

Sediment Quality Verification Dataset - Summary

North Saskatchewan River Release

Note: Sediment samples were initially sent to SRC for analysis but are now being sent to ALS.

SRC is not accredited for PAH analysis in sediments and has higher detection limits for PAHs than ALS

Many of the PAH compounds detected in samples sent to ALS are below the SRC detection limits

The higher sensitivity of ALS analyses results in more PAH detections than SRC

A table comparing detection limits is given below the data

Sample Date	Sample Time	Location	Sample Type	ID	Lab	Substance	Result	Unit	CCME ISQG Exceedance ¹	CCME PEL Exceedance ²
WSA Sediment Sampling										

Hwy 3 (Upstream of POE)

16-Aug-16	15:50	Hwy 3 Southwest Bank	Sediment	L1815494-2	ALS	Toluene	0.226	mg/kg	NS	NS
						Acenaphthene	0.0062	mg/kg	0.00671	0.0889
						Benzo(a)anthracene	0.011	mg/kg	0.0317	0.385
						Benzo(a)pyrene	0.013	mg/kg	0.0319	0.782
						Benzo(b&j)fluoranthene	0.048	mg/kg	NS	NS
						Benzo(g,h,i)perylene	0.035	mg/kg	NS	NS
						Dibenzo(a,h)anthracene	0.0063	mg/kg	0.00622	0.135
						Fluoranthene	0.021	mg/kg	0.111	2.355
						Fluorene	0.019	mg/kg	0.0212	0.144
						Indeno(1,2,3-cd)pyrene	0.011	mg/kg	NS	NS
						1-Methylnaphthalene	0.108	mg/kg	NS	NS
						2-Methylnaphthalene	0.161	mg/kg	0.0202	0.201
						Naphthalene	0.053	mg/kg	0.0346	0.391
Phenanthrene	0.146	mg/kg	0.0419	0.515						
Pyrene	0.036	mg/kg	0.053	0.875						
						Toluene	0.99	mg/kg	NS	NS
						Benzo(a)anthracene	0.01	mg/kg	0.0317	0.385
						Benzo(a)pyrene	0.011	mg/kg	0.0319	0.782
						Benzo(b&j)fluoranthene	0.037	mg/kg	NS	NS
						Benzo(g,h,i)perylene	0.023	mg/kg	NS	NS

16-Aug-16	15:00	Hwy 3 Northeast Bank	Sediment	L1815494-1	ALS	Fluoranthene	0.02	mg/kg	0.111	2.355
						Fluorene	0.012	mg/kg	0.0212	0.144
						1-Methylnaphthalene	0.053	mg/kg	NS	NS
						2-Methylnaphthalene	0.076	mg/kg	0.0202	0.201
						Naphthalene	0.026	mg/kg	0.0346	0.391
						Phenanthrene	0.083	mg/kg	0.0419	0.515
						Pyrene	0.032	mg/kg	0.053	0.875

Monnery River

3-Oct-16	12:00	N Sask River near Monnery River Confluence	Sediment	L1840238-1	ALS	Toluene	0.081	mg/kg	NS	NS
						Benzo(a)pyrene	0.011	mg/kg	0.0319	0.782
						Benzo(b&j)fluoranthene	0.025	mg/kg	NS	NS
						Benzo(g,h,i)perylene	0.013	mg/kg	NS	NS
						Fluoranthene	0.018	mg/kg	0.111	2.355
						1-Methylnaphthalene	0.02	mg/kg	NS	NS
						2-Methylnaphthalene	0.026	mg/kg	0.0202	0.201
						Naphthalene	0.011	mg/kg	0.0346	0.391
						Phenanthrene	0.035	mg/kg	0.0419	0.515
						Pyrene	0.022	mg/kg	0.053	0.875

Point of Entry

05-Aug-16	11:15		Sediment	23698	SRC	2-Methylnaphthalene	0.1	mg/kg	0.0202	0.201
						Phenanthrene	0.2	mg/kg	0.0419	0.515
						Ethylbenzene	0.01	mg/kg	NS	NS
						Toluene	0.13	mg/kg	NS	NS
						F2 hydrocarbons	14	mg/kg	NS	NS
						F3 hydrocarbons	290	mg/kg	NS	NS
						F4 hydrocarbons	86	mg/kg	NS	NS
08-Aug-16	14:20		Sediment	L1811886-6	ALS	Toluene	1.64	mg/kg	NS	NS
						F2 hydrocarbons	48	mg/kg	NS	NS
						F3 hydrocarbons	310	mg/kg	NS	NS
						TEH (C23-C60)	460	mg/kg	NS	NS
						F4 hydrocarbons	163	mg/kg	NS	NS
						Total Hydrocarbons	520	mg/kg	NS	NS
						Benzo(a)pyrene	0.011	mg/kg	0.0319	0.782
						Benzo(b&j)fluoranthene	0.031	mg/kg	NS	NS
						Benzo(g,h,i)perylene	0.024	mg/kg	NS	NS
						Fluoranthene	0.018	mg/kg	0.111	2.355
						Fluorene	0.013	mg/kg	0.0212	0.144
						1-Methylnaphthalene	0.052	mg/kg	NS	NS
						2-Methylnaphthalene	0.075	mg/kg	0.0202	0.201
Naphthalene	0.027	mg/kg	0.0346	0.391						

					Phenanthrene	0.076	mg/kg	0.0419	0.515
					Pyrene	0.028	mg/kg	0.053	0.875
11-Aug-16	12:00	Sediment	L1813385-5	ALS	Toluene	1.18	mg/kg	NS	NS
					F3 hydrocarbons	162	mg/kg	NS	NS
					F3-PAH	162	mg/kg	NS	NS
					Total Hydrocarbons	162	mg/kg	NS	NS
					Acenaphthene	0.0061	mg/kg	0.00671	0.0889
					Benzo(b&j)fluoranthene	0.021	mg/kg	NS	NS
					Benzo(g,h,i)perylene	0.016	mg/kg	NS	NS
					Fluoranthene	0.014	mg/kg	0.111	2.355
					Fluorene	0.015	mg/kg	0.0212	0.144
					1-Methylnaphthalene	0.047	mg/kg	NS	NS
					2-Methylnaphthalene	0.067	mg/kg	0.0202	0.201
					Naphthalene	0.025	mg/kg	0.0346	0.391
					Phenanthrene	0.063	mg/kg	0.0419	0.515
					Pyrene	0.021	mg/kg	0.053	0.875
11-Aug-16	12:30	Sediment	L1813385-6 (Duplicate)	ALS	Toluene	0.185	mg/kg	NS	NS
					F3 hydrocarbons	68	mg/kg	NS	NS
					F3-PAH	68	mg/kg	NS	NS
					Total Hydrocarbons	68	mg/kg	NS	NS
					Benzo(b&j)fluoranthene	0.017	mg/kg	NS	NS
					Benzo(g,h,i)perylene	0.011	mg/kg	NS	NS
					Fluoranthene	0.013	mg/kg	0.111	2.355
					Fluorene	0.013	mg/kg	0.0212	0.144
					1-Methylnaphthalene	0.026	mg/kg	NS	NS
					2-Methylnaphthalene	0.037	mg/kg	0.0202	0.201
					Naphthalene	0.013	mg/kg	0.0346	0.391
					Phenanthrene	0.06	mg/kg	0.0419	0.515
					Pyrene	0.021	mg/kg	0.053	0.875
15-Aug-16	10:00	Sediment	L181-15687-7	ALS	Toluene	3.29	mg/kg	NS	NS
					F2 hydrocarbons	34	mg/kg	NS	NS
					F2 hydrocarbons-Naphth	34	mg/kg	NS	NS
					F3 hydrocarbons	299	mg/kg	NS	NS
					F3 PAHs	299	mg/kg	NS	NS
					F4 hydrocarbons	133	mg/kg	NS	NS
					Total Hydrocarbons	466	mg/kg	NS	NS
					Naphthalene	0.03	mg/kg	0.0346	0.391
					1-Methylnaphthalene	0.062	mg/kg	NS	NS
					2-Methylnaphthalene	0.092	mg/kg	0.0202	0.201
					Acenaphthene	0.0087	mg/kg	0.00671	0.0889

					Fluorene	0.025	mg/kg	0.0212	0.144	
					Phenanthrene	0.12	mg/kg	0.0419	0.515	
					Anthracene	0.0046	mg/kg	0.0469	0.245	
					Fluoranthene	0.023	mg/kg	0.111	2.355	
					Pyrene	0.041	mg/kg	0.053	0.875	
					Benzo(a)anthracene	0.011	mg/kg	0.0317	0.385	
					Benzo(b&j)fluoranthene	0.035	mg/kg	NS	NS	
					Benzo(a)pyrene	0.015	mg/kg	0.0319	0.782	
					Indeno(1,2,3-cd)pyrene	0.01	mg/kg	NS	NS	
					Benzo(g,h,i)perylene	0.026	mg/kg	NS	NS	
22-Aug-16	9:30		Sediment	L1818612-4	ALS	Pyrene	0.011	mg/kg	0.053	0.875
30-Aug-16	12:50	Point of Entry South Bank	Sediment	L1822731-1	ALS	Toluene	0.204	mg/kg	NS	NS
						F3 hydrocarbons	146	mg/kg	NS	NS
						TEH (C23-C60)	270	mg/kg	NS	NS
						F3-PAH	146	mg/kg	NS	NS
						F4 hydrocarbons	90	mg/kg	NS	NS
						Total Hydrocarbons	236	mg/kg	NS	NS
						Benzo(a)anthracene	0.01	mg/kg	0.0317	0.385
						Benzo(a)pyrene	0.012	mg/kg	0.0319	0.782
						Benzo(b&j)fluoranthene	0.034	mg/kg	NS	NS
						Benzo(g,h,i)perylene	0.02	mg/kg	NS	NS
						Fluoranthene	0.018	mg/kg	0.111	2.355
						1-Methylnaphthalene	0.037	mg/kg	NS	MS
						2-Methylnaphthalene	0.051	mg/kg	0.0202	0.201
						Naphthalene	0.02	mg/kg	0.0346	0.391
Phenanthrene	0.06	mg/kg	0.0419	0.515						
Pyrene	0.025	mg/kg	0.053	0.875						
30-Aug-16	13:10	Point of Entry South Bank	Sediment	L1822731-2 (Duplicate)	ALS	Toluene	0.249	mg/kg	NS	NS
						F3 hydrocarbons	140	mg/kg	NS	NS
						TEH (C23-C60)	250	mg/kg	NS	NS
						F3-PAH	140	mg/kg	NS	NS
						F4 hydrocarbons	79	mg/kg	NS	NS
						Total Hydrocarbons	219	mg/kg	NS	NS
						Benzo(a)anthracene	0.013	mg/kg	0.0317	0.385
						Benzo(a)pyrene	0.016	mg/kg	0.0319	0.782
						Benzo(b&j)fluoranthene	0.044	mg/kg	NS	NS
						Benzo(g,h,i)perylene	0.024	mg/kg	NS	NS
						Fluoranthene	0.024	mg/kg	0.111	2.355
						Fluorene	0.012	mg/kg	0.0212	0.144
Indeno(1,2,3-cd)pyrene	0.011	mg/kg	NS	NS						

