

SIA sampling results for two sites sampled October 21 2016

Parameter	Units	Weir	SW-1	Water Quality Guidelines (approved and working) for the Protection of Aquatic Life WEIR SITE		Water Quality Guidelines (approved and working) for the Protection of Aquatic Life SW-1	
				Chronic	Acute	Chronic	Acute
EMS Site Number							
Sample Date		21-Oct-16	21-Oct-16	Chronic	Acute	Chronic	Acute
Depth / Duplicate							
Conductivity	µS/cm	514	692				
Turbidity	NTU	194	21.7				Change of 5
Total Suspended Solids	mg/L	46	21	25**		Change of 5	Change of 25
Hardness - Total	mg/L	160	236				
<b>Anions</b>							
Chloride -Dissolved	mg/L	60.8	74.1	150	600	150	600
Sulphate	mg/L	88.7	141	429		218	
<b>Volatile Organic Compounds (Water)</b>							
Benzene	mg/L	<0.0005	<0.0005		0.04		0.04
Ethylbenzene	mg/L	<0.001	<0.001		0.2		0.2
Methyl t-butyl ether (MTBE)	mg/L	<0.001	<0.001		3.4		3.4
Styrene	mg/L	<0.001	<0.001	0.072			
Toluene	mg/L	<0.001	<0.001		0.0005		0.0005
ortho-Xylene	mg/L						
meta- & para-Xylene	mg/L						
Xylenes	mg/L	<0.002	<0.002		0.030		0.030
<b>Polycyclic Aromatic Hydrocarbons (Water)</b>							
Acenaphthene	mg/L	<0.00005	<0.00005				
Acenaphthylene	mg/L	<0.0002	<0.0002				
Acridine	mg/L	<0.0001	<0.0001				
Anthracene	mg/L	<0.00001	<0.00001				

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Benz(a)anthracene	mg/L	<0.00001	<0.00001				
Benzo(a)pyrene	mg/L	<0.00001	<0.00001				
Benzo(b)fluoranthene	mg/L	<0.00005	<0.00005				
Benzo(g,h,i)perylene	mg/L	<0.00005	<0.00005				
Benzo(k)fluoranthene	mg/L	<0.00005	<0.00005				
Chrysene	mg/L	<0.00005	<0.00005				
Dibenz(a,h)anthracene	mg/L	<0.00005	<0.00005				
Fluoranthene	mg/L	<0.00003	<0.00003				
Fluorene	mg/L	<0.00005	<0.00005				
Indeno(1,2,3-c,d)pyrene	mg/L	<0.00005	<0.00005				
Naphthalene	mg/L	<0.0002	<0.0002		0.001		0.001
Phenanthrene	mg/L	<0.0001	<0.0001				
Pyrene	mg/L	<0.00002	<0.00002				
Quinoline	mg/L	<0.0001	<0.0001	0.00034		0.00034	

\*Hardness dependent WQG

Detection Limits are above WQGs

Requires background hardness

Permit exceedance

\*\* this is a permit limit requirement