



**FUGRO  
GEOTECHNICAL  
SERVICES LTD**

**DRILLHOLE RECORD**

HOLE No. **KTN-77.78-1**

CONTRACT No.: **GE/2008/04**

SHEET: **1** of **1**

PROJECT: **Agreement No. CE 61/2007 (CE), North East New Territories New Development Areas Planning and Engineering Study - Investigation (for Land Contamination Impact Assessment)**

METHOD: **Rotary Drilling**

CO-ORDINATES:

WORKS ORDER No. **GE/2008/04.29A**

MACHINE & No.: **FDR-30**

E **827965.56**  
N **840910.70**

DATE from: **09/11/2009** to **13/11/2009**

FLUSHING MEDIUM: **Water**

ORIENTATION: **Vertical**

GROUND LEVEL **+ 18.36** mPD

Drilling Progress	Casing depth/size	Water Level (m) Shift start/end	Water Return %	TCR %	SCR %	RQD %	FI	Tests	Samples			Reduced Level	Depth (m)	Legend	Grade	Description
									No.	Type	Depth					
11/11/2009	PW	Dry at 08:00									18.36	0.00				Soft to firm, greyish brown (10YR/5/2), sandy clayey SILT with occasional angular fine to medium gravel of strong granite. (FILL)
1									INSPECTION PIT				0.50			Soft to firm, light yellowish brown (2.5Y/6/4), slightly sandy, clayey SILT. (ALLUVIUM)
2																
3								47 bls					3.00			Soft, light yellowish brown (2.5Y/6/4), mottled black, slightly sandy, very clayey SILT with some iron oxide nodules. (ALLUVIUM)
4													3.45 3.50			
5																
6	PW 6.00							41 bls					6.00		V	Extremely weak, purplish red (7.5R/3/4), completely decomposed METATUFF. (Soft, slightly sandy, very clayey SILT)
11/12/2009		1.20m at 18:00											6.50			End of investigation hole at 6.50m.
7																
8																
9																
10																

- Small Disturbed Sample
- Piston sample
- U76 Undisturbed Sample
- U100 Undisturbed Sample
- Mazier Sample
- SPT Liner Sample
- Water Sample
- Piezometer Tip
- Standard Penetration Test
- In-situ Vane Shear Test
- Permeability Test
- Pressuremeter Test
- Televiewer Survey
- Packer Test
- Impression Packer Test
- Standpipe

LOGGED W.P. Yiu  
DATE 14/11/2009  
CHECKED A.B. Hollinshead  
DATE 01/12/2009

**REMARKS**

- An inspection pit was excavated to a depth of 1.50m.
- Environmental samples (each comprising three no. bottles) taken at 0.50m, 1.00m and 1.50m.
- Water sample was taken at 6.50m below existing ground level on 13/11/2009.
- Bottle samples, U100 sample and water sample transported at controlled temperature to WEL Laboratory on day of sampling.



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**DRILLHOLE RECORD**

HOLE No. **KTN-77.78-4**

CONTRACT No.: **GE/2008/04**

SHEET: **1** of **1**

PROJECT: **Agreement No. CE 61/2007 (CE), North East New Territories New Development Areas Planning and Engineering Study - Investigation (for Land Contamination Impact Assessment)**

METHOD: **Rotary Drilling**

CO-ORDINATES:

WORKS ORDER No. **GE/2008/04.29A**

MACHINE & No.: **FDR-09**

E **828013.88**  
N **840942.95**

DATE from: **09/11/2009** to **13/11/2009**

FLUSHING MEDIUM: **Water**

ORIENTATION: **Vertical**

GROUND LEVEL **+ 17.70** mPD

Drilling Progress	Casing depth/size	Water Level (m) Shift start/end	Water Return %	TCR %	SCR %	RQD %	FI	Tests	Samples			Reduced Level	Depth (m)	Legend	Grade	Description
									No.	Type	Depth					
11/01/2009	PW	Dry at 08:00									17.70	0.00				
1									1	INSPECTION PIT	0.50					Soft to firm, greyish brown (10YR/5/2), sandy clayey SILT with some angular fine to coarse gravel of strong granite and concrete. (FILL)
2									2	INSPECTION PIT	0.85	16.70	1.00			Soft to firm, yellowish brown (10YR/5/6), sandy clayey SILT with some angular fine to coarse gravel of strong granite. (FILL)
3									3	INSPECTION PIT	1.50					
4								39 bls	4		3.00	14.70	3.00		V	Extremely weak, light yellowish brown (2.5Y/6/4), dappled red, completely decomposed METATUFF. (Soft, slightly sandy, very clayey SILT)
5									5		3.45 3.50					
6	PW 6.00	Dry at 18:00						22 bls	6		6.00	11.70	6.00		V	Extremely weak, light yellowish brown (2.5Y/6/4), completely decomposed METATUFF. (Soft, slightly sandy, very clayey SILT)
11/11/2009									7		6.45 6.50	11.20	6.50			End of investigation hole at 6.50m.
7																
8																
9																
10																