06-Sep-16	10:20
20-Sep-16	10:30

					1-Methylnaphthalene	0.035	mg/kg	NS	NS
					2-Methylnaphthalene	0.048	mg/kg	0.0202	0.201
					Naphthalene	0.017	mg/kg	0.0346	0.391
					Phenanthrene	0.072	mg/kg	0.0419	0.515
					Pyrene	0.034	mg/kg	0.053	0.875
					Toluene	0.08	mg/kg	NS	NS
					F2 Hydrocarbons	123	mg/kg	NS	NS
					TEH (C11-C22)	497	mg/kg	NS	NS
					F3 hydrocarbons	970	mg/kg	NS	NS
					TEH (C23-C60)	1150	mg/kg	NS	NS
					F4 hydrocarbons	404	mg/kg	NS	NS
					Total Hydrocarbons	1500	mg/kg	NS	NS
					Acenaphthene	0.0335	mg/kg	0.00671	0.0889
					Benzo(g,h,i)perylene	0.028	mg/kg	NS	NS
					Dibenzo(a,h)anthracene	0.0074	mg/kg	0.00622	0.135
					Fluoranthene	0.056	mg/kg	0.111	2.355
					Fluorene	0.103	mg/kg	0.0212	0.144
					Indeno(1,2,3-cd)pyrene	0.014	mg/kg	NS	NS
					1-Methylnaphthalene	0.068	mg/kg	NS	NS
					2-Methylnaphthalene	0.1	mg/kg	0.0202	0.201
					Naphthalene	0.02	mg/kg	0.0346	0.391
					Phenanthrene	0.397	mg/kg	0.0419	0.515
					Pyrene	0.099	mg/kg	0.053	0.875
					Benzene	0.0059	mg/kg	NS	NS
					Ethylbenzene	0.019	mg/kg	NS	NS
					Toluene	0.696	mg/kg	NS	NS
					m+p-Xylene	0.074	mg/kg	NS	NS
					F2 Hydrocarbons	224	mg/kg	NS	NS
					TEH (C11-C22)	688	mg/kg	NS	NS
					F3 hydrocarbons	1220	mg/kg	NS	NS
					TEH (C23-C60)	1540	mg/kg	NS	NS
					F4 hydrocarbons	551	mg/kg	NS	NS
					Total Hydrocarbons	2000	mg/kg	NS	NS
					Acenaphthene	0.0273	mg/kg	0.00671	0.0889
					Benzo(a)pyrene	0.02	mg/kg	0.0319	0.782
					Benzo(b&j)fluoranthene	0.046	mg/kg	NS	NS
					Benzo(g,h,i)perylene	0.032	mg/kg	NS	NS
					Dibenzo(a,h)anthracene	0.0067	mg/kg	0.00622	0.135
					Fluoranthene	0.033	mg/kg	0.111	2.355
					Fluorene	0.06	mg/kg	0.0212	0.144

						Indeno(1,2,3-cd)pyrene	0.014	mg/kg	NS	NS
						1-Methylnaphthalene	0.09	mg/kg	NS	NS
						2-Methylnaphthalene	0.125	mg/kg	0.0202	0.201
						Naphthalene	0.039	mg/kg	0.0346	0.391
						Phenanthrene	0.198	mg/kg	0.0419	0.515
						Pyrene	0.047	mg/kg	0.053	0.875
27-Sep-16	11:15		Sediment	L1836780-1	ALS	Benzene	0.0136	mg/kg	NS	NS
						Ethylbenzene	0.018	mg/kg	NS	NS
						Toluene	0.143	mg/kg	NS	NS
						m+p-Xylene	0.057	mg/kg	NS	NS
						Benzo(b&j)fluoranthene	0.015	mg/kg	NS	NS
						1-Methylnaphthalene	0.015	mg/kg	NS	NS
						2-Methylnaphthalene	0.018	mg/kg	0.0202	0.201
						Phenanthrene	0.023	mg/kg	0.0419	0.515
						Pyrene	0.013	mg/kg	0.053	0.875
05-Aug-16	12:35	POE Centre Channel	Sediment	23699	SRC	Toluene	0.14	mg/kg	NS	NS
05-Aug-16	13:45		Sediment	23700	SRC	Toluene	0.03	mg/kg	NS	NS
08-Aug-16	15:20		Sediment	L1811886-7	ALS	Toluene	0.116	mg/kg	NS	NS
						2-Methylnaphthalene	0.01	mg/kg	0.0202	0.201
						Phenanthrene	0.013	mg/kg	0.0419	0.515
11-Aug-16	14:45		Sediment	L1813385-7	ALS	Toluene	9.84	mg/kg	NS	NS
						F3 hydrocarbons	66	mg/kg	NS	NS
						F3-PAH	66	mg/kg	NS	NS
						Total Hydrocarbons	66	mg/kg	NS	NS
						Benzo(b&j)fluoranthene	0.021	mg/kg	NS	NS
						Benzo(g,h,i)perylene	0.015	mg/kg	NS	NS
						Fluoranthene	0.012	mg/kg	0.111	2.355
						1-Methylnaphthalene	0.046	mg/kg	NS	NS
						2-Methylnaphthalene	0.063	mg/kg	0.0202	0.201
						Naphthalene	0.024	mg/kg	0.0346	0.391
						Phenanthrene	0.053	mg/kg	0.0419	0.515
						Pyrene	0.019	mg/kg	0.053	0.875
15-Aug-16	11:00		Sediment	L1815687-8	ALS	Toluene	5.8	mg/kg	NS	NS
						F3 hydrocarbons	126	mg/kg	NS	NS
						F3 PAHs	126	mg/kg	NS	NS
						F4 hydrocarbons	55	mg/kg	NS	NS
						Total Hydrocarbons	181	mg/kg	NS	NS
						Naphthalene	0.022	mg/kg	0.0346	0.391
						1-Methylnaphthalene	0.04	mg/kg	NS	NS
						2-Methylnaphthalene	0.056	mg/kg	0.0202	0.201

15-Aug-16	11:15
22-Aug-16	10:45
30-Aug-16	14:20

Point of Entry North Bank

			Fluorene	0.01	mg/kg	0.0212	0.144
			Phenanthrene	0.059	mg/kg	0.0419	0.515
			Fluoranthene	0.016	mg/kg	0.111	2.355
			Pyrene	0.025	mg/kg	0.053	0.875
			Benzo(b&j)fluoranthene	0.028	mg/kg	NS	NS
			Benzo(g,h,i)perylene	0.021	mg/kg	NS	NS
			Toluene	21.4	mg/kg	NS	NS
			F3 hydrocarbons	100	mg/kg	NS	NS
			F3 PAHs	100	mg/kg	NS	NS
			Total Hydrocarbons	121	mg/kg	NS	NS
			Naphthalene	0.019	mg/kg	0.0346	0.391
			1-Methylnaphthalene	0.037	mg/kg	NS	NS
			2-Methylnaphthalene	0.051	mg/kg	0.0202	0.201
			Phenanthrene	0.058	mg/kg	0.0419	0.515
			Fluoranthene	0.016	mg/kg	0.111	2.355
			Pyrene	0.024	mg/kg	0.053	0.875
			Benzo(b&j)fluoranthene	0.028	mg/kg	NS	NS
			Benzo(g,h,i)perylene	0.02	mg/kg	NS	NS
			Toluene	0.718	mg/kg	NS	NS
			F3 hydrocarbons	88	mg/kg	NS	NS
			Total Hydrocarbons	88	mg/kg	NS	NS
			TEH (C23-C60)	110	mg/kg	NS	NS
			Naphthalene	0.04	mg/kg	0.0346	0.391
			1-Methylnaphthalene	0.079	mg/kg	NS	NS
			2-Methylnaphthalene	0.113	mg/kg	0.0202	0.201
			Fluorene	0.027	mg/kg	0.0212	0.144
			Phenanthrene	0.102	mg/kg	0.0419	0.515
			Fluoranthene	0.019	mg/kg	0.111	2.355
			Pyrene	0.03	mg/kg	0.053	0.875
			Benzo(b&j)fluoranthene	0.033	mg/kg	NS	NS
			Benzo(g,h,i)perylene	0.027	mg/kg	NS	NS
			Toluene	0.094	mg/kg	NS	NS
			Benzo(b&j)fluoranthene	0.021	mg/kg	NS	NS
			Fluoranthene	0.01	mg/kg	0.111	2.355
			1-Methylnaphthalene	0.021	mg/kg	NS	NS
			2-Methylnaphthalene	0.028	mg/kg	0.0202	0.201
			Naphthalene	0.011	mg/kg	0.0346	0.391
			Phenanthrene	0.035	mg/kg	0.0419	0.515
			Pyrene	0.016	mg/kg	0.053	0.875
			Toluene	0.427	mg/kg	NS	NS

