

### Project overview

Project Site Address: BESIX Watpac State Division Address:

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Project Commencement Date: BESIX Watpac ABN:

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### **Document Control**

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В	23/09/21	Submission to address ER comments	/ Project Director
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### BESIX Watpac Approvals

Name	Role & Title	Signature	Date
Mike Nevin	Author / Planning & Environment Manager		07/09/2022
Daniel Gooch	Reviewer / Engineering Manager		07/09/2022

**Note:** A controlled copy of the Water Quality Monitoring Program (WQMP) will be distributed to the Sydney Metro Principal's Representative, Environmental Representative (ER) and other nominated stakeholders, and it will be made available to all BR COP employees and subcontractors in soft copy format through the project document control system.

This document, when printed, will be uncontrolled and it will the responsibility of each user to confirm the currency of the plan through the project document control system.



# Acronym and Definitions

Acronym	Term and/or Definitions
ASS	Acid Sulphate Soils
ASSMP	Acid Sulfate Soils Management Plan
ARI	Average Rainfall Intensity
BDA	Barangaroo Development Authority (known as iNSW)
BR-CODD	Barangaroo 'Construct Only Delivery Deed'
BR-COP	Barangaroo 'Construct Only Package' (also various documents refer to: BZZ Contractor / STME)
BW	BESIX Watpac
CAR	Corrective Action Request
CEMP	Construction Environmental Management Plan
CMP	Contract Management Plan
CoA	Conditions of Approval
CSG	Construction Safety Group
DITP	Detailed Inspection and Test Plan
DPIE	NSW Department of Planning Industry and Environment
EIS	The Sydney Metro City and Southwest Chatswood to Sydenham Environmental Impact Statement dated 3 May 2016 submitted to the Secretary seeking approval to carry out the CSSI and as revised if required by the Secretary under the EP&A Act.
EMS	The BESIX Watpac certified Environmental Management System
EP&A Act	Environmental Planning and Assessment Act 1979 (NSW)
EPA	NSW Environmental Protection Authority
EPL	Environmental Protection License
GS	General Specification
KPI	Key performance Indicator
N/A	Not applicable
PS	Particular Specification
SFAIRP	So Far As Is Reasonably Practicable (in terms of the RSNL, NSW)
SM	Sydney Metro - Sydney Metro (https://www.sydneymetro.info )
SME	Subject Matter Expert, a person with expert knowledge and competency in a specified subject or topic matter area.
SMP	Sustainability Management Plan
SMCSW	Sydney Metro City & Southwest (the overall program of works, which Barangaroo Station is part of)
SWMS	Safe Work Method Statement
Sydney Metro	Transport for New South Wales (https://www.transport.nsw.gov.au)
TSE	Tunnel and Station Excavation Contractor
WDIA	Water Discharge Impact Assessment
WQMP	Water Quality Monitoring Progam
WHS	Work Health and Safety
WTP	Water Treatment Plant

# Terms and Definitions

Glossary	Definitions and Responsibilities					
CEMP	Construction Environmental Management Plan					
Contractor	Particular Specification (PS) must be read as a reference to the "BR Contractor" as defined in the BR-CODD					
Contractors Activities	Particular Specification and General Specification must be read as a reference to the "BR Contractor's Activities" as defined in the BR-CODD					
Construction	The same meaning as in the CSSI Sydney Metro City & Southwest Chatswood to Sydenham Conditions of Approval (SSI 7400)					
Crisis Event	An event that may have an impact on the community, commuters, environment, personnel or subcontractors or has attracted or can reasonably be expected to attract the attention of the media, the Minister for Transport, a local Member of Parliament, local Authority or the local community. This includes emergencies, incidents or crises unrelated to the Contractor's Activities that may be deemed to be caused by the Contractor's Activities due to locality.					
Design Documentation	Means the "Final Design Documentation" as defined in the BR-CODD.					
Emergency Event	A situation in which there is an unacceptable risk, to the health and wellbeing of occupants, staff, or the general public, which needs intervention by staff or emergency services to control, limit escalation, suppress or address the risk and return to normal operations.					
Incident	An occurrence or set of circumstances that causes, or threatens to cause, material harm to the environment, community or many member of the community, being actual or potential hard to the health and safety of human beings or to threatened species, endangered ecological communities or ecosystems that is not trivial					
Inspection and Test Plan	Inspection and test plans prepared and implemented by the Contractor in accordance with the requirements in AS/NZS ISO 9001 Quality Management systems – Requirements.					
Interface Contractors	Any contractor, consultant, artist, tradesperson or other person engaged by Sydney Metro that is carrying out ,or that will carry out Interface Work including:  TSE Contractor TSOM Contactors The Operator LW Contractor  ETS Contractor					
Interface Work	Any activities undertaken by an Interface Contractor which interface with or affect, or are affected by, the Contractor's Activities, the Project Works or the Temporary Works.					
Non-Compliance	Failure to comply with the requirements of the Project Approval or any applicable license, permit or legal requirements.					
Non-Conformance	Failure to conform to the requirements of project system documentation including this CEMP or supporting documentation					
POEO Act	Protection of the Environment Operations Act 1997 (NSW)					
Relevant Council	City of Sydney					
Secretary	Secretary of the NSW Department of Planning and Environment or nominee,					
Staging Report	Sydney Metro City & Southwest Chatswood to Sydenham – Staging Report V7					

Water Quality Monitoring Program

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Water Quality Monitoring Program

### 1. Introduction

The purpose of the Water Quality Monitoring Program (WQMP), as outlined in Section 7.5 of the Soil and Water Management Procedure (SWMP) within the Construction Environmental Management Plan (CEMP), is to monitor the impact of BESIX Watpac's construction activities on groundwater and surface water quality in the vicinity of the site and to monitor the effectiveness of mitigation measures implemented.

