

Surface Water Quality Verification Dataset - Summary

North Saskatchewan River Release

| Sample Date | Sample Time | Location | Sample Type | ID | Substance | Result | Unit | SEQG PHC and PAH Objectives | | | | CDWQG Guideline |
|-----------------------------------|-------------|----------|-------------|----|-----------|--------|------|-----------------------------|--------------|-----------|------------|--------------------|
| | | | | | | | | Potable | Aquatic Life | Livestock | Irrigation | |
| WSA Water Quality Sampling | | | | | | | | | | | | |

Point of Entry

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|-----------|-------|-------------------------------|---------------------|-------------------|---------|--------|------|-------|--------|------|----|----------------------|
| 05-Aug-16 | 11:15 | Point of Entry South Bank | 5 cm below Surface | 23690 | ND | -- | -- | -- | -- | -- | -- | -- |
| 08-Aug-16 | 14:40 | | 5 cm below Surface | 23928 | Toluene | 0.0002 | mg/L | 0.024 | 0.0005 | 4.91 | NS | 0.024 AO / 0.060 MAC |
| 11-Aug-16 | 12:00 | | 5 cm below Surface | 24342 | ND | -- | -- | -- | -- | -- | -- | -- |
| 11-Aug-16 | 12:30 | | 5 cm below Surface | 24343 (Duplicate) | Toluene | 0.0009 | mg/L | 0.024 | 0.0005 | 4.91 | NS | 0.024 AO / 0.060 MAC |
| 15-Aug-16 | 10:00 | | 5 cm below Surface | 24853 | ND | -- | -- | -- | -- | -- | -- | -- |
| 22-Aug-16 | 9:30 | | 5 cm below Surface | 25701 | ND | -- | -- | -- | -- | -- | -- | -- |
| 05-Aug-16 | 12:35 | Point of Entry Centre Channel | 5 cm below Surface | 23691 | ND | -- | -- | -- | -- | -- | -- | -- |
| 08-Aug-16 | 16:15 | | 5 cm below Surface | 23929 | ND | -- | -- | -- | -- | -- | -- | -- |
| 11-Aug-16 | 13:45 | | 5 cm below Surface | 24344 | ND | -- | -- | -- | -- | -- | -- | -- |
| 15-Aug-16 | 10:30 | | 5 cm below Surface | 24854 | Toluene | 0.0007 | mg/L | 0.024 | 0.0005 | 4.91 | NS | 0.024 AO / 0.060 MAC |
| 22-Aug-16 | 10:15 | | 5 cm below Surface | 25702 | ND | -- | -- | -- | -- | -- | -- | -- |
| 05-Aug-16 | 12:55 | Point of Entry Centre Channel | 1.0 m below Surface | 23692 | ND | -- | -- | -- | -- | -- | -- | -- |
| 08-Aug-16 | 16:30 | | 0.3 m below surface | 23930 | ND | -- | -- | -- | -- | -- | -- | -- |
| 11-Aug-16 | 14:00 | | 1.0 m below Surface | 24347 | ND | -- | -- | -- | -- | -- | -- | -- |
| 15-Aug-16 | 10:45 | | 1.8 m below Surface | 24865 | Toluene | 0.0003 | mg/L | 0.024 | 0.0005 | 4.91 | NS | 0.024 AO / 0.060 MAC |
| 22-Aug-16 | 10:30 | | 1.8 m below Surface | 25708 | ND | -- | -- | -- | -- | -- | -- | -- |

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|-----------|-------|---------------------------|--------------------|-------------------|---------|--------|------|-------|--------|------|----|----------------------|
| 05-Aug-16 | 13:45 | Point of Entry North Bank | 5 cm below Surface | 23693 | ND | -- | -- | -- | -- | -- | -- | -- |
| 08-Aug-16 | 15:20 | | 5 cm below Surface | 23931 | ND | -- | -- | -- | -- | -- | -- | -- |
| 11-Aug-16 | 14:45 | | 5 cm below Surface | 24345 | Toluene | 0.0008 | mg/L | 0.024 | 0.0005 | 4.91 | NS | 0.024 AO / 0.060 MAC |
| 15-Aug-16 | 11:00 | | 5 cm below Surface | 24855 | ND | -- | -- | -- | -- | -- | -- | -- |
| 15-Aug-16 | 11:15 | | 5 cm below Surface | 24856 (Duplicate) | ND | -- | -- | -- | -- | -- | -- | -- |
| 22-Aug-16 | 10:45 | | 5 cm below Surface | 25703 | ND | -- | -- | -- | -- | -- | -- | -- |