06-Sep-16	11:45	Sediment	L1825702-2	ALS	Benzo(b&j)fluoranthene	0.021	mg/kg	NS	NS
					Benzo(g,h,i)perylene	0.011	mg/kg	NS	NS
					Fluoranthene	0.011	mg/kg	0.111	2.355
					Fluorene	0.011	mg/kg	0.0212	0.144
					1-Methylnaphthalene	0.034	mg/kg	NS	NS
					2-Methylnaphthalene	0.048	mg/kg	0.0202	0.201
					Naphthalene	0.018	mg/kg	0.0346	0.391
					Phenanthrene	0.051	mg/kg	0.0419	0.515
27-Sep-16	12:00	Sediment	L1836780-2	ALS	Pyrene	0.017	mg/kg	0.053	0.875
					Toluene	0.08	mg/kg	NS	NS
					Benzo(b&j)fluoranthene	0.013	mg/kg	NS	NS
					1-Methylnaphthalene	0.015	mg/kg	NS	NS
					2-Methylnaphthalene	0.018	mg/kg	0.0202	0.201
					Phenanthrene	0.023	mg/kg	0.0419	0.515
Pyrene	0.013	mg/kg	0.053	0.875					

Highway #21

04-Aug-16	18:45	Sediment	23504	SRC	2-Methylnaphthalene	0.2	mg/kg	0.0202	0.201
					Phenanthrene	0.3	mg/kg	0.0419	0.515
					Toluene	0.67	mg/kg	NS	NS
					F2 hydrocarbons	16	mg/kg	NS	NS
					F3 hydrocarbons	240	mg/kg	NS	NS
					F4 hydrocarbons	61	mg/kg	NS	NS
12-Aug-16	9:10	Sediment	L1813360-2	ALS	Toluene	1.05	mg/kg	NS	NS
					F3 hydrocarbons	237	mg/kg	NS	NS
					F3-PAH	237	mg/kg	NS	NS
					F4 hydrocarbons	73	mg/kg	NS	NS
					Total Hydrocarbons	310	mg/kg	NS	NS
					Benzo(a)pyrene	0.01	mg/kg	0.0319	0.782
					Benzo(b&j)fluoranthene	0.029	mg/kg	NS	NS
					Benzo(g,h,i)perylene	0.024	mg/kg	NS	NS
					Fluoranthene	0.02	mg/kg	0.111	2.355
					Fluorene	0.02	mg/kg	0.0212	0.144
					1-Methylnaphthalene	0.076	mg/kg	NS	NS
					2-Methylnaphthalene	0.109	mg/kg	0.0202	0.201
					Naphthalene	0.034	mg/kg	0.0346	0.391
					Phenanthrene	0.108	mg/kg	0.0419	0.515
Pyrene	0.032	mg/kg	0.053	0.875					
					Toluene	0.077	mg/kg	NS	NS
					1-Methylnaphthalene	0.016	mg/kg	NS	NS

15-Aug-16	13:45
22-Aug-16	12:45
22-Aug-16	12:50
30-Aug-16	16:00
06-Sep-16	14:20

Highway #21 South Bank

Sediment	L1815687-11	ALS	2-Methylnaphthalene	0.019	mg/kg	0.0202	0.201
			Phenanthrene	0.022	mg/kg	0.0419	0.515
			Pyrene	0.016	mg/kg	0.053	0.875
			Benzo(b&j)fluoranthene	0.016	mg/kg	NS	NS
Sediment	L1818612-6	ALS	1-Methylnaphthalene	0.014	mg/kg	NS	NS
			2-Methylnaphthalene	0.019	mg/kg	0.0202	0.201
			Phenanthrene	0.018	mg/kg	0.0419	0.515
			Pyrene	0.012	mg/kg	0.053	0.875
Sediment	L1818612-7 (Duplicate)	ALS	Toluene	0.095	mg/kg	NS	NS
			F3 hydrocarbons	142	mg/kg	NS	NS
			F4 hydrocarbons	58	mg/kg	NS	NS
			Total Hydrocarbons	200	mg/kg	NS	NS
			TEH (C11-C22)	58	mg/kg	NS	NS
			TEH (C23-C60)	180	mg/kg	NS	NS
			Naphthalene	0.017	mg/kg	0.0346	0.391
			1-Methylnaphthalene	0.032	mg/kg	NS	NS
			2-Methylnaphthalene	0.045	mg/kg	0.0202	0.201
			Fluorene	0.023	mg/kg	0.0212	0.144
			Phenanthrene	0.083	mg/kg	0.0419	0.515
			Fluoranthene	0.018	mg/kg	0.111	2.355
			Pyrene	0.026	mg/kg	0.053	0.875
			Benzo(b&j)fluoranthene	0.021	mg/kg	NS	NS
			Benzo(g,h,i)perylene	0.012	mg/kg	NS	NS
Sediment	L1822731-4	ALS	Toluene	0.077	mg/kg	NS	NS
			F3 hydrocarbons	113	mg/kg	NS	NS
			TEH (C23-C60)	200	mg/kg	NS	NS
			F3-PAH	113	mg/kg	NS	NS
			F4 hydrocarbons	65	mg/kg	NS	NS
			Total Hydrocarbons	178	mg/kg	NS	NS
			Benzo(b&j)fluoranthene	0.024	mg/kg	NS	NS
			Benzo(g,h,i)perylene	0.012	mg/kg	NS	NS
			Fluoranthene	0.012	mg/kg	0.111	2.355
			1-Methylnaphthalene	0.022	mg/kg	NS	NS
			2-Methylnaphthalene	0.03	mg/kg	0.0202	0.201
			Naphthalene	0.012	mg/kg	0.0346	0.391
			Phenanthrene	0.04	mg/kg	0.0419	0.515
Pyrene	0.02	mg/kg	0.053	0.875			
Sediment	L1825702-5	ALS	2-Methylnaphthalene	0.012	mg/kg	0.0202	0.201
			Phenanthrene	0.015	mg/kg	0.0419	0.515

20-Sep-16	15:30	Sediment	L1832942-2	ALS	Phenanthrene	0.011	mg/kg	0.0419	0.515
27-Sep-16	14:30	Sediment	L1836780-5	ALS	ND	--	--	--	--
04-Aug-16	18:00	Sediment	23503	SRC	Toluene	0.16	mg/kg	NS	NS
					F3 hydrocarbons	19	mg/kg	NS	NS
12-Aug-16	8:40	Sediment	L1813360-3	ALS	Benzene	0.0176	mg/kg	NS	NS
					Ethylbenzene	0.067	mg/kg	NS	NS
					Toluene	84.4	mg/kg	NS	NS
					o-Xylene	0.054	mg/kg	NS	NS
					m+p-Xylene	0.186	mg/kg	NS	NS
					Xylenes	0.24	mg/kg	NS	NS
					F1 Hydrocarbons	92	mg/kg	NS	NS
					F3 hydrocarbons	56	mg/kg	NS	NS
					F3-PAH	56	mg/kg	NS	NS
					Total Hydrocarbons	148	mg/kg	NS	NS
					Benzo(b&j)fluoranthene	0.01	mg/kg	NS	NS
					1-Methylnaphthalene	0.016	mg/kg	NS	NS
					2-Methylnaphthalene	0.022	mg/kg	0.0202	0.201
Phenanthrene	0.021	mg/kg	0.0419	0.515					
Pyrene	0.01	mg/kg	0.053	0.875					
15-Aug-16	12:45	Sediment	L1815687-10	ALS	Toluene	1.77	mg/kg	NS	NS
					F3 hydrocarbons	128	mg/kg	NS	NS
					F3 PAHs	128	mg/kg	NS	NS
					F4 hydrocarbons	64	mg/kg	NS	NS
					Total Hydrocarbons	192	mg/kg	NS	NS
					Naphthalene	0.016	mg/kg	0.0346	0.391
					1-Methylnaphthalene	0.028	mg/kg	NS	NS
					2-Methylnaphthalene	0.038	mg/kg	0.0202	0.201
					Phenanthrene	0.042	mg/kg	0.0419	0.515
					Fluoranthene	0.015	mg/kg	0.111	2.355
					Pyrene	0.022	mg/kg	0.053	0.875
					Benzo(b&j)fluoranthene	0.023	mg/kg	NS	NS
Benzo(g,h,i)perylene	0.015	mg/kg	NS	NS					
22-Aug-16	11:45	Sediment	L1818612-8	ALS	Toluene	0.247	mg/kg	NS	NS
					Naphthalene	0.012	mg/kg	0.0346	0.391
					1-Methylnaphthalene	0.021	mg/kg	NS	NS
					2-Methylnaphthalene	0.03	mg/kg	0.0202	0.201
					Phenanthrene	0.029	mg/kg	0.0419	0.515
					Fluoranthene	0.011	mg/kg	0.111	2.355
					Pyrene	0.014	mg/kg	0.053	0.875
					Benzo(b&j)fluoranthene	0.015	mg/kg	NS	NS