### 2. Background

The Sydney Metro City and Southwest Chatswood to Sydenham Project (The Project) is located in two catchments – the Sydney Harbour and Paramatta River catchment, and the Cooks River catchment. Within these catchments there are five local watercourses that are located along the project alignment. These local watercourses drain into Middle Harbour, Sydney Harbour and Botany Bay. The Barangaroo Metro Station, being constructed by BESIX Watpac, is in the Sydney Harbour and Paramatta River catchment which discharges into the receiving environment, Sydney Harbour.

The Tunnel and Excavation Contractor (TSE) is a JV between John Holland, CPB and Gheller (JGCPBBG), who have undertaken the excavation and construction of the Barangaroo station box structure. The TSE Contractor has been responsible for the management of groundwater, surface water and construction water within the Barangaroo Station site. The TSE Contractor commissioned a Water Treatment Plant (WTP), which is currently treating groundwater and surface water, collected on site via a system of pits and pumps and discharging it into Sydney Harbour under an Environmental Protection License (EPL). The WTP will be handed over to BESIX Watpac at the conclusion of the TSE works on site and BESIX Watpac will continue to operate the WTP whilst completing the fit-out of the station and associated demolition, landscaping and civil works. BESIX Watpac are not required to operate the WTP under an EPL.

This Water Quality Monitoring Program (WQMP) is being implemented to identify potential impacts on water quality resources as well as monitor the effectiveness of the mitigation measures applied as part of the BESIX Watpac's construction activities. BESIX Watpac's focus on water quality management during construction is to prevent pollution by minimising the risk of polluted, sediment-laden or contaminated water leaving the construction site, the outline of which is shown in Figure 1, by always implementing a comprehensive management and monitoring regime on site. Monitoring will be conducted at the discharge point of the WTP (BN-3) and offsite in the receiving waters of Sydney Harbour (SW-B-01) as shown in Figure 1 to trigger investigation where required and ensure that site processes and procedures are effective.

BESIX Watpac commissioned a Water Discharge Impact Assessment (WDIA) to ensure that the existing WTP is fit for purpose for use by BESIX Watpac in treating surface and groundwater within the boundaries of the site, associated with BESIX Watpac's construction activities. The WQMP sets out a program of monitoring to be undertaken to check the quality of water which is being discharged from the WTP, and within the receiving waters of Sydney harbour, to meet the recommendations made in the WDIA and to maintain the NSW Water Quality Objectives in accordance with the Project Condition of Approval (CoA) E-107 (SSI 7400).

No watercourses will be directly impacted or modified by the BESIX Watpac's construction activities although treated construction water will be discharged into Sydney Harbour, via the existing stormwater network and following treatment in the WTP as discussed.

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Figure 1 Barangaroo Metro Station site boundary



### 3. Approvals

The Project is approved as a Critical State Significant Infrastructure Project (CSSI 7400). The Sydney Metro City and Southwest Chatswood to Sydenham Staging Report Revision 7 (Staging Report) sets out the planning approval requirements relevant to each project site. The Staging Report 'switches on' Construction Monitoring Program requirement CoA C9(a) only for the Barangaroo Station project (Noise and Vibration). According to the Staging Report, Construction Monitoring Program requirements CoAs C9(c) & (d) to CoA C17 are not applicable to the Barangaroo Station project in relation to water quality and groundwater monitoring programs. Notwithstanding this, the WQMP has been produced to monitor the impact of BESIX Watpac's construction activities on groundwater and surface water in the vicinity of the site and to monitor the effectiveness of mitigation measures implemented to meet the requirements of CoA E107 and Section120 of the POEO Act.

This WQMP will be submitted to Sydney Metro and the Environmental Representative (ER) for information. Water quality monitoring records will be issued in a Construction Water Quality Monitoring Report (CWQMR) which will be issued to Sydney Metro and the ER for information on a quarterly basis.

### 4. Baseline Data

Water quality monitoring results, taken from monitoring stations SW-B-01 and BN\_03, have been provided from Q4 2018 to Q2 2021 by the TSE Contractor and are presented in Appendix B and C of the WDIA. This will establish the baseline water quality data against which BESIX Watpac's construction monitoring data will be compared for the first suite of monitoring undertaken. BESIX Watpac will then monitor against data captured from the previous monitoring event. Baseline data from TSE will be kept for reference and checked if an exceedance occurs to see if there is precedence of this taking place. It should be noted that variances may occur due to:

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- waterways along the Project alignment are highly modified due to the urbanised nature of the surrounding area
- the stormwater system collects and transfers water from large urbanised catchment areas. Therefore, there is the potential for contaminants to enter the stormwater systems and subsequently the waterways from many different sources; and
- Water quality in urban areas as occurs along the Project alignment is highly variable, and
- · changes in response to prevailing weather patterns and following rainfall

## 5. Monitoring

### 5.1 Monitoring Methodology

For consistency in monitoring results, water quality will continue to be monitored in the same two locations utilised by the TSE Contractor, SW-B-01 located in Sydney Harbour and BN\_03 at the WTP discharge point, as shown in Figure 2 below. The TSE Contractor selected these monitoring locations to be representative of water quality and to identify any potential impacts of construction activities at the Barangaroo Metro station site.

The Planning and Environment Manager will have overall responsibility for ensuring that BESIX Watpac's obligations in relation to water quality and water quality monitoring are met. The Environmental Coordinator will be responsible for monitoring weather patterns and carrying out in the field sampling. Sampling will include grab, probe and visual inspections of water which will be analysed visually, in the field and at an accredited testing laboratory as nominated in Appendix A.

The WTP discharges water on an ongoing continual basis and has an in-built monitoring system which monitors water quality (pH and turbidity) prior to discharge off site. This monitoring system is connected to an online portal where monitoring results can be seen in real time. The WTP will not allow water to be discharged if the discharge parameters are not met.

Water Quality Reporting will highlight where an exceedance to the nominated trigger value has occurred as follows:

- Exceedances of chemical, physical and toxicant values should be based on the NSW WQO and ANZG 2018 / ANZECC 2000 trigger values.
- In addition to the guideline values, an investigation will take place if a 20% greater differential than
  previous results occurs for BN-3. This is because something in the treatment process or site activity
  may have impacted on water quality. If corrective action is required to address the water quality issue,
  this can be carried out before an exceedance of ANZG 2018 / ANZECC 2000 is recorded. Monitoring
  against previous results will also determine if there is a trend in the deterioration of water quality.

