

August 31, 2016

Director
Environmental Approvals Branch
Manitoba Sustainable Development
160 - 123 Main Street
Winnipeg MB R3C 1A5

Attention: Ms. Tracey Braun
Director

Notice of Alteration to Licence No. 2373 E RR

On behalf our client, the Rural Municipality of Taché, we are submitting a Notice of Alteration to Licence No. 2373 E RR.

Following the recommendation provided by Ms. Cory Switzer, Environmental Engineer with the Province of Manitoba (Manitoba Sustainable Development), we have reviewed the Town of Altona (Altona) Licence (No. 3193, issued August 16, 2016), Appendix 'A' Water Chemistry Parameter list. We find that the proposed list of water quality parameters therein to be more suited towards monitoring the licenced facilities covered under the R.M. of Taché's existing Licence (No. 2373 E RR). We recommend that the Water Chemistry Parameter list provided in Licence No. 3193 replace the Water Quality Chemical and Microbiological Parameter list in Licence No. 2373 E RR.

We understand that this is an administrative change to be consistent with other licences; therefore Ms. Switzer has recommended that no Notice of Alteration fee is required.

Sincerely,

DILLON CONSULTING LIMITED



Indra Kalinovich, Ph.D., C.Chem, E.I.T.
Associate

IKK:jar

enclosed: 1- Notice of Alteration form
2 – Letter to Ms. Cory Switzer

cc: Mr. Pete Skjaerlund, R.M. of Taché

Our file: 16-4384



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August 30, 2016

Manitoba Sustainable Development
Environmental Approvals
160 - 123 Main Street (Box 80)
Winnipeg, MB R3C 1A5

Attention: Cory Switzer, P.Eng.
Environmental Engineer

Requested Update to Water Quality Parameter List for Licence No. 2373 E RR

Dear Ms. Switzer,

On behalf our client, the Rural Municipality (R.M.) of Taché, we are requesting an update to the existing Environmental Act Licence No. 2373 E RR Water Chemistry Parameter List, appended to the Licence as Table 1. The existing Licence references an outdated parameter list (e.g., total metals in groundwater, residue analysis) which presents inconsistencies when comparing with the current groundwater guidelines developed for the protection of environmental and human health, as well as providing additional challenges when assessing sampling and analysis Quality Assurance and Quality Control measures.

Following the recommendation provided by Ms. Cory Switzer, Environmental Engineer with the Province of Manitoba (Manitoba Sustainable Development), we have reviewed the Town of Altona Licence (No. 3193, issued August 16, 2016), Appendix 'A' Water Chemistry Parameter list. We find that the proposed list of water quality parameters therein to be more suited towards monitoring the licenced facilities covered under the R.M. of Taché's existing Licence (No. 2373 E RR). We recommend that the Water Chemistry Parameter list provided in Licence No. 3193 replace the Water Quality Chemical and Microbiological Parameter list in Licence No. 2373 E RR.

Sincerely,

DILLON CONSULTING LIMITED



Indra Kalinovich, Ph.D., C.Chem, E.I.T.
Associate

IKK:knp

cc: Mr. Pete Skjaerlund, R.M. of Taché

Enclosed: *1- Appendix 'A' to Environment Act Licence No. 3193 Clauses 66, 68 and 71 – Water Chemistry Parameters.*
2 – Table 1 to Environment Act Licence No. 2373 E RR – Background Water Quality Chemical and Microbiological Parameters.



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APPENDIX 'A'
TO ENVIRONMENT ACT LICENCE NO. 3193 Clauses 66, 68 and 71
Water Chemistry Parameters