Highway #21 North Bank

30-Aug-16	15:15
06-Sep-16	13:00
06-Sep-16	13:15
27-Sep-16	13:30

Sediment	L1822731-5	ALS	Toluene	0.152	mg/kg	NS	NS
			F3 hydrocarbons	105	mg/kg	NS	NS
			TEH (C23-C60)	170	mg/kg	NS	NS
			F3-PAH	105	mg/kg	NS	NS
			F4 hydrocarbons	55	mg/kg	NS	NS
			Total Hydrocarbons	160	mg/kg	NS	NS
			Benzo(a)anthracene	0.011	mg/kg	0.0317	0.385
			Benzo(a)pyrene	0.014	mg/kg	0.0319	0.782
			Benzo(b&j)fluoranthene	0.04	mg/kg	NS	NS
			Benzo(g,h,i)perylene	0.023	mg/kg	NS	NS
			Fluoranthene	0.019	mg/kg	0.111	2.355
			Fluorene	0.01	mg/kg	0.0212	0.144
			Indeno(1,2,3-cd)pyrene	0.01	mg/kg	NS	NS
			1-Methylnaphthalene	0.041	mg/kg	NS	NS
2-Methylnaphthalene	0.055	mg/kg	0.0202	0.201			
Naphthalene	0.021	mg/kg	0.0346	0.391			
Phenanthrene	0.063	mg/kg	0.0419	0.515			
Pyrene	0.029	mg/kg	0.053	0.875			
Sediment	L1825702-3	ALS	Toluene	0.108	mg/kg	NS	NS
			Benzo(b&j)fluoranthene	0.024	mg/kg	NS	NS
			Benzo(g,h,i)perylene	0.011	mg/kg	NS	NS
			Fluoranthene	0.017	mg/kg	0.111	2.355
			1-Methylnaphthalene	0.027	mg/kg	NS	NS
			2-Methylnaphthalene	0.036	mg/kg	0.0202	0.201
			Naphthalene	0.015	mg/kg	0.0346	0.391
			Phenanthrene	0.041	mg/kg	0.0419	0.515
Pyrene	0.021	mg/kg	0.053	0.875			
Sediment	L1825702-4 (Duplicate)	ALS	Toluene	0.082	mg/kg	NS	NS
			Benzo(b&j)fluoranthene	0.021	mg/kg	NS	NS
			Benzo(g,h,i)perylene	0.011	mg/kg	NS	NS
			Fluoranthene	0.012	mg/kg	0.111	2.355
			1-Methylnaphthalene	0.026	mg/kg	NS	NS
			2-Methylnaphthalene	0.035	mg/kg	0.0202	0.201
			Naphthalene	0.014	mg/kg	0.0346	0.391
			Phenanthrene	0.039	mg/kg	0.0419	0.515
Pyrene	0.016	mg/kg	0.053	0.875			
Sediment	L1836780-3	ALS	Toluene	0.067	mg/kg	NS	NS
			Benzo(b&j)fluoranthene	0.011	mg/kg	NS	NS
			1-Methylnaphthalene	0.014	mg/kg	NS	NS
			2-Methylnaphthalene	0.017	mg/kg	0.0202	0.201

					Phenanthrene	0.017	mg/kg	0.0419	0.515
					Pyrene	0.01	mg/kg	0.053	0.875
27-Sep-16	13:35	Sediment	L1836780-4 (Duplicate)	ALS	Benzo(b&j)fluoranthene	0.014	mg/kg	NS	NS
					1-Methylnaphthalene	0.016	mg/kg	NS	NS
					2-Methylnaphthalene	0.02	mg/kg	0.0202	0.201
					Phenanthrene	0.027	mg/kg	0.0419	0.515
					Pyrene	0.014	mg/kg	0.053	0.875

Paynton Ferry

05-Aug-16	17:00	Paynton Southwest Bank	Sediment	23701	SRC	Toluene	0.06	mg/kg	NS	NS
11-Aug-16	16:15		Sediment	L1813385-4	ALS	ND	--	--	--	--
15-Aug-16	13:00		Sediment	L1815687-4	ALS	Toluene	0.058	mg/kg	NS	NS
22-Aug-16	14:00		Sediment	L1818626-4	ALS	Toluene	0.084	mg/kg	NS	NS
						2-Methylnaphthalene	0.012	mg/kg	0.0202	0.201
						Phenanthrene	0.013	mg/kg	0.0419	0.515
01-Sep-16	14:40		Sediment	L1825059-1	ALS	Toluene	0.074	mg/kg	NS	NS
						Benzo(b&j)fluoranthene	0.014	mg/kg	NS	NS
						1-Methylnaphthalene	0.015	mg/kg	NS	NS
						2-Methylnaphthalene	0.019	mg/kg	0.0202	0.201
						Phenanthrene	0.023	mg/kg	0.0419	0.515
Pyrene	0.011		mg/kg	0.053	0.875					
06-Sep-16	14:30		Sediment	L1825692-1 (Duplicate)	ALS	ND	--	--	--	--
06-Sep-16	14:30		Sediment	L1825692-3	ALS	ND	--	--	--	--
27-Sep-16	12:30		Sediment	L1836943-2	ALS	Benzene	0.0181	mg/kg	NS	NS
		Ethylbenzene				0.019	mg/kg	NS	NS	
		Toluene				0.088	mg/kg	NS	NS	
		Benzo(b&j)fluoranthene				0.023	mg/kg	NS	NS	
		Benzo(g,h,i)perylene				0.014	mg/kg	NS	NS	
		Fluoranthene				0.012	mg/kg	0.111	2.355	
		1-Methylnaphthalene				0.018	mg/kg	NS	NS	
		2-Methylnaphthalene				0.021	mg/kg	0.0202	0.201	
		Phenanthrene				0.033	mg/kg	0.0419	0.515	
Pyrene	0.018	mg/kg	0.053	0.875						
27-Sep-16	12:20	Sediment	L1836943-3 (Duplicate)	ALS	Benzo(b&j)fluoranthene	0.024	mg/kg	NS	NS	
					Benzo(g,h,i)perylene	0.016	mg/kg	NS	NS	
					Fluoranthene	0.012	mg/kg	0.111	2.355	
					1-Methylnaphthalene	0.029	mg/kg	NS	NS	
					2-Methylnaphthalene	0.037	mg/kg	0.0202	0.201	

						Naphthalene	0.015	mg/kg	0.0346	0.391
						Phenanthrene	0.048	mg/kg	0.0419	0.515
						Pyrene	0.019	mg/kg	0.053	0.875
05-Aug-16	17:20	Paynton Centre Channel	Sediment	23702	SRC	ND	--	--	--	--
15-Aug-16	13:15		Sediment	L1815687-5	ALS	Toluene	0.061	mg/kg	NS	NS
05-Aug-16	18:05	Paynton Centre Channel	Sediment	23703	SRC	Toluene	0.04	mg/kg	NS	NS
						F3 hydrocarbons	16	mg/kg	NS	NS
08-Aug-16	14:00		Sediment	L1811886-5	ALS	Toluene	0.066	mg/kg	NS	NS
						TEH (C23-C60)	140	mg/kg	NS	NS
12-Aug-16	12:35		Sediment	L1813360-1	ALS	Toluene	25	mg/kg	NS	NS
						F3 hydrocarbons	72	mg/kg	NS	NS
						F3-PAH	72	mg/kg	NS	NS
						Total Hydrocarbons	72	mg/kg	NS	NS
						Benzo(b&j)fluoranthene	0.023	mg/kg	NS	NS
						Benzo(g,h,i)perylene	0.017	mg/kg	NS	NS
						Fluoranthene	0.012	mg/kg	0.111	2.355
						1-Methylnaphthalene	0.034	mg/kg	NS	NS
		2-Methylnaphthalene				0.048	mg/kg	0.0202	0.201	
		Naphthalene				0.02	mg/kg	0.0346	0.391	
Phenanthrene	0.049	mg/kg	0.0419	0.515						
Pyrene	0.021	mg/kg	0.053	0.875						
15-Aug-16	13:45	Sediment	L1815687-6	ALS	Toluene	39.7	mg/kg	NS	NS	
					F1 Hydrocarbons	36	mg/kg	NS	NS	
					F3 hydrocarbons	91	mg/kg	NS	NS	
					F3 PAHs	91	mg/kg	NS	NS	
					Total Hydrocarbons	127	mg/kg	NS	NS	
					Naphthalene	0.019	mg/kg	0.0346	0.391	
					1-Methylnaphthalene	0.033	mg/kg	NS	NS	
					2-Methylnaphthalene	0.046	mg/kg	0.0202	0.201	
					Phenanthrene	0.056	mg/kg	0.0419	0.515	
					Fluoranthene	0.014	mg/kg	0.111	2.355	
					Pyrene	0.024	mg/kg	0.053	0.875	
					Benzo(b&j)fluoranthene	0.026	mg/kg	NS	NS	
Benzo(g,h,i)perylene	0.021	mg/kg	NS	NS						
22-Aug-16	14:45	Paynton Northeast Bank	Sediment	L1818626-5	ALS	Toluene	0.333	mg/kg	NS	NS
						F3 hydrocarbons	103	mg/kg	NS	NS
						F4 hydrocarbons	67	mg/kg	NS	NS
						Total Hydrocarbons	170	mg/kg	NS	NS
						TEH (C23-C60)	220	mg/kg	NS	NS

24-Aug-16	17:45				Naphthalene	0.01	mg/kg	0.0346	0.391
					1-Methylnaphthalene	0.017	mg/kg	NS	NS
					2-Methylnaphthalene	0.022	mg/kg	0.0202	0.201
					Phenanthrene	0.021	mg/kg	0.0419	0.515
					Pyrene	0.01	mg/kg	0.053	0.875
01-Sep-16	14:45	Sediment	L1825059-2	ALS	Benzo(b&j)fluoranthene	0.02	mg/kg	NS	NS
					Benzo(g,h,i)perylene	0.016	mg/kg	NS	NS
					Fluoranthene	0.013	mg/kg	0.111	2.355
					1-Methylnaphthalene	0.025	mg/kg	NS	NS
					2-Methylnaphthalene	0.032	mg/kg	0.0202	0.201
					Phenanthrene	0.034	mg/kg	0.0419	0.515
					Pyrene	0.017	mg/kg	0.053	0.875
06-Sep-16	15:30	Sediment	L1825692-2	ALS	Benzo(b&j)fluoranthene	0.017	mg/kg	NS	NS
					Benzo(g,h,i)perylene	0.01	mg/kg	NS	NS
					1-Methylnaphthalene	0.029	mg/kg	NS	NS
					2-Methylnaphthalene	0.038	mg/kg	0.0202	0.201
					Naphthalene	0.018	mg/kg	0.0346	0.391
					Phenanthrene	0.032	mg/kg	0.0419	0.515
					Pyrene	0.015	mg/kg	0.053	0.875
27-Sep-16	10:30	Sediment	L1836943-1	ALS	Toluene	0.126	mg/kg	NS	NS
					Benzo(b&j)fluoranthene	0.024	mg/kg	NS	NS
					Benzo(g,h,i)perylene	0.016	mg/kg	NS	NS
					Fluoranthene	0.013	mg/kg	0.111	2.355
					1-Methylnaphthalene	0.035	mg/kg	NS	NS
					2-Methylnaphthalene	0.044	mg/kg	0.0202	0.201
					Naphthalene	0.02	mg/kg	0.0419	0.515
					Phenanthrene	0.047	mg/kg	0.053	0.875
					Pyrene	0.022	mg/kg	NS	NS

