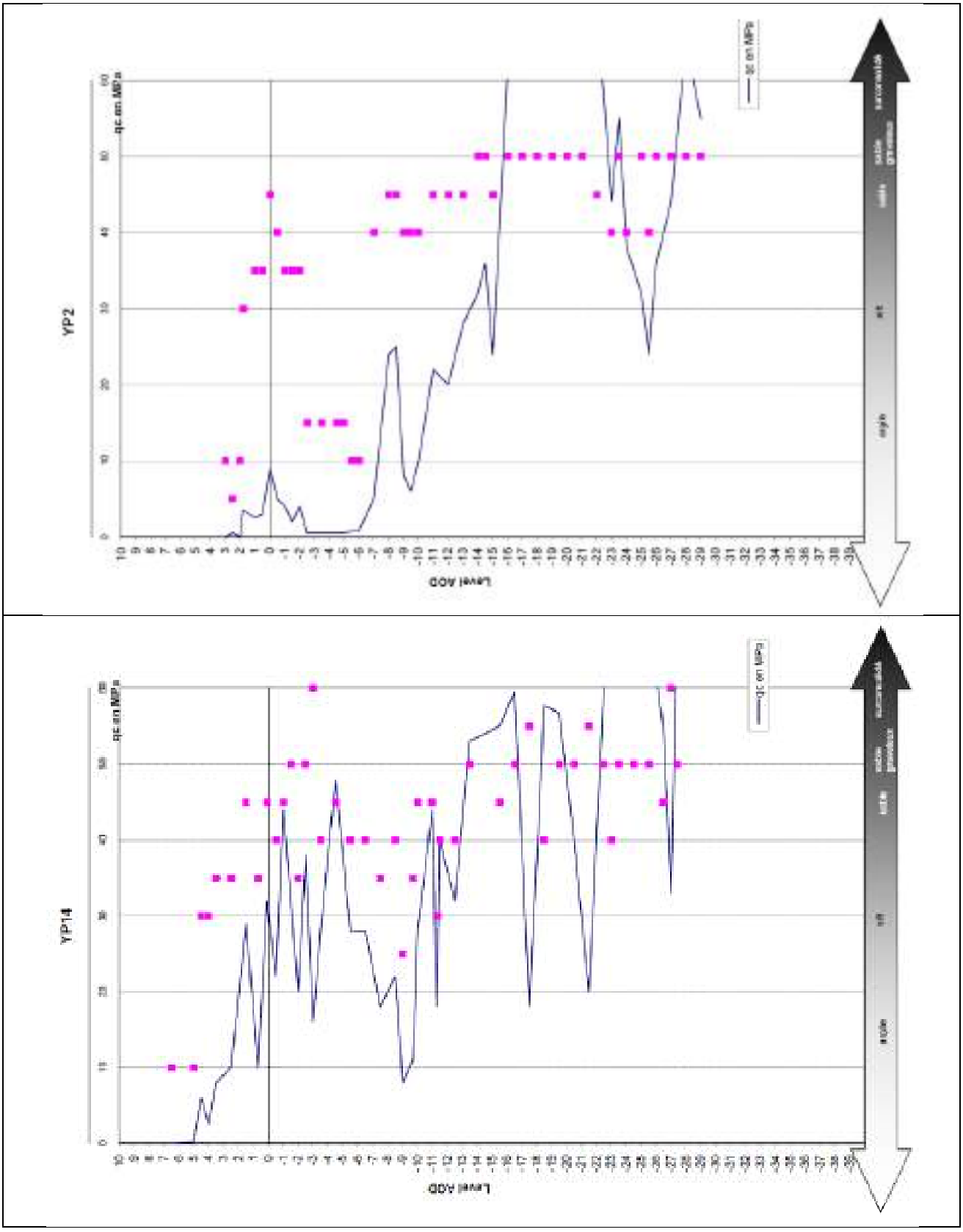
Graph D.15: Details of CPT tests in Crag (upper than -40 mAOD) ([SIZ21])

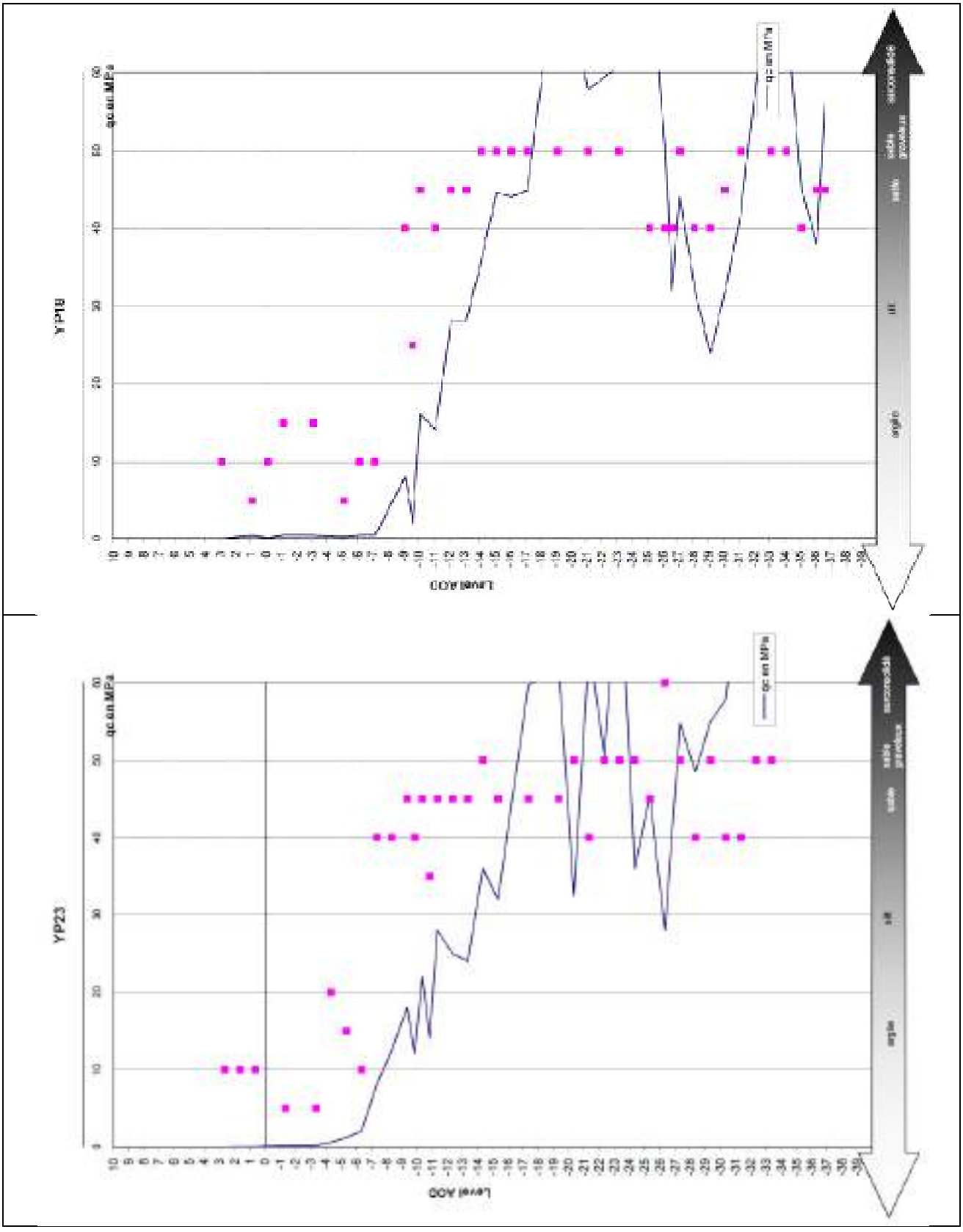
Graph D.16: Schmertman abacus for 4 CPT results (YP2A, YP14, YP18 and YP23)




qc = f(Rf) (Schmertmann)
YP18
SABLE
très dense
dense
moyen
lâche
très lâche
SABLE COQUILLIER et GRAVIERS
MELANGE DE SABLE et SILT
SABLE ARGILEUX ET SILT
ARGILE SABLEUSE ET SILTEUSE
ARGILE NON FISSURÉE INORGANIQUE
très raide
raide
ARGILE ORGANIQUE et TOURBE
molle
très molle
Rapport de frottement Rf en % = fs/qc x 100
qc = f(Rf) (Schmertmann)
YP23
SABLE
très dense
dense
moyen
lâche
très lâche
SABLE COQUILLIER et GRAVIERS
MELANGE DE SABLE et SILT
SABLE ARGILEUX ET SILT
ARGILE SABLEUSE ET SILTEUSE
ARGILE NON FISSURÉE INORGANIQUE
très raide
raide
ARGILE ORGANIQUE et TOURBE
molle
très molle
Rapport de frottement Rf en % = fs/qc x 100

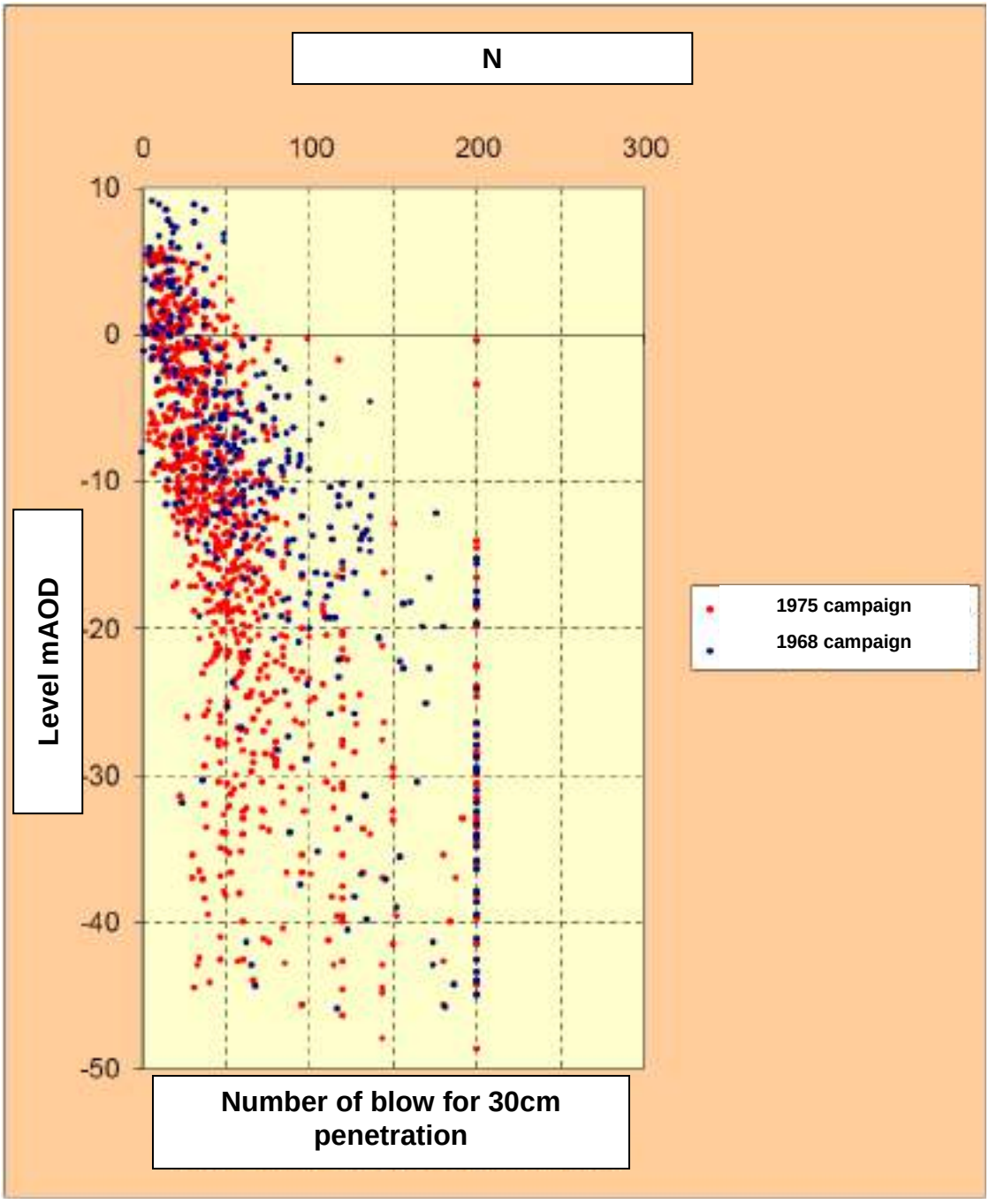
Graph D.17: Robertson correlations applied on 4 CPT results (YP2A, YP14, YP18 and YP23)




