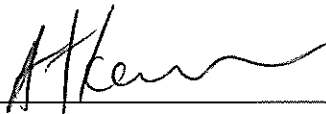


MTR Corporation Limited

HONG KONG SECTION OF GUANGZHOU –
SHENZHEN – HONG KONG EXPRESS RAIL LINK
(No. EP-349/2009/A)

Supplementary Contamination Assessment Report for
Mei Lai Road Works Area

Verified by: 
Position: Independent Environmental Checker
Date: 15 November 2010

MTR Corporation Limited

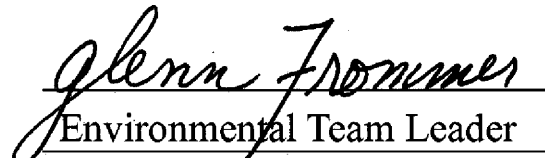
HONG KONG SECTION OF GUANGZHOU –
SHENZHEN – HONG KONG EXPRESS RAIL LINK
(No. EP-349/2009/A)

Supplementary Contamination Assessment Report
for Mei Lai Road Works Area

Certified by:

Position:

Date:


Environmental Team Leader
12 NOV 2010



Dragages – Bouygues Joint Venture

**MTRC Express Rail Link Contract 821
Shek Yum to Mei Lai Road Tunnels**

**Land Contamination Assessment at
Mei Lai Road Works Area**

**Supplementary Contamination Assessment
Report for Mei Lai Road Works Area (Site T)**

November 2010

	Name	Signature
Prepared & Checked:	Catherine Po	
Reviewed & Approved:	David Paton	

Version:	0	Date:	5 November 2010
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Disclaimer

This report is prepared for Dragages – Bouygues Joint Venture and is given for its sole benefit in relation to and pursuant to MTRC Express Rail Link Contract 821 XRL Contract 821 Shek Yum to Mei Lai Road Tunnels and may not be disclosed to, quoted to or relied upon by any person other than Dragages – Bouygues Joint Venture and MTRC without our prior written consent. No person (other than Dragages – Bouygues Joint Venture and MTRC) into whose possession a copy of this report comes may rely on this report without our express written consent and Dragages – Bouygues Joint Venture and MTRC may not rely on it for any purpose other than as described above.

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1 INTRODUCTION

1.1 Background

- 1.1.1 The Hong Kong Section of Guangzhou-Shenzhen-Hong Kong Express Rail Link (XRL) will be a 26-km long underground rail line on a dedicated track that runs from the terminus located in West Kowloon to the boundary at Huanggang. The project is a designated project under Items A.2, A.4, A.7 and Q.1 of Part 1, Schedule 2 of the Environmental Impact Assessment Ordinance (EIAO).
- 1.1.2 In accordance with the EIAO, an Environmental Impact Assessment (EIA) for the Hong Kong Section of XRL was conducted and approved on 28 September 2009 (Register No. AEIAR-143/2009) and an Environmental Permit (EP) No. EP-349/2009 was granted by the Director of Environmental Protection (DEP) on 16 October 2009. The EP (No. EP-349/2009) was then amended under application for Variation of an Environmental Permit No. VEP-323/2010 and has been replaced by Environmental Permit No. EP-349/2009/A on 27 September 2010.
- 1.1.3 During the time of the EIA study, Site T, located at Mei Lai Road Works Area was identified as an area with potential land contamination concerns which require further assessment, however, access to the site was not granted during the course of EIA study. The location of Site T is shown in **Figure XRL821/M57/021**. Pursuant to the new EP Condition 2.21, a revised contamination assessment plan (CAP) with an updated sampling and testing schedule based on current and historical site conditions of Site T; together with supplementary contamination assessment reports (CARs) and if contamination found, a supplementary remediation action plan (RAP) should be submitted to the Environmental Protection Department (EPD) for approval prior to the commencement of construction works at Site T.
- 1.1.4 The revised CAP (rCAP), which details proposed sampling locations and the proposed testing schedule for site investigation within Site T, was approved by Environmental Protection Department (EPD) in July 2010. The approved rCAP proposed a total of 8 locations within Site T for soil and groundwater sampling and testing.
- 1.1.5 Owing to the tight programme schedule, site investigation works for Site T were carried out between 3 and 17 June 2010. The SI works, however, were carried out in accordance with the requirements stipulated in the approved CAP except for changes made to accommodate specific site situation as delineated in **Section 3.1.2**. The site investigation, comprising rotary drilling of boreholes, excavation of trial pits, logging of ground materials, installation of groundwater monitoring wells and reinstatement of excavations was conducted by Vibro (HK) Limited (Vibro). Laboratory analyses were carried out by ALS Technichem (HK) Pty Limited (ALS).
- 1.1.6 AECOM Asia Company Limited (AECOM) was commissioned by MTR's appointed contractor Dragages-Bouygues Joint Venture (DBJV) as the environmental consultant to collate investigation and laboratory derived information for the preparation of this supplementary Contamination Assessment Report (supp. CAR) in accordance with the requirement stipulated in Condition 2.21 of the EP.

1.2 Objectives

- 1.2.1 This supplementary CAR is prepared to summarize findings of SI (including fieldworks and laboratory analyses) and determine the nature and extent of contamination based on the findings of the SI works conducted at Site T (**Section 3**).
- 1.2.2 This supp.CAR is submitted for endorsement by DEP in accordance with Condition 2.21 of the EP.

2 FINDINGS OF PREVIOUS LAND CONTAMINATION ASSESSMENT

2.1.1 According to the approved rCAP/EIA, the potential land contaminative activities identified at Site T are summarized in **Table 2.1**.

Table 2.1 Potential Contaminative Land uses within Site T

Potential Contaminative Area	Potential Contamination Impact
Former oil depot	<ul style="list-style-type: none">Site T was a car park during both site visits undertaken in EIA stage and in April 2010. Minor staining was observed on the paved ground surfacing during site visit in April 2010. Penetration of potential contaminants from the stains on the paved surface to the soil underneath is considered unlikely.However, land contamination concern due to occupancy as an oil depot 30 years ago cannot be eliminated.

2.1.2 To assess the potential contamination concern due to historical occupancy of an oil depot, a total of 8 sampling locations were proposed in grid arrangement. The sampling schedule proposed in the approved rCAP is provided in **Appendix A**.

3 CONTAMINATION ASSESSMENT REPORT

3.1 Assessment Methodology

Soil Boring and Sampling

- 3.1.1 The SI works at Site T was carried out from 3 June to 17 June 2010. A total of 8 boreholes were established within the site.
- 3.1.2 During SI, several minor amendments were made to the generic plan detailed in the rCAP in order to accommodate specific site conditions encountered. Soil boring at T-04 and T-05 were relocated due to underground utilities encountered within the first 1m below ground level. The relocated positions denoted T-04B and T-05A are considered to be representative with reference to the original locations. The locations of the boreholes established are shown in **Figure XRL821/M57/021**.
- 3.1.3 According to the rCAP, soil samples were proposed to be collected at approximately 0.5m, 1.5m, 3m, 4.5m and 6m below base of concrete (BBC) for all boreholes. Where an inspection pit was excavated, disturbed samples were proposed to be collected at 0.5m and 1.5m BBC and undisturbed samples were proposed collected from all other depths. Given the site was asphalt paved, sampling was thus undertaken at below ground surface (bgs) instead of below base of concrete (BBC) at all sampling locations. The impact of the deviation on the assessment is considered minimal as the layer of asphalt encountered was approximately 0.2m only. In addition to the above, deviation from the sampling plan has also resulted from encountered rock head at shallow depth and therefore soil samples were unable to be collected at these planned depths. Deviations from the sample collection and laboratory analyses plan are summarized in **Table 3.1**.

Table 3.1 Deviation of SI Works from Sample Collection and Laboratory Analyses Plan

Borehole	Sampling Depth	Changes Made	Justification
All Borehole	All Sampling Depth	Sampling at below ground level (bgs) rather than below base of concrete	The site is asphalt paved rather than concrete paved. Impact on assessment is minimal as the layer of asphalt encountered was only around 0.2m
T-01	6.0m	No sample collected for testing	Rock head encountered at proposed soil sampling depth
T-08	6.5m	Additional Sample at 6.5m bgs taken	Suspected low recovery for sample collected at 6.0m

- 3.1.4 Before drilling/trial pit construction, the sampling equipment and any equipment in contact with the ground was decontaminated using laboratory-grade detergent and steam-cleaning/high-pressure hot water jetting prior to use at each sampling location.
- 3.1.5 Soil samples were properly labelled and stored in cool boxes at approximately 4°C until delivery to ALS for laboratory analysis. All the collected soil samples in the SI were analyzed in accordance with the analysis schedules detailed in the approved rCAP.

Strata Logging

- 3.1.6 Strata logging for boreholes was undertaken during the course of drilling and sampling by a qualified geologist. The logs included the general stratigraphic descriptions, depth of soil sampling, sample notation and level of groundwater. The presence of rocks/boulders/cobbles and foreign materials such as metals, wood and plastics was also recorded. Soil boring logs are provided in **Appendix B**.

Groundwater Sampling

- 3.1.7 Groundwater was encountered in all boreholes. After completion of soil sampling, groundwater monitoring wells were installed at the 8 boreholes established. Details of groundwater monitoring wells are provided in **Appendix C**. Following installation, well development was carried out to ensure the well screen interval was in hydraulic communication with the monitored zone before being used for water quality sampling or water level measurements. Wells were bailed until the well was thoroughly flushed of standing water and well construction sediments, therefore, containing natural formation water. Adequate development was achieved when bailed water was relatively sediment-free and non-turbid. No evidence of non-aqueous phase liquids (NAPLs) were found during the groundwater development, purging or sampling exercise at all sampling locations.
- 3.1.8 Prior to groundwater sampling, each monitoring well was purged until at least three well volumes of water had been removed or the well purged dry, to ensure fresh, representative groundwater samples were obtained. The water level in each well was allowed to recover to its pre-purged static water level prior to sample collection.
- 3.1.9 Immediately after collection, groundwater samples were transferred to new, clean, laboratory-prepared, "amber glass" type sample containers. Groundwater samples were placed in the glass jars with zero headspace and promptly sealed with a septum-lined cap. All samples were clearly labelled. Immediately following collection, samples were subsequently stored in a cool box at about 4°C and delivered to an analytical laboratory on the same day. All groundwater samples were analyzed in accordance with the analysis schedules detailed in the approved rCAP (**Appendix A**).

3.2 Assessment Criteria

Criteria for Soil and Groundwater Contamination

- 3.2.1 The assessment methodology adopted is in accordance with the *Guidance Note for Contaminated Land Assessment and Remediation* (Guidance Note 1), *Guidance Manual for Use of Risk-Based Remediation Goals for Contaminated Land Management* (Guidance Manual) and *Guidance Notes for Investigation and Remediation of Contaminated Sites of Petrol Filling Stations, Boatyards, and Car Repair/Dismantling Workshops* (Guidance Note 2) issued by the EPD.
- 3.2.2 Interpretation of results has made reference to those Risk-Based Remediation Goals (RBRGs) presented in Table 2.1 and Table 2.2 as stipulated in the Guidance Manual.
- 3.2.3 The RBRGs are developed based on a risk assessment approach to suit the local environmental conditions and community needs in Hong Kong. Decisions on contaminated soil and groundwater remediation are based on the nature and extent of the potential risks that are posed to human receptors as a result of exposure to chemicals in the soil and/or groundwater. RBRGs are developed for four different land use scenarios reflecting the typical physical settings in Hong Kong under which people could be exposed to contaminated soil and groundwater. A description of each land use scenario is as follows:
- **Urban residential** – Sites located in an urban area where main activities involve habitation by individuals. The typical physical setting is a high rise residential building situated in a housing estate that has amenity facilities such as landscaped yards and children's playgrounds. The receptors are residents who stay indoors most of the time except for a short period each day, during which they are outdoors and have the chance of being in direct contact with soil at landscaping or play areas within the estate.
 - **Rural residential** – Sites located in a rural area where the main activities involve habitation by individuals. These sites typically have village-type houses or low rise residential blocks

surrounded by open space. The receptors are rural residents who stay at home and spend some time each day outdoors on activities such as gardening or light sports. The degree of contact with the soil under the rural setting is more than that under the urban setting both in terms of the intensity and frequency of contact.

- **Industrial** – Any site where activities involve manufacturing, chemical or petrochemical processing, storage of raw materials, transport operations, energy production or transmission, etc. Receptors include those at sites where part of the operation is carried out directly on land and the workers are more likely to be exposed to soil than those working in multi-storey factory buildings.
- **Public parks** – Receptors include individuals and families who frequent parks and play areas where there is contact with soil present in lawns, walkways, gardens and play areas. Parks are considered to be predominantly hard covered with limited areas of predominantly landscaped soil. Furthermore, public parks are not considered to have buildings present on them.

3.2.4 In addition to the RBRGs, screening criteria (soil saturation limits, Csat, developed for Non-aqueous Phase Liquid [NAPL] in soil and water solubility limits for NAPL in groundwater) for the more mobile organic chemicals must be considered to determine whether a site requires further action.

3.2.5 As reviewed in the approved rCAP, Site T will be occupied for railway facilities. According to the Guidance Manual, the corresponding RBRG land use for railway related facilities would be “Industrial”. Relevant soil and groundwater RBRGs level for this land contamination assessment including soil saturation limit and solubility limit are presented in **Table 3.2**.