North Battleford near water intake

04-Aug-16	12:55	Sediment	23501	SRC	Toluene	0.02	mg/kg	NS	NS
11-Aug-16	12:30	Sediment	L1813385-3	ALS	ND	--	--	--	--
15-Aug-16	11:00	Sediment	L1815687-1	ALS	ND	--	--	--	--
22-Aug-16	11:30	Sediment	L1818626-1	ALS	ND	--	--	--	--
22-Aug-16	11:40	Sediment	L1818626-2 (Duplicate)	ALS	ND	--	--	--	--
29-Aug-16	12:45	Sediment	L1822744-1	ALS	Toluene	0.125	mg/kg	NS	NS
					Benzo(b&j)fluoranthene	0.024	mg/kg	NS	NS
					Benzo(g,h,i)perylene	0.012	mg/kg	NS	NS
					Fluoranthene	0.013	mg/kg	0.111	2.355
					1-Methylnaphthalene	0.022	mg/kg	NS	NS

		North Battleford intake Southwest Bank				2-Methylnaphthalene	0.029	mg/kg	0.0202	0.201	
						Naphthalene	0.012	mg/kg	0.0346	0.391	
						Phenanthrene	0.035	mg/kg	0.0419	0.515	
						Pyrene	0.02	mg/kg	0.053	0.875	
29-Aug-16	12:55			Sediment	L1822744-2	ALS	Toluene	0.146	mg/kg	NS	NS
							Benzo(b&j)fluoranthene	0.018	mg/kg	NS	NS
							1-Methylnaphthalene	0.016	mg/kg	NS	NS
							2-Methylnaphthalene	0.021	mg/kg	0.0202	0.201
							Phenanthrene	0.025	mg/kg	0.0419	0.515
							Pyrene	0.015	mg/kg	0.053	0.875
06-Sep-16	11:00		Sediment	L1825692-4	ALS	ND	--	--	--	--	
27-Sep-16	14:15		Sediment	L1836943-4	ALS	Benzene	0.0075	mg/kg	NS	NS	
						Toluene	0.069	mg/kg	NS	NS	
04-Aug-16	14:15		Sediment	23502	SRC	Toluene	0.04	mg/kg	NS	NS	
							F3 hydrocarbons	10	mg/kg	NS	NS
11-Aug-16	9:30			Sediment	L1813385-1	ALS	Toluene	0.349	mg/kg	NS	NS
							Bezno(b&j)fluoranthene	0.011	mg/kg	NS	NS
							1-Methylnaphthalene	0.018	mg/kg	NS	NS
							2-Methylnaphthalene	0.025	mg/kg	0.0202	0.201
							Naphthalene	0.011	mg/kg	0.0346	0.391
							Phenanthrene	0.026	mg/kg	0.0419	0.515
							Pyrene	0.012	mg/kg	0.053	0.875
11-Aug-16	10:00			Sediment	L1813385-2 (Duplicate)	ALS	Benzene	0.0073	mg/kg	NS	NS
						Ethylbenzene	0.057	mg/kg	NS	NS	
						Toluene	67.5	mg/kg	NS	NS	
						o-Xylene	0.059	mg/kg	NS	NS	
						m+p-Xylene	0.178	mg/kg	NS	NS	
						Xylenes	0.24	mg/kg	NS	NS	
						F1 Hydrocarbons	55	mg/kg	NS	NS	
						Total Hydrocarbons	55	mg/kg	NS	NS	
						1-Methylnaphthalene	0.013	mg/kg	NS	NS	
						2-Methylnaphthalene	0.017	mg/kg	0.0202	0.201	
						Phenanthrene	0.016	mg/kg	0.0419	0.515	
15-Aug-16	9:00	North Battleford intake Northeast Bank	Sediment	L1815687-2	ALS	Toluene	62.1	mg/kg	NS	NS	
						Ethylbenzene	0.03	mg/kg	NS	NS	
						m+p-Xylene	0.069	mg/kg	NS	NS	
						F1 Hydrocarbons	70	mg/kg	NS	NS	
						Total Hydrocarbons	70	mg/kg	NS	NS	
						Naphthalene	0.014	mg/kg	0.0346	0.391	

						2-Methylnaphthalene	0.027	mg/kg	0.0202	0.201
						1-Methylnaphthalene	0.021	mg/kg	NS	NS
						Phenanthrene	0.025	mg/kg	0.0419	0.515
						Pyrene	0.017	mg/kg	0.053	0.875
						Benzo(b&j)fluoranthene	0.014	mg/kg	NS	NS
15-Aug-16	9:20		Sediment	L1815687-3 (Duplicate)	ALS	Toluene	0.171	mg/kg	NS	NS
						2-Methylnaphthalene	0.015	mg/kg	0.0202	0.201
						1-Methylnaphthalene	0.012	mg/kg	NS	NS
						Phenanthrene	0.015	mg/kg	0.0419	0.515
22-Aug-16	9:45		Sediment	L1818626-3	ALS	ND	--	--	--	--
29-Aug-16	15:00		Sediment	L1822744-3	ALS	Toluene	0.134	mg/kg	NS	NS
						Anthracene	0.0052	mg/kg	0.0469	0.245
						Benzo(a)anthracene	0.014	mg/kg	0.0317	0.385
						Benzo(a)pyrene	0.01	mg/kg	0.0319	0.782
						Benzo(b&j)fluoranthene	0.026	mg/kg	NS	NS
						Fluoranthene	0.026	mg/kg	0.111	2.355
						1-Methylnaphthalene	0.017	mg/kg	NS	NS
						2-Methylnaphthalene	0.023	mg/kg	0.0202	0.201
						Phenanthrene	0.036	mg/kg	0.0419	0.515
						Pyrene	0.027	mg/kg	0.053	0.875
06-Sep-16	8:30		Sediment	L1825692-5	ALS	ND	--	--	--	--
27-Sep-16	15:20		Sediment	L1836943-5	ALS	ND	--	--	--	--
11-Oct-16	12:30		Sediment	L1844123-1	ALS	1-Methylnaphthalene	0.014	mg/kg	NS	NS
						2-Methylnaphthalene	0.017	mg/kg	0.0202	0.201
						Phenanthrene	0.017	mg/kg	0.0419	0.515

Denholm

11-Oct-16	12:30	N Sask River near Denholm	Sediment	L1844132-2	ALS	1-Methylnaphthalene	0.011	mg/kg	NS	NS
						2-Methylnaphthalene	0.014	mg/kg	0.0202	0.201
						Phenanthrene	0.014	mg/kg	0.0419	0.515

Borden Bridge

14-Sep-16	10:30	N Sask River at Borden Bridge	Sediment	L1829896-1	ALS	ND	--	--	--	--
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Petrofka Bridge

15-Sep-16	13:45	N Sask River at Petrofka Bridge	Sediment	L1830606-1	ALS	ND	--	--	--	--
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Fort Carlton

19-Sep-16	12:00	N Sask River at Fort Carlton	Sediment	L1832228-2	ALS	2-Methylnaphthalene	0.011	mg/kg	0.0202	0.201
						Phenanthrene	0.011	mg/kg	0.0419	0.515

Prince Albert near water intake

04-Aug-16	15:30	Prince Albert north bank	Sediment	251311	SRC	ND	--	--	--	--
08-Aug-16	13:20		Sediment	L1811860-2	ALS	ND	--	--	--	--
11-Aug-16	12:25		Sediment	L1813374-2	ALS	Toluene	0.052	mg/kg	NS	NS
15-Aug-16	13:06		Sediment	L1815687-15	ALS	Toluene	4.37	mg/kg	NS	NS
						F3 hydrocarbons	157	mg/kg	NS	NS
						F3 PAHs	157	mg/kg	NS	NS
						F4 hydrocarbons	110	mg/kg	NS	NS
						Total Hydrocarbons	267	mg/kg	NS	NS
						Naphthalene	0.021	mg/kg	0.0346	0.391
						2-Methylnaphthalene	0.055	mg/kg	0.0202	0.201
						1-Methylnaphthalene	0.04	mg/kg	NS	NS
						Fluorene	0.017	mg/kg	0.0212	0.144
						Phenanthrene	0.06	mg/kg	0.0419	0.515
						Fluoranthene	0.01	mg/kg	0.111	2.355
						Pyrene	0.019	mg/kg	0.053	0.875
Benzo(b&j)fluoranthene	0.025		mg/kg	NS	NS					
Benzo(g,h,i)perylene	0.018		mg/kg	NS	NS					
22-Aug-16	12:40	Sediment	L1818612-2	ALS	ND	--	--	--	--	
22-Aug-16	12:52	Sediment	L1818612-2 (Duplicate)	ALS	ND	--	--	--	--	
29-Aug-16	12:40	Sediment	L1822730-3	ALS	ND	--	--	--	--	
06-Sep-16	15:00	Sediment	L1825663-3	ALS	2-Methylnaphthalene	0.01	mg/kg	0.0202	0.201	
					Phenanthrene	0.012	mg/kg	0.0419	0.515	
27-Sep-16	13:00	Sediment	L1836911-2	ALS	ND	--	--	--	--	
27-Sep-16	13:15	Sediment	L1836911-3 (Duplicate)	ALS	ND	--	--	--	--	
04-Aug-16	14:18	Sediment	251308	SRC	Toluene	0.49	mg/kg	NS	NS	
					F3 hydrocarbons	37	mg/kg	NS	NS	
					F4 hydrocarbons	14	mg/kg	NS	NS	
08-Aug-16	12:00	Sediment	L1811860-1	ALS	Toluene	0.122	mg/kg	NS	NS	
					Benzo(b&j)fluoranthene	0.011	mg/kg	NS	NS	
					Fluoranthene	0.014	mg/kg	0.111	2.355	
					2-Methylnaphthalene	0.01	mg/kg	0.0202	0.201	
					Phenanthrene	0.017	mg/kg	0.0419	0.515	
					Pyrene	0.014	mg/kg	0.053	0.875	
11-Aug-16	11:12	Sediment	L1813374-1	ALS	2-Methylnaphthalene	0.011	mg/kg	0.0202	0.201	
					Phenanthrene	0.014	mg/kg	0.0419	0.515	
					Toluene	0.304	mg/kg	NS	NS	
					F3 hydrocarbons	69	mg/kg	NS	NS	
					F3 PAHs	69	mg/kg	NS	NS	