Highway #21

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|-----------|-------|------------------------|--------------------|-------------------|---------------------|--------|------|-------|--------|------|----|----------------------|
| 04-Aug-16 | 18:45 | Highway #21 South Bank | 5 cm below surface | 23510 | m+p-Xylene | 0.4 | ug/L | -- | NS | NS | NS | 90 |
| | | | | | o-Xylene | 0.2 | ug/L | -- | NS | NS | NS | 90 |
| | | | | | Total Xylene | 0.6 | ug/L | -- | NS | NS | NS | 0.020 AO / 0.090 MAC |
| | | | | | Toluene | 0.0006 | mg/L | 0.024 | 0.0005 | 4.91 | NS | 0.024 AO / 0.060 MAC |
| | | | | | 2-Methylnaphthalene | 0.05 | ug/L | NS | NS | NS | NS | 20 |
| | | | | | Naphthalene | 0.07 | ug/L | -- | 1.1 | NS | NS | 90 |
| 04-Aug-16 | 19:15 | | 5 cm below Surface | 23512 (Duplicate) | m+p-Xylene | 0.4 | ug/L | -- | NS | NS | NS | 90 |
| | | | | | o-Xylene | 0.2 | ug/L | -- | NS | NS | NS | 90 |
| | | | | | Total Xylene | 0.6 | ug/L | -- | NS | NS | NS | 0.020 AO / 0.090 MAC |
| | | | | | Toluene | 0.0002 | mg/L | 0.024 | 0.0005 | 4.91 | NS | 0.024 AO / 0.060 MAC |
| | | | | | 2-Methylnaphthalene | 0.05 | ug/L | NS | NS | NS | NS | 20 |
| | | | | | Naphthalene | 0.07 | ug/L | -- | 1.1 | NS | NS | 90 |
| 08-Aug-16 | 20:35 | 5 cm below Surface | 23932 | ND | -- | -- | -- | -- | -- | -- | | |
| 12-Aug-16 | 9:10 | 5 cm below Surface | 24418 | ND | -- | -- | -- | -- | -- | -- | | |
| 15-Aug-16 | 13:45 | 5 cm below Surface | 24859 | ND | -- | -- | -- | -- | -- | -- | | |
| 22-Aug-16 | 12:45 | 5 cm below Surface | 25704 | ND | -- | -- | -- | -- | -- | -- | | |
| 22-Aug-16 | 12:50 | 5 cm below Surface | 25705 (Duplicate) | ND | -- | -- | -- | -- | -- | -- | | |
| 04-Aug-16 | 19:45 | 5 cm below Surface | 23522 | ND | -- | -- | -- | -- | -- | -- | | |