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>Small Disturbed Sample</li> <li>Piston sample</li> <li>U76 Undisturbed Sample</li> <li>U100 Undisturbed Sample</li> <li>Mazier Sample</li> <li>SPT Liner Sample</li> <li>Water Sample</li> <li>Piezometer Tip</li> </ul> | <ul style="list-style-type: none"> <li>Standard Penetration Test</li> <li>In-situ Vane Shear Test</li> <li>Permeability Test</li> <li>Pressuremeter Test</li> <li>Televiwer Survey</li> <li>Packer Test</li> <li>Impression Packer Test</li> <li>Standpipe</li> </ul> |
|---|---|

LOGGED W.P. Yiu  
DATE 14/11/2009  
CHECKED A.B-Hollinshead  
DATE 01/12/2009

**REMARKS**

1. An inspection pit was excavated to a depth of 1.50m.
2. Environmental samples (each comprising three no. bottles) taken at 0.50m, 1.00m and 1.50m.
3. Water sample was taken at 6.50m below existing ground level on 13/11/2009.
4. Bottle samples, U100 sample and water sample transported at controlled temperature to WEL Laboratory on day of sampling.



**FUGRO  
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**DRILLHOLE RECORD**

HOLE No. **FLN 9a-3**

CONTRACT No.: **GE/2007/13**

SHEET: **1** of **1**

PROJECT: **Agreement No. CE 61/2007 (CE), North East New Territories, New Development Areas, Planning and Engineering Study - Investigation, Land Contamination Impact Assessment**

METHOD: **Rotary Drilling**

CO-ORDINATES:

WORKS ORDER No. **GE/2007/13.39**

MACHINE & No.: **FDR-19**

E **832075.51**  
N **840906.51**

DATE from: **21/09/2009** to **23/09/2009**

FLUSHING MEDIUM: **Water**

ORIENTATION: **Vertical**

GROUND LEVEL **+ 9.35** mPD

Drilling Progress	Casing depth/size	Water Level (m) Shift start/end	Water Return %	TCR %	SCR %	RQD %	FI	Tests	Samples		Reduced Level	Depth (m)	Legend	Grade	Description
									No.	Type					
21/09/2009	PW										9.35	0.00			
1									1	INSPECTION PIT	8.65				Firm, light yellowish brown (2.5Y/6/4), sandy clayey SILT with occasional angular fine to medium gravel of rock. (FILL)
									2		9.65				
									3		1.65				
21/09/2009 22/09/2009															
2															
3								82 bis	4		3.00	0.35	3.00		Firm to stiff, yellowish brown (10YR/5/6), sandy SILT. (ALLUVIUM)
									5		3.45		3.65		
4															
5															
6	PW 6.00							115 bis	6		6.00	3.35	6.00		Light yellowish brown (2.5Y/6/4), silty fine to medium SAND with some subangular fine to medium gravel of moderately strong quartz fragments. (ALLUVIUM)
22/09/2009									8		6.45	2.85	6.50		End of investigation hole at 6.50m.
7															
8															
9															
10															

- Small Disturbed Sample
- Piston sample
- U76 Undisturbed Sample
- U100 Undisturbed Sample
- Mazier Sample
- SPT Liner Sample
- Water Sample
- Piezometer Tip
- Standard Penetration Test
- In-situ Vane Shear Test
- Permeability Test
- Pressuremeter Test
- Televiwer Survey
- Packer Test
- Impression Packer Test
- Standpipe

LOGGED P. Zhang  
DATE 28/09/2009  
CHECKED S.M. Pyle  
DATE 29/09/2009

**REMARKS**

1. An inspection pit was excavated to a depth of 1.50m.
2. Water sample was taken at 6.50m on 23/09/2009.