The groundwater being treated by the WTP, pumped from Basement Level 3 and Basement Level 6, is generally high in iron (ferric) and potassium permanganate is used as part of the treatment process to reduce the iron content in the water, to make it ferrous prior to discharge. Due to the importance of the potassium permanganate dosing system, the following monitoring will be implemented to ensure it functions correctly:

- Potassium Permanganate has impurities which do not dissolve easily in cold weather which can cause a blockage in the dosing pump. The potassium permanganate will be filtered before being added to the WTP to remove impurities
- The pump is checked and maintained regularly at present and this inspection regime will be increased with the pump to be checked each time the potassium permanganate is replaced or topped up
- The storage containers (IBCs) holding the potassium permanganate will be cleaned out and replaced regularly as residue can form at the base of the IBC causing blockages

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 An oxidisation reduction probe (ORP) will be added to the discharge monitoring process to check the ferrous / ferric level of the water prior to discharge. If the correct parameters are not met the WTP will not discharge.

Figure 2 Monitoring Station Locations



### 5.2 Monitoring to be undertaken

Monitoring will be undertaken in accordance with the recommendations as set out in Section 3.5 of the WDIA which summarises the recommended water discharge criteria, to ensure the water quality impact is within the acceptable limits. A summary of the monitoring to be undertaken from the Barangaroo WTP (BN-3) and Sydney Harbour (SW-B-01), the receiving environment is below in Appendix A.

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### 5.3 Frequency of monitoring

Sampling frequency will continue to be undertaken at Sydney Harbour (SW-B-01), and at the discharge of the Barangaroo WTP (BN-03) in accordance with the recommendations made in Section 6.1 of the WDIA, as follows:

### Sydney Harbour(SW-B-01):

Water Quality will be monitored in Sydney Harbour (SW-B-01) with results compared against baselined values throughout the construction phase of the project. Surface water sampling will be carried out in accordance with the recommendations made in the WDIA at the following frequencies:

- Monthly for the same suite of physical, chemical and toxicants which have been monitored by TSE under the EPL at this station plus ammonia, cyanide, copper and zinc
- Up to four wet weather sampling events within a 12 month period (when at least 38.8 mm of rain is received in the catchment in any 5 day period).

### Barangaroo WTP (BN-3):

Water quality testing will continue to be carried out on the Barangaroo WTP discharge water at the following frequencies:

- Prior to discharge offsite (monitoring carried out by the WTP in-built monitoring system)
- Following significant inclement weather events > 20 mm in 24 hours
- Quarterly monitoring of the full suite of physical and chemical stressors and toxicants
- Monthly monitoring for ammonia, cyanide, copper and zinc

### Groundwater Monitoring (GW-1 and GW-2):

Groundwater sampling will be caried out on a quarterly basis at the Basement 3 (B3) groundwater holding tank (GW-1), as shown in Figure 3, and the Basement 6 (B6) sump at the base of the northern shaft (GW-2), as shown in Figure 4, prior to water being pumped from these locations to the WTP. Quarterly monitoring will take place for the same full suite of physical and chemical stressors and toxicants as are being monitored at BW-3.

Figure 3 B3 Groundwater holding tank (GW-1)



Figure 4 B6 Sump at the base of the northern shaft (GW-2)

Water Quality Monitoring Program



## 6. Sampling Exceedance

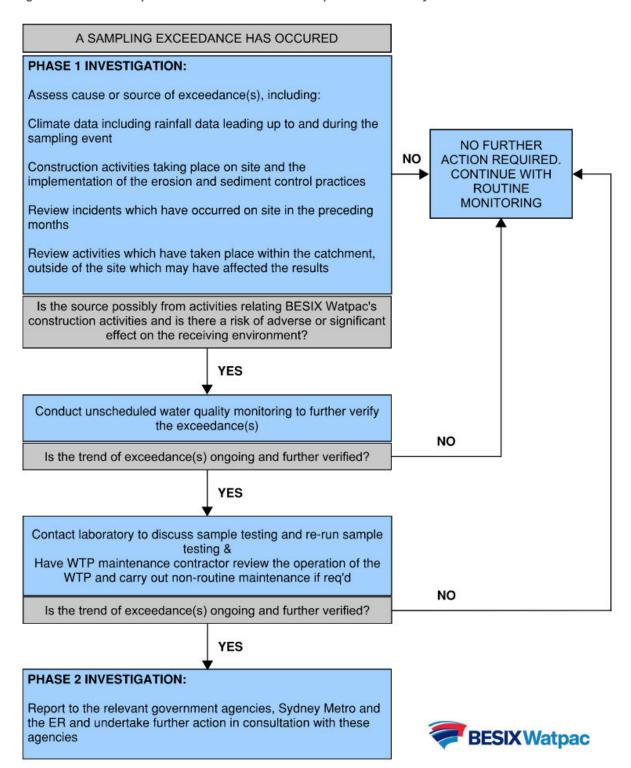
A risk-based approach will be implemented in the event of a water sampling exceedance being recorded. An exceedance occurs when the water quality sample parameter is outside of the trigger value range, or exceeding the trigger values shown in Appendix A. The following items will be reviewed as part of the investigation into the exceedance event:

- · Climate data including rainfall data leading up to and during the sampling event
- Construction activities taking place on site and the implementation of the ESCP
- Contact laboratory to discuss sample testing and possible re-run of sample
- · Review of WTP operations and daily sampling and flow records
- · Conduct unscheduled water quality monitoring

The results of the investigation may result in further action including changes to the monitoring program, modifications to certain construction activities, changes to the WTP process or consultation and reporting with the relevant government regulatory. The response action process for water quality exceedances occurring during monitoring is outlined in Figure 5 below:

Water Quality Monitoring Program

Figure 5 Action process for exceedances in adopted Water Quality Parameters



Water Quality Monitoring Program

# 7. Reporting

Water quality monitoring records will be issued in a Construction Water Quality Monitoring Report (CWQMR) which will be issued to Sydney Metro and the ER via Teambinder for information on a quarterly basis.