Table 3.2 Relevant RBRGs for Soil and Groundwater – Industrial

Chemical	Soil (mg/kg)		Groundwater (µg/L)	
	RBRGs for Industrial	Soil Saturation Limits	RBRGs for Industrial	Solubility Limits
BTEX				
Benzene	9.21	336	54,000	1,750,000
Ethylbenzene	8,240	138	10,000,000	169,000
Toluene	10,000	235	10,000,000	526,000
Xylenes (Total)	1,230	150	1,570,000	175,000
Metals				
Lead	2,290	NA	NA	NA
Petroleum Carbon Ranges				
C6 - C8	10,000	1000	1,150,000	5,230
C9 - C16	10,000	3000	9,980,000	2,800
C17 - C35	10,000	5000	178,000	2,800

Note: NA - Not Available

3.3 Analytical Results and Interpretation

Field Records

3.3.1 Except for the changes detailed in **Section 3.1**. The SI works were undertaken in accordance with the sampling plan detailed in the approved rCAP. Soil boring logs for the SI works are presented in **Appendix B**. As reported by the land contamination specialist of MTR, no soil samples recovered during the ground investigation works exhibited unnatural colouration or otherwise notable odours that may imply contaminant impact.

Laboratory Analytical Results

Results of Soil Analysis

3.3.2 A total of 42 soil samples (including 2 duplicates) were collected during SI for laboratory analysis. All laboratory analyses were conducted using Hong Kong Laboratory Accreditation Scheme (HOKLAS) testing methods by a HOKLAS accredited laboratory. A summary table of laboratory testing results with laboratory reports and standard forms adopted from Guidance Manual for assessing the soil samples is presented in **Appendix D**.

3.3.3 Among all soil samples collected, no exceedance of relevant industrial RBRG and saturation limit was found. Given no evidence of NAPL was observed during soil boring, remediation within Site T is not considered necessary.

Results of Groundwater Analysis

3.3.4 A total of 9 groundwater samples (including 1 duplicate sample) were collected from the site. Depth to groundwater at each well location is presented in **Table 3.3** with groundwater monitoring well construction details provided in **Appendix C**. A summary table of the laboratory testing results with the laboratory reports and standard forms adopted from Guidance Manual for assessing groundwater samples are provided in **Appendix D**.

Table 3.3 Summary of Groundwater Levels

Sample I.D.	Groundwater Levels		Termination Depth of Groundwater Monitoring Well (m below ground)
	Depth to Groundwater (m below ground)	mPD (m below HK Principal Datum)	
T-01	3.80	+2.70	4.85
T-02	4.11	+2.27	6.50
T-03	3.67	+2.64	6.50
T-04B	4.10	+2.20	6.50
T-05A	3.80	+2.49	6.20
T-06	3.50	+2.74	6.50
T-07	4.50	+1.49	6.24
T-08	4.20	+1.87	7.20

3.3.5 Based on the findings of site investigation and as confirmed by the land contamination specialist of MTR, no evidence of NAPL was observed at any of the sampling locations. According to Figure 3.3 of the Guidance Manual, no cleanup of groundwater is considered necessary at all sampling locations as chemical concentrations of all groundwater samples collected were below RBRG levels and solubility limit and no evidence of NAPL was observed.

Results of QA/QC Analysis

- 3.3.6 QA/QC is the practice of ensuring that sample collection and analytical techniques provide precise and accurate information. This process is undertaken to validate that levels of contamination measured in the environmental samples reflect the actual environmental levels and are not due to accidental contamination of the sample or sample container. Under this contamination assessment, a total of 2 sets of duplicate sample, field blank, equipment blank for soil and 1 set of the above-mentioned QA/QC for groundwater were sampled and analysed in accordance with the approved rCAP.
- 3.3.7 In addition to the above, a total of 10 trip blank samples were included in the sample shipment from Site T to the laboratory. The laboratory results for QA/QC samples are presented in **Appendix D**.
- 3.3.8 Based on the findings of laboratory analysis, the QA/QC procedures for sample collection and preparation are considered to be acceptable as the analytical results for equipment blanks and field blanks recorded concentration below the method detection limits.
- 3.3.9 In order to assess the sampling and laboratory reproducibility and precision, the relative percent difference (RPD) between primary and duplicate parameters was determined. The calculation, as presented in **Appendix D**, shows that RPDs were not calculated for the majority of parameters as the concentrations of either primary or duplicate samples were below the limit of reporting. All calculated RPD values are considered acceptable as they are within the range of 0-50% for soil and 0-30% for groundwater.

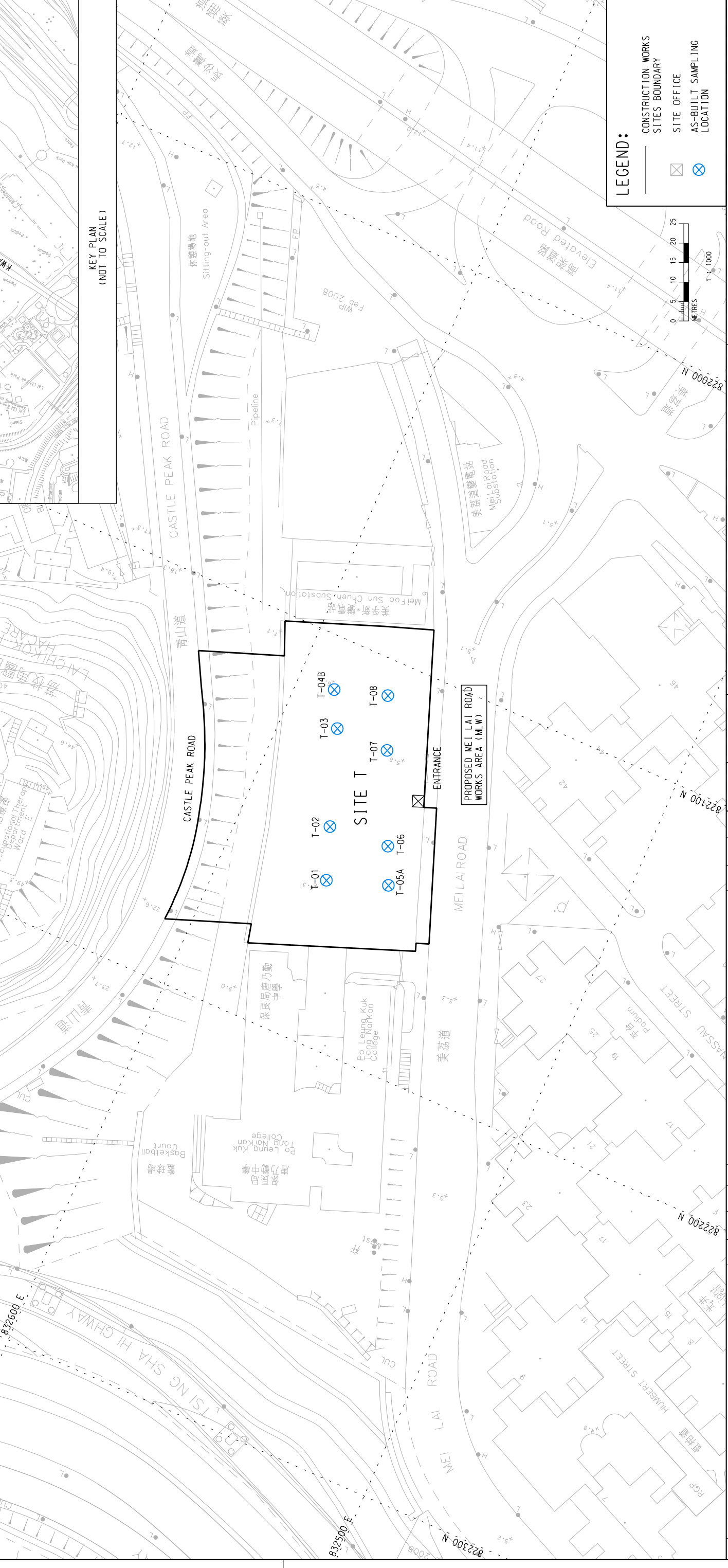
3.4 Conclusions and Recommendations

- 3.4.1 According to the results of site investigation, a total of 42 soil samples (including 2 duplicate samples) and 9 groundwater samples (including 1 duplicate) were collected within Site T. No exceedance of relevant industrial RBRGs and saturation/solubility limit was identified in any soil and groundwater samples collected. Based on the site observation, no evidence of NAPL was observed at any of the sampling locations. Remediation for soil and groundwater is therefore not considered required.

FIGURE

LOCATION	SITE ID	SAMPLING LOCATION	COORDINATES		PARAMETERS TESTED	COMPLIANCE TO INDUSTRIAL RBRG LEVELS
			EASTING	NORTHING		
MLW	T	T-01	832572.44	822158.86	1. BTEX: BENZENE, TOLUENE, ETHYLENE, TOTAL XYLENES 2. LEAD* 3. PETROLEUM HYDROCARBON: C6-C8 FRACTION C9-C16 FRACTION C17-C35 FRACTION	ALL SAMPLE RESULTS COMPLIED
		T-02	832577.15	822145.84		
		T-03	832585.54	822121.99		
		T-04B	832590.30	822113.12		
		T-05A	832557.30	822153.64		
		T-06	832561.48	822144.46		
		T-07	832571.56	822121.98		
		T-08	832577.05	822109.00		

NOTE:
 THE LAYOUT IS NOT TO SCALE
 * LEAD IS TESTED IN THE SOIL SAMPLE ONLY



REV	DESCRIPTION	BY	DATE	APPROVED	REV	DESCRIPTION	BY	DATE	APPROVED

DESIGNED	
CHECKED	
APPROVED	
DATE	13/SEP/2010

ORIGINATOR: EXPRESS RAIL LINK

SCALE: 1 : 1000 (A3)

FIGURE NO: XRL821/M57/021

TITLE: XRL821 LAND CONTAMINATION ASSESSMENT AT MLW SITE LAYOUT AND AS-BUILT SI LOCATIONS

APPENDIX A

**SAMPLING AND TESTING SCHEDULE PROPOSED IN THE
APPROVED rCAP**

3.3 No site representative was available for interview during the site visit however based on observation, Site T is currently used as a car park. In general the ground was asphalt paved and small areas of oil staining were observed during the site visit. No significant difference in the layout of Site T was found between recent observation and findings of the approved EIA. Given that there have been no official records of dangerous goods licensing; no records of chemical spillage/leakage based on the approved CAP of XRL EIA (Appendix F and G of approved CAP referred); and the oil stains observed on the paved surface were small, penetration of potential contaminants from the stains on the paved surface to the soil underneath is considered unlikely. Land contamination impact due to current site operation is therefore not expected. However, as Site T was occupied by an oil depot 30 years ago, the potential for land contamination cannot be eliminated and a site investigation is still proposed within Site T.

4. SAMPLING AND TESTING PLAN FOR SITE INVESTIGATION

4.1 Based on the findings of further site inspection and information acquired from the approved CAP, a total of 8 sampling locations are proposed within Site T to assess the potential land contamination concern associated with the historical operation of the site. Given no hotspots are identified during the latest site inspection, sampling locations are proposed in a grid arrangement as recommended in the approved CAP and with reference to the Guidance Note 2. The proposed sampling locations are illustrated in **Figure C8016/C/XRL/ENS/M57/002**. The selection of potential chemicals of concern (COCs) for laboratory analysis at each proposed sampling location has made reference to the nature of historical land use of the site, the Guidance Note 1 and 2, Guidance Manual and the approved CAP. The sampling and testing plan, together with rationales for selecting the sampling locations, are summarized in **Table 4.1**.

4.2 The exact sampling locations of the site investigation (SI) shall be determined on site and will be subject to fine adjustment due to site specific conditions (e.g. locations, presence of foundations, underground utilities, delivery pipes and services).

Table 4.1 Sampling and Testing Plan for Site T

Proposed Sampling Location	Sampling Method	Sample Matrix ^{2,3,5}		Parameters to be Tested ⁴			Rationale
				Petroleum Carbon Ranges	BTEX	Heavy Metals	
T01-T08	Borehole to 6m	Soil	0.5m BBC	X	X	Pb	To assess potential land contamination impacts which may have resulted from historic land use as an oil depot 30 years ago
		Soil	1.5m BBC	X	X	Pb	
		Soil	3.0m BBC	X	X	Pb	
		Soil	4.5m BBC	X	X	Pb	
		Soil	6.0m BBC	X	X	Pb	
		GW	If present [^]	X	X	-	

Remarks:

1. Locations are shown in **Figure C8016/C/XRL/ENS/M57/002**.

2. BBC= below base of concrete slab; GW=groundwater

3. Exact sampling depth shall be determined on site and subject to fine adjustment due to site specific conditions (e.g. hard rocks or groundwater encountered (if any)).

4. X = testing proposed

5. The number of samples may subject to change

[^] Samples will only be collected if groundwater is encountered during SI works.