15-Aug-16	11:55
15-Aug-16	11:50
22-Aug-16	11:25
29-Aug-16	11:30
30-Aug-16	11:25

Prince Albert south bank

Sediment	L1815687-13	ALS	Total Hydrocarbons	69	mg/kg	NS	NS
			2-Methylnaphthalene	0.012	mg/kg	0.0202	0.201
			Phenanthrene	0.018	mg/kg	0.0419	0.515
			Fluoranthene	0.013	mg/kg	0.111	2.355
			Pyrene	0.014	mg/kg	0.053	0.875
			Benzo(b&j)fluoranthene	0.015	mg/kg	NS	NS
			Benzo(g,h,i)perylene	0.011	mg/kg	NS	NS
Sediment	L181-5687-14 (Duplicate)	ALS	Toluene	0.215	mg/kg	NS	NS
			F3 hydrocarbons	63	mg/kg	NS	NS
			F3 PAHs	63	mg/kg	NS	NS
			Total Hydrocarbons	63	mg/kg	NS	NS
			2-Methylnaphthalene	0.013	mg/kg	0.0202	0.201
			1-Methylnaphthalene	0.01	mg/kg	NS	NS
			Phenanthrene	0.018	mg/kg	0.0419	0.515
			Fluoranthene	0.016	mg/kg	0.111	2.355
			Pyrene	0.016	mg/kg	0.053	0.875
			Benzo(b&j)fluoranthene	0.018	mg/kg	NS	NS
			Benzo(g,h,i)perylene	0.011	mg/kg	NS	NS
Sediment	L1818612-1	ALS	Toluene	0.159	mg/kg	NS	NS
			TEH (C23-C60)	100	mg/kg	NS	NS
			2-Methylnaphthalene	0.013	mg/kg	0.0202	0.201
			1-Methylnaphthalene	0.01	mg/kg	NS	NS
			Phenanthrene	0.021	mg/kg	0.0419	0.515
			Fluoranthene	0.02	mg/kg	0.111	2.355
			Pyrene	0.02	mg/kg	0.053	0.875
			Benzo(b&j)fluoranthene	0.018	mg/kg	NS	NS
			Benzo(g,h,i)perylene	0.013	mg/kg	NS	NS
Sediment	L1822730-1	ALS	TEH (C23-C60)	120	mg/kg	NS	NS
			Benzo(b&j)fluoranthene	0.013	mg/kg	NS	NS
			Fluoranthene	0.013	mg/kg	0.111	2.355
			1-Methylnaphthalene	0.01	mg/kg	NS	NS
			2-Methylnaphthalene	0.012	mg/kg	0.0202	0.201
			Phenanthrene	0.018	mg/kg	0.0419	0.515
			Pyrene	0.014	mg/kg	0.053	0.875
Sediment	L1822730-2	ALS	F3 hydrocarbons	55	mg/kg	NS	NS
			TEH (C23-C60)	120	mg/kg	NS	NS
			F3-PAH	55	mg/kg	NS	NS
			Total Hydrocarbons	55	mg/kg	NS	NS
			Benzo(b&j)fluoranthene	0.023	mg/kg	NS	NS

29-Aug-16	11:55		Sediment	(Duplicate)	ALS	Benzo(g,h,i)perylene	0.013	mg/kg	NS	NS
						Fluoranthene	0.022	mg/kg	0.111	2.355
						1-Methylnaphthalene	0.013	mg/kg	NS	NS
						2-Methylnaphthalene	0.017	mg/kg	0.0202	0.201
						Phenanthrene	0.027	mg/kg	0.0419	0.515
						Pyrene	0.022	mg/kg	0.053	0.875
06-Sep-16	13:15		Sediment	L1825663-1	ALS	Toluene	0.057	mg/kg	NS	NS
						Benzo(b&j)fluoranthene	0.016	mg/kg	NS	NS
						Benzo(g,h,i)perylene	0.01	mg/kg	NS	NS
						1-Methylnaphthalene	0.018	mg/kg	NS	NS
						2-Methylnaphthalene	0.024	mg/kg	0.0202	0.201
						Naphthalene	0.01	mg/kg	0.0346	0.391
						Phenanthrene	0.025	mg/kg	0.0419	0.515
						Pyrene	0.012	mg/kg	0.053	0.875
06-Sep-16	13:25		Sediment	L1825663-2 (Duplicate)	ALS	Toluene	0.059	mg/kg	NS	NS
						Benzo(b&j)fluoranthene	0.011	mg/kg	NS	NS
						1-Methylnaphthalene	0.012	mg/kg	NS	NS
						2-Methylnaphthalene	0.016	mg/kg	0.0202	0.201
						Phenanthrene	0.017	mg/kg	0.0419	0.515
27-Sep-16	11:50		Sediment	L1836911-1	ALS	Benzo(b&j)fluoranthene	0.015	mg/kg	NS	NS
						Fluoranthene	0.019	mg/kg	0.111	2.355
						Phenanthrene	0.014	mg/kg	0.0419	0.515
						Pyrene	0.017	mg/kg	0.053	0.875

Near Prince Albert Airport

27-Sep-16	12:00	N Sask near Prince Albert Airport	Sediment	L1836922-1	ALS	ND	--	--	--	--
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Cecil Ferry

18-Oct-16	14:00	N Sask at Cecil Ferry	Sediment	L1845715-2	ALS	Benzo(b&j)fluoranthene	0.012	mg/kg	NS	NS
						1-Methylnaphthalene	0.011	mg/kg	NS	NS
						2-Methylnaphthalene	0.012	mg/kg	0.0202	0.201
						Phenanthrene	0.017	mg/kg	0.0419	0.515
						Pyrene	0.01	mg/kg	0.053	0.875

La Colle Falls

18-Oct-16	11:45	N Sask at La Colle Falls	Sediment	L1845715-1	ALS	Phenanthrene	0.012	mg/kg	0.0419	0.515
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Near Hwy#6 - Wapiti reach

						Toluene	0.111	mg/kg	NS	NS
						F3 Hydrocarbons	256	mg/kg	NS	NS

31-Aug-16	10:30	Sask R. ~ 1.2 km upstream of Hwy 6 S. Bank	Sediment	L1825079-1	ALS	TEH (C23-C60)	480	mg/kg	NS	NS
						F4 Hydrocarbons	120	mg/kg	NS	NS
						Total Hydrocarbons	376	mg/kg	NS	NS
						Benzo(b&j)fluoranthene	0.013	mg/kg	NS	NS
						1-Methylnaphthalene	0.016	mg/kg	NS	NS
						2-Methylnaphthalene	0.022	mg/kg	0.0202	0.201
						Naphthalene	0.013	mg/kg	0.0346	0.391
						Phenanthrene	0.029	mg/kg	0.0419	0.515
Pyrene	0.011	mg/kg	0.053	0.875						
31-Aug-16	11:20	Sask R ~ 2km downstream of Hwy 6 centre	Sediment	L1825079-2	ALS	Benzene	0.0088	mg/kg	NS	NS
						Toluene	0.146	mg/kg	NS	NS
						TEH (C11-C22)	238	mg/kg	NS	NS
						F3 Hydrocarbons	425	mg/kg	NS	NS
						TEH (C23-C60)	340	mg/kg	NS	NS
						F4 Hydrocarbons	89	mg/kg	NS	NS
						Total Hydrocarbons	514	mg/kg	NS	NS
						Benzo(b&j)fluoranthene	0.019	mg/kg	NS	NS
						Benzo(g,h,i)perylene	0.014	mg/kg	NS	NS
						Fluoranthene	0.011	mg/kg	0.111	2.355
						1-Methylnaphthalene	0.02	mg/kg	NS	NS
						2-Methylnaphthalene	0.029	mg/kg	0.0202	0.201
						Naphthalene	0.013	mg/kg	0.0346	0.391
Phenanthrene	0.035	mg/kg	0.0419	0.515						
Pyrene	0.015	mg/kg	0.053	0.875						
10-Aug-16	12:25	Hwy#6 S Bank	Sediment	L1813396-1	ALS	1-Methylnaphthalene	0.013	mg/kg	NS	NS
						2-Methylnaphthalene	0.019	mg/kg	0.0202	0.201
						Phenanthrene	0.018	mg/kg	0.0419	0.515
17-Aug-16	10:30		Sediment	L1816301-1	ALS	Toluene	1.5	mg/kg	NS	NS
24-Aug-16	12:15		Sediment	L1819733-1	ALS	2-Methylnaphthalene	0.011	mg/kg	0.0202	0.201
						Phenanthrene	0.015	mg/kg	0.0419	0.515
31-Aug-16	11:15		Sediment	L1825079-3	ALS	Toluene	0.141	mg/kg	NS	NS
						F3 Hydrocarbons	58	mg/kg	NS	NS
						Total Hydrocarbons	58	mg/kg	NS	NS
						Benzo(b&j)fluoranthene	0.023	mg/kg	NS	NS
						Benzo(g,h,i)perylene	0.015	mg/kg	NS	NS
						Fluoranthene	0.014	mg/kg	0.111	2.355
						1-Methylnaphthalene	0.023	mg/kg	NS	NS
		2-Methylnaphthalene				0.031	mg/kg	0.0202	0.201	
Naphthalene	0.013	mg/kg	0.0346	0.391						

