

Agreement No. CE 61/2007 (CE)  
 North East New Territories New Development Area  
 Planning and Engineering Study - Investigation  
 Land Contamination Assessment

Borehole No.: **FLN-9a-3**  
**Groundwater**

Wellab Lab ID	09363-1
Sampling ID	FLN-9a-3 (GW)
Sampling Date	23-Sep-09

Chemicals	Reporting Limit		RBRGs			Solubility Limit (mg/L)		(µg/L)	(mg/L)
	(µg/L)	(mg/L)	Urban Residential (mg/L)	Rural Residential (mg/L)	Industrial (mg/L)				
<b>VOCs</b>									
Acetone	10	0.01	10,000	<b>10,000</b>	10,000	***		23	0.023
Benzene	0.1	0.0001	3.86	<b>1.49</b>	54.0	1,750		<0.1	<0.0001
Bromodichloromethane	0.1	0.0001	2.22	<b>0.871</b>	26.2	6,740		0.5	0.0005
2-Butanone	5	0.005	10,000	<b>10,000</b>	10,000	***		7	0.007
Chloroform	0.1	0.0001	0.956	<b>0.382</b>	11.3	7,920		11	0.011
Ethylbenzene	0.1	0.0001	1,020	391	10,000	<b>169</b>		<0.1	<0.0001
Methyl tert-Butyl Ether	0.2	0.0002	153	<b>61.1</b>	1,810	***		<0.2	<0.0002
Methylene Chloride	0.5	0.001	19.0	<b>7.59</b>	224	***		2	0.002
Styrene	0.2	0.0002	3,020	1,160	10,000	<b>310</b>		<0.2	<0.0002
Tetrachloroethene	0.1	0.0001	0.250	<b>0.0996</b>	2.95	200		<0.1	<0.0001
Toluene	0.2	0.0002	5,110	1,970	10,000	<b>526</b>		0.4	0.0004
Trichloroethene	0.1	0.0001	1.21	<b>0.481</b>	14.2	1,100		<0.1	<0.0001
Xylenes (Total)	0.1	0.0001	112	<b>43.3</b>	1,570	175		<0.1	<0.0001
<b>SVOCs</b>									
Acenaphthene	0.2	0.0002	10,000	7,090	10,000	<b>4.24</b>		<0.2	<0.0002
Acenaphthylene	0.2	0.0002	1,410	542	10,000	<b>3.93</b>		<0.2	<0.0002
Anthracene	0.2	0.0002	10,000	10,000	10,000	<b>0.0434</b>		<0.2	<0.0002
Benzo(b)fluoranthene	0.2	0.0002	0.539	0.203	7.53	<b>0.0015</b>		<0.2	<0.0002
Chrysene	0.2	0.0002	58.1	21.9	812	<b>0.0016</b>		<0.2	<0.0002
Fluoranthene	0.2	0.0002	10,000	10,000	10,000	<b>0.206</b>		<0.2	<0.0002
Fluorene	0.2	0.0002	10,000	10,000	10,000	<b>1.98</b>		<0.2	<0.0002
Hexachlorobenzene	0.5	0.0005	0.0589	<b>0.0234</b>	0.695	6.20		<0.5	<0.0005
Naphthalene	0.2	0.0002	61.7	<b>23.7</b>	862	31.0		4.2	0.0042
Phenanthrene	0.2	0.0002	10,000	10,000	10,000	<b>1.00</b>		<0.2	<0.0002
Pyrene	0.2	0.0002	10,000	10,000	10,000	<b>0.135</b>		<0.2	<0.0002
<b>Metals</b>									
Mercury	1	0.001	0.486	<b>0.184</b>	6.79			1	0.001
<b>Petroleum Carbon Ranges</b>									
C6 - C8		2	82.2	31.7	1,150	<b>5.23</b>			<2
C9 - C16		2	714	276	9,980	<b>2.80</b>			<2
C17 - C35		2	12.8	4.93	178	<b>2.80</b>			<2

\*\*\* indicated that the solubility limit exceeds the 'ceiling limit' therefore the RBRG applies

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Borehole No.: **KTN-77,78-1** and **KTN-77,78-4**  
**Groundwater**