Soil Sampling Method and Depth of Sampling

4.3 All soil boring / excavation and sampling should be supervised by a land contamination specialist.

4.4 The drilling of boreholes should be undertaken by means of dry rotary drilling method, i.e. without the use of flushing medium, to prevent cross-contamination during sampling. For safety reasons, an inspection pit should be excavated down to 2.0m below ground to inspect for underground utilities at the proposed borehole location. The site appraisal in the approved CAP identified historical operation of Site T as an oil depot which required further investigation. Soil boring is proposed undertaken down to a depth of approximately 6m below base of concrete (BBC) in order to

APPENDIX B

SITE BORING LOG



VIBRO (H.K.) LIMITED
SITE INVESTIGATION DEPARTMENT
DRILLHOLE RECORD

DRILLHOLE No.
T-01

SHEET 1 OF 1

PROJECT	Site Investigation of Ground Contamination for Mei Lai Shaft Works Area, Mei Lai Road		CONTRACT No.	807	
METHOD	Rotary	CO-ORDINATES	E 832572.44	WORKS ORDER No.	N/A
MACHINE & No.	VBM51		N 822158.86	DATE	09/06/2010 to 11/06/2010
FLUSHING MEDIUM	NIL	GROUND LEVEL	+ 6.50 mPD	ORIENTATION	Vertical

Drilling Progress	Casing Depth/Size	Water Depth (m)	Water Returns %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	F.I. Depths	Test Depths	Tests	Samples		Reduced Level (mPD)	Depth (m)	Legend	Grade	Description		
											No.	Type Depth							
09/06/2010	PW												+6.25	0.25			Asphalt surface.		
09/06/2010 11/06/2010														0.50				Soft, dark brown, sandy clayey SILT with some angular to subangular fine to coarse gravel sized moderately decomposed rock fragments and concrete fragments. (FILL)	
										22 bls				1.00	+5.50	1.00			Brownish grey, fine to coarse SAND with some angular fine to medium gravel sized highly decomposed and moderately decomposed rock fragments. (FILL)
														1.50	+5.00	1.50			Brown, locally reddish brown, locally clayey / silty fine to coarse SAND with some angular to subangular fine to medium gravel sized highly decomposed and moderately decomposed rock fragments. (FILL)
										13 bls				1.95					
														2.00					
	PW 4.50									200 bls				4.50	+2.00	4.50		V	
11/06/2010									4.85					4.82	+1.63	4.87			Extremely weak, pinkish brown, mottled dark brown and dark grey, completely decomposed medium grained GRANITE. (Fine to coarse SAND with some angular fine to medium gravel)
																			End of Investigation Hole at 4.87m.

- Disturbed sample
- Piston sample
- ▨ Split spoon sample
- ▨ U76 undisturbed sample
- ▨ U100 undisturbed sample
- ▨ Mazier sample
- SPT liner sample
- ▲ Water sample
- En Environmental Sample
- ▼ Standard penetration test
- ⊥ In-situ vane shear test
- ⊥ Permeability test
- ⊥ Pressuremeter test
- ⊥ Packer Test
- ⊥ Acoustic or optical televiwer survey
- ▲ Piezometer tip
- Standpipe
- Observation well
- ⊥ Vibrating wire piezometer
- ⊥ Impression packer test

LOGGED	T. C. Yip
DATE	17/06/2010
CHECKED	E. Leung
DATE	18/06/2010

REMARKS

- An inspection pit was excavated to 1.50m.
- A groundwater sampling well was installed to 4.85m.
- Environmental soil samples were collected at 0.50m, 1.50m, 3.00m, 4.50m.
- An environmental water sample was collected at 4.85m.



VIBRO (H.K.) LIMITED
SITE INVESTIGATION DEPARTMENT

DRILLHOLE No.
T-02

DRILLHOLE RECORD

SHEET 1 OF 1

PROJECT	Site Investigation of Ground Contamination for Mei Lai Shaft Works Area, Mei Lai Road			CONTRACT No.	807
METHOD	Rotary	CO-ORDINATES	E 832577.15	WORKS ORDER No.	N/A
MACHINE & No.	VBM51		N 822145.84	DATE	12/06/2010 to 12/06/2010
FLUSHING MEDIUM	NIL	GROUND LEVEL	+ 6.38 mPD	ORIENTATION	Vertical

Drilling Progress	Casing Depth/Size	Water Depth (m)	Water Returns %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	F.I. Depths	Test Depths	Tests	Samples		Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
											No.	Type Depth					
12/06/2010	PW												+6.38	0.00			Asphalt surface.
1 2 3 4 5				100					24 bls	A	INSPECTION PIT		+6.18	0.20	[Cross-hatched pattern]	V	Brown and dark brown, locally silty fine to coarse SAND with some angular to subangular fine to coarse gravel sized highly decomposed and moderately decomposed rock fragments, and occasional asphalt fragments. (FILL)
											B						
											C		+4.88	1.50			
											1						
											2						
											3						
6	PW 6.00	4.00m at 18:00	100					57 bls	5						[Cross-hatched pattern]	V	Brown and dark brown, locally clayey / silty fine to coarse SAND with some angular to subangular fine to medium gravel sized highly decomposed and moderately decomposed rock fragments. (FILL)
										6							
										5							
										6							
										7							
										8							
12/06/2010							6.50	174 bls	7			+0.38	6.00	[Dotted pattern]	V	Extremely weak, brown, mottled white and dark brown, completely decomposed medium grained GRANITE. (Silty fine to coarse SAND with some angular fine to medium gravel) End of Investigation Hole at 6.50m.	
								8			-0.12	6.50					
7																	
8																	
9																	
10																	

LOGGED	T. C. Yip
DATE	17/06/2010
CHECKED	E. Leung
DATE	18/06/2010

REMARKS

1. An inspection pit was excavated to 1.50m.
2. A groundwater sampling well was installed to 6.50m.
3. Environmental soil samples were collected at 0.50m, 1.50m, 3.00m, 4.50m and 6.00m.
4. An environmental water sample was collected at 6.50m.



VIBRO (H.K.) LIMITED
SITE INVESTIGATION DEPARTMENT

DRILLHOLE No.
T-03

DRILLHOLE RECORD

SHEET 1 OF 1

PROJECT	Site Investigation of Ground Contamination for Mei Lai Shaft Works Area, Mei Lai Road			CONTRACT No.	807
METHOD	Rotary	CO-ORDINATES	E 832585.54	WORKS ORDER No.	N/A
MACHINE & No.	VBM51		N 822121.99	DATE	14/06/2010 to 14/06/2010
FLUSHING MEDIUM	NIL	GROUND LEVEL	+ 6.31 mPD	ORIENTATION	Vertical

Drilling Progress	Casing Depth/Size	Water Depth (m)	Water Returns %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	F.I. Depths	Test Depths	Tests	Samples		Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
											No.	Type					
14/06/2010	PW												+6.31	0.00			Asphalt surface.
													+6.06	0.25			Greyish brown and dark brown, fine to coarse SAND with some angular to subangular fine to medium gravel sized moderately decomposed rock fragments. (FILL)
				98						16 bls			+4.81	1.50			Grey, locally reddish brown, locally clayey very silty fine to coarse SAND with some angular to subangular fine to medium gravel sized highly decomposed and moderately decomposed rock fragments. (FILL)
				100						15 bls							
				91						34 bls			+1.81	4.50			Brown, mottled dark brown, angular COBBLE (MDG) with some angular fine to coarse gravel sized moderately decomposed rock fragments. (ALLUVIUM)
													+1.36	4.95		IV	Brown, mottled dark brown, highly decomposed medium grained GRANITE. (Recovered as angular COBBLE with some angular fine to coarse gravel)
	PW 6.00																
		4.20m at 18:00		87						33 bls			+0.31	6.00		V	Extremely weak, brown, mottled grey, completely decomposed medium grained GRANITE. (Fine to coarse SAND with some angular fine to medium gravel)
14/06/2010									6.50				-0.19	6.50			End of Investigation Hole at 6.50m.

LOGGED	T. C. Yip
DATE	17/06/2010
CHECKED	E. Leung
DATE	18/06/2010

REMARKS

- An inspection pit was excavated to 1.50m.
- A groundwater sampling well was installed to 6.50m.
- Environmental soil samples were collected at 0.50m, 1.50m, 3.00m, 4.50m and 6.00m.
- An environmental water sample was collected at 6.50m.



VIBRO (H.K.) LIMITED
SITE INVESTIGATION DEPARTMENT
DRILLHOLE RECORD

DRILLHOLE No.
T-04B

SHEET 1 OF 1

PROJECT	Site Investigation of Ground Contamination for Mei Lai Shaft Works Area, Mei Lai Road			CONTRACT No.	807
METHOD	Rotary	CO-ORDINATES	E 832590.30	WORKS ORDER No.	N/A
MACHINE & No.	VBM53		N 822113.12	DATE	15/06/2010 to 17/06/2010
FLUSHING MEDIUM	Water	GROUND LEVEL	+ 6.30 mPD	ORIENTATION	Vertical

Drilling Progress	Casing Depth/Size	Water Depth (m)	Water Returns %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	F.I. Depths	Test Depths	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
15/06/2010 15/06/2010 17/06/2010	PW											+6.30	0.00			Asphalt surface.
												+6.10	0.20			Greyish brown, silty fine to coarse SAND with some angular to subangular fine to medium gravel sized moderately decomposed rock fragments and occasional asphalt fragments. (FILL)
				100						24 bls		+4.80	1.50			Brown and reddish brown, locally clayey / silty fine to coarse SAND with some angular to subangular fine to medium gravel sized highly decomposed and moderately decomposed rock fragments. (FILL)
				100						21 bls		+2.85	3.45			Dark brown and brown, slightly silty fine to coarse SAND with some angular to subangular fine to medium gravel sized highly decomposed and moderately decomposed rock fragments. (FILL)
				100						57 bls						
	PW 6.00			0						174 bls		+0.30	6.00		II	Strong to very strong, pinkish grey, mottled white and dark grey, slightly decomposed medium grained GRANITE. Joints are widely spaced, locally closely and medium spaced, rough stepped, very narrow to extremely narrow, iron and manganese stained, dipping 20° to 30° and 40° to 50°. From 6.00m to 6.27m : Strong, pinkish grey, dappled dark brown with closely to medium spaced joints. End of Investigation Hole at 6.85m.
17/06/2010				100	93	93	13.6 6.22	1.6	6.50							

<ul style="list-style-type: none"> ● Disturbed sample ■ Piston sample ▨ Split spoon sample ▨ U76 undisturbed sample ▨ U100 undisturbed sample ▨ Mazier sample □ SPT liner sample ▲ Water sample En Environmental Sample 	<ul style="list-style-type: none"> ▼ Standard penetration test ⊥ In-situ vane shear test ⊥ Permeability test ⊥ Pressuremeter test ⊥ Packer Test ⊥ Acoustic or optical televiwer survey ▲ Piezometer tip □ Standpipe □ Observation well ⊥ Vibrating wire piezometer ⊥ Impression packer test 	<table border="1"> <tr> <td>LOGGED</td> <td>T. C. Yip</td> </tr> <tr> <td>DATE</td> <td>19/06/2010</td> </tr> <tr> <td>CHECKED</td> <td>E. Leung</td> </tr> <tr> <td>DATE</td> <td>19/06/2010</td> </tr> </table>	LOGGED	T. C. Yip	DATE	19/06/2010	CHECKED	E. Leung	DATE	19/06/2010	<p>REMARKS</p> <ol style="list-style-type: none"> An inspection pit was excavated to 1.50m. Water flush is used only for drilling in rock. A groundwater sampling well was installed to 6.50m. Environmental soil samples were collected at 0.50m, 1.50m, 3.00m, 4.50m and 5.95m. A duplicate environmental soil sample was collected at 0.50m. Two environmental water samples were collected at 6.50m.
LOGGED	T. C. Yip										
DATE	19/06/2010										
CHECKED	E. Leung										
DATE	19/06/2010										



VIBRO (H.K.) LIMITED
SITE INVESTIGATION DEPARTMENT

DRILLHOLE No.
T-05A

DRILLHOLE RECORD

SHEET 1 OF 1

PROJECT	Site Investigation of Ground Contamination for Mei Lai Shaft Works Area, Mei Lai Road			CONTRACT No.	807
METHOD	Rotary	CO-ORDINATES	E 832557.30	WORKS ORDER No.	N/A
MACHINE & No.	VBM51		N 822153.64	DATE	09/06/2010 to 10/06/2010
FLUSHING MEDIUM	NIL	GROUND LEVEL	+ 6.29 mPD	ORIENTATION	Vertical

Drilling Progress	Casing Depth/Size	Water Depth (m)	Water Returns %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	F.I. Depths	Test Depths	Tests	Samples		Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
											No.	Type					
09/06/2010	PW												+6.29	0.00			Asphalt surface.
09/06/2010 10/06/2010				100						12 bls	A B C D	+4.79	0.50	0.25	[Cross-hatch pattern]		Dark brown, slightly silty fine to coarse SAND with some angular to subangular fine to coarse gravel sized highly decomposed rock fragments, occasional asphalt and concrete fragments. (FILL)
													1.50				
				100						14 bls	1 2	+3.29	1.95 2.00	3.00	[Cross-hatch pattern]		Soft to firm, brown, mottled white and dark brown, sandy clayey SILT with some angular fine to medium gravel sized highly decomposed rock fragments. (FILL)
													3.00				
				100						21 bls	3 4	+0.59	3.45 3.50	5.70	[Cross-hatch pattern]		Brown, mottled dark brown and white, silty fine to coarse SAND with some angular to subangular fine to coarse gravel sized highly decomposed rock fragments. (FILL)
													4.50 4.95 5.00				
10/06/2010	PW 5.70 HW 6.00			83				6.20		200 bls	T2 O1	+0.29	5.70	6.00	[Cross-hatch pattern]	V	Dark brown, mottled brown, sandy angular medium to coarse GRAVEL sized moderately decomposed rock fragments and occasional angular cobble (MDG). (FILL)
													6.00 6.16 6.20 6.21				
				0								+0.08	6.21				Extremely weak, dark brown, mottled brown, completely decomposed medium grained GRANITE. (Fine to coarse SAND with some angular fine to medium gravel) End of Investigation Hole at 6.21m.