Monito	ring Station	0					TRIGGE	R VALUES	
Sydney Harbour	BR WTP	Groundwater (GW-1 &					NSW Water quality & ANZECC (2000)	WDIA Recommendation	
(SB-B-01) X	(BN-3)	GW-2)	Frequency	Parameter	Sampling Method	Analytical Method	(mg/l) >80%ile	(mg/l)	Additional monitoring
X			Monthly	Temperature (degrees celcius)	Probe	Field Analysis	<20%ile Lower Limit - 90		Results are > than the previous monitoring results by 20%
X			Monthly Monthly	Disolved Oxygen (DO %) Turbidity (NTU)	Probe Probe	Field Analysis Field Analysis	Upper Limit - 110 0.5 - 10	88.7	- monitoring resource by 20 %
х					Visual Analysis / Grat				
			Monthly	Oil and grease	sample if required Probe	Visual Analysis Field Analysis (probe)		Visible oil and grease	
X			Monthly Monthly	Electrical Conductivity (uS/cm) TSS (TSS: mg/L)	Grab sample Grab Sample	Lab Analysis (grab sample) Lab Analysis	50 mg/L	_	Describe and the state and the
X			Monthly Monthly	Iron (mg/L) Manganese (mg/L)	Grab Sample Grab Sample	Lab analysis Lab analysis	3.0	0.03	Results are > than the previous monitoring results by 20%
Х			Monthly	pH	Probe Grab sample	Field Analysis (probe) Lab Analysis (grab sample)		pH between 6.5 and 8.5	
	X		Prior to offsite discharge Prior to offsite discharge	Turbidity (NTU)	WTP WTP	WTP in-built monitoring WTP in-built monitoring		10 NTU** pH between 6.5 and 8.5	
					Visual analysis / Grab				
X	X		Daily (when on site) Monthly	Oil and Grease Ammonia*	sample if required Grab Sample	Visual Analysis Lab analysis		Not visible 2*	
X	X		Monthly Monthly	Copper Cyanide	Grab Sample Grab Sample	Lab analysis Lab analysis	0.008	3	
X	X		Monthy Quarterly	Zinc Total Suspended Solids (TSS)	Grab Sample Grab Sample	Lab analysis Lab analysis	0.043	TSS at < 50 mg/l	
				Non Metals					Results are > than the previous
	X	X X	Quarterly Quarterly	Chloride Chromium (hexavalent)	Grab Sample Grab Sample	Lab analysis Lab analysis	0.0044	1	monitoring results by 20%
	x	x	Quarterly	Chromium (trivalent)  Alkali Metals	Grab Sample	Lab analysis	0.0274	4	
	V		O		Cook Cooks	Lab analysis			Results are > than the previous
	X	X	Quarterly	Calcium Alkalinity (speciated)	Grab Sample	Lab analysis			monitoring results by 20%
	х	х	Quarterly	Bicarbonate Alkalinity (as CaCO3)	Grab Sample	Lab analysis			Results are > than the previous monitoring results by 20%
	х	х	Quarterly	Carbonate Alkalinity (as CaCO3)	Grab Sample	Lab analysis			Results are > than the previous monitoring results by 20%
	х	х	Quarterly	Hydroxide Alkalinity (as CaCO3)	Grab Sample	Lab analysis			Results are > than the previous monitoring results by 20%
	x	х	Quarterly	Total Alkalinity (as CaCO3)	Grab Sample	Lab analysis			Results are > than the previous monitoring results by 20%
				Heavy Metals***					Results are > than the previous
	х	х	Quarterly	Aluminium	Grab Sample	Lab analysis			monitoring results by 20%  Results are > than the previous
	Х	Х	Quarterly	Aluminium (filtered)	Grab Sample	Lab analysis			monitoring results by 20%  Results are > than the previous
	Х	Х	Quarterly	Arsenic	Grab Sample	Lab analysis			monitoring results by 20%  Results are > than the previous
	X	X	Quarterly	Arsenic (filtered)	Grab Sample	Lab analysis	0.0058		monitoring results by 20%
	X	X	Quarterly Quarterly	Cadmium Cadmium (filtered)	Grab Sample Grab Sample	Lab analysis Lab analysis	0.005	5	
	X	X	Quarterly Quarterly	Chromium Chromium (filtered)	Grab Sample Grab Sample	Lab analysis Lab analysis	0.0274 0.0058	5	Describe and the same
	х	х	Quarterly	Iron	Grab Sample	Lab analysis			Results are > than the previous monitoring results by 20%
	х	х	Quarterly	Iron (filtered)	Grab Sample	Lab analysis			Results are > than the previous monitoring results by 20%
	X	X	Quarterly Quarterly	Lead Lead (filtered)	Grab Sample Grab Sample	Lab analysis Lab analysis	0.0044 0.0044	<del>1</del>	
	х	х	Quarterly	Manganese	Grab Sample	Lab analysis			Results are > than the previous monitoring results by 20%
	х	х	Quarterly	Manganese (filtered)	Grab Sample	Lab analysis			Results are > than the previous monitoring results by 20%
	X	X X	Quarterly Quarterly	Mercury Mercury (filtered)	Grab Sample Grab Sample	Lab analysis Lab analysis	0.0004		
	X	X	Quarterly Quarterly	Nickel Nickel (filtered)	Grab Sample Grab Sample	Lab analysis Lab analysis	0.07	7	
	^	^	Quarterly	Organochlorine Pesticides	Grab Sample	Lab allalysis	0.01		
	х	х	Quarterly	4.4'-DDD	Grab Sample	Lab analysis			Results are > than the previous monitoring results by 20%
	Х	Х	Quarterly	4.4'-DDE	Grab Sample	Lab analysis			Results are > than the previous monitoring results by 20%
	х	х	Quarterly	4.4'-DDT	Grab Sample	Lab analysis			Results are > than the previous monitoring results by 20%
	x	x	Quarterly	a-BHC	Grab Sample	Lab analysis			Results are > than the previous monitoring results by 20%
	х	х	Quarterly	Aldrin	Grab Sample	Lab analysis			Results are > than the previous monitoring results by 20%
	х	х	Quarterly	Aldrin and Dieldrin (Total)*	Grab Sample	Lab analysis			Results are > than the previous monitoring results by 20%
	х	х	Quarterly	b-BHC	Grab Sample	Lab analysis			Results are > than the previous monitoring results by 20%
	x	x	Quarterly	Chlordanes - Total	Grab Sample	Lab analysis			Results are > than the previous monitoring results by 20%
	x	x	Quarterly	d-BHC	Grab Sample	Lab analysis			Results are > than the previous monitoring results by 20%
	x	x	Quarterly	DDT + DDE + DDD (Total)*	Grab Sample				Results are > than the previous monitoring results by 20%
						Lab analysis			Results are > than the previous
	X	X	Quarterly Quarterly	Dieldrin Endosulfan I	Grab Sample Grab Sample	Lab analysis Lab analysis	0.0000	1	monitoring results by 20%
	х	х	Quarterly	Endosulfan II	Grab Sample	Lab analysis			Results are > than the previous monitoring results by 20%
	х	х	Quarterly	Endosulfan sulphate	Grab Sample	Lab analysis			Results are > than the previous monitoring results by 20%
	Х	Х	Quarterly	Endrin	Grab Sample	Lab analysis	0.000008	3	Results are > than the previous
	X	Х	Quarterly	Endrin aldehyde	Grab Sample	Lab analysis			monitoring results by 20% Results are > than the previous
	Х	Х	Quarterly	Endrin ketone	Grab Sample	Lab analysis			monitoring results by 20% Results are > than the previous
	х	х	Quarterly	g-BHC (Lindane)	Grab Sample	Lab analysis			monitoring results by 20%  Results are > than the previous
	х	х	Quarterly	Heptachlor	Grab Sample	Lab analysis			monitoring results by 20%  Results are > than the previous
	х	х	Quarterly	Heptachlor epoxide	Grab Sample	Lab analysis			monitoring results by 20%  Results are > than the previous
	х	х	Quarterly	Hexachlorobenzene	Grab Sample	Lab analysis			monitoring results by 20%
	х	х	Quarterly	Methoxychlor	Grab Sample	Lab analysis			Results are > than the previous monitoring results by 20%
	х	х	Quarterly	Toxaphene	Grab Sample	Lab analysis			Results are > than the previous monitoring results by 20%
	х	х	Quarterly	Vic EPA IWRG 621 OCP (Total)*	Grab Sample	Lab analysis			Results are > than the previous monitoring results by 20%
	×	х	Quarterly	Vic EPA IWRG 621 Other OCP (Total)*	Grab Sample	Lab analysis			Results are > than the previous monitoring results by 20%
			·	Phenois (Halogenated)	·	·			Results are > than the previous
					1	In a second second	1	1	monitoring results by 20%
	х	х	Quarterly	2.4.5-Trichlorophenol	Grab Sample	Lab analysis			
	X X	x x	Quarterly Quarterly	2.4.5-Trichlorophenol	Grab Sample Grab Sample	Lab analysis			Results are > than the previous monitoring results by 20%
									Results are > than the previous