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|-----------|-------|----------------------------|---------------------|----------------------|---------|--------|------|-------|--------|------|----|-------------------------|
| 08-Aug-16 | 18:55 | Highway #21 Centre Channel | 5 cm below Surface | 23933 | ND | -- | -- | -- | -- | -- | -- | -- |
| 08-Aug-16 | 19:10 | | 5 cm below Surface | 23934 (Duplicate) | ND | -- | -- | -- | -- | -- | -- | -- |
| 12-Aug-16 | 8:10 | | 5 cm below Surface | 24417 | Toluene | 0.0005 | mg/L | 0.024 | 0.0005 | 4.91 | NS | 0.024 AO / 0.060 MAC |
| 15-Aug-16 | 13:15 | | 5 cm below Surface | 24858 | ND | -- | -- | -- | -- | -- | -- | -- |
| 22-Aug-16 | 12:15 | | 5 cm below Surface | 25706 | ND | -- | -- | -- | -- | -- | -- | -- |
| 04-Aug-16 | 19:50 | Highway #21 Centre Channel | 1.5 m below Surface | 23511 | ND | -- | -- | -- | -- | -- | -- | -- |
| 08-Aug-16 | 19:20 | | 1.0 m below Surface | 23935 | ND | -- | -- | -- | -- | -- | -- | -- |
| 12-Aug-16 | 8:20 | | 1.0 m below Surface | 24421 | Toluene | 0.0004 | mg/L | 0.024 | 0.0005 | 4.91 | NS | 0.024 AO / 0.060 MAC |
| 15-Aug-16 | 13:30 | | 1.5 m below Surface | 24866 | Toluene | 0.0003 | mg/L | 0.024 | 0.0005 | 4.91 | NS | 0.024 AO / 0.060 MAC |
| 22-Aug-16 | 12:30 | | 1.5 m below Surface | 25709 | ND | -- | -- | -- | -- | -- | -- | -- |
| 04-Aug-16 | 18:00 | Highway #21 North Bank | 5 cm below Surface | 23509 | ND | -- | -- | -- | -- | -- | -- | -- |
| 08-Aug-16 | 21:15 | | 5 cm below Surface | 23936 | ND | -- | -- | -- | -- | -- | -- | -- |
| 12-Aug-16 | 8:40 | | 5 cm below Surface | 24419 | Toluene | 0.0005 | mg/L | 0.024 | 0.0005 | 4.91 | NS | 0.024 AO / 0.060 MAC |
| 15-Aug-16 | 12:45 | | 5 cm below Surface | 24857 | ND | -- | -- | -- | -- | -- | -- | -- |
| 22-Aug-16 | 11:45 | | 5 cm below Surface | 25707 | ND | -- | -- | -- | -- | -- | -- | -- |

Paynton Ferry

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|-----------|-------|------------------------------|---------------------|-------|---------|--------|------|-------|--------|------|----|-------------------------|
| 05-Aug-16 | 17:00 | Paynton Ferry Southwest Bank | 5 cm below Surface | 23694 | ND | -- | -- | -- | -- | -- | -- | -- |
| 08-Aug-16 | 13:00 | | 5 cm below Surface | 23924 | ND | -- | -- | -- | -- | -- | -- | -- |
| 11-Aug-16 | 16:15 | | 5 cm below Surface | 24341 | ND | -- | -- | -- | -- | -- | -- | -- |
| 15-Aug-16 | 13:00 | | 5 cm below Surface | 24850 | Toluene | 0.0003 | mg/L | 0.024 | 0.0005 | 4.91 | NS | 0.024 AO / 0.060 MAC |
| 05-Aug-16 | 17:20 | Paynton Ferry Centre Channel | 5 cm below Surface | 23695 | ND | -- | -- | -- | -- | -- | -- | -- |
| 08-Aug-16 | 13:30 | | 5 cm below Surface | 23925 | ND | -- | -- | -- | -- | -- | -- | -- |
| 12-Aug-16 | 11:50 | | 5 cm below Surface | 24415 | Toluene | 0.0002 | mg/L | 0.024 | 0.0005 | 4.91 | NS | 0.024 AO / 0.060 MAC |
| 15-Aug-16 | 13:15 | | 5 cm below Surface | 24851 | Toluene | 0.0027 | mg/L | 0.024 | 0.0005 | 4.91 | NS | 0.024 AO / 0.060 MAC |
| 05-Aug-16 | 17:35 | | 0.5 m below Surface | 23696 | ND | -- | -- | -- | -- | -- | -- | -- |

