



## Surface Water Monitoring

<b>EPL No:</b>	11584
<b>Date of Sampling</b>	28/5/21 & 17/6/21
<b>Date of Results Received</b>	24/06/21

Pollutant	Unit*	Frequency	Limits	Monitoring Location Identification		
				HPSW1 (1)	HPSW2 (6)	HPSW3 (7)
pH	pH	Quarterly		7.66	7.58	8.02
Electrical Conductivity (EC)	µS/cm	Quarterly		990	1360	1400
Total Dissolved Solids (TDS)	mg/L	Quarterly		624	681	800
Total Suspended Solids (TSS)	mg/L	Quarterly		18	<5	106
Alkalinity as CaCO <sub>3</sub>	mg/L	Quarterly		226	209	256
Aluminium	mg/L	Annual		0.54	0.2	1.88
Arsenic	mg/L	Annual		0.001	<0.001	0.002
Barium	mg/L	Annual		0.22	0.124	0.112
Cadmium	mg/L	Annual		0.0002	<0.0001	<0.0001
Total Chromium	mg/L	Annual		<0.001	<0.001	0.003
Hexavalent Chromium	mg/L	Annual		<0.01	<0.01	<0.01
Cobalt	mg/L	Annual		0.002	<0.001	0.002
Copper	mg/L	Annual		0.016	0.004	0.012
Lead	mg/L	Annual		0.003	<0.001	0.003
Mercury	mg/L	Annual		<0.0001	<0.0001	<0.0001
Zinc	mg/L	Annual		0.043	0.018	0.203
Ammonia as N	mg/L	Quarterly		0.89	<0.01	0.06
Nitrite and Nitrate as N	mg/L	Quarterly		0.04	<0.01	0.33
Phosphorus as P – total	mg/L	Annual		0.16	0.10	0.22
Total Phenolics	mg/L	Quarterly		<0.05	<0.05	<0.05
Total Organic Carbon	mg/L	Quarterly		27	28	<1
Biochemical Oxygen Demand	mg/L	Quarterly		<2	2	2
Chlorinated volatile compounds (CVC)	µg/L	Annual		<50	<50	<50
Organochlorine pesticides (OCP)	µg/L	Annual		<2	<2	<2
Organophosphate pesticides (OPP)	µg/L	Annual		<2	<2	<2
Polychlorinated biphenyls (PCB)	µg/L	Annual		<1	<1	<1
Polycyclic aromatic hydrocarbons (PAH)	µg/L	Annual		<1	<1	<1
<b>Total Petroleum Hydrocarbons (TPH)</b>						
C6 – C9 Fraction	µg/L	Annual		<20	<20	<20
C10 – C14 Fraction	µg/L	Annual		<50	<50	<50
C15 – C28 Fraction	µg/L	Annual		<100	<100	<100
C29 – C36 Fraction	µg/L	Annual		<50	<50	<50
<b>BTEX</b>						
Benzene	µg/L	Annual		<1	<1	<1
Toluene	µg/L	Annual		<2	<2	<2
Ethylbenzene	µg/L	Annual		<2	<2	<2
meta- & para Xylene	µg/L	Annual		<2	<2	<2
ortho - Xylene	µg/L	Annual		<2	<2	<2

* Unit of Measure Abbreviations	
Metres	m
Microsiemens per centimetre	µS/cm
Milligrams per Litre	mg/L
Micrograms per Litre	µg/L