				T				Results are > than the previous
	X	Х	Quarterly	2-Chlorophenol	Grab Sample	Lab analysis		monitoring results by 20% Results are > than the previous
	X	X X	Quarterly Quarterly	4-Chloro-3-methylphenol Pentachlorophenol	Grab Sample Grab Sample	Lab analysis Lab analysis	0.022	monitoring results by 20%
	×	×	Quarterly	Tetrachlorophenols - Total	Grab Sample	Lab analysis	0.022	Results are > than the previous monitoring results by 20%
	×							Results are > than the previous monitoring results by 20%
	X	X	Quarterly	Total Halogenated Phenol Phenols (non-Halogenated)	Grab Sample	Lab analysis		
	х	Х	Quarterly	2.4-Dimethylphenol	Grab Sample	Lab analysis		Results are > than the previous monitoring results by 20%
	x	х	Quarterly	2.4-Dinitrophenol	Grab Sample	Lab analysis		Results are > than the previous monitoring results by 20%
	x	х	Quarterly	2-Cyclohexyl-4.6-dinitrophenol	Grab Sample	Lab analysis		Results are > than the previous monitoring results by 20%
	х	Х	Quarterly	2-Methyl-4.6-dinitrophenol	Grab Sample	Lab analysis		Results are > than the previous monitoring results by 20%
	x	Х	Quarterly	2-Methylphenol (o-Cresol)	Grab Sample	Lab analysis		Results are > than the previous monitoring results by 20%
	х	Х	Quarterly	2-Nitrophenol	Grab Sample	Lab analysis		Results are > than the previous monitoring results by 20%
	x	X	Quarterly	3&4-Methylphenol (m&p-Cresol)	Grab Sample	Lab analysis		Results are > than the previous monitoring results by 20%
	х	Х	Quarterly	4-Nitrophenol	Grab Sample	Lab analysis		Results are > than the previous monitoring results by 20%
	x	X	Quarterly	Dinoseb	Grab Sample	Lab analysis		Results are > than the previous monitoring results by 20%
	Х	Х	Quarterly	Phenol	Grab Sample	Lab analysis	0.4	Results are > than the previous
	Х	Х	Quarterly	Total Non-Halogenated Phenol	Grab Sample	Lab analysis		monitoring results by 20%
	.,			Polycyclic Aromatic Hydrocarbons				Results are > than the previous
	X	X	Quarterly	Acenaphthene				monitoring results by 20% Results are > than the previous
	X	Х	Quarterly	Acenaphthylene				monitoring results by 20%  Results are > than the previous
	X	Х	Quarterly	Anthracene				monitoring results by 20% Results are > than the previous
	X	Х	Quarterly	Benz(a)anthracene				monitoring results by 20%  Results are > than the previous
	Х	Х	Quarterly	Benzo(a)pyrene				monitoring results by 20%  Results are > than the previous
	Х	Х	Quarterly	Benzo(b&j)fluoranthene				monitoring results by 20%  Results are > than the previous
	Х	Х	Quarterly	Benzo(g.h.i)perylene				monitoring results by 20%  Results are > than the previous
	Х	Х	Quarterly	Benzo(k)fluoranthene				monitoring results by 20% Results are > than the previous
	Х	Х	Quarterly	Chrysene				monitoring results by 20%  Results are > than the previous
	Х	Х	Quarterly	Dibenz(a.h)anthracene				monitoring results by 20%  Results are > than the previous
	Х	Х	Quarterly	Fluoranthene				monitoring results by 20% Results are > than the previous
	Х	Х	Quarterly	Fluorene				monitoring results by 20%  Results are > than the previous
	X	Х	Quarterly	Indeno(1.2.3-cd)pyrene				monitoring results by 20%
	X	Х	Quarterly		Grab Sample	Lab analysis	0.07	Results are > than the previous
	X	Х	Quarterly	Phenanthrene				monitoring results by 20% Results are > than the previous
	X	Х	Quarterly	Pyrene				monitoring results by 20%  Results are > than the previous
	X	Х	Quarterly	Total PAH*  Total Recoverable Hydrocarbons - 1999 N	IEPM Fractions			monitoring results by 20%
	х	Х	Quarterly	TRH C10-36 (Total)				Results are > than the previous monitoring results by 20%
	x	х	Quarterly	TRH C10-C14				Results are > than the previous monitoring results by 20%
	X	х	Quarterly	TRH C15-C28				Results are > than the previous monitoring results by 20%
	x	x	Quarterly	TRH C29-C36				Results are > than the previous monitoring results by 20%
	х	х	Quarterly	TRH C6-C9				Results are > than the previous monitoring results by 20%
				Total Recoverable Hydrocarbons - 2013 N	EPM Fractions			Results are > than the previous
	Х	Х	Quarterly	Naphthalene				monitoring results by 20%  Results are > than the previous
	Х	Х	Quarterly	TRH >C10-C16				monitoring results by 20% Results are > than the previous
	Х	X						
		^	Quarterly	TRH >C10-C16 less Naphthalene (F2)				monitoring results by 20%
	Х	X	Quarterly Quarterly	TRH >C10-C16 less Naphthalene (F2) TRH >C10-C40 (total)*				monitoring results by 20%  Results are > than the previous monitoring results by 20%