LOGGED	T. C. Yip	REMARKS 1. An inspection pit was excavated to 1.50m. 2. A groundwater sampling well was installed to 6.20m. 3. Environmental soil samples were collected at 0.50m, 1.50m, 3.00m, 4.50m and 6.00m. 4. A duplicate environmental soil sample was collected at 0.50m. 5. An environmental water samples were collected at 6.20m.
DATE	11/06/2010	
CHECKED	E. Leung	
DATE	15/06/2010	



VIBRO (H.K.) LIMITED
SITE INVESTIGATION DEPARTMENT

DRILLHOLE No.
T-06

DRILLHOLE RECORD

SHEET 1 OF 1

PROJECT	Site Investigation of Ground Contamination for Mei Lai Shaft Works Area, Mei Lai Road			CONTRACT No.	807
METHOD	Rotary	CO-ORDINATES	E 832561.48	WORKS ORDER No.	N/A
MACHINE & No.	VBM51		N 822144.46	DATE	08/06/2010 to 08/06/2010
FLUSHING MEDIUM	NIL	GROUND LEVEL	+ 6.24 mPD	ORIENTATION	Vertical

Drilling Progress	Casing Depth/Size	Water Depth (m)	Water Returns %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	F.I. Depths	Test Depths	Tests	Samples			Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
											No.	Type	Depth					
08/06/2010	PW												+6.24	0.00			Asphalt surface.	
													+5.99	0.25			Dark grey and greyish brown, silty fine to coarse SAND with some angular to subangular fine to medium gravel sized highly decomposed rock fragments and occasional asphalt fragments. (FILL)	
													+5.24	1.00			Dark reddish brown, silty fine to coarse SAND with some angular to subangular fine to coarse gravel sized highly decomposed and moderately decomposed rock fragments. (FILL)	
				100						30 bls			+4.74	1.50			Brown, mottled white, silty fine to coarse SAND with some angular fine gravel sized highly decomposed rock fragments. (FILL)	
				100						13 bls							From 3.00m to 3.45m : Firm, sandy clayey SILT with some angular fine gravel.	
				100						15 bls								
	PW 6.00			100						121 bls			+0.24	6.00			Extremely weak, brown, mottled white and dark grey, completely decomposed medium grained GRANITE with manganese stained relict joints. (Fine to coarse SAND with some angular fine to coarse gravel)	
08/06/2010		3.80m at 18:00						6.50					-0.26	6.50			End of Investigation Hole at 6.50m.	

	LOGGED	T. C. Yip	REMARKS 1. An inspection pit was excavated to 1.50m. 2. A groundwater sampling well was installed to 6.50m. 3. Environmental soil samples were collected at 0.50m, 1.50m, 3.00m, 4.50m and 6.00m. 4. An environmental water sample was collected at 6.50m.
	DATE	11/06/2010	
	CHECKED	E. Leung	
	DATE	15/06/2010	



VIBRO (H.K.) LIMITED
SITE INVESTIGATION DEPARTMENT

DRILLHOLE No.
T-07

DRILLHOLE RECORD

SHEET 1 OF 1

PROJECT	Site Investigation of Ground Contamination for Mei Lai Shaft Works Area, Mei Lai Road			CONTRACT No.	807
METHOD	Rotary	CO-ORDINATES	E 832571.56	WORKS ORDER No.	N/A
MACHINE & No.	VBM51		N 822121.98	DATE	03/06/2010 to 05/06/2010
FLUSHING MEDIUM	NIL	GROUND LEVEL	+ 5.99 mPD	ORIENTATION	Vertical

Drilling Progress	Casing Depth/Size	Water Depth (m)	Water Returns %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	F.I. Depths	Test Depths	Tests	Samples		Reduced Level (mPD)	Depth (m)	Legend	Grade	Description		
											No.	Type Depth							
03/06/2010	PW												+5.99	0.00			Asphalt surface.		
03/06/2010 05/06/2010										21 bls	A	0.50	+5.74	0.25	[Cross-hatched pattern]		Dark brown and greyish brown, fine to coarse SAND with some angular to subangular fine to medium gravel sized highly decomposed and moderately decomposed rock fragments. (FILL)		
											B	1.00	+4.99	1.00			Reddish brown, silty fine to coarse SAND with some angular to subangular fine to coarse gravel sized highly decomposed rock fragments, some subangular cobbles (Concrete) and brick fragments. (FILL)		
											C	1.50	+4.49	1.50			Brown, mottled white, very silty fine to coarse SAND with some angular to subangular fine to coarse gravel sized highly decomposed rock fragments. (FILL)		
											1	1.95							
											2	2.00							
											22 bls	3	3.00						
												4	3.45						
											40 bls	5	4.50	+1.49			4.50		
												6	4.95						Brownish grey and brown, slightly silty fine to coarse SAND with some angular to subangular fine to medium gravel sized highly decomposed and moderately decomposed rock fragments. (FILL)
											200 bls	7	6.00						
8	6.19																		
05/06/2010	PW 6.00	Dry at 12:00						6.20			8	6.00	-0.25	6.24			End of Investigation Hole at 6.24m.		

LOGGED	T. C. Yip
DATE	11/06/2010
CHECKED	E. Leung
DATE	15/06/2010

REMARKS

- An inspection pit was excavated to 1.50m.
- A groundwater sampling well was installed to 6.24m.
- Environmental soil samples were collected at 0.50m, 1.50m, 3.00m, 4.50m and 6.00m.
- An environmental water sample was collected at 6.24m.



VIBRO (H.K.) LIMITED
SITE INVESTIGATION DEPARTMENT

DRILLHOLE No.
T-08

DRILLHOLE RECORD

SHEET 1 OF 1

PROJECT	Site Investigation of Ground Contamination for Mei Lai Shaft Works Area, Mei Lai Road			CONTRACT No.	807
METHOD	Rotary	CO-ORDINATES	E 832577.05	WORKS ORDER No.	N/A
MACHINE & No.	VBM51		N 822109.00	DATE	03/06/2010 to 03/06/2010
FLUSHING MEDIUM	NIL	GROUND LEVEL	+ 6.07 mPD	ORIENTATION	Vertical

Drilling Progress	Casing Depth/Size	Water Depth (m)	Water Returns %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	F.I. Depths	Test Depths	Tests	Samples		Reduced Level (mPD)	Depth (m)	Legend	Grade	Description		
											No.	Type							
03/06/2010	PW	Dry at 08:00											+6.07	0.00			Asphalt surface.		
1 2 3 4 5 6 7	PW 6.00	2.80m at 18:00								15 bls	A	0.50	+5.82	0.25			Dark brown and greyish brown, slightly silty fine to coarse SAND with some angular to subangular fine to coarse gravel sized highly decomposed and moderately decomposed rock fragments and occasional asphalt fragments. (FILL)		
											B	1.00						INSPECTION PIT	
											C	1.50	+4.57	1.50					
											1	1.95							
											2	2.00							
											10 bls	3	3.00						
												4	3.45						
											12 bls	5	4.50	+1.57					4.50
												6	4.95						
											5.00								
											35 bls	7	6.00						
8	6.45																		
37 bls	9	6.50	-0.43	6.50															
	10	6.95																	
7.00																			
03/06/2010													-1.13	7.20			End of Investigation Hole at 7.20m.		

LOGGED	T. C. Yip	REMARKS 1. An inspection pit was excavated to 1.50m. 2. A groundwater sampling well was installed to 7.20m. 3. Environmental soil samples were collected at 0.50m, 1.50m, 3.00m, 4.50m, 6.00m and 6.50m. 4. An environmental water sample was collected at 7.20m. 5. The groundwater sampling well was backfilled upon collection of environmental water sample.
DATE	11/06/2010	
CHECKED	E. Leung	
DATE	15/06/2010	

APPENDIX C

GROUNDWATER MONITORING WELL DIAGRAM

Groundwater Monitoring Well Diagram

Project : MTRC Express Rail Link Contract 821 Shek Yam to Mei Lai Road
 Land Contamination Assessment at Mei Lai Road

Boring Log No. : T-01

Ground Level: +6.50 mPD

SI Location : Mei Lai Road

Date : 09/06/2010 to 11/06/2010

Driller : VIBRO (HK) Limited

Drilling Process	Soil Sample I.D.	Depth Below Ground Surface (m bgs)	Sample Method	Description of Material	Well Diagram										
09-06-2010				Ground Surface (Asphalt)											
09-06-2010		0.5	Hand Dig	Soft, Dark brown, sandy clayey SILT with some angular to subangular fine to coarse gravel sized moderately decomposed rock fragments and concrete fragments. (FILL)											
11-06-2010		1.0	Hand Dig												
		1.5	Hand Dig	Brownish grey, fine to coarse SAND with some angular fine to medium gravel sized highly decomposed and moderately decomposed rock fragments. (FILL)											
		2.0	Rotary Drilling												
		2.5	Rotary Drilling												
		3.0	Rotary Drilling	Brown, locally reddish brown, locally clayey / silty fine to coarse SAND with some angular to subangular fine to medium gravel sized highly decomposed and moderately decomposed rock fragments. (FILL)											
		3.5	Rotary Drilling												
		4.0	Rotary Drilling												
		4.5	Rotary Drilling												
11-06-2010				Extreme weak, pinkish brown, mottled dark brown and dark grey, completely decomposed medium grained GRANITE (Fine to coarse SAND with some angular fine to medium gravel)	<table border="1"> <tr> <td>Screen Length</td> <td>3.35 m</td> </tr> <tr> <td>Inside Diameter (ID)</td> <td>0.05 m</td> </tr> <tr> <td>Type of Material</td> <td>uPVC</td> </tr> <tr> <td>Standing Water Level</td> <td>3.8 m bgs</td> </tr> <tr> <td>Water first noticed</td> <td>1.85 m bgs</td> </tr> </table>	Screen Length	3.35 m	Inside Diameter (ID)	0.05 m	Type of Material	uPVC	Standing Water Level	3.8 m bgs	Water first noticed	1.85 m bgs
Screen Length	3.35 m														
Inside Diameter (ID)	0.05 m														
Type of Material	uPVC														
Standing Water Level	3.8 m bgs														
Water first noticed	1.85 m bgs														
				End of soil bore = 4.87 m bgs											
Remarks :				<p>Boring Details</p> <p>Soil bore Diameter : <u>0.115 m</u> Total Depth : <u>4.87 m bgs</u> Dry Auger: <u>0.0 to 4.87 m bgs</u> Wet Auger: - Water First Noticed: <u>1.85 m bgs</u></p>	<p>Well Installation Details</p> <p>Well Diameter: <u>0.05 m</u> Total Depth: <u>4.85 m bgs</u> Screen: <u>1.5 to 4.85 m bgs</u> Sand Pack: <u>1.5 to 4.85 m bgs</u> Bentonite Seal: <u>0.0 to 1.5 m bgs</u> Grout: - Ground Completion : <u>Flush</u></p>										

Groundwater Monitoring Well Diagram

Project : MTRC Express Rail Link Contract 821 Shek Yam to Mei Lai Road
Land Contamination Assessment at Mei Lai Road

Boring Log No. : T-02

Ground Level: +6.38 mPD

SI Location : Mei Lai Road

Date : 12/06/2010 to 12/06/2010

Driller : VIBRO (HK) Limited

Drilling Process	Soil Sample I.D.	Depth Below Ground Surface (m bgs)	Sample Method	Description of Material	Well Diagram										
12-06-2010		0.5	Hand Dig	Ground Surface (Asphalt)	Flush-Mounted Cover Top of Bentonite <u>0.0 m bgs</u> Top of Sand <u>2.0 m bgs</u>										
		1.0		Brown and dark brown, locally silty fine to coarse SAND with some angular to subangular fine to coarse gravel sized highly decomposed and moderately decomposed rock fragments, and occasional asphalt fragments. (FILL.)											
		1.5	Rotary Drilling	Brown and dark brown, locally clayey / silty fine to coarse SAND with some angular to subangular fine to medium gravel sized highly decomposed and moderately decomposed rock fragments. (FILL.)	<table border="1"> <tr> <td>Screen Length</td> <td><u>4.50 m</u></td> </tr> <tr> <td>Inside Diameter (ID)</td> <td><u>0.05 m</u></td> </tr> <tr> <td>Type of Material</td> <td><u>uPVC</u></td> </tr> <tr> <td>Standing Water Level</td> <td><u>4.11 m bgs</u></td> </tr> <tr> <td>Water first noticed</td> <td><u>3.50 m bgs</u></td> </tr> </table>	Screen Length	<u>4.50 m</u>	Inside Diameter (ID)	<u>0.05 m</u>	Type of Material	<u>uPVC</u>	Standing Water Level	<u>4.11 m bgs</u>	Water first noticed	<u>3.50 m bgs</u>
Screen Length	<u>4.50 m</u>														
Inside Diameter (ID)	<u>0.05 m</u>														
Type of Material	<u>uPVC</u>														
Standing Water Level	<u>4.11 m bgs</u>														
Water first noticed	<u>3.50 m bgs</u>														
		2.0													
		2.5													
		3.0													
		3.5													
		4.0													
		4.5													
		5.0													
		5.5													
		6.0		Extremely weak, brown, mottled white and dark brown, completely decomposed medium grained GRANITE. (Silty fine to coarse SAND with some angular fine to medium gravel)											
12/06/2010				End of soil bore = 6.50 m bgs	End Cap <u>6.50 m bgs</u>										
Remarks :				Boring Details Soil bore Diameter : <u>0.115 m</u> Total Depth : <u>6.50 m bgs</u> Dry Auger: <u>0.0 to 6.50 m bgs</u> Wet Auger: - Water First Noticed: <u>3.5 m bgs</u>	Well Installation Details Well Diameter: <u>0.05 m</u> Total Depth: <u>6.50 m bgs</u> Screen: <u>2.00 to 6.50 m bgs</u> Sand Pack: <u>2.00 to 6.50 m bgs</u> Bentonite Seal: <u>0.00 to 2.00 m bgs</u> Grout: - Ground Completion : Flush										