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|-----------|-------|------------------------------|---------------------|--------|--------------|---------|------|----------|---------|------|------|----------------------|
| 08-Aug-16 | 13:45 | Paynton Ferry Centre Channel | 1 m below Surface | 23926 | ND | -- | -- | -- | -- | -- | -- | -- |
| 12-Aug-16 | 12:00 | | 0.5 m below Surface | 24420 | Toluene | 0.0006 | mg/L | 0.024 | 0.0005 | 4.91 | NS | 0.024 AO / 0.060 MAC |
| 15-Aug-16 | 13:25 | | 1 m below Surface | 24864 | Toluene | 0.0003 | mg/L | 0.024 | 0.0005 | 4.91 | NS | 0.024 AO / 0.060 MAC |
| 05-Aug-16 | 18:05 | Paynton Ferry Northeast Bank | 5 cm below Surface | 23697 | Toluene | 0.0003 | mg/L | 0.024 | 0.0005 | 4.91 | NS | 0.024 AO / 0.060 MAC |
| 08-Aug-16 | 14:00 | | 5 cm below Surface | 23927 | ND | -- | -- | -- | -- | -- | -- | -- |
| 12-Aug-16 | 12:35 | | 5 cm below Surface | 24416 | Toluene | 0.0004 | mg/L | 0.024 | 0.0005 | 4.91 | NS | 0.024 AO / 0.060 MAC |
| 15-Aug-16 | 13:45 | | 5 cm below Surface | 24852 | Toluene | 0.0003 | mg/L | 0.024 | 0.0005 | 4.91 | NS | 0.024 AO / 0.060 MAC |
| | | | | | Fluoranthene | 0.00006 | mg/L | 0.94267 | 0.00004 | NS | NS | NS |
| | | | | Pyrene | 0.00017 | mg/L | -- | 0.000025 | NS | NS | 0.12 | |

North Battleford near water intake

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|-----------|-------|--|---------------------|-------|---------|--------|------|----------|--------|------|----------|----------------------|
| 04-Aug-16 | 12:55 | North Battleford Intake Southwest Bank | 5 cm below Surface | 23507 | Toluene | 0.0005 | mg/L | 0.024 | 0.0005 | 4.91 | NS | 0.024 AO / 0.060 MAC |
| 08-Aug-16 | 8:30 | | 5 cm below Surface | 23920 | ND | | | | | | | |
| 11-Aug-16 | 12:30 | | 5 cm below Surface | 24340 | ND | | | | | | | |
| 15-Aug-16 | 11:00 | | 5 cm below Surface | 24846 | Toluene | 0.0004 | mg/L | 0.024 | 0.0005 | 4.91 | NS | 0.024 AO / 0.060 MAC |
| | | Anthracene | | | 0.01 | ug/L | 7.07 | 0.000012 | NS | NS | NS | |
| | | Benzo(a)anthracene | | | 0.01 | ug/L | NS | 0.018 | NS | NS | NS | |
| | | Benzo(a)pyrene | | | 0.01 | ug/L | 0.01 | 0.015 | NS | NS | 0.01 MAC | |
| 04-Aug-16 | 10:55 | North Battleford Intake Centre Channel | 5 cm below Surface | 23505 | ND | -- | -- | -- | -- | -- | -- | -- |
| 08-Aug-16 | 10:00 | | 5 cm below Surface | 23921 | Toluene | 0.0005 | mg/L | 0.024 | 0.0005 | 4.91 | NS | 0.024 AO / 0.060 MAC |
| 11-Aug-16 | 11:15 | | 5 cm below Surface | 24339 | Toluene | 0.0006 | mg/L | 0.024 | 0.0005 | 4.91 | NS | 0.024 AO / 0.060 MAC |
| 15-Aug-16 | 10:20 | | 5 cm below Surface | 24847 | Toluene | 0.0002 | mg/L | 0.024 | 0.0005 | 4.91 | NS | 0.024 AO / 0.060 MAC |
| 04-Aug-16 | 11:15 | North Battleford Intake Centre Channel | 1.5 m below Surface | 23506 | ND | -- | -- | -- | -- | -- | -- | -- |
| 08-Aug-16 | 10:15 | | 1.8 m below Surface | 23922 | ND | -- | -- | -- | -- | -- | -- | -- |
| 11-Aug-16 | 11:25 | | 1.8 m below Surface | 24346 | ND | -- | -- | -- | -- | -- | -- | -- |
| 15-Aug-16 | 10:30 | | 1.8 m below Surface | 24863 | Toluene | 0.0033 | mg/L | 0.024 | 0.0005 | 4.91 | NS | 0.024 AO / 0.060 MAC |