						Phenanthrene	0.036	mg/kg	0.0419	0.515	
						Pyrene	0.018	mg/kg	0.053	0.875	
07-Sep-16	11:15		Sediment	L1827113-1	ALS	Toluene	0.072	mg/kg	NS	NS	
						Phenanthrene	0.013	mg/kg	0.0419	0.515	
26-Sep-16	11:40		Sediment	L1836545-1	ALS	ND	--	--	--	--	
10-Aug-16	13:12	Hwy#6 N Bank	Sediment	L1813396-2	ALS	ND	--	--	--	--	
17-Aug-16	10:30		Sediment	L1816301-2	ALS	ND	--	--	--	--	
17-Aug-16	10:30		Sediment	L1816301-3 (Duplicate)	ALS	ND	--	--	--	--	
24-Aug-16	13:20		Sediment	L1819733-2	ALS	ND	--	--	--	--	
31-Aug-16	13:00		Sediment	L1825079-4	ALS	ND	--	--	--	--	
07-Sep-16	12:45		Sediment	L1827113-2	ALS	ND	--	--	--	--	
26-Sep-16	12:55		Sediment	L1836545-2	ALS	ND	--	--	--	--	
26-Sep-16	13:00		Sediment	L1836545-3 (Duplicate)	ALS	ND	--	--	--	--	
10-Aug-16	14:10		Hwy#6 Center	Sediment	L1813396-3	ALS	Toluene	0.17	mg/kg	NS	NS
							F3 hydrocarbons	62	mg/kg	NS	NS
		F3-PAH					62	mg/kg	NS	NS	
		Total Hydrocarbons					62	mg/kg	NS	NS	
		Benzo(b&j)fluoranthene					0.017	mg/kg	NS	NS	
		Benzo(g,h,i)perylene					0.013	mg/kg	NS	NS	
		1-Methylnaphthalene					0.02	mg/kg	NS	NS	
		2-Methylnaphthalene					0.028	mg/kg	0.0202	0.201	
		Naphthalene					0.013	mg/kg	0.0346	0.391	
		Phenanthrene					0.026	mg/kg	0.0419	0.515	
		Pyrene	0.013	mg/kg	0.053	0.875					

Melfort Intake Site

16-Aug-16	11:45	Site 1	Sediment	L1815735-1	ALS	Toluene	0.65	mg/kg	NS	NS
16-Aug-16	12:02		Sediment	L1815735-2	ALS	Toluene	0.164	mg/kg	NS	NS
		F3 hydrocarbons				78	mg/kg	NS	NS	
		TEH (C23-C60)				170	mg/kg	NS	NS	
		Total Hydrocarbons				78	mg/kg	NS	NS	
		Benzo(b&j)fluoranthene				0.022	mg/kg	NS	NS	
		Benzo(g,h,i)perylene				0.015	mg/kg	NS	NS	
		Fluoranthene				0.014	mg/kg	0.111	2.355	
		1-Methylnaphthalene				0.017	mg/kg	NS	NS	
		2-Methylnaphthalene				0.023	mg/kg	0.0202	0.201	
		Naphthalene				0.011	mg/kg	0.0346	0.391	
		Phenanthrene				0.03	mg/kg	0.0419	0.515	

					Pyrene	0.018	mg/kg	0.053	0.875	
07-Sep-16	14:20	Site 2	Sediment	L1827113-5	ALS	F3 Hydrocarbons	119	mg/kg	NS	NS
						F4 Hydrocarbons	51	mg/kg	NS	NS
						Total Hydrocarbons	170	mg/kg	NS	NS
						Benzo(b&j)fluoranthene	0.019	mg/kg	NS	NS
						Benzo(g,h,i)perylene	0.013	mg/kg	NS	NS
						1-Methylnaphthalene	0.026	mg/kg	NS	NS
						2-Methylnaphthalene	0.037	mg/kg	0.0202	0.201
						Naphthalene	0.014	mg/kg	0.0346	0.391
						Phenanthrene	0.034	mg/kg	0.0419	0.515
					Pyrene	0.015	mg/kg	0.053	0.875	
26-Sep-16	14:40	Site 2	Sediment	L1836545-6	ALS	F3 Hydrocarbons	208	mg/kg	NS	NS
						TEH (C23-C60)	290	mg/kg	NS	NS
						F4 Hydrocarbons	84	mg/kg	NS	NS
						Benzo(a)pyrene	0.01	mg/kg	0.0319	0.782
						Benzo(b&j)fluoranthene	0.027	mg/kg	NS	NS
						Benzo(g,h,i)perylene	0.019	mg/kg	NS	NS
						Fluoranthene	0.014	mg/kg	0.111	2.355
						1-Methylnaphthalene	0.025	mg/kg	NS	NS
						2-Methylnaphthalene	0.033	mg/kg	0.0202	0.201
						Naphthalene	0.012	mg/kg	0.0346	0.391
						Phenanthrene	0.043	mg/kg	0.0419	0.515
						Pyrene	0.02	mg/kg	0.053	0.875
						Benzo(e)pyrene	0.025	mg/kg	NS	NS
						Retene	0.035	mg/kg	NS	NS
Perylene	0.133	mg/kg	NS	NS						
C2 Naphthalenes	0.064	mg/kg	NS	NS						
16-Aug-16	12:17	Site 2	Sediment	L1815735-3	ALS	Benzene	0.0123	mg/kg	NS	NS
						Toluene	0.536	mg/kg	NS	NS
						F3 hydrocarbons	170	mg/kg	NS	NS
						TEH (C23-C60)	320	mg/kg	NS	NS
						F4 hydrocarbons	103	mg/kg	NS	NS
						Total Hydrocarbons	273	mg/kg	NS	NS
						Benzo(b&j)fluoranthene	0.022	mg/kg	NS	NS
						Benzo(g,h,i)perylene	0.016	mg/kg	NS	NS
						Fluoranthene	0.014	mg/kg	0.111	2.355
						1-Methylnaphthalene	0.016	mg/kg	NS	NS
						2-Methylnaphthalene	0.022	mg/kg	0.0202	0.201
						Phenanthrene	0.032	mg/kg	0.0419	0.515
					Pyrene	0.018	mg/kg	0.053	0.875	

28-Sep-16	14:55	Site 3	Sediment	L1836956-4	ALS	Toluene	0.114	mg/kg	NS	NS
						F3 Hydrocarbons	134	mg/kg	NS	NS
						TEH (C23-C60)	230	mg/kg	NS	NS
						F3-PAH	134	mg/kg	NS	NS
						F4 Hydrocarbons	73	mg/kg	NS	NS
						Total Hydrocarbons	207	mg/kg	NS	NS
						Benzo(a)pyrene	0.011	mg/kg	0.0319	0.782
						Benzo(b&j)fluoranthene	0.034	mg/kg	NS	NS
						Benzo(g,h,i)perylene	0.022	mg/kg	NS	NS
						Fluoranthene	0.019	mg/kg	0.111	2.355
						1-Methylnaphthalene	0.029	mg/kg	NS	NS
						2-Methylnaphthalene	0.037	mg/kg	0.0202	0.201
						Naphthalene	0.015	mg/kg	0.0346	0.391
						Phenanthrene	0.055	mg/kg	0.0419	0.515
						Pyrene	0.027	mg/kg	0.053	0.875
						C1 Phenanthrenes/Anthracenes	0.05	mg/kg	NS	NS
						Retene	0.043	mg/kg	NS	NS
						Perylene	0.158	mg/kg	NS	NS
						C2 Naphthalenes	0.075	mg/kg	NS	NS
C2 Phenanthrenes/Anthracenes	0.041	mg/kg	NS	NS						
16-Aug-16	12:28	Site 3	Sediment	L1815735-4	ALS	Toluene	0.391	mg/kg	NS	NS
						Acenaphthene	0.0053	mg/kg	0.00671	0.0889
						Benzo(a)anthracene	0.011	mg/kg	0.0317	0.385
						Benzo(a)pyrene	0.014	mg/kg	0.0319	0.782
						Benzo(b&j)fluoranthene	0.039	mg/kg	NS	NS
						Benzo(g,h,i)perylene	0.026	mg/kg	NS	NS
						Dibenzo(a,h)anthracene	0.0054	mg/kg	0.00622	0.135
						Fluoranthene	0.021	mg/kg	0.111	2.355
						Fluorene	0.015	mg/kg	0.0212	0.144
						Indeno(1,2,3-cd)pyrene	0.011	mg/kg	NS	NS
						1-Methylnaphthalene	0.043	mg/kg	NS	NS
						2-Methylnaphthalene	0.064	mg/kg	0.0202	0.201
						Naphthalene	0.022	mg/kg	0.0346	0.391
						Phenanthrene	0.088	mg/kg	0.0419	0.515
Pyrene	0.031	mg/kg	0.053	0.875						
		Site 3				Toluene	0.118	mg/kg	NS	NS
						F3 Hydrocarbons	68	mg/kg	NS	NS
						TEH (C23-C60)	110	mg/kg	NS	NS
						F3-PAH	68	mg/kg	NS	NS
						Total Hydrocarbons	68	mg/kg	NS	NS