1	X							monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% monitoring results by 20%
		Х	Quarterly	TRH >C10-C40 (total)*				monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20%
	х	x x	Quarterly Quarterly	TRH >C10-C40 (total)* TRH >C16-C34				monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20%
	x x	x x x	Quarterly Quarterly Quarterly	TRH >C10-C40 (total)* TRH >C16-C34 TRH >C34-C40 TRH C6-C10 TRH C6-C10 less BTEX (F1)				monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous
	x x x	x x x	Quarterly Quarterly Quarterly Quarterly	TRH >C10-C40 (total)*  TRH >C16-C34  TRH >C34-C40  TRH C6-C10	Grab Sample	Lab analysis	0.7	monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20%
	x x x	x x x x	Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly	TRH >C10-C40 (total)*  TRH >C16-C34  TRH >C34-C40  TRH C6-C10  TRH C6-C10 less BTEX (F1)  Monocyclic Aromatic Hydrocarbons	Grab Sample	Lab analysis	0.7	monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20%
	x x x x	x x x x x x	Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly	TRH >C10-C40 (total)* TRH >C16-C34 TRH >C34-C40 TRH C6-C10 TRH C6-C10 less BTEX (F1) Monocyclic Aromatic Hydrocarbons Benzene	Grab Sample	Lab analysis	0.7	monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20%
	x x x x	x x x x x	Quarterly	TRH > C10-C40 (total)*  TRH > C16-C34  TRH > C34-C40  TRH C6-C10  TRH C6-C10 less BTEX (F1)  Monocyclic Aromatic Hydrocarbons Benzene  Ethylbenzene Isopropyl benzene (Cumene)	Grab Sample	Lab analysis	0.7	monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20%
	x x x x x	x x x x x x	Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly	TRH >C10-C40 (total)* TRH >C16-C34 TRH >C34-C40 TRH C6-C10 TRH C6-C10 less BTEX (F1) Monocyclic Aromatic Hydrocarbons Benzene Ethylbenzene	Grab Sample	Lab analysis	0.7	monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20%  Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20%
	x x x x x x x x x	x x x x x x x x x x x x x	Quarterly	TRH >C10-C40 (total)*  TRH >C16-C34  TRH >C34-C40  TRH C6-C10  TRH C6-C10 less BTEX (F1)  Monocyclic Aromatic Hydrocarbons Benzene  Ethylbenzene  Isopropyl benzene (Cumene)  m&p-Xylenes	Grab Sample	Lab analysis	0.7	monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous
	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x	Quarterly	TRH >C10-C40 (total)*  TRH > C16-C34  TRH > C34-C40  TRH C6-C10  TRH C6-C10  TRH C6-C10 less BTEX (F1)  Monocyclic Aromatic Hydrocarbons  Benzene  Ethylbenzene  Isopropyl benzene (Cumene)  m&p-Xylenes  o-Xylene  Styrene	Grab Sample	Lab analysis	0.7	monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20%
	x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x	Quarterly	TRH >C10-C40 (total)*  TRH > C16-C34  TRH > C34-C40  TRH C6-C10  TRH C6-C10  Monocyclic Aromatic Hydrocarbons  Benzene  Ethylbenzene  Isopropyl benzene (Cumene)  m&p-Xylenes  o-Xylene  Styrene  Toluene	Grab Sample	Lab analysis	0.7	monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20%
	x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x	Quarterly	TRH > C10-C40 (total)*  TRH > C16-C34  TRH > C34-C40  TRH C6-C10  TRH C6-C10  Monocyclic Aromatic Hydrocarbons  Benzene  Ethylbenzene  Isopropyl benzene (Cumene)  m&p-Xylenes  o-Xylene  Styrene  Tolluene  Total MAH*	Grab Sample	Lab analysis	0.7	monitoring results by 20% Results are > than the previous monitoring results by 20%
	x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x	Quarterly	TRH >C10-C40 (total)*  TRH > C16-C34  TRH > C34-C40  TRH C6-C10  TRH C6-C10  Monocyclic Aromatic Hydrocarbons  Benzene  Ethylbenzene  Isopropyl benzene (Cumene)  m&p-Xylenes  o-Xylene  Styrene  Toluene	Grab Sample	Lab analysis	0.7	monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20%
	x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x	Quarterly	TRH >C10-C40 (total)*  TRH >C16-C34  TRH >C34-C40  TRH C6-C10  TRH C6-C10 less BTEX (F1)  Monocyclic Aromatic Hydrocarbons Benzene  Ethylbenzene Isopropyl benzene (Cumene)  m&p-Xylenes o-Xylene  Styrene  Toluene  Total MAH*  Xylenes - Total	Grab Sample	Lab analysis	0.7	monitoring results by 20% Results are > than the previous monitoring results by 20%