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|-----------|-------|------------------------------------|--------------------|----------------------|--------------------|------|------|------|-------|----|----|----------|
| 04-Aug-16 | 14:15 | North Battleford Northeast Bank | 5 cm below Surface | 23508 | ND | -- | -- | -- | -- | -- | -- | -- |
| 08-Aug-16 | 10:30 | | 5 cm below Surface | 23923 | ND | -- | -- | -- | -- | -- | -- | -- |
| 08-Aug-16 | 10:35 | | 5 cm below Surface | 23937 | ND | -- | -- | -- | -- | -- | -- | -- |
| 11-Aug-16 | 9:30 | | 5 cm below Surface | 24337 | Benzo(a)pyrene | 0.01 | ug/L | 0.01 | 0.015 | NS | NS | 0.01 MAC |
| 11-Aug-16 | 10:00 | | 5 cm below Surface | 24338 (Duplicate) | Benzo(a)anthracene | 0.01 | ug/L | NS | 0.018 | NS | NS | NS |
| | | | | | Benzo(a)pyrene | 0.02 | ug/L | 0.01 | 0.015 | NS | NS | 0.01 MAC |
| 15-Aug-16 | 9:00 | | 5 cm below Surface | 24848 | ND | -- | -- | -- | -- | -- | -- | -- |
| 15-Aug-16 | 9:20 | | 5 cm below Surface | 24849 (Duplicate) | ND | -- | -- | -- | -- | -- | -- | -- |

Prince Albert near water intake

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|-----------|-------|-----------------------------|---------------------------------|----------------------|----------------|---------|------|---------|----------|----|----|----------|
| 04-Aug-16 | 14:00 | Prince Albert South Bank | 5 cm below Surface | 23513 | Fluoranthene | 0.00004 | mg/L | 0.94267 | 0.00004 | NS | NS | NS |
| | | | | | Pyrene | 0.0001 | mg/L | -- | 0.000025 | NS | NS | 0.12 |
| 08-Aug-16 | 11:40 | | 5 cm below Surface | 23938 | ND | -- | -- | -- | -- | -- | -- | |
| 11-Aug-16 | 11:02 | | 5 cm below Surface | 24348 | ND | -- | -- | -- | -- | -- | -- | |
| 15-Aug-16 | 11:33 | | 5 cm below Surface | 24860 | ND | -- | -- | -- | -- | -- | -- | |
| 15-Aug-16 | 11:40 | | 5 cm below Surface | 24867 (Duplicate) | ND | -- | -- | -- | -- | -- | -- | |
| 22-Aug-16 | 11:15 | | 5 cm below Surface | 25710 | ND | -- | -- | -- | -- | -- | -- | |
| 04-Aug-16 | 16:45 | | Prince Albert Centre Channel | 5 cm below Surface | 23515 | ND | -- | -- | -- | -- | -- | -- |
| 08-Aug-16 | 14:20 | 5 cm below Surface | | 23940 | Benzo(a)pyrene | 0.01 | ug/L | 0.01 | 0.015 | NS | NS | 0.01 MAC |
| 08-Aug-16 | 14:20 | 5 cm below Surface | | 23940 | Fluoranthene | 0.00006 | mg/L | 0.94267 | 0.00004 | NS | NS | NS |
| 08-Aug-16 | 14:20 | 5 cm below Surface | | 23940 | Pyrene | 0.00016 | mg/L | -- | 0.000025 | NS | NS | 0.12 |
| 08-Aug-16 | 14:55 | 5 cm below Surface | | 23942 (Duplicate) | ND | -- | -- | -- | -- | -- | -- | -- |
| 11-Aug-16 | 13:20 | 5 cm below Surface | | 24350 | ND | -- | -- | -- | -- | -- | -- | -- |
| 15-Aug-16 | 13:57 | 5 cm below Surface | | 24862 | ND | -- | -- | -- | -- | -- | -- | -- |
| 22-Aug-16 | 13:55 | 5 cm below Surface | | 25713 | ND | -- | -- | -- | -- | -- | -- | -- |
| 04-Aug-16 | 17:00 | | 1.5 m below surface | 23516 | ND | -- | -- | -- | -- | -- | -- | -- |