28-Sep-16	15:15	Site 4	Sediment	L1836956-5	ALS	Benzo(b&j)fluoranthene	0.022	mg/kg	NS	NS
						Benzo(g,h,i)perylene	0.014	mg/kg	NS	NS
						Fluoranthene	0.012	mg/kg	0.111	2.355
						1-Methylnaphthalene	0.02	mg/kg	NS	NS
						2-Methylnaphthalene	0.026	mg/kg	0.0202	0.201
						Naphthalene	0.011	mg/kg	0.0346	0.391
						Phenanthrene	0.036	mg/kg	0.0419	0.515
						Pyrene	0.018	mg/kg	0.053	0.875
28-Sep-16	15:20	Site 4	Sediment	L1836956-6 (Duplicate)	ALS	Toluene	0.122	mg/kg	NS	NS
						Anthracene	0.0049	mg/kg	0.0469	0.245
						Benzo(a)anthracene	0.014	mg/kg	0.0317	0.385
						Benzo(a)pyrene	0.014	mg/kg	0.0319	0.782
						Benzo(b&j)fluoranthene	0.031	mg/kg	NS	NS
						Benzo(g,h,i)perylene	0.016	mg/kg	NS	NS
						Fluoranthene	0.026	mg/kg	0.111	2.355
						1-Methylnaphthalene	0.021	mg/kg	NS	NS
						2-Methylnaphthalene	0.027	mg/kg	0.0202	0.201
						Naphthalene	0.011	mg/kg	0.0346	0.391
						Phenanthrene	0.046	mg/kg	0.0419	0.515
						Pyrene	0.029	mg/kg	0.053	0.875
						Benzo(e)pyrene	0.025	mg/kg	NS	NS
						Retene	0.043	mg/kg	NS	NS
Perylene	0.119	mg/kg	NS	NS						
C2 Naphthalenes	0.05	mg/kg	NS	NS						
16-Aug-16	12:44	Site 5	Sediment	L1815735-5	ALS	Toluene	0.388	mg/kg	NS	NS
						Phenanthrene	0.012	mg/kg	0.0419	0.515
07-Sep-16	13:50	Site 4	Sediment	L1827113-3	ALS	F3 Hydrocarbons	95	mg/kg	NS	NS
						Total Hydrocarbons	95	mg/kg	NS	NS
						Benzo(b&j)fluoranthene	0.02	mg/kg	NS	NS
						Benzo(g,h,i)perylene	0.016	mg/kg	NS	NS
						Fluoranthene	0.011	mg/kg	0.111	2.355
						1-Methylnaphthalene	0.021	mg/kg	NS	NS
						2-Methylnaphthalene	0.03	mg/kg	0.0202	0.201
						Naphthalene	0.012	mg/kg	0.0346	0.391
						Phenanthrene	0.036	mg/kg	0.0419	0.515
Pyrene	0.017	mg/kg	0.053	0.875						
		Site 4	Sediment			F3 Hydrocarbons	91	mg/kg	NS	NS
						Total Hydrocarbons	91	mg/kg	NS	NS
						Benzo(b&j)fluoranthene	0.022	mg/kg	NS	NS

07-Sep-16	14:00	At Melfort Intake	Sediment	L1827113-4 (Duplicate)	ALS	Benzo(g,h,i)perylene	0.016	mg/kg	NS	NS
						Fluoranthene	0.013	mg/kg	0.111	2.355
						1-Methylnaphthalene	0.019	mg/kg	NS	NS
2-Methylnaphthalene	0.028					mg/kg	0.0202	0.201		
Phenanthrene	0.04					mg/kg	0.0419	0.515		
Pyrene	0.018		mg/kg	0.053	0.875					
26-Sep-16	14:05		Sediment	L1836545-4	ALS	Toluene	0.066	mg/kg	NS	NS
						F3 Hydrocarbons	84	mg/kg	NS	NS
						Benzo(a)pyrene	0.012	mg/kg	0.0319	0.782
						Benzo(b&j)fluoranthene	0.032	mg/kg	NS	NS
						Benzo(g,h,i)perylene	0.024	mg/kg	NS	NS
			Fluoranthene	0.02	mg/kg	0.111	2.355			
			Fluorene	0.012	mg/kg	0.0212	0.144			
			1-Methylnaphthalene	0.03	mg/kg	NS	NS			
			2-Methylnaphthalene	0.037	mg/kg	0.0202	0.201			
		Naphthalene	0.016	mg/kg	0.0346	0.391				
Phenanthrene	0.055	mg/kg	0.0419	0.515						
Pyrene	0.026	mg/kg	0.053	0.875						
26-Sep-16	14:15	Sediment	L1836545-5 (Duplicate)	ALS	F3 hydrocarbons	211	mg/kg	NS	NS	
					TEH (C23-C60)	310	mg/kg	NS	NS	
					F4 hydrocarbons	94	mg/kg	NS	NS	
					Benzo(a)pyrene	0.011	mg/kg	0.0319	0.782	
					Benzo(b&j)fluoranthene	0.032	mg/kg	NS	NS	
		Benzo(g,h,i)perylene			0.024	mg/kg	NS	NS		
		Fluoranthene			0.017	mg/kg	0.111	2.355		
		Fluorene			0.01	mg/kg	0.0212	0.144		
		1-Methylnaphthalene			0.03	mg/kg	NS	NS		
		2-Methylnaphthalene			0.04	mg/kg	0.0202	0.201		
		Naphthalene			0.016	mg/kg	0.0346	0.391		
		Phenanthrene			0.056	mg/kg	0.0419	0.515		
Pyrene	0.025	mg/kg	0.053	0.875						

Nipawin

10-Aug-16	16:20	Hwy#55 E Bank	Sediment	L1813396-4	ALS	ND	--	--	--	--
17-Aug-16	10:30		Sediment	L1816301-4	ALS	ND	--	--	--	--
25-Aug-16	12:00		Sediment	L1819957-1	ALS	ND	--	--	--	--
25-Aug-16	12:05		Sediment	L1819957-2 (Duplicate)	ALS	ND	--	--	--	--
31-Aug-16	15:50		Sediment	L1825103-1	ALS	F3 hydrocarbons	98	mg/kg	NS	NS
					TEH (C23-C60)	150	mg/kg	NS	NS	

						Total Hydrocarbons	98	mg/kg	NS	NS
07-Sep-16	17:55		Sediment	L1827113-6	ALS	ND	--	--	--	--
28-Sep-16	11:20		Sediment	L1836956-1	ALS	ND	--	--	--	--
28-Sep-16	11:35		Sediment	L1836956-2 (Duplicate)	ALS	ND	--	--	--	--
10-Aug-16	17:30	Hwy#55 Center	Sediment	L1813396-6	ALS	ND	--	--	--	--
10-Aug-16	16:50	Hwy#55 W Bank	Sediment	L1813396-5	ALS	Toluene	0.111	mg/kg	NS	NS
17-Aug-16	10:30		Sediment	L1816301-5	ALS	Toluene	0.78	mg/kg	NS	NS
25-Aug-16	13:30		Sediment	L1819957-3	ALS	ND	--	--	--	--
31-Aug-16	15:50		Sediment	L1825103-2	ALS	ND	--	--	--	--
07-Sep-16	18:25		Sediment	L1827113-7	ALS	ND	--	--	--	--
28-Sep-16	12:30		Sediment	L1836956-3	ALS	ND	--	--	--	--

South Saskatchewan River

07-Sep-16	17:15	S Sask River near Leader	Sediment	L1827507-1	ALS	Toluene	0.528	mg/kg	NS	NS
08-Sep-16	12:30	S Sask River near Estuary	Sediment	L1827507-2	ALS	Toluene	4.44	mg/kg	NS	NS
						Benzo(b&j)fluoranthene	0.01	mg/kg	NS	NS
						Phenanthrene	0.01	mg/kg	0.0419	0.515
08-Sep-16	17:30	S Sask River at Lemsford Ferry	Sediment	L1827507-3	ALS	Toluene	0.89	mg/kg	NS	NS
						Benzo(b&j)fluoranthene	0.011	mg/kg	NS	NS
09-Sep-16	9:00	S Sask River Upstream of Lancer Ferry	Sediment	L1827507-4	ALS	ND	--	--	--	--

Notes:

- ND Not Detected
- Exceeds guideline - CCME Sediment Quality Guidelines for Protection of Aquatic Life
- NS No Standard
- 1 Interim Sediment Quality Guidelines
- 2 Probable Effect Level

Contaminant	Detection Limit (mg/kg)		CCME	CCME
	SRC ug/g and mg/kg	ALS *	ISQC	PEL
Benzene	0.005	0.005	NS	NS
Ethylbenzene	0.01	0.01	NS	NS
m+p-Xylene	0.04	0.05	NS	NS
o-Xylene	0.04	0.05	NS	NS
Total Xylene	0.04	0.1	NS	NS
Toluene	0.02	0.05	NS	NS
1-Methylnaphthalene		0.01	NS	NS
2-Methylnaphthalene	0.1	0.01	0.0202	0.201
Acenaphthene	0.1	0.005	0.00671	0.0889
Acenaphthylene	0.1	0.005	0.00587	0.128
Acridine		0.01	NS	NS
Anthracene	0.1	0.004	0.0469	0.245
Benzo(a)anthracene	0.2	0.01	0.0317	0.385
Benzo(a)pyrene	0.2	0.01	0.0319	0.782
Benzo(b)fluoranthene	0.2		NS	NS
Benzo(b+j)fluoranthene		0.01	NS	NS
Benzo(e)pyrene	0.2		NS	NS
Benzo(g,h,i)perylene	0.2	0.01	NS	NS
Benzo(k)fluoranthene	0.2	0.01	NS	NS
Chrysene	0.2	0.01	0.0571	0.862
Dibenzo(a,h)anthracene	0.2	0.005	0.00622	0.135
Fluoranthene	0.1	0.01	0.111	2.355
Fluorene	0.1	0.01	0.0212	0.144
Indeno(1,2,3,-c,d)pyrene	0.2	0.01	NS	NS
Naphthalene	0.1	0.01	0.0346	0.391
Perylene	0.2		NS	NS
Phenanthrene	0.1	0.01	0.0419	0.515
Pyrene	0.1	0.01	0.053	0.875
Quinoline	0.1	0.01	NS	NS
Styrene		0.05	NS	NS
Hydrocarbons, F1 (C6-C10)		10	NS	NS
Hydrocarbons, F1 (BTEX)		10	NS	NS
Hydrocarbons, F1	10		NS	NS
Hydrocarbons, F2	3.9	30	NS	NS
TEH (C11-C22)		50	NS	NS
Hydrocarbons, F3	5	50	NS	NS
TEH (C23-C60)		100	NS	NS
Hydrocarbons, F4 (C34-C50)		50	NS	NS

Hydrocarbons, F4 (C32-C50)	5		NS	NS
Total Hydrocarbons		50	NS	NS

* Detection limits are sometimes raised for specific parameters during individual analyses