	x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x	Quarterly	TRH > C10-C40 (total)*  TRH > C16-C34  TRH > C34-C40  TRH C6-C10  TRH C6-C10  TRH C6-C10 less BTEX (F1)  Monocyclic Aromatic Hydrocarbons  Benzene  Ethylbenzene  Isopropyl benzene (Cumene)  m&p-Xylenes  o-Xylene  Styrene  Toluene  Total MAH*  Xylenes - Total  Volatile Organics	Grab Sample	Lab analysis	0.7	monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20% Results are > than the previous monitoring results by 20%
	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x	Quarterly	TRH > C10-C40 (total)*  TRH > C16-C34  TRH > C34-C40  TRH C6-C10  TRH C6-C10 less BTEX (F1)  Monocyclic Aromatic Hydrocarbons Benzene  Ethylbenzene Isopropyl benzene (Cumene) m&p-Xylenes o-Xylene  Styrene  Toluene  Total MAH*  Xylenes - Total Volatile Organics 1.1.1-Z-Tetrachloroethane 1.1.2-Z-Tetrachloroethane 1.1.2-Z-Tetrachloroethane				monitoring results by 20% Results are > than the previous monitoring results by 20%
	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x	Quarterly	TRH > C10-C40 (total)*  TRH > C16-C34  TRH > C34-C40  TRH C6-C10  TRH C6-C10  TRH C6-C10 less BTEX (F1)  Monocyclic Aromatic Hydrocarbons  Benzene  Ethylbenzene  Isopropyl benzene (Cumene)  m&p-Xylenes  o-Xylene  Styrene  Toluene  Total MAH*  Xylenes - Total  Voiatile Organics  1.1.1-Trichloroethane  1.1.2-Tetrachloroethane  1.1.2-Tetrachloroethane  1.1.2-Trichloroethane  1.1.2-Trichloroethane	Grab Sample  Grab Sample	Lab analysis	0.7	monitoring results by 20% Results are > than the previous monitoring results by 20%
	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x	Quarterly	TRH > C10-C40 (total)*  TRH > C16-C34  TRH > C34-C40  TRH C6-C10  TRH C6-C10 less BTEX (F1)  Monocyclic Aromatic Hydrocarbons Benzene  Ethylbenzene Isopropyl benzene (Cumene) m&p-Xylenes o-Xylene  Styrene  Toluene  Total MAH*  Xylenes - Total Volatile Organics  1.1.1-Trichloroethane 1.1.2-Tetrachloroethane 1.1.2-Trichloroethane 1.1.1-Trichloroethane 1.1.1-Trichloroethane 1.1.1-Trichloroethane 1.1.1-Trichloroethane 1.1.1-Trichloroethane 1.1.1-Trichloroethane				monitoring results by 20% Results are > than the previous monitoring results by 20%
	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x	Quarterly	TRH > C10-C40 (total)*  TRH > C16-C34  TRH > C34-C40  TRH C34-C40  TRH C6-C10  TRH C6-C10 less BTEX (F1)  Monocyclic Aromatic Hydrocarbons Benzene  Ethylbenzene  Isopropyl benzene (Cumene)  m&p-Xylenes  o-Xylene  Styrene  Toluene  Total MAH*  Xylenes - Total  Volatile Organics  1.1.12-Tetrachloroethane  1.1.2-Tetrachloroethane  1.1.2-Trichloroethane  1.1.2-Trichloroethane  1.1.1-Trichloroethane  1.1-Dichloroethane  1.1-Dichloroethane  1.1-Dichloroethane				monitoring results by 20% Results are > than the previous monitoring results by 20%
	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x	Quarterly	TRH > C10-C40 (total)*  TRH > C16-C34  TRH > C34-C40  TRH C6-C10  TRH C6-C10 less BTEX (F1)  Monocyclic Aromatic Hydrocarbons Benzene  Ethylbenzene Isopropyl benzene (Cumene) m&p-Xylenes o-Xylene  Styrene  Toluene  Total MAH*  Xylenes - Total Volatile Organics  1.1.1-Trichloroethane 1.1.2-Tetrachloroethane 1.1.2-Trichloroethane 1.1.1-Trichloroethane 1.1.1-Trichloroethane 1.1.1-Trichloroethane 1.1.1-Trichloroethane 1.1.1-Trichloroethane 1.1.1-Trichloroethane				monitoring results by 20% Results are > than the previous monitoring results by 20%
	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x	Quarterly	TRH > C10-C40 (total)*  TRH > C16-C34  TRH > C34-C40  TRH C34-C40  TRH C6-C10  TRH C6-C10 less BTEX (F1)  Monocyclic Aromatic Hydrocarbons Benzene  Ethylbenzene  Isopropyl benzene (Cumene)  m&p-Xylenes  o-Xylene  Styrene  Toluene  Total MAH*  Xylenes - Total  Volatile Organics  1.1.12-Tetrachloroethane  1.1.2-Tetrachloroethane  1.1.2-Trichloroethane  1.1.2-Trichloroethane  1.1.1-Trichloroethane  1.1-Dichloroethane  1.1-Dichloroethane  1.1-Dichloroethane				monitoring results by 20% Results are > than the previous monitoring results by 20%
	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x	Quarterly	TRH > C10-C40 (total)*  TRH > C16-C34  TRH > C34-C40  TRH C34-C40  TRH C6-C10  TRH C6-C10 less BTEX (F1)  Monocyclic Aromatic Hydrocarbons Benzene  Ethylbenzene Isopropyl benzene (Cumene)  m&p-Xylenes o-Xylene  Styrene  Toluene  Total MAH*  Xylenes - Total  Volatile Organics  1.1.12-Tetrachloroethane 1.1.2-Trichloroethane 1.1.2-Trichloroethane 1.1.1-Dichloroethane 1.1-Dichloroethane 1.2-3-Trichloropropane				monitoring results by 20% Results are > than the previous monitoring results by 20%