Groundwater Monitoring Well Diagram

Project : MTRC Express Rail Link Contract 821 Shek Yam to Mei Lai Road
Land Contamination Assessment at Mei Lai Road

Boring Log No. : T-03

Ground Level: +6.31 mPD

SI Location : Mei Lai Road

Date : 14/06/2010 to 14/06/2010

Driller : VIBRO (HK) Limited

Drilling Process	Soil Sample I.D.	Depth Below Ground Surface (m bgs)	Sample Method	Description of Material	Well Diagram
14-06-2010		0.5	Hand Dig	Ground Surface (Asphalt)	<p>Flush-Mounted Cover Top of Bentonite <u>0.0 m bgs</u> Top of Sand <u>2.0 m bgs</u></p> <p>Screen Length <u>4.50 m</u> Inside Diameter (ID) <u>0.05 m</u> Type of Material <u>uPVC</u></p> <p>Standing Water Level <u>3.67 m bgs</u> Water first noticed <u>3.5 m bgs</u></p> <p>End Cap <u>6.50 m bgs</u></p>
		1.0	Hand Dig	Greyish brown and dark brown, fine to coarse SAND with some angular to subangular fine to medium gravel sized moderately decomposed rock fragments. (FILL)	
		1.5	Hand Dig		
		2.0	Rotary Drilling	Grey, locally reddish brown, locally clayey very silty fine to coarse SAND with some angular to subangular fine to medium gravel sized highly decomposed and moderately decomposed rock fragments. (FILL)	
		2.5	Rotary Drilling		
		3.0	Rotary Drilling		
		3.5	Rotary Drilling		
		4.0	Rotary Drilling		
		4.5	Rotary Drilling		
		5.0	Rotary Drilling	Brown, mottled dark brown, angular COBBLE (MDG) with some angular fine to coarse gravel sized moderately decomposed rock fragments. (ALLUVIUM)	
		5.5	Rotary Drilling	Brown, mottled dark brown, highly decomposed medium grained GRANITE. (Recovered as angular COBBLE with some angular fine to coarse gravel)	
		6.0	Rotary Drilling	Extremely weak, brown, mottled grey, completely decomposed medium grained GRANITE. (Fine to coarse SAND with some angular fine to medium gravel)	
14/06/2010		6.5	Rotary Drilling	End of soil bore = 6.50 m bgs	
Remarks :				Boring Details Soil bore Diameter : <u>0.115 m</u> Total Depth : <u>6.50 m bgs</u> Dry Auger: <u>0.0 to 6.50 m bgs</u> Wet Auger: - Water First Noticed: <u>3.5 m bgs</u>	Well Installation Details Well Diameter: <u>0.05 m</u> Total Depth: <u>6.50 m bgs</u> Screen: <u>2.00 to 6.50 m bgs</u> Sand Pack: <u>2.00 to 6.50 m bgs</u> Bentonite Seal: <u>0.00 to 2.00 m bgs</u> Grout: - Ground Completion : Flush

Groundwater Monitoring Well Diagram

Project : MTRC Express Rail Link Contract 821 Shek Yam to Mei Lai Road
Land Contamination Assessment at Mei Lai Road

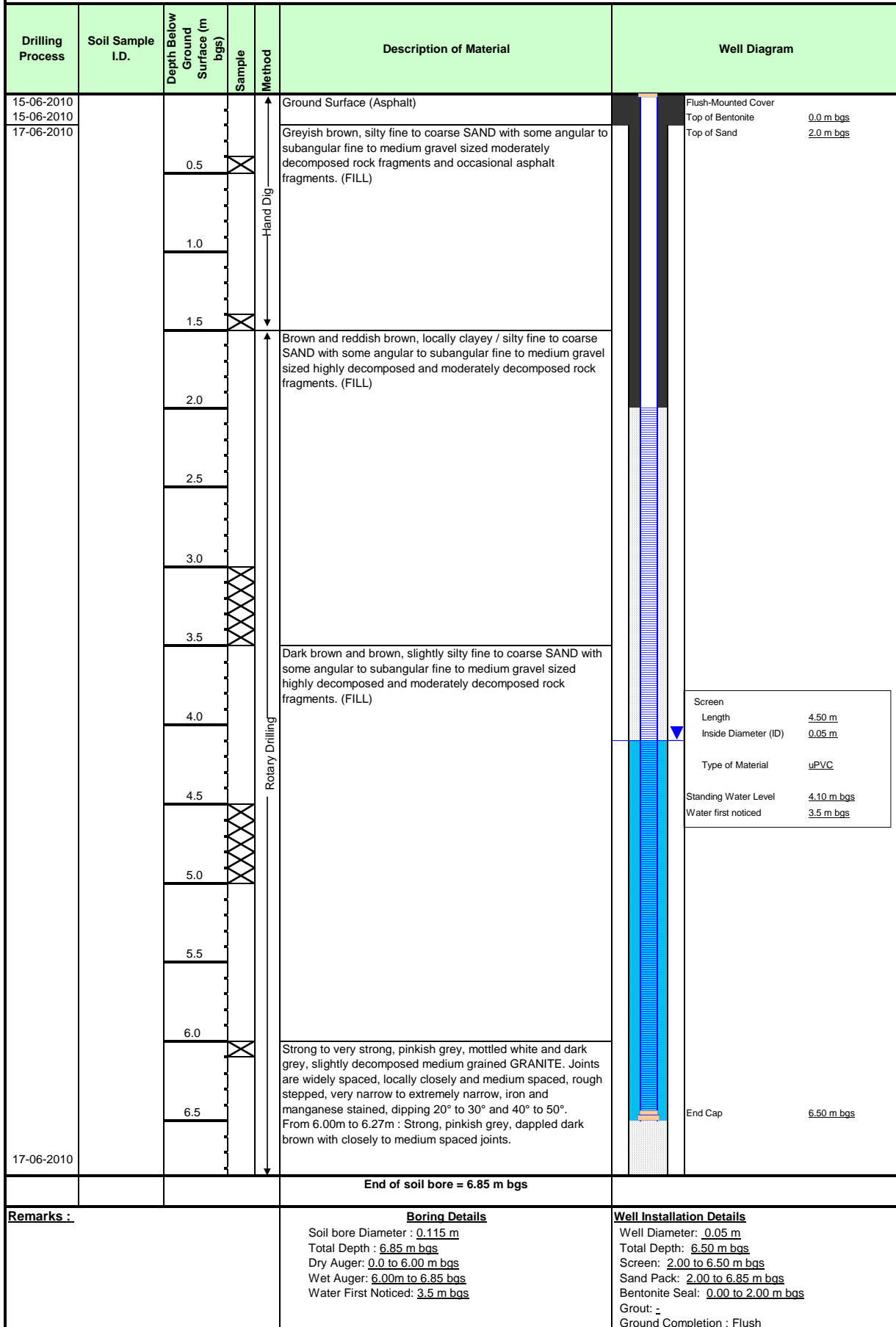
Boring Log No. : T-04B

Ground Level: +6.30 mPD

SI Location : Mei Lai Road

Date : 15/06/2010 to 17/06/2010

Driller : VIBRO (HK) Limited



Groundwater Monitoring Well Diagram

Project : MTRC Express Rail Link Contract 821 Shek Yam to Mei Lai Road
 Land Contamination Assessment at Mei Lai Road

Boring Log No. : T-05A

Ground Level: +6.29 mPD

SI Location : Mei Lai Road

Date : 09/06/2010 to 10/06/2010

Driller : VIBRO (HK) Limited

Drilling Process	Soil Sample I.D.	Depth Below Ground Surface (m bgs)	Sample	Method	Description of Material	Well Diagram
09-06-2010		0.5	X	Hand Dig	Ground Surface (Asphalt)	Flush-Mounted Cover Top of Bentonite <u>0.0 m bgs</u> Top of Sand <u>1.7 m bgs</u>
		1.0			Dark brown, slightly silty fine to coarse SAND with some angular to subangular fine to coarse gravel sized highly decomposed rock fragments, occasional asphalt and concrete fragments. (FILL)	
09-06-2010		1.5	X	Rotary Drilling	Soft to firm, brown, mottled white and dark brown, sandy clayey SILT with some angular fine to medium gravel sized highly decomposed rock fragments. (FILL)	Screen Length <u>4.50 m</u> Inside Diameter (ID) <u>0.05 m</u> Type of Material <u>uPVC</u> Standing Water Level <u>3.80 m bgs</u> Water first noticed <u>3.20m bgs</u>
10-06-2010		2.0				
		2.5				
		3.0				
		3.5	X		Brown, mottled dark brown and white, silty fine to coarse SAND with some angular to subangular fine to coarse gravel sized highly decomposed rock fragments. (FILL)	
		4.0				
		4.5				
		5.0	X			
		5.5				
		6.0	X		Dark brown, mottled brown, sandy angular medium to coarse GRAVEL sized moderately decomposed rock fragments and occasional angular cobble (MDG) (FILL)	
10-06-2010					Extremely weak, dark brown, mottled brown, completely decomposed medium grained GRANITE. (Fine to coarse SAND with some angular fine to medium gravel)	End Cap <u>6.20 m bgs</u>
End of soil bore = 6.21 m bgs						
Remarks :					Boring Details Soil bore Diameter : <u>0.115 m</u> Total Depth : <u>6.21 m bgs</u> Dry Auger : <u>0.0 to 6.21 m bgs</u> Wet Auger : - Water First Noticed: <u>3.20 m bgs</u>	Well Installation Details Well Diameter: <u>0.05 m</u> Total Depth: <u>6.20 m bgs</u> Screen: <u>1.70 to 6.20 m bgs</u> Sand Pack: <u>1.70 to 6.20 m bgs</u> Bentonite Seal: <u>0.00 to 1.70 m bgs</u> Grout: - Ground Completion : <u>Flush</u>

Groundwater Monitoring Well Diagram

Project : MTRC Express Rail Link Contract 821 Shek Yam to Mei Lai Road
Land Contamination Assessment at Mei Lai Road

Boring Log No. : T-06

Ground Level: +6.24 mPD

SI Location : Mei Lai Road

Date : 08/06/2010 to 08/06/2010

Driller : VIBRO (HK) Limited

Drilling Process	Soil Sample I.D.	Depth Below Ground Surface (m bgs)	Sample Method	Description of Material	Well Diagram
08-06-2010				Ground Surface (Asphalt)	Flush-Mounted Cover
					Top of Bentonite <u>0.0 m bgs</u>
					Top of Sand <u>2.0 m bgs</u>
		0.5	Hand Dig	Dark grey and greyish brown, silty fine to coarse SAND with some angular to subangular fine to medium gravel sized highly decomposed rock fragments and occasional asphalt fragments. (FILL)	
		1.0			
		1.5	Hand Dig	Dark reddish brown, silty fine to coarse SAND with some angular to subangular fine to coarse gravel sized highly decomposed and moderately decomposed rock fragments. (FILL)	
		2.0			
		2.5			
		3.0		Brown, mottled white, silty fine to coarse SAND with some angular fine gravel sized highly decomposed rock fragments. (FILL)	
		3.5		From 3.00m to 3.45m : Firm, sandy clayey SILT with some angular fine gravel.	
		4.0	Rotary Drilling		
		4.5			
		5.0			
		5.5			
		6.0			
		6.5		Extremely weak, brown, mottled white and dark grey, completely decomposed medium grained GRANITE with manganese stained relict joints. (Fine to coarse SAND with some angular fine to coarse gravel)	End Cap <u>6.50 m bgs</u>
08-06-2010				End of soil bore = 6.50 m bgs	
Remarks :				Boring Details Soil bore Diameter : <u>0.115 m</u> Total Depth : <u>6.50 m bgs</u> Dry Auger: <u>0.0 to 6.50 m bgs</u> Wet Auger: - Water First Noticed: <u>3.50 m bgs</u>	Well Installation Details Well Diameter: <u>0.05 m</u> Total Depth: <u>6.50 m bgs</u> Screen: <u>2.00 to 6.50 m bgs</u> Sand Pack: <u>2.00 to 6.50 m bgs</u> Bentonite Seal: <u>0.00 to 2.00 m bgs</u> Grout: - Ground Completion : Flush

Groundwater Monitoring Well Diagram

Project : MTRC Express Rail Link Contract 821 Shek Yam to Mei Lai Road
Land Contamination Assessment at Mei Lai Road

