

MONITORING WELL ID: MW08-15



Project Location: 5900 Minoru Blvd. and 5891 & 5931 No. 3 Rd.
Drilling Contractor: Rocky Mountain Soil Sampling Ltd.
Drilling Equipment/Method: Solid stem / Split spoon

Project Name/No.: 9686-04
Client: Phileo Development Corp.
Engineer/Geologist: ISK
Drill Date: January 31, 2008

Depth (ft/m)	Symbol	Soil / Sediment Description	Sample Type	% Recovery	Sample Analyzed (Y,N)	Sample ID	Headspace (GasTech)			Well Construction	Remarks
							ppm 0 100 300 500	LEL in % 0 20 60 100			
0		Ground Surface									
0		ASPHALT									
0.3		FILL Grey, coarse grained sand and gravel, roadbase. Odours and/or staining not observed.		100	N	MW08-15 (0.3 m)	10				
0.6		SILT Brown, peaty, organic SILT, loose. Odours and/or staining not observed.		100	N	MW08-15 (0.6 m)	25				
0.8		clayey SILT Grey, clayey SILT, organics, damp to wet. Faint hydrocarbon odour and black organic streaking present.		100	Y	MW08-15 (0.8 m)	220				
1.5		becoming sandy, wet at 1.5 m.		70	N	MW08-15 (1.5 m)	85				
2.3		SAND Grey, fine to medium grained SAND, some clayey silt. Faint hydrocarbon odour present. Staining was not observed.		40	N	MW08-15 (2.3 m)	80				
3.1		SAND Grey, fine to medium grained SAND. Organic odour present.		30	N	MW08-15 (3.1 m)	40				
3.8		SAND Grey, medium to coarse grained SAND. Organic and faint hydrocarbon odours present.			N	MW08-15 (3.8 m)	65				
4.6					Y	MW08-15 (4.6 m)	60				
5.5					N	MW08-15 (5.5 m)	60				
5.53		End of Hole			N	MW08-15 (5.53 m)	60				

Location of Well: East of MW06-5
 Date of Water Level: February 6, 2008
 Water Level (from TOC): 0.711 m

Well-Borehole Diameter: 15 cm
 Well Casing Diameter: 5 cm
 Well Casing Material: PVC
 Well Screen Slot Size: 0.25 mm

Depth of Well (TOC): 5.43 m

Calculated Groundwater Travel Times for 9686-04

Average Hydraulic Conductivity (m/s)	dh/dl	Effective Porosity	(K(dh/dl))/eff.por	m/yr	m/50yr	m/100yr
1.00E-04	0.0003	0.3	1.000E-07	3.154	157.7	315.4

dh	0.34
dl	450.0
average hydraulic conductivity	5.56E-06

Time required to reach the nearest Richmond drainage channel to the NW: 158.5 years

Distance to Richmond drainage channel: 500 m

Well	K (m/s)
MW08-6	7.90E-06
MW08-8	4.23E-07
MW08-15	8.37E-06
Avg	5.56E-06
Fill Sands Estimate	1.00E-04