YP19
qc en MPa
Level AOD
YP23
qc en MPa
Level AOD

APPENDIX D.4. IN-SITU SPT TEST RESULTS

Many SPT test were done among the different historical campaign on C site. Synthesis and discussion on associated results have been led in [SIZ25] and [Ref.4]. The most reliable data is taken from [SIZ05] and [SIZ07] factual reports, for which N values of 30 cm penetration test results have been plotted in **Erreur ! Source du renvoi introuvable.** below.



Graph D.18: SPT test results vs. Reduced level AOD – values from [SIZ05] and [SIZ07]

Typical ranges of SPT results in Crags are as following:

- From Ground Level to -5m AOD: N = [5 ; 40]
- From -5m to -12/-13m AOD: N = [10 ; 80]
- From -12/-13m to -17/-18m AOD: N = [20 ; upper than 100]
- Below -17/-18m AOD: N = [30 ; upper than 100]

It should be quoted here that a local correlation between STP test and CPT test results have been defined in [SIZ25], resulting from previous analysis in several geotechnical engineering documents listed. This relationship has been defined considering Sizewell C site local context, with analysis of several SPT and CPT tests in Crag deposits.

This local relationship to convert the cone resistance of CPT test to SPT N value is: $N = \frac{q_c}{4.6}$

where q_c is kgf/cm².

Then, with q_c expressed in terms of MPa, the relationship becomes: $\boldsymbol{q_c = 0.451\ N}$

Using this correlation, liquefaction analysis was led on Spent Fuel building on B site ([SIZ25]), by changing CPT q_c values in correlated SPT N values, and then applying usual liquefaction assessment methods based on SPT tests.

APPENDIX D.5. SHEAR RESISTANCE PARAMETERS

D.5.1. For Peat & Clay

A detailed analysis of Peat & Clay behaviour has been developed in [Ref.3] (Ceidre/TEGG Technical Position on Sea-protection foundation, 2013), with considerations on undrained shear strength of this layer.

Measurements of c_u are available from [SIZ02] and [SIZ21], based on undrained triaxial tests, with also a correlation approach[1] from identification tests to asses undrained shear strength.

[Ref.3] shows a quite good reliability between correlated c_u and direct measurements with undrained triaxial test. It also shows that for Peat & Clay, the consolidation brought by ground level rising has a direct impact on shear strength. It's the case for Peat & Clay under existing sea protection, protection that was not present at drilling time for [SIZ02] and [SIZ21] tests, which means that undrained shear strength measurements should now be improved, taking into account the arise of 3 to 7m of ground level.

Table D.5 shows results from [Ref.3], with:

- "Measure of Apparent cohesion (UU test)": these are direct results from undrained triaxial test led on material, at a time (1959) with an average ground level around +2 to +3m AOD, without effect of the load of the sea protection that now exists in 2013.
- "C_u from Skempton – drilling time": these are correlated values for c_u from plasticity index and consolidation stress assessed with topographical conditions in 1959 (no sea protection).
- "C_u from Skempton after consolidation under existing ground level": these are correlated values for c_u, now taking into account the effect of consolidation under the rise of 3 to 7 m of ground level between 1959 and 2013.

Campaign		GL at drilling time (mAOD)	Test level (mAOD)	Test depth (m)	2013 Ground Level (mAOD)	PI (%)	Apparent cohesion (UU test) (kPa)	Cu from Skempton - drilling time (kPa)	Cu from Skempton after consolidation under existing ground level (kPa)
1959ADSCO	BH7	2,77	-3,3	6,1	10,0	43	30	24	63
1959ADSCO	BH7	2,77	-5,4	8,2	10,0	21	28	19	46
1959ADSCO	BH8	2,16	-1,8	4,0	9,8	21	10	13	42
1959ADSCO	BH11	3,05	-5,2	8,2	6,0	-	97	-	-
1959ADSCO	BH12	2,44	-2,7	5,1	8,2	138	62	46	117
1959ADSCO	BH12	2,44	-4,2	6,6	8,2	133	34	49	118
1995SM	YG11	3,05	-3,1	6,1	7,0	-	35	-	-
1995SM	YG11	3,05	-4,7	7,7	7,0	47	24	26	49
1995SM	YG15	3,05	-4,0	7,0	5,1	65	39	35	49

Table D.5: Analysis made in [Ref.3] on assessment of undrained shear strength.

It could be sum up that:

- For Peat and clay among main site and under the average ground level, undrained shear strength spreads from 20 to 90 kPa.
- For Peat and clay below the 2013 existing sea protection, the effect of consolidation leads to an increase of 10 to 15 kPa, which means a range of [35 – 100 kPa] for undrained shear strength c_u.

[1] Skempton relationship: $c_u = (0.11 + 0.0037\ PI) \times \sigma'_c$, with PI=Plasticity index and σ'_c is the the consolidation stress.

D.5.2. For Crags

Laboratory results are available in [SIZ02] for Crag Sands, with shear box test results. Shear strength parameters are given in terms of effective strength.

Campaign	BH & Sample No	Depth (m)	Level mAOD	Sh.Box : Cohésion c (kPa)	Sh.Box : angle of friction φ (°)
[SIZ02] - 1959 - LGALtd	14-115	9,14	-6,04	0	40
	14-118	12,19	-9,09	0	37
	14-123	18,33	-15,23	34,4	28
	14-125	21,38	-18,28	0	31,5
	14-126	24,43	-21,33	0	37
	14-128	27,42	-24,32	20,6	33
	14-130	30,15	-27,05	0	39

Table D.6: Shear box test results on Crags – Effective strength ([SIZ02])

Two samples above show a non-null effective cohesion: either test has been carried too fast (with a measured apparent cohesion due to a non perfect drainage of the sample), or the sample belongs to a clayey layer of Crags. In this last case, effective cohesion could be representative of the true behavior of such a cohesive thin bed of clayey sand. But it cannot be appropriate for the assessment of the mass strength of the whole strata of Crags.

In [SIZ25], recommended design values for the effective shear strength parameter φ' are given for Crag sands (Table D.7), with consideration on the fact that it is representative of the mass strength that could be mobilized.

Level (m AOD)	φ' (degrees)		
	Lower bound	Best estimate	Upper bound
> -2,5 AOD	27	30	33
-2,5 to -10 AOD	33	37	42
below -10 AOD	35	40	45

Table D.7: Effective shear strength in Crags – Recommended values ([SIZ25])

D.5.3. For London Clay and Lower London Tertiaries

Considering effective shear strength in Tertiaries layers (London Clay, and lower London Tertiaries), [SIZ25] presents the recommended design values for c' and φ' that are relevant on Sizewell C site.

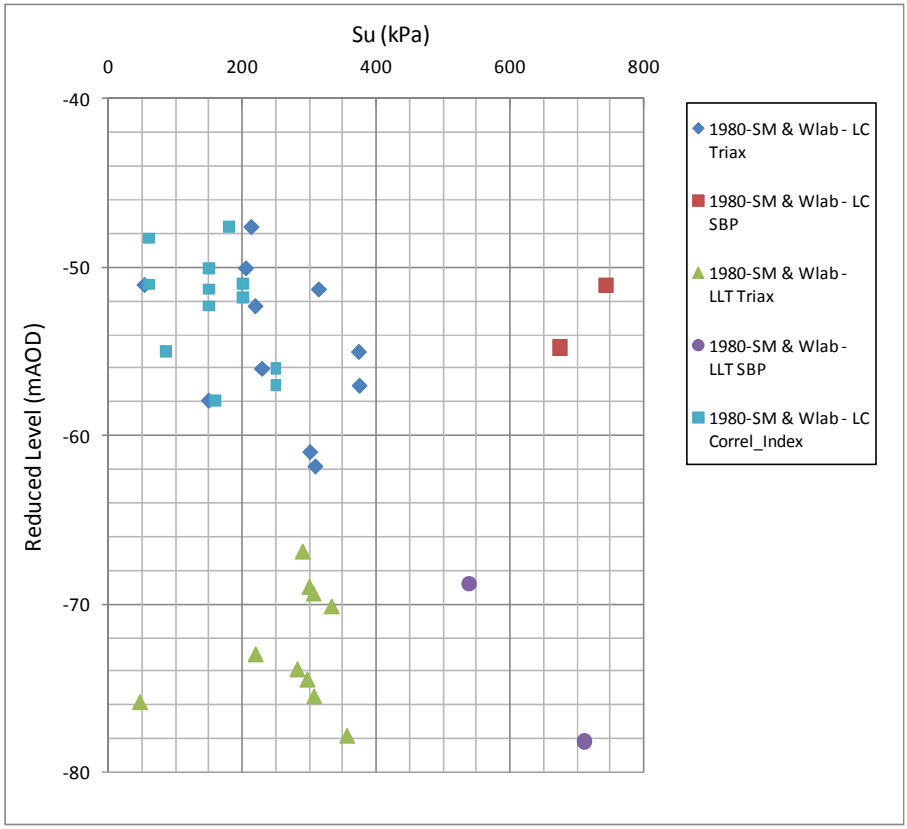
Stratum	c' (kPa)	φ' (degrees)
London Clay	75	25
LLT: Woolwich & Reading Beds	75	27
LLT: Thanet Clay	150	22

Table D.8: Effective shear strength parameters in Tertiaries layers – Recommended design values ([SIZ25])

For undrained shear strength, different results from [SIZ10] are analysed here. Available data from this source are:

- Undrained triaxial tests,

- Self-boring pressuremeter (SBP),
- Laboratory identification tests, which can be used for correlation purpose.