Boring Log No. : T-07

Ground Level: +5.99 mPD

SI Location : Mei Lai Road

Date : 03/06/2010 to 05/06/2010

Driller : VIBRO (HK) Limited

Drilling Process	Soil Sample I.D.	Depth Below Ground Surface (m bgs)	Sample Method	Description of Material	Well Diagram
03-06-2010		0.5	Hand Dig	Ground Surface (Asphalt)	Flush-Mounted Cover
		1.0	Hand Dig	Dark brown and greyish brown, fine to coarse SAND with some angular to subangular fine to medium gravel sized highly decomposed and moderately decomposed rock fragments. (FILL)	Top of Bentonite <u>0.0 m bgs</u> Top of Sand <u>1.7 m bgs</u>
03-06-2010 05-06-2010		1.5	Hand Dig	Reddish brown, silty fine to coarse SAND with some angular to subangular fine to coarse gravel sized highly decomposed rock fragments, some subangular cobbles (Concrete) and brick fragments. (FILL)	
		2.0	Rotary Drilling	Brown, mottled white, very silty fine to coarse SAND with some angular to subangular fine to coarse gravel sized highly decomposed rock fragments. (FILL)	
		2.5	Rotary Drilling		
		3.0	Rotary Drilling		
		3.5	Rotary Drilling		
		4.0	Rotary Drilling		
		4.5	Rotary Drilling		Screen Length <u>4.54 m</u> Inside Diameter (ID) <u>0.05 m</u> Type of Material <u>uPVC</u>
		5.0	Rotary Drilling	Brownish grey and brown, slightly silty fine to coarse SAND with some angular to subangular fine to medium gravel sized highly decomposed and moderately decomposed rock fragments. (FILL)	Standing Water Level <u>4.50 m bgs</u> Water first noticed <u>3.20 m bgs</u>
		5.5	Rotary Drilling		
		6.0	Rotary Drilling		
05-06-2010				End of soil bore = 6.24 m bgs	End Cap <u>6.24 m bgs</u>
Remarks :				Boring Details Soil bore Diameter : <u>0.115 m</u> Total Depth : <u>6.24 m bgs</u> Dry Auger: <u>0.0 to 6.24 m bgs</u> Wet Auger: - Water First Noticed: <u>3.2m bgs</u>	Well Installation Details Well Diameter: <u>0.05 m</u> Total Depth: <u>6.24 m bgs</u> Screen: <u>1.7 to 6.24 m bgs</u> Sand Pack: <u>1.7 to 6.24 m bgs</u> Bentonite Seal: <u>0.0 to 1.7 m bgs</u> Grout: - Ground Completion : <u>Flush</u>

Groundwater Monitoring Well Diagram

Project : MTRC Express Rail Link Contract 821 Shek Yam to Mei Lai Road
Land Contamination Assessment at Mei Lai Road

Boring Log No. : T-08

Ground Level: +6.07 mPD

SI Location : Mei Lai Road

Date : 03/06/2010 to 03/06/2010

Driller : VIBRO (HK) Limited

Drilling Process	Soil Sample I.D.	Depth Below Ground Surface (m bgs)	Sample Method	Description of Material	Well Diagram
03-06-2010		0.5	Hand Dig	Ground Surface (Asphalt)	Flush-Mounted Cover Top of Bentonite <u>0.0 m bgs</u> Top of Sand <u>2.6 m bgs</u>
		1.0		Dark brown and greyish brown, slightly silty fine to coarse SAND with some angular to subangular fine to coarse gravel sized highly decomposed and moderately decomposed rock fragments and occasional asphalt fragments. (FILL)	
		1.5			
		2.0		Brown, silty fine to coarse SAND with some angular to subangular fine to medium gravel sized highly decomposed and moderately decomposed rock fragments. (FILL)	
		2.5			
		3.0		From 3.00m to 3.45m : With pockets of clayey silt.	
		3.5			
		4.0			
		4.5			
		5.0		Rotary Drilling	
		5.5	Brown, fine to coarse SAND with occasional subangular fine gravel sized highly decomposed and moderately decomposed rock fragments. (FILL)	Screen Length <u>4.60 m</u> Inside Diameter (ID) <u>0.05 m</u> Type of Material <u>uPVC</u> Standing Water Level <u>4.20 m bgs</u> Water first noticed <u>4.20 m bgs</u>	
		6.0			
		6.5	Brown, silty fine to coarse SAND with some subangular to subrounded fine to medium gravel. sized highly decomposed and moderately decomposed rock fragments. (FILL)		
		7.0			
		7.20			
03-06-2010				End of soil bore = 7.20 m bgs	End Cap <u>7.20 m bgs</u>
Remarks :				Boring Details Soil bore Diameter : <u>0.115 m</u> Total Depth : <u>7.20 m bgs</u> Dry Auger : <u>0.0 to 7.20 m bgs</u> Wet Auger : - Water First Noticed : <u>4.20 m bgs</u>	Well Installation Details Well Diameter: <u>0.05 m</u> Total Depth: <u>7.20 m bgs</u> Screen: <u>2.60 to 7.20 m bgs</u> Sand Pack: <u>2.60 to 7.20 m bgs</u> Bentonite Seal: <u>0.0 to 2.60 m bgs</u> Grout: - Ground Completion : <u>Flush</u>

APPENDIX D

**LABORATORY RESULTS AND STANDARD FORMS 3.2 and
3.4 – SOIL DATA SUMMARY AND COMPARISON TO RBRGS
AND C_{SAT}**

Soil Testing Result Table

Parameters			BTEX					Metals	Petroleum Carbon Ranges			
			Benzene	Ethylbenzene	Toluene	meta- & para-Xylene	ortho-Xylene	Xylenes (Total)	Lead	C6 - C8 Fraction	C9 - C16 Fraction	C17 - C35 Fraction
Unit			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
LOR			0.2	0.5	0.5	1.0	0.5	1.5	1	5	200	500
RBRGs of Industrial			9.21	8240	10000*	--	--	1230	2290	10000*	10000*	10000*
Saturation Limit			336	138	235	--	--	150	--	1000	3000	5000
Sample Location	Sampling Depth (m bgs)	Date of Sampling										
T01	0.50	09-Jun-10	<0.2	<0.5	<0.5	<1.0	<0.5	<1.5	38	<5	<200	<500
T01	1.50	11-Jun-10	<0.2	<0.5	<0.5	<1.0	<0.5	<1.5	196	<5	<200	<500
T01	3.00	11-Jun-10	<0.2	<0.5	<0.5	<1.0	<0.5	<1.5	95	<5	330	4340
T01	4.50	11-Jun-10	<0.2	<0.5	<0.5	<1.0	<0.5	<1.5	86	<5	<200	<500
T02	0.50	12-Jun-10	<0.2	<0.5	<0.5	<1.0	<0.5	<1.5	126	<5	<200	<500
T02	1.50	12-Jun-10	<0.2	<0.5	<0.5	<1.0	<0.5	<1.5	172	<5	<200	<500
T02	3.00	12-Jun-10	<0.2	<0.5	<0.5	<1.0	<0.5	<1.5	138	<5	<200	<500
T02	4.50	12-Jun-10	<0.2	<0.5	<0.5	<1.0	<0.5	<1.5	165	<5	<200	<500
T02	6.00	12-Jun-10	<0.2	<0.5	<0.5	<1.0	<0.5	<1.5	20	<5	<200	<500
T03	0.50	14-Jun-10	<0.2	<0.5	<0.5	<1.0	<0.5	<1.5	69	<5	<200	<500
T03	1.50	14-Jun-10	<0.2	<0.5	<0.5	<1.0	<0.5	<1.5	108	<5	<200	<500
T03	3.00	14-Jun-10	<0.2	<0.5	<0.5	<1.0	<0.5	<1.5	125	<5	<200	<500
T03	4.50	14-Jun-10	<0.2	<0.5	<0.5	<1.0	<0.5	<1.5	109	<5	<200	<500
T03	6.00	14-Jun-10	<0.2	<0.5	<0.5	<1.0	<0.5	<1.5	31	<5	<200	<500
T04B	0.50	17-Jun-10	<0.2	<0.5	<0.5	<1.0	<0.5	<1.5	187	<5	<200	<500
T04B	0.50 (Duplicate)	17-Jun-10	<0.2	<0.5	<0.5	<1.0	<0.5	<1.5	204	<5	<200	<500
T04B	1.50	17-Jun-10	<0.2	<0.5	<0.5	<1.0	<0.5	<1.5	133	<5	<200	<500
T04B	3.00	17-Jun-10	<0.2	<0.5	<0.5	<1.0	<0.5	<1.5	65	<5	<200	<500
T04B	4.50	17-Jun-10	<0.2	<0.5	<0.5	<1.0	<0.5	<1.5	53	<5	<200	<500
T04B	6.00	17-Jun-10	<0.2	<0.5	<0.5	<1.0	<0.5	<1.5	15	<5	<200	<500
T05A	0.50	09-Jun-10	<0.2	<0.5	<0.5	<1.0	<0.5	<1.5	25	<5	<200	<500
T05A	0.50 (Duplicate)	09-Jun-10	<0.2	<0.5	<0.5	<1.0	<0.5	<1.5	33	<5	<200	<500
T05A	1.50	10-Jun-10	<0.2	<0.5	<0.5	<1.0	<0.5	<1.5	50	<5	<200	<500
T05A	3.00	10-Jun-10	<0.2	<0.5	<0.5	<1.0	<0.5	<1.5	80	<5	<200	<500
T05A	4.50	10-Jun-10	<0.2	<0.5	<0.5	<1.0	<0.5	<1.5	18	<5	<200	<500
T05A	6.00	10-Jun-10	<0.2	<0.5	<0.5	<1.0	<0.5	<1.5	82	<5	<200	<500
T06	0.50	08-Jun-10	<0.2	<0.5	<0.5	<1.0	<0.5	<1.5	112	<5	<200	<500
T06	1.50	08-Jun-10	<0.2	<0.5	<0.5	<1.0	<0.5	<1.5	225	<5	<200	<500
T06	3.00	08-Jun-10	<0.2	<0.5	<0.5	<1.0	<0.5	<1.5	50	<5	<200	<500
T06	4.50	08-Jun-10	<0.2	<0.5	<0.5	<1.0	<0.5	<1.5	56	<5	<200	<500
T06	6.00	08-Jun-10	<0.2	<0.5	<0.5	<1.0	<0.5	<1.5	58	<5	<200	<500
T07	0.50	03-Jun-10	<0.2	<0.5	<0.5	<1.0	<0.5	<1.5	18	<5	<200	<500
T07	1.50	05-Jun-10	<0.2	<0.5	<0.5	<1.0	<0.5	<1.5	412	<5	<200	<500
T07	3.00	05-Jun-10	<0.2	<0.5	<0.5	<1.0	<0.5	<1.5	121	<5	<200	<500
T07	4.50	05-Jun-10	<0.2	<0.5	<0.5	<1.0	<0.5	<1.5	93	<5	<200	<500
T07	6.00	05-Jun-10	<0.2	<0.5	<0.5	<1.0	<0.5	<1.5	63	<5	<200	<500
T08	0.50	03-Jun-10	<0.2	<0.5	<0.5	<1.0	<0.5	<1.5	76	<5	<200	<500
T08	1.50	03-Jun-10	<0.2	<0.5	<0.5	<1.0	<0.5	<1.5	113	<5	<200	<500
T08	3.00	03-Jun-10	<0.2	<0.5	<0.5	<1.0	<0.5	<1.5	111	<5	<200	<500
T08	4.50	03-Jun-10	<0.2	<0.5	<0.5	<1.0	<0.5	<1.5	193	<5	<200	<500
T08	6.00	03-Jun-10	<0.2	<0.5	<0.5	<1.0	<0.5	<1.5	91	<5	<200	<500
T08	6.50	03-Jun-10	<0.2	<0.5	<0.5	<1.0	<0.5	<1.5	49	<5	<200	<500

Note:

bgs= meter below ground surface

LOR= Level of Reporting

Underlined result indicates exceedance in saturation limit

Square hatched in black indicates exceedance in RBRG

Full analytical results should be referred to laboratory report

Groundwater Testing Result Table

Parameters		BTEX						Petroleum Carbon Ranges		
		Benzene	Ethylbenzene	Toluene	meta- & para-Xylene	ortho-Xylene	Xylenes (Total)	C6 - C8 Fraction	C9 - C16 Fraction	C17 - C35 Fraction
Unit		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
LOR		5	5	5	10	5	15	20	500	500
RBRGs of Industrial		54000	10000000*	10000000*	--	--	1570000	1150000	9980000	178000
Saturation Limit		1750000	169000	526000	--	--	175000	5230	2800	2800
Sample Location	Date of Sampling									
T01	12-Jun-10	<5	<5	<5	<10	<5	<15	<20	<500	<500
T02	14-Jun-10	<5	<5	<5	<10	<5	<15	<20	<500	<500
T03	19-Jun-10	<5	<5	<5	<10	<5	<15	<20	<500	<500
T04B	19-Jun-10	<5	<5	<5	<10	<5	<15	<20	<500	<500
T04B (duplicate)	19-Jun-10	<5	<5	<5	<10	<5	<15	<20	<500	<500
T05A	12-Jun-10	<5	<5	<5	<10	<5	<15	<20	<500	<500
T06	11-Jun-10	<5	<5	<5	<10	<5	<15	<20	<500	<500
T07	08-Jun-10	<5	<5	<5	<10	<5	<15	30	<500	<500
T08	05-Jun-10	<5	<5	<5	<10	<5	<15	<20	<500	<500