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|-----------|-------|------------------------------|---------------------|-------------------|----------------|--------|------|-------|--------|------|----|----------------------|
| 08-Aug-16 | 14:45 | Prince Albert Centre Channel | 1.5 m below surface | 23941 | ND | -- | -- | -- | -- | -- | -- | -- |
| 11-Aug-16 | 13:30 | | 1.5 m below surface | 24352 | Toluene | 0.0003 | mg/L | 0.024 | 0.0005 | 4.91 | NS | 0.024 AO / 0.060 MAC |
| | | | | | Benzo(a)pyrene | 0.01 | ug/L | 0.01 | 0.015 | NS | NS | 0.01 MAC |
| 15-Aug-16 | 14:10 | | 1.5 m below Surface | 24868 | ND | -- | -- | -- | -- | -- | -- | -- |
| 22-Aug-16 | 14:10 | 1.5 m below Surface | 25714 | ND | -- | -- | -- | -- | -- | -- | -- | |
| 04-Aug-16 | 15:15 | Prince Albert N Bank | 5 cm below Surface | 23514 | ND | -- | -- | -- | -- | -- | -- | -- |
| 08-Aug-16 | 13:05 | | 5 cm below Surface | 23939 | ND | -- | -- | -- | -- | -- | -- | -- |
| 11-Aug-16 | 12:04 | | 5 cm below Surface | 24349 | ND | -- | -- | -- | -- | -- | -- | -- |
| 11-Aug-16 | 12:12 | | 5 cm below Surface | 24351 (Duplicate) | ND | -- | -- | -- | -- | -- | -- | -- |
| 15-Aug-16 | 12:57 | | 5 cm below Surface | 24861 | ND | -- | -- | -- | -- | -- | -- | -- |
| 22-Aug-16 | 12:20 | | 5 cm below Surface | 25711 | ND | -- | -- | -- | -- | -- | -- | -- |
| 22-Aug-16 | 12:33 | | 5 cm below Surface | 25712 (Duplicate) | ND | -- | -- | -- | -- | -- | -- | -- |

James Smith Cree Nation

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|-----------------|-------|-----------------------------------|-------------------------|-------|----------------------|------|-------|--|----|----|----|----|
| 18-Aug-16 | 17:00 | N Sask at James Smith Cree Nation | 2 cm below surface | 25429 | ND | -- | -- | -- | -- | -- | -- | -- |
| 18-Aug-16 | 17:00 | N Sask at James Smith Cree Nation | 10 inches below surface | 25430 | ND | -- | -- | -- | -- | -- | -- | -- |
| 18-Aug-16 | 17:00 | N Sask at James Smith Cree Nation | Surface Foam | 25426 | 2-Methylnaphthalene | 0.05 | mg/kg | Data for this foam sample is given in mg/kg as the material does not occupy the same volume as a water sample for the same weight of material Guideline values are not presented as the sample is neither water or sediment | | | | |
| | | | | | Anthracene | 0.01 | mg/kg | | | | | |
| | | | | | Benzo(a)anthracene | 0.01 | mg/kg | | | | | |
| | | | | | Benzo(a)pyrene | 0.03 | mg/kg | | | | | |
| | | | | | Benzo(e)pyrene | 0.01 | mg/kg | | | | | |
| | | | | | Benzo(k)fluoranthene | 0.04 | mg/kg | | | | | |
| | | | | | Chrysene | 0.04 | mg/kg | | | | | |
| | | | | | Fluoranthene | 0.01 | mg/kg | | | | | |
| | | | | | Fluorene | 0.01 | mg/kg | | | | | |
| | | | | | Naphthalene | 0.03 | mg/kg | | | | | |
| | | | | | Phenanthrene | 0.07 | mg/kg | | | | | |
| | | | | | Pyrene | 0.02 | mg/kg | | | | | |
| | | | | | F3 Hydrocarbons | 160 | mg/kg | | | | | |
| F4 Hydrocarbons | 23 | mg/kg | | | | | | | | | | |