Graph D.19: Undrained shear strength in Tertiaries layers – results from [SIZ10]

As for effective strength, c_u design values are recommended in [SIZ25]:

Stratum		Cu (kPa)		
		Lower bound	Best estimate	Upper bound
London Clay	Top	200	280	550
	Base	220	320	650
LLT: Woolwich & Reading Beds	Top	220	330	480
	Base	220	380	570
LLT: Thanet Clay	Top	200	300	400
	Base	240	450	700

Table D.9: Undrained shear strength in Tertiaries layers – Recommended values from [SIZ25]

The comparison between Graph D.19 and Table D.9 shows that some c_u derived from laboratory tests are less than lower bound from the recommended design values from [SIZ25]. The fact is that in overconsolidated clays like there, the effect of fissuring, remoulding and stress-release on samples has a direct impact on the measured shear strength, which can decrease eventually in great proportions, and so be widely under-estimated.

APPENDIX D.6. STATIC DEFORMATION PARAMETERS

D.6.1. Static deformation modulus

For Static deformation modulus, the main source is [SIZ15], for which analysis has already been made in Ceidre/TEGG Technical Note [Ref.4].

[SIZ15] proposes recommended values for static deformation parameters in C Site soils, based on a back analysis of Sizewell A settlements measurements and comparison with in-situ and laboratory test data.

It must be noticed that deformation modulus given in [SIZ15] are undrained modulus E_u (immediate settlements): they must be adapted for clayey strata, to assess the long term modulus (E_∞), with a proposed ratio of E_u /2.5 (in conformity with [SIZ15] recommendation). For Woolwich and Reading Beds, as this sub-stratum mainly consists in silts and sands, one could suppose that it would show a rapid drained response to any increase of stress due to the NI loading. Actually, its intercalation between London Clay and Thanet Clay, two very low permeability strata, would lead to an undrained behaviour for W&R Beds, as pore water wouldn't be able to find efficient draining paths (only horizontal drainage could be expected, with very long distances to reach sandy layers of W&R beds unaffected by loads of Nuclear Islands, far away from main site). Thus, this modification is applied to London Clay and whole Lower London Tertiaries.

Few adaptations have been made also in [Ref.4] on deformation modulus values issued from [SIZ15], after comparison with various correlation and others investigation campaigns. Proposed values for long term modulus $E_{\infty BA}$[1] are shown in Table D.10. This table exhibits some differences with Graph D.20 that plots recommended values for E on Sizewell B vs. reduced level.

Moreover, the [SIZ15] document clearly says that the back analysis of Sizewell A settlements was made on a construction period for which the load has already exceeded the weight of excavated ground (q_0). This means that modulus $E_{\infty BA}$ can be used for calculation of settlements brought by the net overload $q-q_0$ (i.e. the part of load that is beyond q_0).

It must be reminded here that, because of the deep excavation expected in existing ground (mean excavation around -10.5m AOD inside cut-off wall perimeter, for a mean ground level around +1 to +3 m AOD), foundation strata will behave with different modulus values, depending of the ratio of construction load to pre-existing ground weight:

- As long as construction load will be below the pre-existing ground weight (q_0), soils will settle in respect with the re-load modulus value (E_R).
- As soon as construction load will be beyond q_0, value of first loading modulus (E) should be considered, which is lower than E_R.

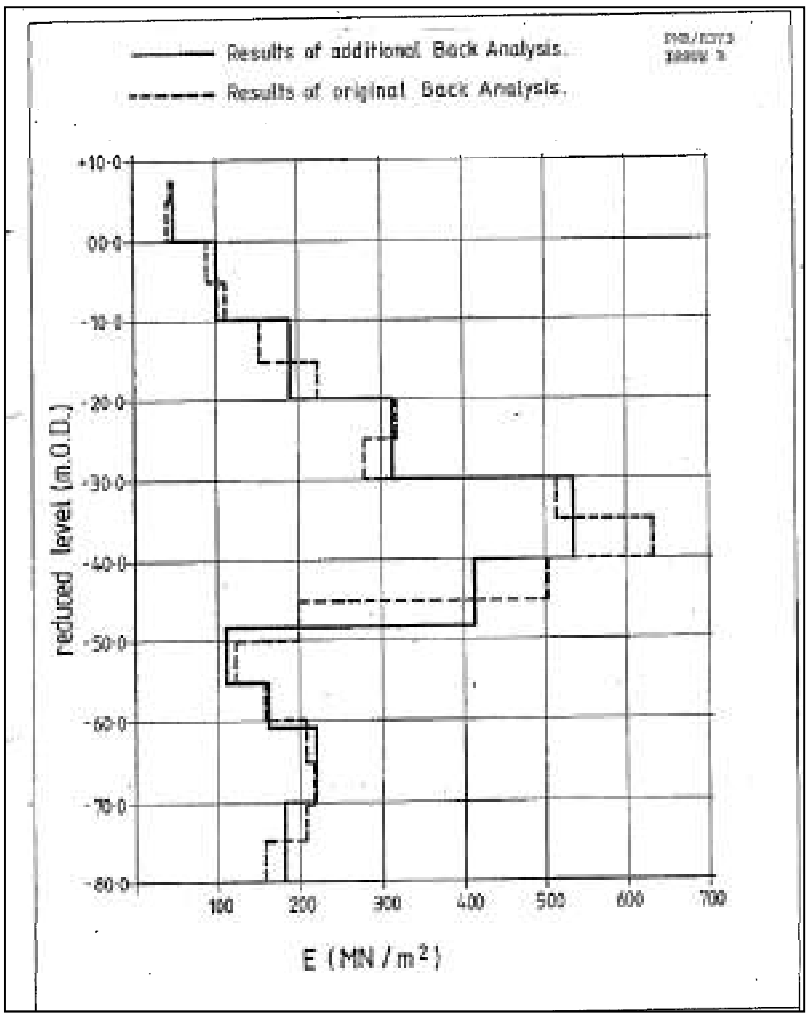
Ratio E_R/E typically ranges from 3 to 6, but can also fall to 1.5 or 2 in case of high disturbance of the base of excavation. It is also less important in the case of highly overconsolidated soils (that have known an important natural pre-loading).

As a result, by considering that Sizewell C platform will be at +6.4m AOD, with average existing ground at +3m AOD and lower base of the NI raft at -10.5m AOD, it can be assessed that a third of the final load of the raft will be involved in the reloading settlement (with modulus of reloading E_R), while the remaining last two third will make the soil settling with the modulus of first loading $E_{\infty BA}$. With a hypothesis of $E_R/E = 3$, the corresponding calculated global modulus E_∞ is then equal to: $E_\infty \approx 1.28\ E_{\infty BA.}$

[1] « BA » for Back Analysis

Strata	Bulk density (kg/m3)	$E_{\infty BA}$ (MPa)	E_{∞} (MPa)	ν_{∞}
Crag deposits			≈ 1,28 x $E_{\infty BA}$	
> -10 AOD	2000	100		0,3
-10 et -20 AOD	2025	160		0,3
-20 to -30 AOD	2100	300		0,3
-30 to -40 AOD	2100	500		0,3
-40 to -45 AOD	2100	400		0,3
London clay	1950	50		0,3
LLT : W&R beds	2100	80		0,3
LLT : Thanet clay	1925	60		0,3
Chalk	2000	3000	3000	0,2

Table D.10: Proposed values for static deformation parameters on Sizewell C, derived from [SIZ15]



Graph D.20: Recommended values for Static deformation modulus on Sizewell B, from back analysis of Sizewell A settlements ([SIZ15]) – Values are for immediate settlement (i.e. undrained)

D.6.2. Consolidation parameters

DEEP CLAY STRATA

This parameters deal with time-dependant deformations for clayey strata, i.e. in London Clay and Thanet Clay from Lower London Tertiaries.

[SIZ15] gives recommended design values for coefficient of compressibility m_v[1], derived from oedometric tests led during the 1980 investigation campaign described in [SIZ10].

Values are:

- London Clay: $m_v = 0.015$ => $E_{oed} = 66$ MPa
- Thanet Clay: $m_v = 0.0125$ => $E_{oed} = 80$ MPa

It should be reminded that value of oedometric modulus is linked to the level of stress applied to the soil, and also depends on the fact that this stress is upper or lower than the preconsolidation stress previously experienced by the material during its history.

UPPER PEAT & CLAY

In [Ref.3] (Ceidre/TEGG Technical Position on Sea-protection foundation, 2013), a brief analysis has been led on compressibility of Peat and Clay in Recent deposits. Table D.11 presents the analysis of test results, taking into account the effect of the stress applied on the sample.

	Peat				Clay			
Stress range	Cc	Cs	Eoed (MPa)	Cv (m/s²)	Cc	Cs	Eoed (MPa)	Cv (m/s²)
50-100 kPa	1,53	0,20	0,34	8,2E-08	0,63	0,10	0,71	1,5E-08
	2,33	0,25	0,34	2,3E-07	0,35	0,03	1,14	5,4E-08
	0,94	0,10	0,43	4,8E-08	0,62	0,09	1,00	2,3E-08
	2,74	0,09	0,29	2,8E-07	0,63	0,08	1,52	4,1E-08
	1,79	0,17	0,50	1,3E-06	0,67	0,07	1,41	8,6E-08
	2,92	0,39	1,22	4,1E-07	0,86	0,12	0,77	1,2E-07
	0,78	0,08			0,81	0,10	0,83	3,8E-08
Geom. Average	***1,68***	***0,16***	***0,46***	***2,3E-07***	***0,63***	***0,07***	***1,02***	***4,4E-08***
200-400 kPa	1,53	0,20	1,08	9,5E-09	0,63	0,10	1,96	1,0E-08
	2,33	0,25	2,22	1,4E-08	0,35	0,03	3,23	5,7E-08
	0,94	0,10	1,41	1,1E-08	0,62	0,09	1,92	1,1E-08
	2,74	0,09	0,83	1,9E-08	0,63	0,08	1,79	1,0E-08
	1,79	0,17	1,23	1,0E-07	0,67	0,07	1,64	1,2E-08
	2,92	0,39	0,83	1,2E-08	0,86	0,12	1,59	2,9E-08
	0,78	0,08	1,28	3,2E-08	0,81	0,10	1,64	1,8E-08
			1,89	2,2E-08				
Geom. Average	***1,68***	***0,16***	***1,27***	***2,0E-08***	***0,63***	***0,07***	***1,91***	***1,7E-08***

Table D.11: Compressibility parameters in Peat & Clay, from analysis in [Ref.3]

Distinction is made in above table between Peat material and Clay material. In fact, the two facies are highly imbricated and cannot be clearly separated from each other. This means that compressibility of the whole stratum should be led by considering a percentage of each facies among the studied thickness and then applying parameters with respect to this percentage.

[1] $m_v = 1/E_{oed}$, where E_{oed} is the oedometric modulus.

From this Table D.11 and also comparison with CPT test correlation, proposed values of compressibility parameters in Peat and Clay where defined in [Ref.3], for feasibility calculation approach (Table D.12).