Note:

LOR= Level of Reporting

Underlined result indicates exceedance in saturation limit

Square hatched in black indicates exceedance in RBRG

Full analytical results should be referred to laboratory report

QA/QC Testing Result Table

Parameters			BTEX						Metals	Petroleum Carbon Ranges		
			Benzene	Ethylbenzene	Toluene	meta- & para-Xylene	ortho-Xylene	Xylenes (Total)	Lead	C6 - C8 Fraction	C9 - C16 Fraction	C17 - C35 Fraction
Unit			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
LOR			5	5	5	10	5	15	1	20	500	500
Sample Location	Sampling Depth (m bgs)	Date of Sampling										
For Soil Samples												
Equipment Blank		08-Jun-10	<5	<5	<5	<10	<5	<15	<1	<20	<500	<500
Field Blank		08-Jun-10	<5	<5	<5	<10	<5	<15	<1	<20	<500	<500
Equipment Blank		17-Jun-10	<5	<5	<5	<10	<5	<15	<1	<20	<500	<500
Field Blank		17-Jun-10	<5	<5	<5	<10	<5	<15	<1	<20	<500	<500
For Groundwater Sample												
Equipment Blank		19-Jun-10	<5	<5	<5	<10	<5	<15		<20	<500	<500
Field Blank		19-Jun-10	<5	<5	<5	<10	<5	<15		<20	<500	<500
Every Trip to Laboratory												
Trip Blank		03-Jun-10	<5	<5	<5	<10	<5	<15		<20		
Trip Blank		05-Jun-10	<5	<5	<5	<10	<5	<15		<20		
Trip Blank		08-Jun-10	<5	<5	<5	<10	<5	<15		<20		
Trip Blank		09-Jun-10	<5	<5	<5	<10	<5	<15		<20		
Trip Blank		10-Jun-10	<5	<5	<5	<10	<5	<15		<20		
Trip Blank		11-Jun-10	<5	<5	<5	<10	<5	<15		<20		
Trip Blank		12-Jun-10	<5	<5	<5	<10	<5	<15		<20		
Trip Blank		14-Jun-10	<5	<5	<5	<10	<5	<15		<20		
Trip Blank		17-Jun-10	<5	<5	<5	<10	<5	<15		<20		
Trip Blank		19-Jun-10	<5	<5	<5	<10	<5	<15		<20		

Note:

BBC= Below Base of Existing Concrete

LOR= Level of Reporting

Full analytical results should be referred to laboratory report

Relative Percentage Difference

Parameters			BTEX						Metals	Petroleum Carbon Ranges		
			Benzene	Ethylbenzene	Toluene	meta- & para-Xylene	ortho-Xylene	Xylenes (Total)	Lead	C6 - C8 Fraction	C9 - C16 Fraction	C17 - C35 Fraction
Sample Location	Sampling Depth (m bgs)	Date of Sampling										
For Soil Samples												
Unit			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
LOR for Soil (mg/kg)			0.2	0.5	0.5	1.0	0.5	1.5	1	5	200	500
T04B	0.5	17-Jun-2010	<0.2	<0.5	<0.5	<1.0	<0.5	<1.5	187	<5	<200	<500
T04B	0.50 (Duplicate)	17-Jun-2010	<0.2	<0.5	<0.5	<1.0	<0.5	<1.5	204	<5	<200	<500
RPD = (Primary-Duplicate)/Mean of Results*100%			NC	NC	NC	NC	NC	NC	8.7%	NC	NC	NC
T05A	0.5	9-Jun-2010	<0.2	<0.5	<0.5	<1.0	<0.5	<1.5	25	<5	<200	<500
T05A	0.50 (Duplicate)	9-Jun-2010	<0.2	<0.5	<0.5	<1.0	<0.5	<1.5	33	<5	<200	<500
RPD = (Primary-Duplicate)/Mean of Results*100%			NC	NC	NC	NC	NC	NC	27.6%	NC	NC	NC
For Groundwater Samples												
Unit			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	NA	µg/L	µg/L	µg/L
LOR for Groundwater (µg/L)			5	5	5	10	5	15	NA	20	500	500
T04B	NA	19-Jun-2010	<5	<5	<5	<10	<5	<15		<20	<500	<500
T04B (duplicate)	NA	19-Jun-2010	<5	<5	<5	<10	<5	<15		<20	<500	<500
RPD = (Primary-Duplicate)/Mean of Results*100%			NC	NC	NC	NC	NC	NC		NC	NC	NC

Note:

bgs= meter below ground surface

NC= Not calculated, at least one result was ND

LOR= Level of Reporting

BOLD indicates detection

Standard Form 3.2 – Soil Data Summary and Comparison to RBRGs and Csat

Chemical	Frequency of detection (x/y)	Range of Detected Concentration (mg/kg)	Range of Method Reporting Limit	Analytical Method	Relevant Land Use Categories	Lowest RBRG(s) (mg/kg)	Csat (mg/kg)	Maximum Detected Concentration Exceeds (check if applicable)	
								RBRG	Csat
BTEX									
Benzene	0/42	ND	0.2	USEPA 8260B	RBRGs of Industrial	9.21	336	NA	NA
Ethylbenzene	0/42	ND	0.5			8240	138	NA	NA
Toluene	0/42	ND	0.5			10000*	235	NA	NA
Xylenes (Total)	0/42	ND	1.5			1230	150	NA	NA
Metals									
Lead	42/42	15-412	1	USEPA 6020	RBRGs of Industrial	2290	NA	No	NA
Petroleum Carbon Ranges									
C6 - C8 Fraction	0/42	ND	5	USEPA 8260B/8015C	RBRGs of Industrial	10000*	1000	NA	NA
C9 - C16 Fraction	1/42	330	200			10000*	3000	No	No
C17 - C35 Fraction	1/42	4340	500			10000*	5000	No	No

Note:

*** indicates that the Csat value exceeds the 'ceiling limit' therefore the RBRG applies

NIL= Maximum concentration detected is below respective RBRG or solubility limit

ND = The concentrations of the chemical are lower than the detection limit

NA= Not Applicable

Duplicate Samples are included in the summary.

Standard Form 3.3 –Groundwater Data Summary and Comparison to RBRGs and Solubility Limit

Chemical	Frequency of detection (x/y)	Range of Detected Concentration (µg/L)	Range of Method Reporting Limit	Analytical Method	Relevant Land Use Categories	Lowest RBRG(s) (µg/L)	Csat (µg/L)	Maximum Detected Concentration Exceeds (check if applicable)	
								RBRG	Csat
BTEX									
Benzene	0/9	ND	5	USEPA 8260B	RBRGs of Industrial	54000	1750000	NA	NA
Ethylbenzene	0/9	ND	5			10000000*	169000	NA	NA
Toluene	0/9	ND	5			10000000*	526000	NA	NA
Xylenes (Total)	0/9	ND	15			1570000	175000	NA	NA
Petroleum Carbon Ranges									
C6 - C8 Fraction	1/9	30	20	USEPA 8260B/8015C	RBRGs of Industrial	1150000	5230	No	No
C9 - C16 Fraction	0/9	ND	500			9980000	2800	NA	NA
C17 - C35 Fraction	0/9	ND	500			178000	2800	NA	NA

Note:

*** indicates that the Csat value exceeds the 'ceiling limit' therefore the RBRG applies

NIL= Maximum concentration detected is below respective RBRG or solubility limit

ND = The concentrations of the chemical are lower than the detection limit

NA= Not Applicable

Duplicate Samples are included in the summary.

Standard Form 3.4 – Soil Sample Concentrations and Exceedances of RBRGs and Csat

Chemical	List Samples		Concentration (mg/kg)	Check if RBRG Exceeded	Check if Csat Exceeded	Approximate Size of Affected Area* (m ²)
	Sample Number	Sample Depth (m, bgl)				
BTEX						
Benzene	NA	NA	ND	NA	NA	NA
Ethylbenzene	NA	NA	ND	NA	NA	NA
Toluene	NA	NA	ND	NA	NA	NA
Xylenes(Total)	NA	NA	ND	NA	NA	NA
Metals						
Lead	T01	0.50	38	NIL	NA	NA
	T01	1.50	196	NIL	NA	NA
	T01	3.00	95	NIL	NA	NA
	T01	4.50	86	NIL	NA	NA
	T02	0.50	126	NIL	NA	NA
	T02	1.50	172	NIL	NA	NA
	T02	3.00	138	NIL	NA	NA
	T02	4.50	165	NIL	NA	NA
	T02	6.00	20	NIL	NA	NA
	T03	0.50	69	NIL	NA	NA
	T03	1.50	108	NIL	NA	NA
	T03	3.00	125	NIL	NA	NA
	T03	4.50	109	NIL	NA	NA
	T03	6.00	31	NIL	NA	NA
	T04B	0.50	187	NIL	NA	NA
	T04B	0.50 (Duplicate)	204	NIL	NA	NA
	T04B	1.50	133	NIL	NA	NA
	T04B	3.00	65	NIL	NA	NA
	T04B	4.50	53	NIL	NA	NA
	T04B	6.00	15	NIL	NA	NA
	T05A	0.50	25	NIL	NA	NA
	T05A	0.50 (Duplicate)	33	NIL	NA	NA
	T05A	1.50	50	NIL	NA	NA
	T05A	3.00	80	NIL	NA	NA
	T05A	4.50	18	NIL	NA	NA
	T05A	6.00	82	NIL	NA	NA
	T06	0.50	112	NIL	NA	NA
	T06	1.50	225	NIL	NA	NA
	T06	3.00	50	NIL	NA	NA
	T06	4.50	56	NIL	NA	NA
	T06	6.00	58	NIL	NA	NA
	T07	0.50	18	NIL	NA	NA
	T07	1.50	412	NIL	NA	NA
	T07	3.00	121	NIL	NA	NA
	T07	4.50	93	NIL	NA	NA
	T07	6.00	63	NIL	NA	NA
	T08	0.50	76	NIL	NA	NA
	T08	1.50	113	NIL	NA	NA
	T08	3.00	111	NIL	NA	NA
	T08	4.50	193	NIL	NA	NA
T08	6.00	91	NIL	NA	NA	
T08	6.50	49	NIL	NA	NA	
Petroleum Carbon Ranges						
C6 - C8 Fraction	NA	NA	ND	NA	NA	NA
C9 - C16 Fraction	T01	3.00	330	NIL	NIL	NA
C17 - C35 Fraction	T01	3.00	4340	NIL	NIL	NA

Note:
 NA= Not Applicable
 bgs= meter below ground surface
 NIL= Concentration detected is below respective RBRG or solubility limit

Standard Form 3.5 – Groundwater Sample Concentrations and Exceedances of RBRGs and Csat

Chemical	List Samples		Concentration (µg/L)	Check if RBRG Exceeded	Check if Csat Exceeded	Approximate Size of Affected Area (m ²)
	Sample Number	Sample Depth (m, bgl)				
BTEX						
Benzene	NA	NA	ND	NA	NA	NA
Ethylbenzene	NA	NA	ND	NA	NA	NA
Toluene	NA	NA	ND	NA	NA	NA
Xylenes(Total)	NA	NA	ND	NA	NA	NA
Petroleum Carbon Ranges						
C6 - C8 Fraction	T07	NA	30	NIL	NIL	NA
C9 - C16 Fraction	NA	NA	ND	NA	NA	NA
C17 - C35 Fraction	NA	NA	ND	NA	NA	NA

Note:

NA= Not Applicable

bgs= meter below ground surface

NIL= Concentration detected is below respective RBRG or solubility limit

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

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Telephone : 2335 2554
Facsimile : ----
Project : J200942E MTR C8016 - ENVIRONMENTAL
TERM CONSULTANCY FOR XRL
Order number : ----
C-O-C number : H009667
Site : MEI LAI ROAD

Laboratory : ALS Technichem HK Pty Ltd
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Quote number : HK/582a/2010
Page : 1 of 7
Work Order : HK1012597
Date Samples Received : 09-JUN-2010
Issue Date : 24-JUN-2010
No. of samples received : 2
No. of samples analysed : 2

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Signatories

pp Anh Ngoc Huynh
pp Fung Lim Chee, Richard

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Senior Chemist
General Manager

Authorised results for

Organics
Inorganics

ALS Laboratory Group
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Page Number : 2 of 7
Client : VIBRO (HK) LTD
Work Order : HK1012597

General Comments

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for processing purposes. If the sampling time is displayed as 0:00 the information was not provided by client. The completion date of analysis is: 17-JUN-2010
Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
Specific comments for Work Order: HK1012597

Sample(s) were received in a chilled condition.

Water sample(s) analysed and reported on an as received basis.

Soil sample(s) analysed on an as received basis. Result(s) reported on a dry weight basis.

Soil sample(s) as received, digested by In-house method E-ASTM D3974-81 based on ASTM D3974-81, prior to the determination of metals.