х	x	Quarterly	1.2-Dichloroethane			Results are > than the previous monitoring results by 20%
		1				Results are > than the previous
Х	X	Quarterly	1.2-Dichloropropane			monitoring results by 20% Results are > than the previous
Х	X	Quarterly	1.3.5-Trimethylbenzene			monitoring results by 20%
Х	х	Quarterly	1.3-Dichlorobenzene			Results are > than the previous monitoring results by 20%
^	^	Quarterly	1.5-Dichioroperizerie			Results are > than the previous
Х	X	Quarterly	1.3-Dichloropropane			monitoring results by 20%
Х	X	Quarterly	1.4-Dichlorobenzene			Results are > than the previous monitoring results by 20%
х	х	Quarterly	2-Butanone (MEK)			Results are > than the previous monitoring results by 20%
			` '			Results are > than the previous
Х	Х	Quarterly	2-Propanone (Acetone)			monitoring results by 20% Results are > than the previous
X	Х	Quarterly	4-Chlorotoluene			monitoring results by 20%
X	х	Quarterly	4-Methyl-2-pentanone (MIBK)			Results are > than the previous monitoring results by 20%
х	х	Quarterly	Allyl chloride			Results are > than the previous monitoring results by 20%
^	^	Quarterly	Allyl Chloride			Results are > than the previous
Х	X	Quarterly	Bromobenzene			monitoring results by 20% Results are > than the previous
Х	X	Quarterly	Bromochloromethane			monitoring results by 20%
х	V	0	Bromodichloromethane			Results are > than the previous monitoring results by 20%
X	Х	Quarterly	Bromodicniorometnane			Results are > than the previous
Х	X	Quarterly	Bromoform			monitoring results by 20%
Х	х	Quarterly	Bromomethane			Results are > than the previous monitoring results by 20%
.,	.,					Results are > than the previous
X	Х	Quarterly	Carbon disulfide			monitoring results by 20% Results are > than the previous
Х	X	Quarterly	Carbon Tetrachloride			monitoring results by 20% Results are > than the previous
Х	Х	Quarterly	Chlorobenzene			monitoring results by 20%
x	x	Quarterly	Chloroethane			Results are > than the previous monitoring results by 20%
						Results are > than the previous
X	Х	Quarterly	Chloroform			monitoring results by 20% Results are > than the previous
Χ	X	Quarterly	Chloromethane			monitoring results by 20% Results are > than the previous
X	x	Quarterly	cis-1.2-Dichloroethene			monitoring results by 20%
						Results are > than the previous
X	Х	Quarterly	cis-1.3-Dichloropropene			monitoring results by 20% Results are > than the previous
Х	Х	Quarterly	Dibromochloromethane			monitoring results by 20% Results are > than the previous
Х	х	Quarterly	Dibromomethane			monitoring results by 20%
V	V	0	Disklass difference also			Results are > than the previous
Х	X	Quarterly	Dichlorodifluoromethane			monitoring results by 20% Results are > than the previous
Х	Х	Quarterly	Iodomethane			monitoring results by 20%  Results are > than the previous
Х	х	Quarterly	Methylene Chloride			monitoring results by 20%
х	x	Quarterly	Tetrachloroethene			Results are > than the previous monitoring results by 20%
						Results are > than the previous
Х	Х	Quarterly	trans-1.2-Dichloroethene			monitoring results by 20%  Results are > than the previous
X	Х	Quarterly	trans-1.3-Dichloropropene			monitoring results by 20% Results are > than the previous
Х	Х	Quarterly	Trichloroethene			monitoring results by 20%
X	x	Quarterly	Trichlorofluoromethane			Results are > than the previous monitoring results by 20%
х	х	Quarterly	Vic EPA IWRG 621 CHC (Total)			Results are > than the previous monitoring results by 20%
		Quarterly				Results are > than the previous
Х	Х	Quarterly	Vic EPA IWRG 621 Other CHC (Total)			monitoring results by 20% Results are > than the previous
Х	Х	Quarterly	Vinyl chloride			monitoring results by 20%

\*Ammonia trigger value of 2 mg/l (based off performance of Barangaroo WTP) 80% Species protection 95% Species protection

\*\*The WDIA set the Turbidity trigger value based on the NSW Water Quality Objective value.

\*\*\*for heavy metals, it's important to know the filtered (dissolved metal concentration) and the total metal concentration (unfiltered sample). Treatment options for potential elevated dissolved metals (filtered) may be different than if the elevation occurs in the unfiltered sample.