	Peat	Clay	Whole layer P&C
Stress range	Eoed (MPa)	Eoed (MPa)	Cv (m^2/s)
50-100 kPa	0,3 - 0,4	0,7 - 1,2	3 values : 1E-8 / 5E-8 / 1E-7
200-400 kPa	0,8 - 1,1	1,5 - 2,5	

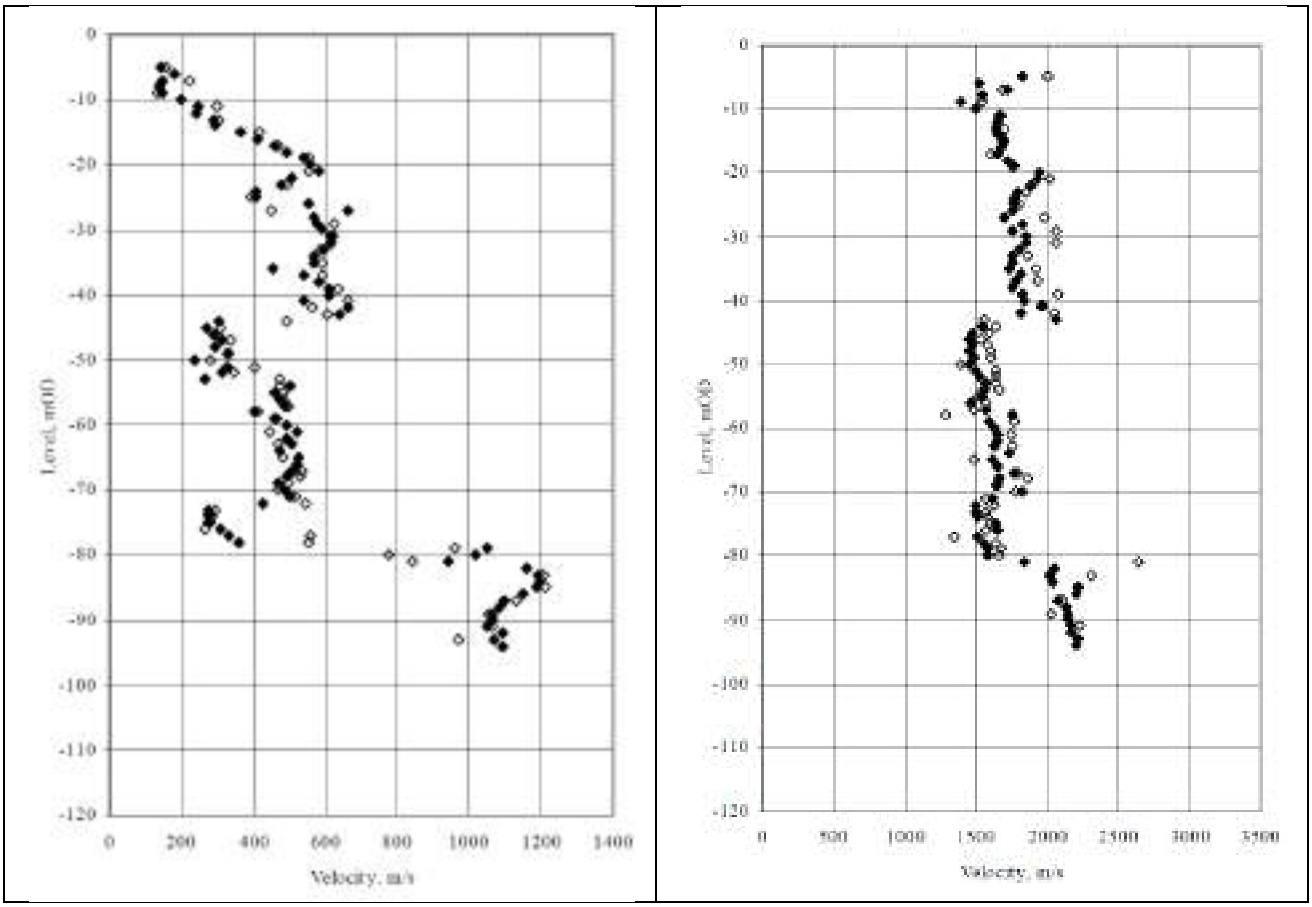
Table D.12: Mean values for compressibility parameters in Peat & Clay (Ref.3])

APPENDIX D.7. DYNAMIC PARAMETERS

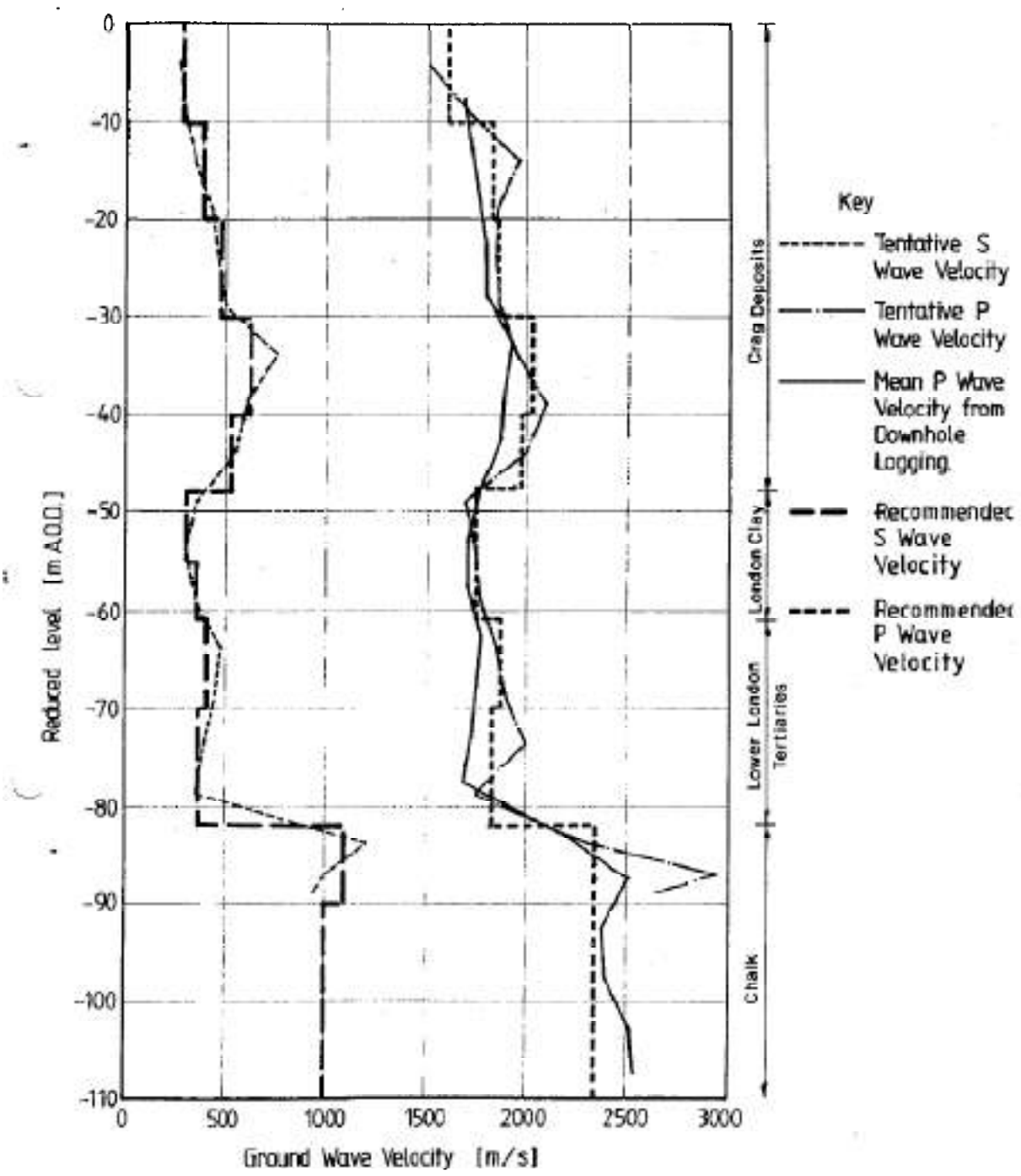
D.7.1. Shear waves and compression waves velocities

Two data sources are useful for shear waves (Vs) and compression waves (Vp) velocities assessment:

- [SIZ16]: for assessment of dynamic parameters in 1985, under **Sizewell B site** (investigations in 1981, from [SIZ10], with down-hole geophysical logging)
- [SIZ25]: for synthetic plot of Crosshole testings made in 1995, on **Sizewell C site** (base data from [SIZ21]).



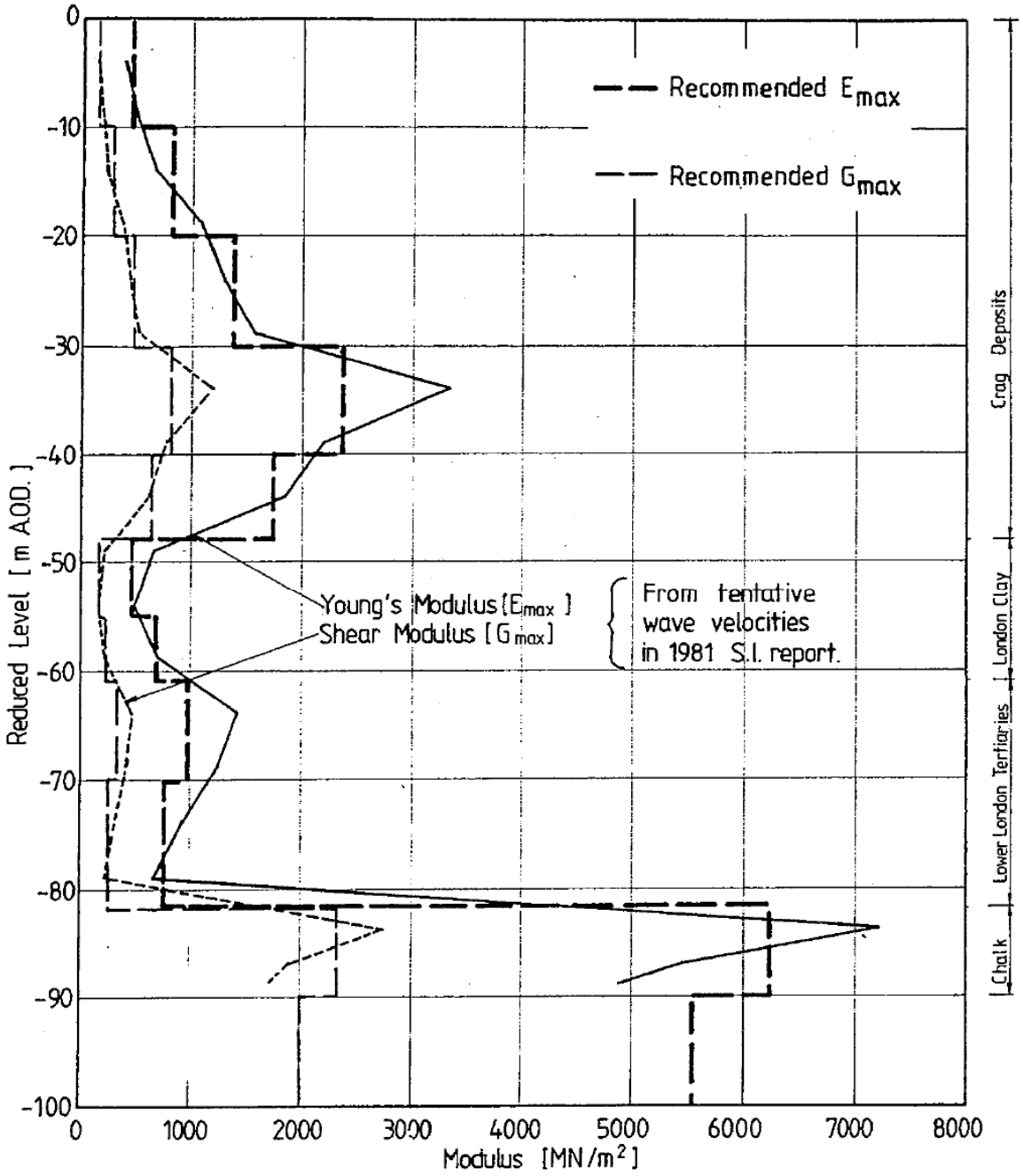
Graph D.21: Waves velocities profile (Shear waves on left – Compression waves on right) vs. Reduced level AOD ([SIZ25])