| Chemical Parameters | | |
|-------------------------------------------|--|-----------------------------------------|
| Inorganics | | |
| Alkalinity – Total | | Magnesium – Dissolved |
| Ammonia – Total | | Manganese – Dissolved |
| Arsenic – Total | | Mercury – Dissolved |
| Barium – Dissolved | | Nitrate - Reported as N |
| Boron – Dissolved | | Nitrite - Reported as N |
| Cadmium – Dissolved | | Total Kjeldahl Nitrogen – Reported as N |
| Calcium – Dissolved | | pH |
| Calcium Carbonate | | Total Phosphorous |
| Chloride | | Potassium – Dissolved |
| Chromium – Dissolved | | Silicon – Dissolved |
| Conductivity | | Sodium – Dissolved |
| Copper – Dissolved | | Total Dissolved Solids (TDS) |
| Iron – Dissolved | | Sulphate |
| Lead – Dissolved | | Uranium – Dissolved |
| | | Zinc – Dissolved |
| Volatile Organic Compounds (VOC's) | | |
| BTEX | | |
| Other Organics | | |
| Biological Oxygen Demand (BOD) | | Chemical Oxygen Demand (COD) |
| Dissolved Organic Carbon (DOC) | | |
| Field Parameters | | |
| pH | | Groundwater Elevation |
| Conductivity | | Dissolved Oxygen |
| Temperature | | |

Note: All metals (except Arsenic) are to be sampled for dissolved analysis. Dissolved samples should be filtered in the field and preserved in the field at time of sampling. If dissolved samples are not to be filtered and preserved in the field then Conservation and Water Stewardship and the Laboratory must be notified prior to sampling.

**TABLE 1
TO ENVIRONMENT ACT LICENCE NO. 2373 E RR**

**BACKGROUND WATER QUALITY CHEMICAL
AND MICROBIOLOGICAL PARAMETERS**

| Parameter | Abbreviation | Notes |
|--------------------------|-----------------------------------|----------------------|
| Alkalinity-Bicarbonate | HCO ₃ | |
| Alkalinity-Carbonate | CO ₃ | |
| Alkalinity-Hydroxide | OH | |
| Alkalinity | CACO ₃ -T | Total |
| Ammonia | NH ₃ -NN/MR | |
| Arsenic | AS-T | Total |
| Barium | | Total |
| Beryllium | | Total |
| Benzene | BTEX-B | |
| Cadmium | CD-T | Total |
| Calcium | CA | |
| Chloride | CL/HR | Total |
| Chromium | CR-T | Total |
| Copper | CU-E | Total |
| Cyanide | CN-T | Total |
| Diazinon | DIA | |
| Ethylbenzene | BTEX-F | Free |
| Hardness | | As CaCO ₃ |
| Iron | FE-T | Total |
| Lead | PB-T | Total |
| Magnesium | MG-T | |
| Manganese | MN-T | Total |
| Mercury | | Total |
| Nickel | NI-T | Total |
| Nitrate-Nitrite-Nitrogen | NO ₃ NO ₂ N | |
| pH | | Units |

| | | |
|-------------------------|---------------------|-------------------------------|
| Phosphorous | P-T/MR | Total |
| Potassium | K-E | |
| Residue | FR | Filterable |
| Residue | NFR | Non-filterable |
| Residue | TR | Total |
| Selenium | | Total |
| Silver | | Total |
| Sodium | NA-T | Total |
| Specific Conductivity | | |
| Sulphate | SO ₄ /HR | |
| Toluene | BTEX-T | |
| Total Kjeldhal Nitrogen | TKN | |
| Turbidity | NTU | Nephelometric Turbidity Units |
| Vinyl Chloride | | |
| Xylene | BTEX-X | Total |
| Zinc | ZN-T | Total |
| 2, 4-D | | |
| Coliforms | | Fecal & Total |

**APPENDIX A
TO ENVIRONMENT ACT LICENCE NO. 2373 E RR**

CONTINGENCY PLAN GUIDELINE

GENERAL POLICY STATEMENT

Provide a general statement on the company's policy as they relate to emergency planning and the way in which the contingency plan addresses these policies.

HAZARD IDENTIFICATION

Describe the types of situations this plan will address. (Hazardous materials releases, fire, severe weather, power outages, etc.)

COMPANY EMERGENCY PERSONNEL LIST

List the company personnel who are assigned specific functions in the case of an emergency. Include job titles, home and office phone numbers, and a description of the person's emergency response duties.