

## Permits

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**From:** Miki Ehrlich  
**Sent:** Tuesday, September 1, 2015 11:28 AM  
**To:** Permits  
**Subject:** FW: Better version  
**Attachments:** Reported exceedences of Surface Water Runoffs (SWF and Stormwater) and Groundwater (SWF & KBL) in YK.XLS

Please post email and attachment to [MV2009L3-0007 – Permit-Licence-Other issuances – SNP Program](#)  
Title: City of YK – Updated version of ENR compilation of past monitoring results – Aug27-15

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**From:** Jeanne Arsenault [mailto:[Jeanne\\_Arsenault@gov.nt.ca](mailto:Jeanne_Arsenault@gov.nt.ca)]  
**Sent:** Thursday, August 27, 2015 11:30 AM  
**To:** Miki Ehrlich  
**Subject:** Better version

Hi Miki,

This is a better version of the doc sent on Tuesday. Still is a draft compilation – but a better one. Hope that helps -

Please note that the first light green column represents surface water monitoring parameters and their associated limits from the “Standards for Landfills in Alberta”. It should be noted that while these standards require surface water monitoring of fewer parameters (and associated limits), they also refer to a run-off control system for run-off management (p. 23-24) – which is currently non-existent for Yellowknife runoffs.

Jeanne

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Last updated by Jeanne Arsenault on August 2015

SURFACE WATER & GROUNDWATER PARAMETERS EXCEEDENCES REPORTED in and around YELLOWKNIFE	Exceedances				Parameters	Wastewater - CCME WSER	SW - ALBERTA LANDFILL	SW - Monitored at YK SNP	SW - Recommended additions	GW - ALBERTA LANDFILL
	YK - Landfill runoff @ SNPs	YK - Stormwater SNP	YK - GW (LDS)	At KBL (Beside Landfill)	Parameters					
<b>GENERAL &amp; INORGANICS</b>	SW	ST	GW	KBL		AB	SW	AD	AB	
pH					pH	6-9.5				
Cyanide (free) Fluoride					Alkalinity Cyanide (free) Fluoride					
Sulphide (as H2S)					Electrical Conductivity Hardness Sulphide (as H2S)					
<b>MAJOR IONS</b>	SW	ST	GW	KBL		AB	SW	AD	AB	
Chloride					Bicarbonate Carbonate Hydroxide Chloride Dissolved Chloride (Cl)	250				
Calcium										
Magnesium										
Nitrite (N)					Nitrite (N)					
Dissolved Nitrite (N)										
Nitrate					Nitrate (N)					
Dissolved Nitrate (N)										
Potassium										
Sodium					Sodium	200				
Sulphate					Sulphate	500				
Dissolved Sulphate (SO4)										

NUTRIENTS		SW	ST	GW	KBL		AB	SW	AD	AB
Ammonia										
Total Ammonia							5			
Ammonia as Nitrogen										
Dissolved Organic Carbon (DOC)										
Total Phosphorus										
Ortho-Phosphorus										
Total Dissolved Solids							###			
						<b>TSS (Tot Susp Solids)</b>	25	25		
						Total Kjeldahl Nitrogen		50		
Chemical Oxygen Demand										
Oil and Grease (visible)										
METALS		SW	ST	GW	KBL		AB	SW	AD	AB
Aluminum										
						Dissolved Aluminum				
Antimony										
						Dissolved Antimony				
Arsenic										
						Dissolved Arsenic				
Barium										
						Beryllium				
Boron										
Bromate										
Cadmium										
Dissolved Cadmium										
Chromium										
						Dissolved Chromium				
Cobalt										
Copper										
						Dissolved Copper				
Iron										
						Dissolved Iron				
Lead										
						Dissolved Lead				
						Lithium				
Manganese										
						Dissolved Manganese				

Mercury				Molybdenum					
Dissolved Mercury				Mercury					
Nickel				Dissolved Mercury					
Selenium				Nickel					
Silver				Dissolved Nickel					
				Potassium					
				Selenium					
				Dissolved Selenium					
				Silicon					
				Silver					
				Dissolved Silver					
				Sodium					
				Dissolved Sodium					
				Strontium					
				Sulphur					
				Thallium					
				Tin					
				Titanium					
				Dissolved Titanium					
				Uranium					
				Dissolved Uranium					
				Vanadium					
Zinc				Zinc					
				Dissolved Zinc					
OTHER EXCEEDENCES									
CONVENTIONALS						AB	SW	AD	AB
Total Ammonia				Unionized Ammonia	1,25				
Biochemical Oxygen Demand				CBOD	25				
Carbonaceous BOD									
Total Chemical Oxygen Demand									
Turbidity									
Phenols									
HYDROCARBONS and/or VOC					SW	GW	KBL	Hydrocarbons	AB AB SW AD AB
Benzene				Benzene					
Toluene				Toluene					

Ethylbenzene				Ethylbenzene				
Xylenes				Xylenes				
Styrene				Styrene				
F1				F1				
F2				F2				
				F3				
				F4				
Phenols				Phenols				
				Methylene Chloride				
				Vinyl Chloride				
				Trichloroethylene (TCE)				
				Tetrachlorethylene (PCE)				
Acenaphthene				Acenaphthene				
Acenaphthylene				Acenaphthylene				
Anthracene				Anthracene				
Fluoranthene				Fluoranthene				
Fluorene				Fluorene				
Naphthalene								
Carcinogenic PAHs				Carcinogenic PAHs				
Benz[a]anthracene				Benz[a]anthracene				
Benzo[b+]fluoranthene				Benzo[b+]fluoranthene				
Benzo[k]fluoranthene				Benzo[k]fluoranthene				
Benzo[g,h,i]perylene				Benzo[g,h,i]perylene				
Benzo[a]pyrene				Benzo[a]pyrene				
Chrysene				Chrysene				
Dibenz[a,h]anthracene				Dibenz[a,h]anthracene				
Indeno[1,2,3-c,d]pyrene				Indeno[1,2,3-c,d]pyrene				