Graph D.22: Ground waves velocities vs. Reduced level AOD, from Sizewell B site 1981 investigations ([SIZ16])

D.7.2. Small strain modulus

In [SIZ16], recommended values for small strain shear and elastic modulus (respectively G_{max} and E_{max}) are given for Sizewell B site, from upper Crags to deep Chalk (seeGraph D.23). These recommended values are based on a critical analysis of waves velocities measurements made on site, compared to others investigations results (SPT tests, CPT tests, self-boring pressuremeter, laboratory tests). As this method shows good reliability between those different results, recommended values could be trusted. Poisson's ratio for small strain conditions is also estimated.



Graph D.23: Low strain shear and elastic modulus vs. Reduced level AOD ([SIZ16])

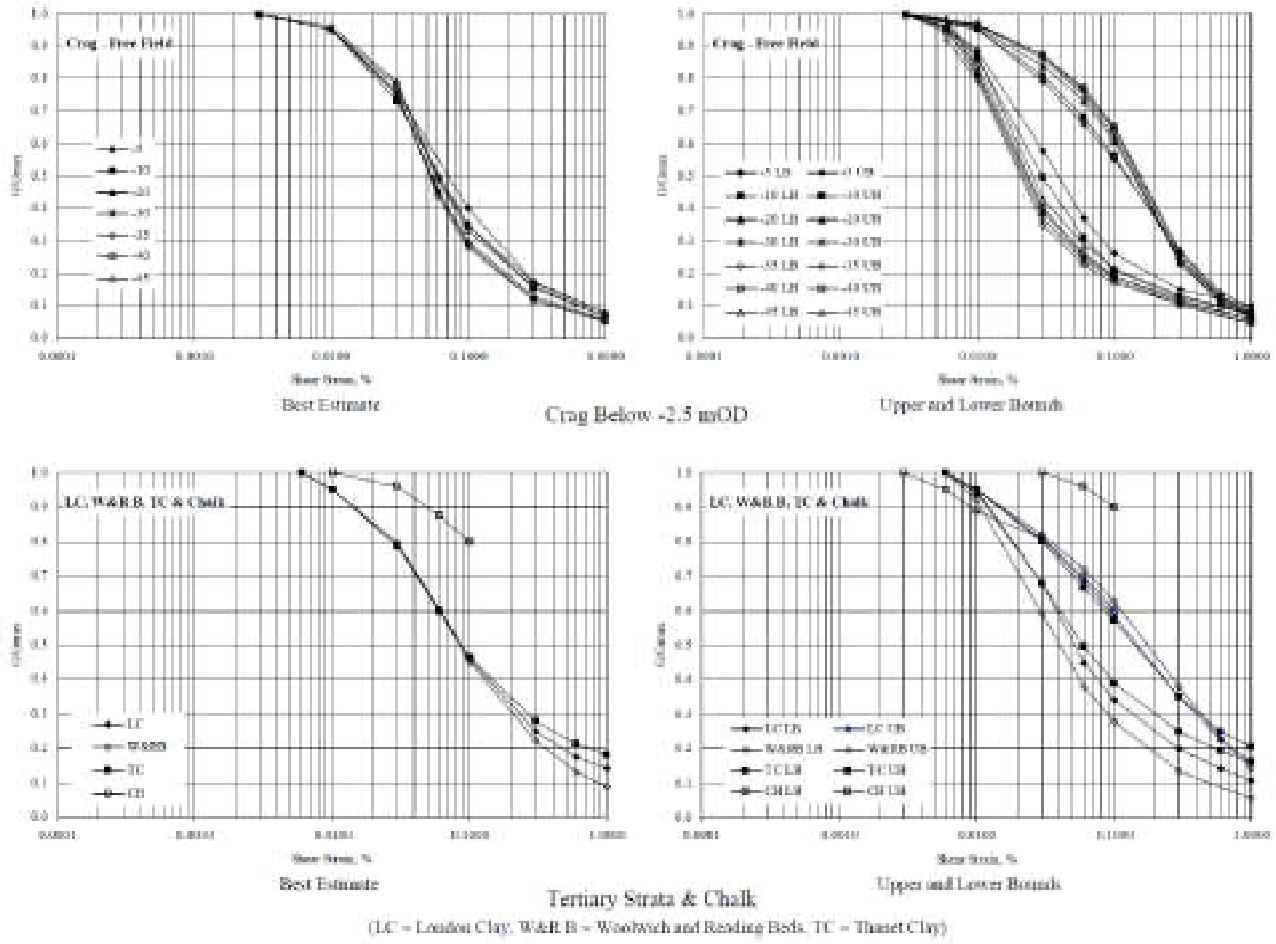
D.7.3. Variation of shear modulus and damping ratio with shear strain

A detailed analysis on how shear modulus and damping ratio vary with the increase of shear strain is developed in [SIZ25]. Despite the fact it has been developed for Sizewell B, analyzed data come initially from a study on Sizewell C. Even that, conclusions state that assessed geotechnical dynamic parameters recommended in [SIZ25] for a B site building (variation curves for shear modulus and damping ratio, but also small strain modulus and waves velocities measurements), are generally appropriate on C site. Caution should only be taken for upper Crags.

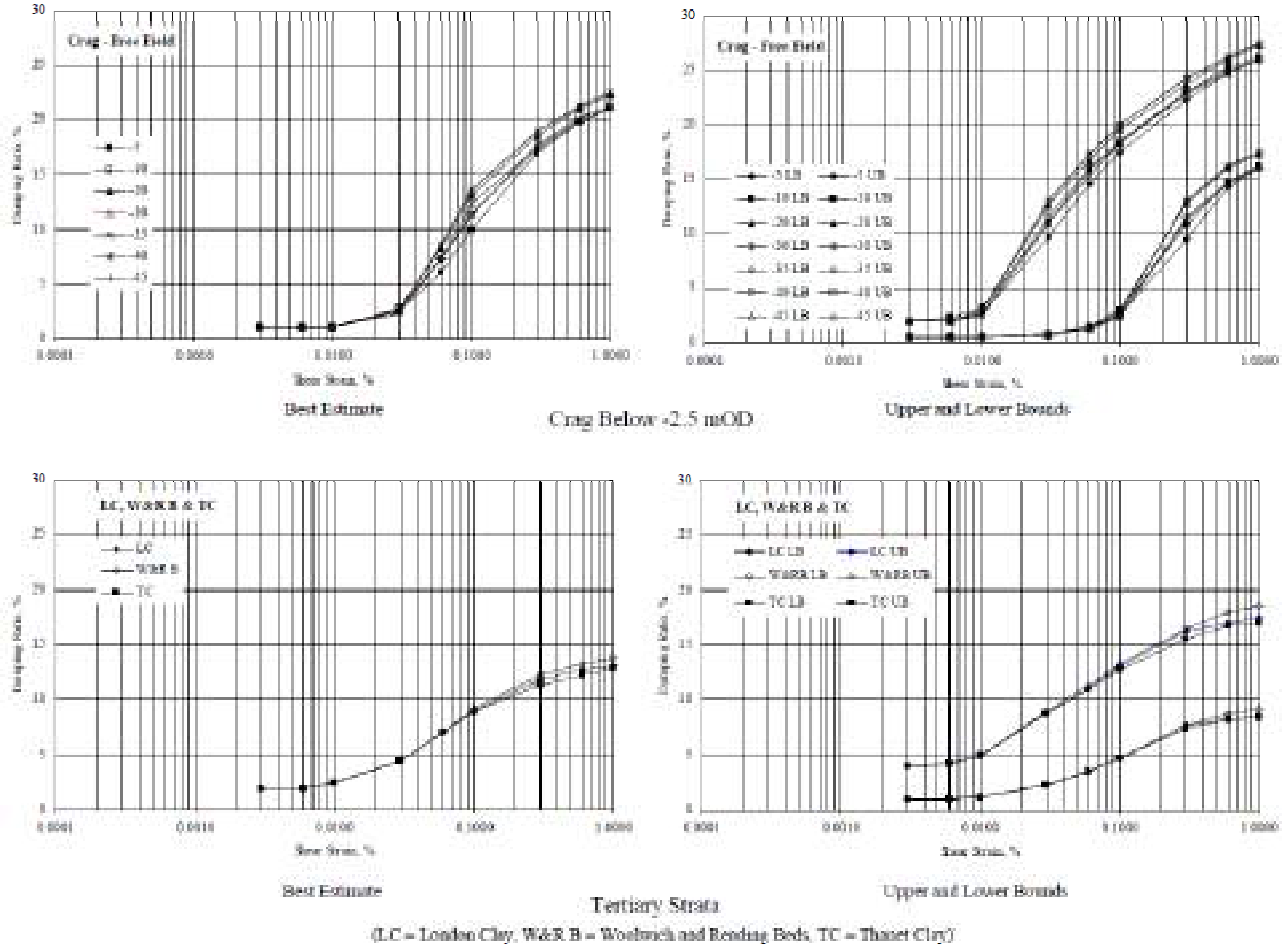
Plots of shear modulus and damping ratio with shear strain are given below:

- In Graph D.24: variations for shear modulus are given for Crags (with curves depending on reduced level AOD, i.e. the mean effective stress known by the strata) and for Tertiary deposits (London Clan and, so as for Chalk.
- In Graph D.25: variations of damping ratio are given for the same stratum, except for chalk.

Best estimate curves are given, so as lower and upper bound curves.