Near Hwy#6 - Wapiti reach

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|-----------|-------|----------------------|---------------------|-------------------|---------|--------|------|-------|--------|------|----|----------------------|
| 03-Aug-16 | 10:30 | Wapiti Resort Inlet | 5 cm below surface | 23321 | ND | -- | -- | -- | -- | -- | -- | -- |
| 10-Aug-16 | 12:15 | Hwy#6 S Bank | 5 cm below surface | 24130 | Toluene | 0.0003 | mg/L | 0.024 | 0.0005 | 4.91 | NS | 0.024 AO / 0.060 MAC |
| 17-Aug-16 | 10:30 | | 5 cm below surface | 25205 | ND | -- | -- | -- | -- | -- | -- | -- |
| 03-Aug-16 | 11:15 | Hwy#6 Centre Channel | 5 cm below surface | 23322 | ND | -- | -- | -- | -- | -- | -- | -- |
| 10-Aug-16 | 13:40 | | 5 cm below surface | 24132 | Toluene | 0.0004 | mg/L | 0.024 | 0.0005 | 4.91 | NS | 0.024 AO / 0.060 MAC |
| 10-Aug-16 | 13:42 | | 5 cm below surface | 24133 (Duplicate) | Toluene | 0.0002 | mg/L | 0.024 | 0.0005 | 4.91 | NS | 0.024 AO / 0.060 MAC |
| 17-Aug-16 | 11:00 | | 5 cm below surface | 25206 | Toluene | 0.0007 | mg/L | 0.024 | 0.0005 | 4.91 | NS | 0.024 AO / 0.060 MAC |
| 10-Aug-16 | 13:45 | Hwy#6 Centre Channel | 3.5 m below surface | 24134 | ND | -- | -- | -- | -- | -- | -- | -- |
| 17-Aug-16 | 11:10 | | 3 m below surface | 25212 | Toluene | 0.0003 | mg/L | 0.024 | 0.0005 | 4.91 | NS | 0.024 AO / 0.060 MAC |
| 03-Aug-16 | 12:20 | Hwy#6 N Bank | 5 cm below surface | 23323 | ND | -- | -- | -- | -- | -- | -- | -- |
| 10-Aug-16 | 10:05 | | 5 cm below surface | 24131 | Toluene | 0.0003 | mg/L | 0.024 | 0.0005 | 4.91 | NS | 0.024 AO / 0.060 MAC |
| 17-Aug-16 | 11:30 | | 5 cm below surface | 25207 | Toluene | 0.0007 | mg/L | 0.024 | 0.0005 | 4.91 | NS | 0.024 AO / 0.060 MAC |
| 17-Aug-16 | 11:40 | | 5 cm below surface | 25208 (Duplicate) | Toluene | 0.0006 | mg/L | 0.024 | 0.0005 | 4.91 | NS | 0.024 AO / 0.060 MAC |

Codette Reservoir

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|-----------|-------|-------------------|--------------------|-------|----|----|----|----|----|----|----|----|
| 03-Aug-16 | 13:00 | Codette R. N Bank | 5 cm below surface | 23324 | ND | -- | -- | -- | -- | -- | -- | -- |
| 03-Aug-16 | 13:30 | Codette R. N Bank | 6 m below surface | 23325 | ND | -- | -- | -- | -- | -- | -- | -- |
| 03-Aug-16 | 14:00 | Codette R. S Bank | 5 cm below surface | 23326 | ND | -- | -- | -- | -- | -- | -- | -- |
| 03-Aug-16 | 14:15 | Codette R. S Bank | 6 m below surface | 23327 | ND | -- | -- | -- | -- | -- | -- | -- |