		Wellab Lab ID		09662-1		09662-1					
		Sampling ID		KTN-77,78-1 (GW)		KTN-77,78-4 (GW)					
		Sampling Date		13-Nov-09		13-Nov-09					
Chemicals	Reporting Limit		RBRGs			Solubility Limit (mg/L)					
	(µg/L)	(mg/L)	Urban Residential (mg/L)	Rural Residential (mg/L)	Industrial (mg/L)						
<b>VOCs</b>											
Acetone	10	0.01	10,000	10,000	10,000	***	<10	<0.01	<10	<0.01	
Benzene	0.1	0.0001	3.86	1.49	54.0	1,750	<0.1	<0.0001	<0.1	<0.0001	
Bromodichloromethane	0.1	0.0001	2.22	0.871	26.2	6,740	0.9	0.0009	0.2	0.0002	
2-Butanone	5	0.005	10,000	10,000	10,000	***	<5	<0.005	<5	<0.005	
Chloroform	0.1	0.0001	0.956	0.382	11.3	7,920	2.0	0.002	1.2	0.0012	
Ethylbenzene	0.1	0.0001	1,020	391	10,000	169	<0.1	<0.0001	<0.1	<0.0001	
Methyl tert-Butyl Ether	0.2	0.0002	153	61.1	1,810	***	<0.2	<0.0002	<0.2	<0.0002	
Methylene Chloride	0.5	0.0005	19.0	7.59	224	***	<0.5	<0.0005	0.5	0.0005	
Styrene	0.2	0.0002	3,020	1,160	10,000	310	<0.2	<0.0002	<0.2	<0.0002	
Tetrachloroethene	0.1	0.0001	0.250	0.0996	2.95	200	<0.1	<0.0001	<0.1	<0.0001	
Toluene	0.2	0.0002	5,110	1,970	10,000	526	<0.2	<0.0002	<0.2	<0.0002	
Trichloroethene	0.1	0.0001	1.21	0.481	14.2	1,100	<0.1	<0.0001	<0.1	<0.0001	
Xylenes (Total)	0.1	0.0001	112	43.3	1,570	175	<0.1	<0.0001	<0.1	<0.0001	
<b>SVOCs</b>											
Acenaphthene	0.1	0.0001	10,000	7,090	10,000	4.24	<0.1	<0.0001	<0.1	<0.0001	
Acenaphthylene	0.1	0.0001	1,410	542	10,000	3.93	<0.1	<0.0001	<0.1	<0.0001	
Anthracene	0.1	0.0001	10,000	10,000	10,000	0.0434	<0.1	<0.0001	<0.1	<0.0001	
Benzo(b)fluoranthene	0.1	0.0001	0.539	0.203	7.53	0.0015	<0.1	<0.0001	<0.1	<0.0001	
Chrysene	0.1	0.0001	58.1	21.9	812	0.0016	<0.1	<0.0001	<0.1	<0.0001	
Fluoranthene	0.1	0.0001	10,000	10,000	10,000	0.206	<0.1	<0.0001	<0.1	<0.0001	
Fluorene	0.1	0.0001	10,000	10,000	10,000	1.98	<0.1	<0.0001	<0.1	<0.0001	
Hexachlorobenzene	0.01	0.00001	0.0589	0.0234	0.695	6.20	<0.01	<0.00001	<0.01	<0.00001	
Naphthalene	0.1	0.0001	61.7	23.7	862	31.0	<0.1	<0.0001	<0.1	<0.0001	
Phenanthrene	0.1	0.0001	10,000	10,000	10,000	1.00	<0.1	<0.0001	<0.1	<0.0001	
Pyrene	0.1	0.0001	10,000	10,000	10,000	0.135	<0.1	<0.0001	<0.1	<0.0001	
<b>Metals</b>											
Mercury	1	0.001	0.486	0.184	6.79		<1	<0.001	<1	<0.001	
<b>Petroleum Carbon Ranges</b>											
C6 - C8		2	82.2	31.7	1,150	5.23		<2		<2	
C9 - C16		2	714	276	9,980	2.80		<2		<2	
C17 - C35		2	12.8	4.93	178	2.80		<2		<2	
<b>PCBs</b>											
PCBs	0.36	0.00036	0.433	0.171	5.11	0.031	<0.36	<0.00036	<0.36	<0.00036	

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