Graph D.24: Plots for Shear modulus variation vs. Shear strain, for Crag sands and Tertiaries strata ([SIZ25])



Graph D.25: Plots for damping ratio variation vs. Shear strain, for Crag sands and Tertiaries strata ([SIZ25])

Considering that under seismic situation the typical shear strain is 0.01 to 0.02 % (i.e. 1 to 2.10^{-4}), a G_d/G_{max} ratio can be assessed for Sizewell C site from these curves (it can be noticed that the same ratio could be apply for E_d/E_{max}, with a good confidence on the reliability of such a parallel approach).

For upper layers of Crag, values from lower bond should be preferred, while best estimate values and upper bound would better suit for lower Crags and Tertiary stratum.

Assumed values are given below in paragraph D.7.4.

D.7.4. Synthesis on dynamic parameters

Strata	Bulk density (kg/m3)	Vs (m/s)	ν d	Gmax (MPa)	Emax (MPa)	Ed/Emax & Gd/Gmax
Crag deposits						
> -10 AOD	2000	275	0,485	150	446	0,65
-10 et -20 AOD	2025	375	0,478	285	842	0,8
-20 to -30 AOD	2100	475	0,465	475	1392	0,9
-30 to -40 AOD	2100	625	0,447	820	2373	0,95
-40 to -45 AOD	2100	550	0,458	635	1852	0,9
London clay	1950	325	0,48	205	607	0,9
LLT : W&R beds	2100	400	0,476	335	989	0,9
LLT : Thanet clay	1925	375	0,478	270	798	0,95
Chalk	2000	1000	0,39	2000	5560	1

Table D.13: Synthesis of geotechnical dynamic parameters

As usual when dynamic parameters are defined, a range of variation for modulus should be taken from [2/3; 3/2] of the given recommended values of Table D.13.

This Table D.13 shows some differences with parameters assessed in [Ref.4], since data sources have been slightly re-interpreted.

APPENDIX D.8. SOILS & WATER CHEMICAL CHARACTERISTICS

The most valuable data on chemical characteristics for Crag sands and water on Sizewell C site are given in [SIZ25]. They are summarized below.

Analysis	No. results	Mean	Max.	Min.
% Sulphate (as SO_3) [1]	18	0.33	3.33	0.02
g/l Sulphate (as SO_3) [2]	3	0.23	0.32	0.17
% Chloride	18	na	0.1	<0.01
% Sulphur (Total)	3	0.51	1.0	0.23
mg/kg Iron (Total)	3	0.64	1.2	0.35
mg/kg Calcium (Total)	3	na	<0.1	<0.1
% (dry weight) [3]	3	2	5	0
pH	3	7.6	7.9	7.3

[1] Acid extract, % [2] 2:1 soil water extract, g/l [3] % Loss On Ignition

Table D.14: Chemical tests results for Crag soils samples – Sizewell C ([SIZ25])

Analysis	No. results	Mean	Max.	Min.
Electrical conductivity mS/cm	34	9.6	38	0.64
Sulphate (as SO_3) mg/l	18	380	1600	5.7
Chloride mg/l	31	3300	16000	89
Nitrate mg/l	18	2.9	9.1	0.14
Sodium mg/l	9	820	2200	320
Potassium mg/l	9	38	66	22
Calcium mg/l	9	99	350	27
Magnesium mg/l	9	260	380	210
Manganese mg/l	9	0.21	0.49	<0.01
Iron (Total) mg/l	18	na	17	<0.01
Carbonic acid mg/l	2	7.9	8.3	7.4
Temporary hardness mg/l	2	170	150	190
Dissolved CO_2 mg/l	1	48	na	na
pH	31	7.4	11.3	6.7

Table D.15: Chemical tests results for groundwater samples (Crag aquifer) – Sizewell C ([SIZ25])

Appendix E:
Extracts of onshore site investigations location on Sizewell A, B and C sites

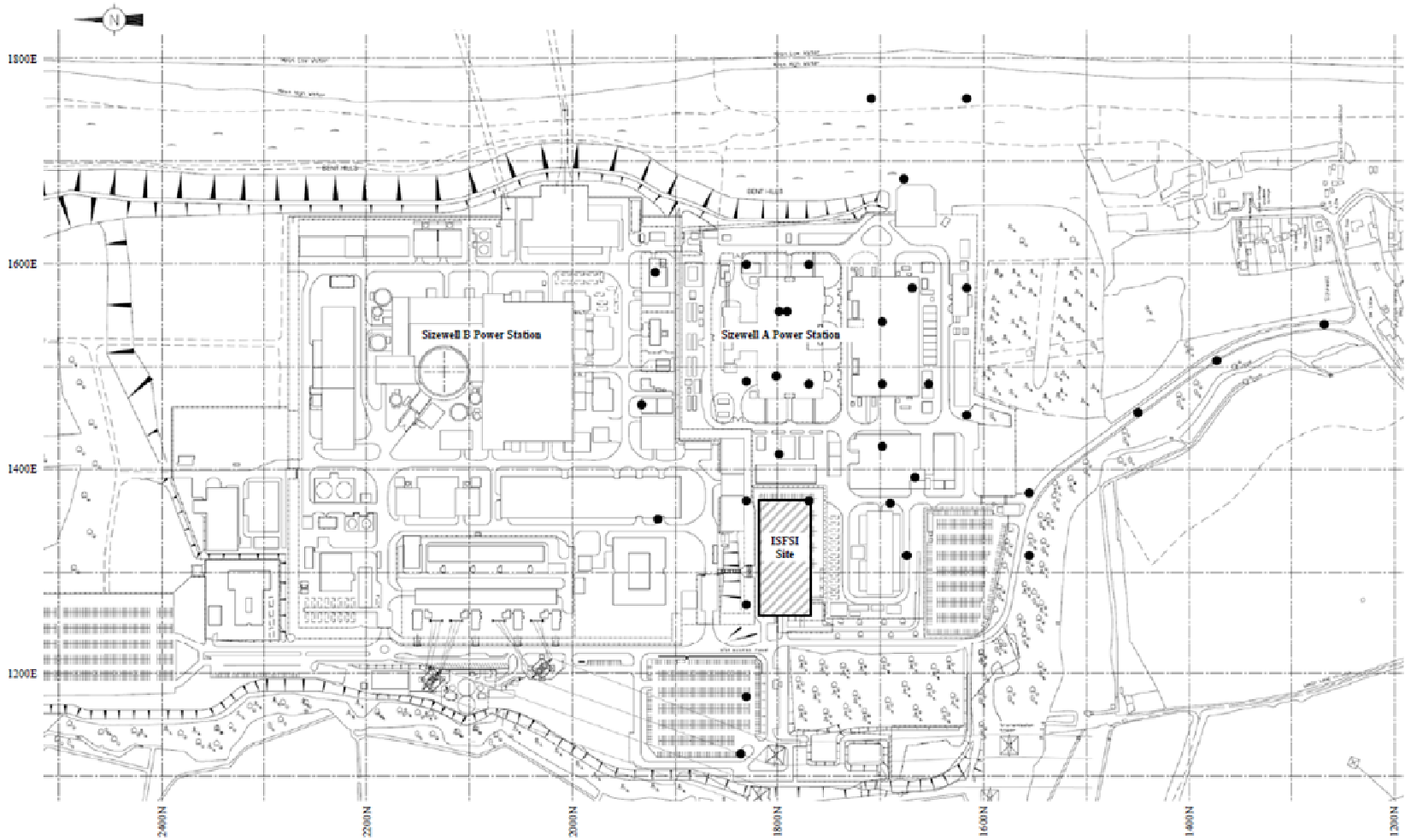


Figure E.1 : Location of A Site investigations from Soils Mechanics – 1960 [SIZ03]

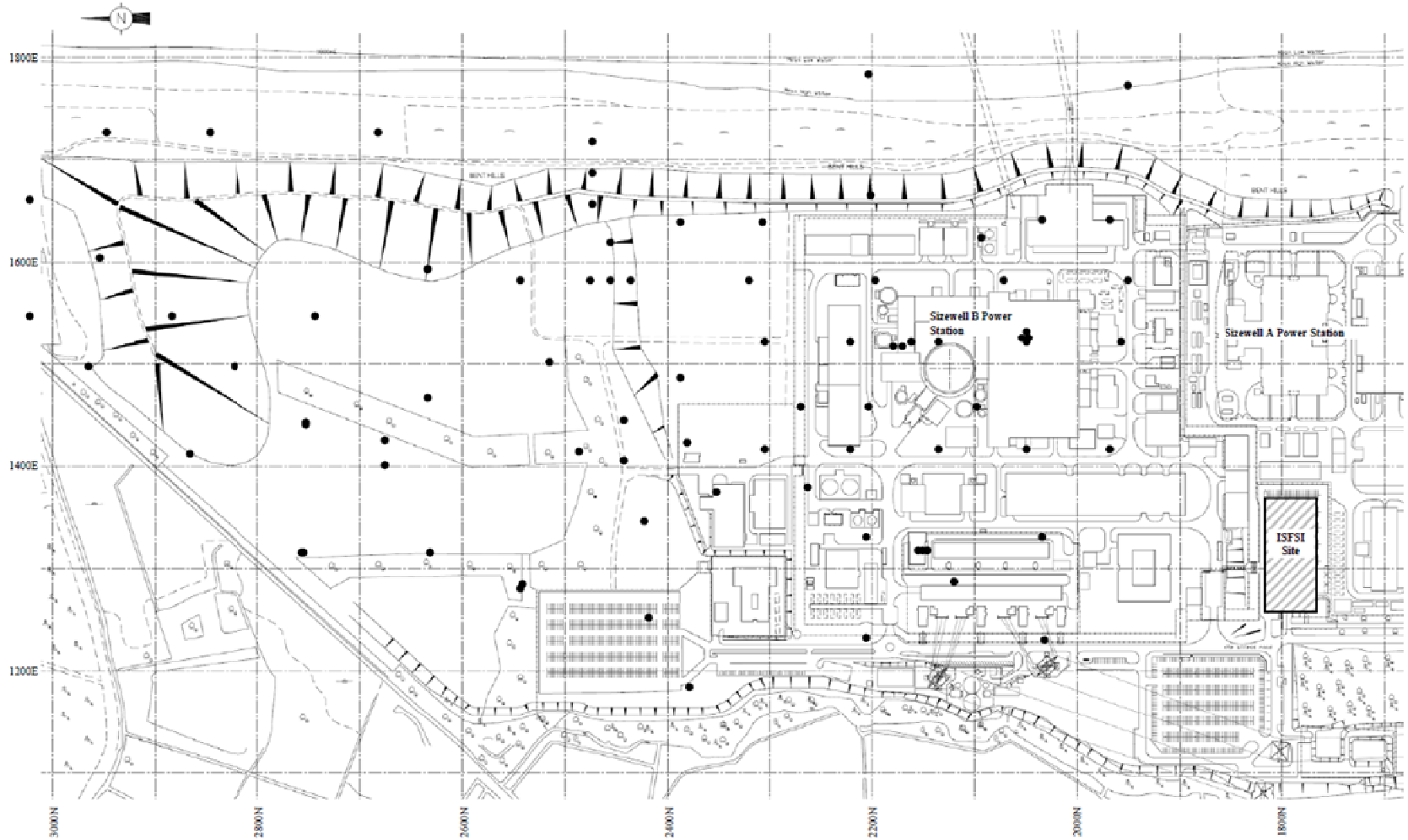


Figure E.2 : Location of B Site investigations from Foundation Engineering Ltd – 1976 [SIZ07]