Nipawin

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|-----------|-------|-----------------------|--------------------|-------|---------|--------|------|-------|--------|------|----|----------------------|
| 10-Aug-16 | 16:12 | Hwy#55 E Bank | 5 cm below surface | 24135 | Toluene | 0.0003 | mg/L | 0.024 | 0.0005 | 4.91 | NS | 0.024 AO / 0.060 MAC |
| 17-Aug-16 | 14:30 | | 5 cm below surface | 25209 | ND | -- | -- | -- | -- | -- | -- | -- |
| 03-Aug-16 | 17:45 | Hwy#55 Centre Channel | 5 cm below surface | 23328 | ND | -- | -- | -- | -- | -- | -- | -- |
| 10-Aug-16 | 17:15 | | 5 cm below surface | 24137 | ND | -- | -- | -- | -- | -- | -- | -- |
| 17-Aug-16 | 15:00 | | 5 cm below surface | 25210 | ND | -- | -- | -- | -- | -- | -- | -- |

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| 10-Aug-16 | 17:20 | Hwy#55 Centre Channel | 4 m below surface | 24138 | ND | -- | -- | -- | -- | -- | -- | -- |
| 17-Aug-16 | 15:10 | | 3.5 m below surface | 25213 | ND | -- | -- | -- | -- | -- | -- | -- |
| 10-Aug-16 | 16:42 | Hwy#55 W Bank | 5 cm below surface | 24136 | ND | -- | -- | -- | -- | -- | -- | -- |
| 17-Aug-16 | 15:30 | | 5 cm below surface | 25211 | ND | -- | -- | -- | -- | -- | -- | -- |

Upstream of Cumberland House

| | | | | | | | | | | | | |
|-----------|-------|--|--------------------|-------|----|----|----|----|----|----|----|----|
| 09-Aug-16 | 15:00 | | 5 cm below surface | 24598 | ND | -- | -- | -- | -- | -- | -- | -- |
|-----------|-------|--|--------------------|-------|----|----|----|----|----|----|----|----|

Notes:

- ND Not Detected for all parameters noted below.
- Exceeds guideline - Drinking Water
- Exceeds guideline - Aquatic Life, Livestock, or Irrigation pathway
- AO Aesthetic Objective
- MAC Maximum Acceptable Concentration
- NS No Standard

Saskatchewan Research Council - Environmental Analytics Laboratories

Legal sample continuity protocol followed.

| Analysis | Contaminant | Detection Limit (µg/L) |
|----------|--------------------------|------------------------|
| | | SRC |
| HC | Benzene | <0.2 |
| HC | Ethylbenzene | <0.2 |
| HC | m+p-Xylene | <0.2 |
| HC | o-Xylene | <0.2 |
| HC | Total Xylene | <0.2 |
| HC | Toluene | <0.2 |
| PAH | 2-Methylnaphthalene | <0.05 |
| PAH | Acenaphthene | <0.05 |
| PAH | Acenaphthylene | <0.05 |
| PAH | Acridine | -- |
| PAH | Anthracene | <0.01 |
| PAH | Benzo(a)anthracene | <0.01 |
| PAH | Benzo(a)pyrene | <0.01 |
| PAH | Benzo(b)fluoranthene | <0.5 |
| PAH | Benzo(b+j)fluoranthene | -- |
| PAH | Benzo(e)pyrene | <0.5 |
| PAH | Benzo(g,h,i)perylene | <0.5 |
| PAH | Benzo(k)fluoranthene | <0.5 |
| PAH | Chrysene | <0.1 |
| PAH | Dibenzo(a,h)anthracene | <0.5 |
| PAH | Fluoranthene | <0.02 |
| PAH | Fluorene | <0.05 |
| PAH | Indeno(1,2,3,-c,d)pyrene | <0.5 |
| PAH | Naphthalene | <0.05 |

| | | |
|-----|----------------------------|-------|
| PAH | Perylene | <0.5 |
| PAH | Phenanthrene | <0.05 |
| PAH | Pyrene | <0.02 |
| PAH | Quinoline | <0.05 |
| HC | Hydrocarbons, F1 | <5 |
| HC | Hydrocarbons, F2 | <50 |
| HC | Hydrocarbons, F3 | <50 |
| HC | Hydrocarbons, F4 (C32-C50) | <50 |