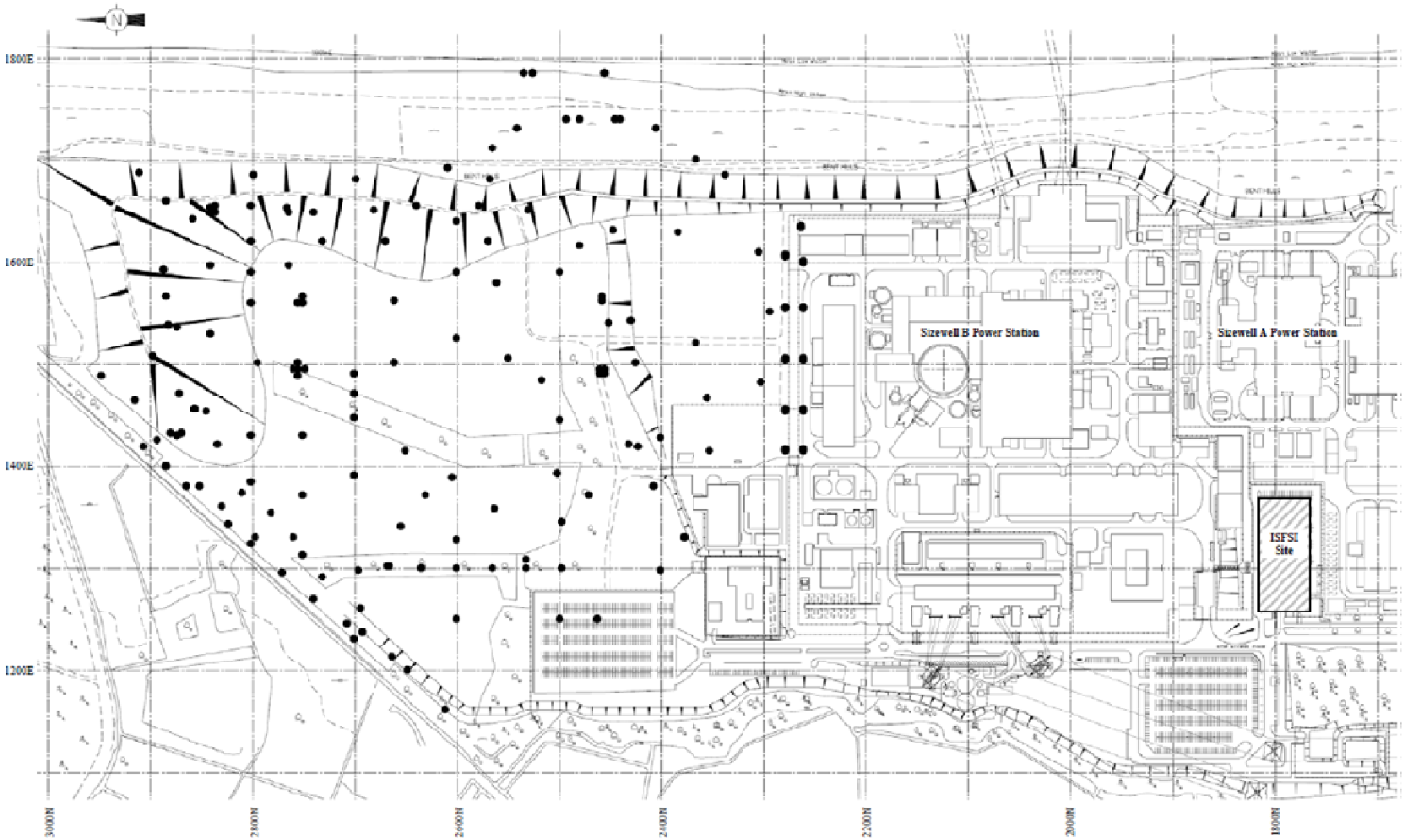


Figure E.3 : Location of C Site investigations from Soil Mechanics – 1995 [SIZ21]

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Appendix 3: Environmental Risk Assessment

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Hazardous Event	Potential Environmental Consequences by Media	Risk Assessment			Comments/Controls
		S	L	R	
Raw Material Delivery					
Significant loss of diesel during delivery (tankers) or transfer (by bowser).	Air: Short term localised air impact, some odour. Water: Spillage to drainage system or Sizewell Bay. Land: Spillage would be contained on hard standing or on ground. Key receptor: SSI, Leiston Drain and Greater Sizewell Bay. Pathway: Spillage would flow to the site drainage system or ground/groundwater.	TBC	TBC	TBC	Transfers of oils by tanker and bowser have sound primary containment; the need for secondary containment will be assessed as a part of the design risk assessment. Risks will be reduced by the design of the surface water system and procedures requiring spill mats to be placed over any local surface water drains. Forecourt separators are to be provided at all locations where fuel handling takes place. Penstock valves are to be provided at the point of discharge to all fore bays. Procedures will also be developed for filling of main oil tanks, emergency and spill response. Training will be provided for relevant personnel All operations will comply with the Oil Storage Regulations, Environment Agency guidance on oil storage regulations for businesses, BS 5410 code of practice for oil firing and the Construction Industry Research and Information Association (CIRIA) advice where relevant. Transfers will be supervised by appropriately trained and supervised site personnel (in addition to the vehicle drivers). Tanks will be checked for capacity before filling to prevent over filling and will have level indication/alarms and emergency cut-off switches. Any small spillage contained in delivery pipework will be managed through local containment. The site drainage system has still to be developed as part of the FAP (Refer to Section 6 of the SZC combustion activity permit application – FAP Ref. 1) and this process will consider the risks of tanker failure. Vehicle speeds will be controlled by site speed limits and all plant will be housed within the diesel generator buildings providing protection against vehicle damage.
Raw Material Storage					

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Hazardous Event	Potential Environmental Consequences by Media	Risk Assessment			Comments/Controls
		S	L	R	
Diesel fuel storage. Damage to the diesel tanks and bunds through accidental impact, rupture or spontaneous failure of tank leading to loss of all tank contents.	Air: Short term localised air impact, some odour from building ventilation. Water: Spillage would be contained within the diesel generator buildings. Land: Spillage would be contained within the diesel generator buildings.	TBC	TBC	TBC	The tanks and associated pipework are fully enclosed within the diesel generator buildings which will act as an impermeable bund. Any leaks or spills would be captured in sumps or holding tanks and pumped out and removed from site by tanker for offsite treatment and disposal. Any loss would be fully contained. Tanks are located indoors and vehicles cannot cause damage from accidental impacts. Tanks, valves, pipework and flange points will be inspected as part of the IMS. Emergency and spill response plans will be developed and training provided to relevant personnel.
Raw Material Distribution Systems					
Loss of diesel fuel from the distribution system (pipework) during transfer from the bulk storage tanks to the combustion plant.	Air: Short term localised air impact, some odour from building ventilation, minor for smaller spills. Water: Spillage would be contained within the diesel generator buildings or flow to drainage system. Land: Spillage would be contained within the diesel generator buildings or flow to the drainage system.	TBC	TBC	TBC	All of the pipework is fully contained within the diesel generator buildings. Any leaks or spills would be captured in sumps or holding tanks and pumped out and removed from site by tanker for off-site treatment and disposal. Any leaks (minor or major) would be fully contained. The internal structure of the basement will be finished in an impermeable material (either building material or oil resistant coating). Underground pipework will be avoided in the design if possible. Pipework, valves and flange points will be inspected as part of the IMS. Emergency and spill response plans will be developed and training provided to relevant personnel.
Fire					
Major fire and/or explosion of combustible materials, including diesel fuel.	Air: Significant local air quality impact from combustion products/ dust/ smoke, etc. Water: Fire water would fill the diesel generator building basement and overflow into the site drainage system. Land: Firewater flow to ground.	TBC	TBC	TBC	Areas, which pose a significant threat of fire such as oil storage facilities, will be protected by dedicated installed fire prevention and mitigation systems. Extensive controls will be incorporated into the plant design to both prevent explosions and fires ('zoned' electrical equipment, alarms, automatic fire systems etc.) and minimise impact. The volume of the basement area of the diesel generator buildings is able to hold a significant volume of water. In addition, the fire water can then be discharged to a sump or holding tank and pumped out and removed from site by tanker for offsite treatment and disposal. A fire water management plan is to be completed to ensure that firewater can be collected and

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Hazardous Event	Potential Environmental Consequences by Media	Risk Assessment			Comments/Controls
		S	L	R	
					contained in the event of an emergency. Fire water capacity calculations will be provided to the Environment Agency as part of the FAP (Refer to Section 6 of the SZC combustion activity permit application – FAP Ref. 1). The station will operate a fire team and (if so) will develop and maintain a fire plan to deal with minor incidents; the diesel generator buildings will be part of a site-wide fire plan. More significant fires will be dealt with in collaboration with Suffolk Fire Brigade.
Operation of the Combustion Plant					
Visible plume	Air: Release of steam or water plume forming a visible plume Water: No impact Land: No impact	TBC	TBC	TBC	There is no steam cycle or wet cooling tower plume associated with the operation of the diesel generators and therefore condensing plumes are not expected to occur. The potential for visible plumes from the plant stacks is considered to be very low as a result of the water content and temperature of the flue gas.
Failure or mal-operation of the diesel generators.	Air: Release of black smoke and PM Water: No impact Land: No impact	TBC	TBC	TBC	In order to monitor the quality of fuel combustion, basic process monitoring will be incorporated (e.g. oxygen, CO and temperature monitoring). The plant is only planned to be operated for maintenance purposes and periodic nuclear safety tests, during which the operations will be closely observed and recorded to demonstrate the reliability of the combustion plant (so any failure of mal-operation will be noticed). If the combustion process is not operating as expected or causing off-site impacts the combustion plant will be shut down. Procedures will be developed relating to scenarios such as this will determine the specific actions required by the operator.
Loss of containment of the cooling system (50% ethylene glycol).	Air: No impact. Water: Spillage would be contained within the diesel generator building. Land: Spillage would be contained within the building or enter the drainage system.	TBC	TBC	TBC	The drainage system for the area housing the cooling circuit has not yet been designed. As part of the FAP (Refer to Section 6 of the SZC combustion activity permit application – FAP Ref. 1), this scenario will be considered, and appropriate mitigation put in place to prevent the cooling fluid reaching surface water drains. The cooling fluid will then be removed by a licensed contractor and disposed of as hazardous waste. Pipework, valves and flange points will be inspected as part of the IMS. Emergency and spill response plans will be developed and training provided to relevant personnel.

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Hazardous Event	Potential Environmental Consequences by Media	Risk Assessment			Comments/Controls
		S	L	R	
Loss of containment of lubricating oil	Air: Short term localised air impact, some odour from building ventilation. Water: Spillage would be contained within the diesel generator building. Land: Spillage would be contained within the building or enter the drainage system.	TBC	TBC	TBC	All of the pipework is fully contained within the diesel generator buildings. Any leaks or spills would be captured in sumps or holding tanks and pumped out and removed from site by tanker for offsite treatment and disposal. The internal structure of the basement will be finished in an impermeable material (either building material or oil resistant coating). Pipework, valves and flange points will be inspected as part of the IMS. Emergency and spill response plans will be developed and training provided to relevant personnel.
Flooding of the site and associated contamination of flood waters with chemicals/fuel stored on site	Air: No impact. Water: Floodwater would be contained within the diesel generator building and/or enter the drainage system. Land: Floodwater would be contained within the diesel generator building and/or enter the groundwater via unsurfaced areas. Pathway: Flow by gravity/drainage systems/unsurfaced areas	TBC	TBC	TBC	The site will be protected against flooding from the sea by its elevation. This elevation of the platform on which the plant is to be constructed, will be created at 7.3 AOD. Although it will not ensure a dry site under all conditions, the elevation was determined as a solution that is ALARP. A Flood Risk Assessment took place, which took into consideration changes in extreme high water levels due to reasonably foreseeable climate change through to the end of the station operational lifetime assessed using UKCP09 10,000 year return period at 95% confidence level. The site also benefits from drainage arrangements and buildings are designed so that standing water does not enter buildings.
Vandalism to plant, equipment and infrastructure and associated loss of fuel / chemicals from site	Negligible. Appropriate design and management action would prevent vandalism happening.	TBC	TBC	TBC	The site will be protected by high level security systems.

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Appendix 4: SZC Raw Materials Assessment

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Raw Material and Application	Chemical Composition	Hazard Statement	Annual Usage in Combustion Plant	Fate of Raw Material in the Combustion Plant	Environmental Impact Potential	Alternative of Lower Environmental Impact	Reason for Use of Raw Material
Fuel Oil-Diesel As fuel for the diesel generators.	Hydrocarbon - BS2869:2017 (or applicable standard at time of procurement and operation).	Health hazard (may cause cancer) Hazardous to the environment Flammable	Estimated as 1,280 tonnes for both reactors (130 tonnes per EDG and 60 tonnes per UDG)	Combustion of gas to air as exhaust gases.	Emission to air of NO_x, SO_2, CO_2, CO, VOCs and PM. Marine pollutant. Small spillages to ground will biodegrade. Major spillage to ground will penetrate sub soils-risk of groundwater contamination. Spillages contained within buildings and bunds.	Natural Gas - lower level of PM and small reduction in SO_2 emissions	Storage of pressurised gas and reliance of external piped supplies are discounted on safety and security of supply grounds
						Kerosene - lower level of PM and sulphur emissions. Lower sulphur containing grade of fuel oil	No major environmental benefit. The sulphur content of the grade of fuel is limited to 0.1%. Reliability and experience of operating diesel generators is a key factor.

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Raw Material and Application	Chemical Composition	Hazard Statement	Annual Usage in Combustion Plant	Fate of Raw Material in the Combustion Plant	Environmental Impact Potential	Alternative of Lower Environmental Impact	Reason for Use of Raw Material
Lubricating Oil Used for diesel generators	Assumed to be a mineral oil to SAE 40 - there will also be trace additives.	Health hazard (harmful if swallowed, harmful in contact with skin, causes serious eye damage, causes skin irritation and may cause respiratory irritation) Hazardous to the environment (very toxic to aquatic life; toxic to aquatic life with long lasting	Annual usage on combustion plant is estimated as 3.5 tonnes (4,032 litres) (450 litres/year per EDG and 108 litres/year per UDG) for two UK EPR units.	Waste oil from maintenance activities will be recycled	Marine pollutant. Produces a hazardous waste. Degrades in soil over time.	None	Recommended by manufacturer.
Antifreeze Used by diesel generators and small pumps	Monoethylene Glycol	Health hazard (harmful if swallowed)	Initial fill usage is estimated as 88m^3 by the diesel generators per UK EPR unit. After this, usage will be restricted to loss replacement.and a shelf life of 3-4 years.	100% to hazardous waste	Marine Pollutant.	Considered to be no engine compatible alternative of lower environmental impact	No engine compatible alternative

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Raw Material and Application	Chemical Composition	Hazard Statement	Annual Usage in Combustion Plant	Fate of Raw Material in the Combustion Plant	Environmental Impact Potential	Alternative of Lower Environmental Impact	Reason for Use of Raw Material
Batteries	Unknown to be determined	Health hazard (harmful if swallowed, harmful in contact with skin, causes serious eye damage, causes skin irritation and may cause respiratory irritation)) Hazardous to the environment	Low – estimated 16 batteries/cells are replaced per annum	100% to hazardous waste	Corrosive and toxic	Compressed air systems	Certain scenarios will require battery start up

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Appendix 5: Relevant Hazardous Substances Risk Assessment

NNB Generation Company (SZC) Ltd. Registered in England and Wales. Registered No. 09284825. Registered Office: 90 Whitfield Street, London, W1T 4EZ.

Site Area/ Zone	Substances	Relevant Activity	Potential for Pollution from the Relevant Activity	Existence of Pollution Prevention Measures	Nature of Primary Containment	Testing and Inspection of Primary Containment	Nature of Secondary Containment	Testing and Inspection of Secondary Containment	Nature of Tertiary Containment	Testing and Inspection of Tertiary Containment	Adequacy of Pollution Prevention Measures? Yes / No	Are the proposed Integrity testing of pollution prevention measures adequate?	Is there an adequate documented management system to demonstrate operator management and competence with the relevant activity	Likelihood of pollution
Diesel Generator Buildings	Diesel	Delivery by vehicle	Spillage during off-loading e.g. flex hose / connection failure	Yes	Road Tanker / Retractable delivery Hoses	Visual inspection of road tanker and delivery hoses to be carried out Deliveries via reputable supplier using vehicles which are fit for purpose	Concrete hardstanding draining to an oil water interceptor. Penstocks are provided at the point of discharge to all forebays.	Visual inspection of concrete hardstanding, interceptor and penstocks to ensure they are in good working condition	Containment sump	Scheduled Inspections	Yes	Yes	Yes – to be developed prior to receipt of diesel	Negligible

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Site Area/ Zone	Substances	Relevant Activity	Potential for Pollution from the Relevant Activity	Existence of Pollution Prevention Measures	Nature of Primary Containment	Testing and Inspection of Primary Containment	Nature of Secondary Containment	Testing and Inspection of Secondary Containment	Nature of Tertiary Containment	Testing and Inspection of Tertiary Containment	Adequacy of Pollution Prevention Measures? Yes / No	Are the proposed Integrity testing of pollution prevention measures adequate?	Is there an adequate documented management system to demonstrate operator management and competence with the relevant activity	Likelihood of pollution
		Storage	Leak from bulk storage	Yes	Bulk storage tanks	Newly built double skinned tank. Will be subject to routine visual checks and inspection in line with manufacturer guidance	The tank will be double skinned and installed internally within the diesel generator buildings within a concrete bunded room in compliance with CIRIA C736 guidelines. Level alarms	Regular visual inspection of bunding, and testing of alarms	Diesel generator buildings, hardstanding and containment sump	Scheduled Inspections	Yes	Yes	Yes – to be developed prior to receipt of diesel	Negligible

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Site Area/ Zone	Substances	Relevant Activity	Potential for Pollution from the Relevant Activity	Existence of Pollution Prevention Measures	Nature of Primary Containment	Testing and Inspection of Primary Containment	Nature of Secondary Containment	Testing and Inspection of Secondary Containment	Nature of Tertiary Containment	Testing and Inspection of Tertiary Containment	Adequacy of Pollution Prevention Measures? Yes / No	Are the proposed Integrity testing of pollution prevention measures adequate?	Is there an adequate documented management system to demonstrate operator management and competence with the relevant activity	Likelihood of pollution
							will be provided.							
	Lubricating Oil	Delivery by vehicle	Spillage during off-loading e.g. flex hose / connection failure	Yes	Road Tanker / Retractable delivery Hoses	Visual inspection of road tanker and delivery hoses to be carried out Deliveries via reputable supplier using vehicles which are	Concrete hardstanding draining to an oil water interceptor. Penstocks are provided at the point of discharge to all forebays.	Visual inspection of concrete hardstanding, interceptor and penstocks to ensure they are in good working condition	Containment sump	Scheduled Inspections	Yes	Yes	Yes – to be developed prior to receipt of diesel	Negligible

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Site Area/ Zone	Substances	Relevant Activity	Potential for Pollution from the Relevant Activity	Existence of Pollution Prevention Measures	Nature of Primary Containment	Testing and Inspection of Primary Containment	Nature of Secondary Containment	Testing and Inspection of Secondary Containment	Nature of Tertiary Containment	Testing and Inspection of Tertiary Containment	Adequacy of Pollution Prevention Measures? Yes / No	Are the proposed Integrity testing of pollution prevention measures adequate?	Is there an adequate documented management system to demonstrate operator management and competence with the relevant activity	Likelihood of pollution
						fit for purpose								
	Mono-Ethylene Glycol (cooling water with antifreeze)	Use in cooling circuit	Leak in the cooling circuit	Yes	Within sealed cooling circuit	Visual inspection of cooling circuit pipework and scheduled maintenance inspections. Scheduled coolant change outs to	Concrete hardstanding with sealed sump	Regular visual inspection of concrete hardstanding	Spill kits to be available on site	Scheduled inspections	Yes	Yes	Yes – to be developed prior to receipt of mono-ethylene Glycol	Negligible

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						minimise corrosion risk								
	Batteries	Main use is for UDG start-up and for power to UDG speed regulators.	Leak from battery	Yes	Battery container	Visual inspection of batteries. Scheduled battery change to minimise corrosion risk	Concrete hardstanding with sealed sump	Regular visual inspection of concrete hardstanding	Spill kits to be available on site	Scheduled inspections	Yes	Yes	Yes – to be developed prior to receipt of batteries	Negligible
	Small quantities	Maintenance	Leak from storage	Yes	Dedicated waste containers,	New storage containers	The hazardous waste storage	Regular visual inspection of storage	Site hardstanding and	Scheduled inspections	Yes	Yes	Yes – to be developed	Negligible

Site Area/ Zone	Substances	Relevant Activity	Potential for Pollution from the Relevant Activity	Existence of Pollution Prevention Measures	Nature of Primary Containment	Testing and Inspection of Primary Containment	Nature of Secondary Containment	Testing and Inspection of Secondary Containment	Nature of Tertiary Containment	Testing and Inspection of Tertiary Containment	Adequacy of Pollution Prevention Measures? Yes / No	Are the proposed Integrity testing of pollution prevention measures adequate?	Is there an adequate documented management system to demonstrate operator management and competence with the relevant activity	Likelihood of pollution
	of waste chemicals				with segregated storage of hazardous and non-hazardous waste	. Will be subject to routine visual checks and inspection.	containers will be kept locked to prevent accidental loss		containment sump				prior to waste generation	

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