Page Number : 3 of 7
 Client : VIBRO (HK) LTD
 Work Order : HK1012597

Analytical Results

Sub-Matrix: SOIL

Compound	CAS Number	LOR	Client sample ID	
			Client sampling date / time	Unit
EA/ED: Physical and Aggregate Properties				
EA055: Moisture Content (dried @ 103°C)	----	0.1	%	7.6
EG: Metals and Major Cations				
EG020: Lead	7439-92-1	1	mg/kg	38
EP-080: BTEX				
Benzene	71-43-2	0.2	mg/kg	<0.2
Toluene	108-88-3	0.5	mg/kg	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5
meta- & para-Xylene	108-38-3	1.0	mg/kg	<1.0
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5
EP-071HK: Total Petroleum Hydrocarbons (TPH)				
C6 - C8 Fraction	----	5	mg/kg	<5
C9 - C16 Fraction	----	200	mg/kg	<200
C17 - C35 Fraction	----	500	mg/kg	<500
EP-080S: TPH(Volatile)/BTEX Surrogate				
Dibromofluoromethane	1868-53-7	0.1	%	87.5
Toluene-D8	2037-26-5	0.1	%	94.2
4-Bromofluorobenzene	460-00-4	0.1	%	93.8

Surrogate control limits listed at end of this report.



Page Number : 4 of 7
 Client : VIBRO (HK) LTD
 Work Order : HK1012597

Sub-Matrix: WATER		Client sample ID		Client sampling date / time		TRIP BLANK	
Compound	CAS Number	LOR	Unit				
EP-080: BTEX							
Benzene	71-43-2	5	µg/L			<5	
Toluene	108-88-3	5	µg/L			<5	
Ethylbenzene	100-41-4	5	µg/L			<5	
meta- & para-Xylene	108-38-3	10	µg/L			<10	
ortho-Xylene	95-47-6	5	µg/L			<5	
EP-071HK: Total Petroleum Hydrocarbons (TPH)							
C6 - C8 Fraction	----	20	µg/L			<20	
EP-080S: TPH(Volatile)/BTEX Surrogate							
Dibromofluoromethane	1868-53-7	0.1	%			96.4	
Toluene-D8	2037-26-5	0.1	%			98.4	
4-Bromofluorobenzene	460-00-4	0.1	%			87.0	
Surrogate control limits listed at end of this report.							



Page Number : 5 of 7
 Client : VIBRO (HK) LTD
 Work Order : HK1012597

Laboratory Duplicate (DUP) Report

Matrix: SOIL				Laboratory Duplicate (DUP) Report				
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and Aggregate Properties (QC Lot: 1378386)								
HK1012591-001	Anonymous	EA055: Moisture Content (dried @ 103°C)	----	0.1	%	8.0	7.7	4.1
EG: Metals and Major Cations (QC Lot: 1380938)								
HK1012579-001	Anonymous	EG020: Lead	7439-92-1	1	mg/kg	76	65	16.4
HK1012585-004	Anonymous	EG020: Lead	7439-92-1	1	mg/kg	63	65	3.0
EP-080: BTEX (QC Lot: 1378571)								
HK1012596-001	Anonymous	Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0
		Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0
		Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0
		ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0
		meta- & para-Xylene	108-38-3	1.0	mg/kg	<1.0	<1.0	0.0
			106-42-3					
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1378563)								
HK1012585-004	Anonymous	C9 - C16 Fraction	----	200	mg/kg	<200	<200	0.0
		C17 - C35 Fraction	----	500	mg/kg	<500	<500	0.0
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1378571)								
HK1012596-001	Anonymous	C6 - C8 Fraction	----	5	mg/kg	<5	<5	0.0

Matrix: WATER

Matrix: WATER				Laboratory Duplicate (DUP) Report				
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
EP-080: BTEX (QC Lot: 1378584)								
HK1012576-002	Anonymous	meta- & para-Xylene	108-38-3	10	µg/L	<10	<10	0.0
			106-42-3					
		Benzene	71-43-2	5	µg/L	<5	<5	0.0
		Toluene	108-88-3	5	µg/L	<5	<5	0.0
		Ethylbenzene	100-41-4	5	µg/L	<5	<5	0.0
		ortho-Xylene	95-47-6	5	µg/L	<5	<5	0.0
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1378584)								
HK1012576-002	Anonymous	C6 - C8 Fraction	----	0.02	mg/L	<0.02	<0.02	0.0

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: SOIL

Matrix: SOIL				Method Blank (MB) Report				Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report					
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	LCS	DCS	Recovery Limits (%)	Low	High	Value	RPD (%)	Control Limit
EG: Metals and Major Cations (QC Lot: 1380938)													
EG020: Lead	7439-92-1	1	mg/kg	<1	5 mg/kg	91.5	----	85	115	----	----	----	----
EP-080: BTEX (QC Lot: 1378571)													
Benzene	71-43-2	0.2	mg/kg	<0.2	0.2 mg/kg	80.6	----	77	118	----	----	----	----
Toluene	108-88-3	0.2	mg/kg	<0.2	0.2 mg/kg	84.4	----	80	115	----	----	----	----
Ethylbenzene	100-41-4	0.2	mg/kg	<0.2	0.2 mg/kg	87.7	----	77	114	----	----	----	----
meta- & para-Xylene	108-38-3	0.4	mg/kg	<0.4	0.4 mg/kg	94.2	----	74	120	----	----	----	----
ortho-Xylene	95-47-6	0.2	mg/kg	<0.2	0.2 mg/kg	85.3	----	72	115	----	----	----	----



Page Number : 6 of 7
 Client : VIBRO (HK) LTD
 Work Order : HK1012597

Matrix: SOIL

Method Blank (MB) Report		Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report											
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	LCS	Spike Recovery (%)	DCS	Recovery Limits (%)	Low	High	Value	Control Limit
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1378563)													
C9 - C16 Fraction	----	200	mg/kg	<200	31 mg/kg	80.1	----	----	57	107	----	----	----
C17 - C35 Fraction	----	500	mg/kg	<500	75 mg/kg	73.3	----	----	43	106	----	----	----
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1378571)													
C6 - C8 Fraction	----	5	mg/kg	<5	3 mg/kg	80.2	----	----	51	147	----	----	----

Matrix: WATER

Method Blank (MB) Report		Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report											
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	LCS	Spike Recovery (%)	DCS	Recovery Limits (%)	Low	High	Value	Control Limit
EP-080: BTEX (QC Lot: 1378584)													
Benzene	71-43-2	2	µg/L	----	10 µg/L	82.9	----	----	56	111	----	----	----
Toluene	108-88-3	2	µg/L	<1	----	----	----	----	----	----	----	----	----
Ethylbenzene	100-41-4	2	µg/L	<2	10 µg/L	87.9	----	----	64	115	----	----	----
meta- & para-Xylene	108-38-3	4	µg/L	<4	20 µg/L	85.1	----	----	67	101	----	----	----
ortho-Xylene	95-47-6	2	µg/L	<2	10 µg/L	86.2	----	----	84	108	----	----	----
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1378584)													
C6 - C8 Fraction	----	0.02	mg/L	<0.02	0.15 mg/L	86.7	----	----	68	125	----	----	----

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

Matrix: SOIL

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report								
				Spike Concentration	MS	MSD	Recovery Limits (%)					
				Low	High	Value	Control Limit					
EG: Metals and Major Cations (QC Lot: 1380938)												
HK1012576-001	Anonymous	EG020: Lead	7439-92-1	5 mg/kg	86.3	----	75	125	----	----	----	----
EP-080: BTEX (QC Lot: 1378571)												
HK1012596-002	Anonymous	Benzene	71-43-2	0.2 mg/kg	80.6	----	50	130	----	----	----	----
		Toluene	108-88-3	0.2 mg/kg	82.5	----	50	130	----	----	----	----
		Ethylbenzene	100-41-4	0.2 mg/kg	86.2	----	50	130	----	----	----	----
		meta- & para-Xylene	108-38-3	0.4 mg/kg	93.6	----	50	130	----	----	----	----
		ortho-Xylene	106-42-3	0.2 mg/kg	88.2	----	50	130	----	----	----	----
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1378563)												
HK1012585-003	Anonymous	C9 - C16 Fraction	----	31 mg/kg	83.1	----	50	130	----	----	----	----
		C17 - C35 Fraction	----	75 mg/kg	70.2	----	50	130	----	----	----	----
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1378571)												
HK1012596-002	Anonymous	C6 - C8 Fraction	----	3 mg/kg	81.4	----	50	130	----	----	----	----

Surrogate Control Limits



Page Number : 7 of 7
Client : VIBRO (HK) LTD
Work Order : HK1012597

Sub-Matrix: SOIL

Compound	CAS Number	Recovery Limits (%)	
		Low	High
EP-080S: TPH(Volatile)/BTEX Surrogate			
Dibromofluoromethane	1868-53-7	80	120
Toluene-D8	2037-26-5	81	117
4-Bromofluorobenzene	460-00-4	74	121
Sub-Matrix: WATER			
Compound	CAS Number	Low	High
EP-080S: TPH(Volatile)/BTEX Surrogate			
Dibromofluoromethane	1868-53-7	86	118
Toluene-D8	2037-26-5	88	110
4-Bromofluorobenzene	460-00-4	86	115



CERTIFICATE OF ANALYSIS

Client	: VIBRO (H.K.) LTD	Laboratory	: ALS Technichem HK Pty Ltd	Page	: 1 of 4
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Telephone	: 2335 2554	Telephone	: +852 2610 1044		
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Project	: J200942E MTR C8016 - ENVIRONMENTAL TERM CONSULTANCY FOR XRL	Quote number	: HK/582a/2010	Date Samples Received	: 11-JUN-2010
Order number	: ----			Issue Date	: 28-JUN-2010
C-O-C number	: H009671			No. of samples received	: 3
Site	: MLW			No. of samples analysed	: 3

General Comments

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for processing purposes. If the sampling time is displayed as 0:00 the information was not provided by client. The completion date of analysis is: 22-JUN-2010
 Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
 Specific comments for Work Order: HK1012870

Sample(s) were received in a chilled condition.

Soil sample(s) analysed on an as received basis. Result(s) reported on a dry weight basis.

Soil sample(s) as received, digested by In-house method E-ASTM D3974-81 based on ASTM D3974-81, prior to the determination of metals.

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PP Anh Ngoc Huynh
 PP Fung Lim Chee, Richard

Position

Senior Chemist
 General Manager

Authorised results for

Organics
 Inorganics



Page Number : 2 of 4
 Client : VIBRO (H.K.) LTD
 Work Order : HK1012870

Analytical Results

Sub-Matrix: SOIL

Compound	CAS Number	LOR	Client sample ID		
			Client sampling date / time	Unit	Surrogate control limits listed at end of this report.
EA/ED: Physical and Aggregate Properties					
EA055: Moisture Content (dried @ 103°C)	----	0.1	%	15.5	23.0
EG: Metals and Major Cations					
EG020: Lead	7439-92-1	1	mg/kg	196	86
EP-080: BTEX					
Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2
Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5
meta- & para-Xylene	108-38-3	1.0	mg/kg	<1.0	<1.0
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5
EP-071HK: Total Petroleum Hydrocarbons (TPH)					
C6 - C8 Fraction	----	5	mg/kg	<5	<5
C9 - C16 Fraction	----	200	mg/kg	<200	<200
C17 - C35 Fraction	----	500	mg/kg	<500	<500
EP-080S: TPH(Volatile)/BTEX Surrogate					
Dibromofluoromethane	1868-53-7	0.1	%	110	107
Toluene-D8	2037-26-5	0.1	%	109	103
4-Bromofluorobenzene	460-00-4	0.1	%	85.8	84.5



Page Number : 3 of 4
 Client : VIBRO (H.K.) LTD
 Work Order : HK1012870

Laboratory Duplicate (DUP) Report

Matrix: SOIL		Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and Aggregate Properties (QC Lot: 1383986)								
HK1012870-001	T01- 1.5M	EA055: Moisture Content (dried @ 103°C)	----	0.1	%	15.5	14.6	6.0
HK1012952-002	Anonymous	EA055: Moisture Content (dried @ 103°C)	----	0.1	%	18.5	16.8	9.4
EG: Metals and Major Cations (QC Lot: 1386190)								
HK1012784-001	Anonymous	EG020: Lead	7439-92-1	1	mg/kg	50	51	2.3
HK1012942-003	Anonymous	EG020: Lead	7439-92-1	1	mg/kg	138	134	3.0
EP-080: BTEX (QC Lot: 1378571)								
HK1012596-001	Anonymous	Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0
		Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0
		Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0
		ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0
		meta- & para-Xylene	108-38-3	1.0	mg/kg	<1.0	<1.0	0.0
		106-42-3						
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1378571)								
HK1012596-001	Anonymous	C6 - C8 Fraction	----	5	mg/kg	<5	<5	0.0
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1379494)								
HK1012784-002	Anonymous	C9 - C16 Fraction	----	200	mg/kg	<200	<200	0.0
		C17 - C35 Fraction	----	500	mg/kg	<500	<500	0.0

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: SOIL		Method Blank (MB) Report		Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report							
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	LCS	DCS	Recovery Limits (%)	Value	Control Limit	RPD (%)
EG: Metals and Major Cations (QC Lot: 1386190)								Low	High		
EG020: Lead	7439-92-1	1	mg/kg	<1	5 mg/kg	103	----	85	115	----	----
EP-080: BTEX (QC Lot: 1378571)											
Benzene	71-43-2	0.2	mg/kg	<0.2	0.2 mg/kg	80.6	----	77	118	----	----
Toluene	108-88-3	0.2	mg/kg	<0.2	0.2 mg/kg	84.4	----	80	115	----	----
Ethylbenzene	100-41-4	0.2	mg/kg	<0.2	0.2 mg/kg	87.7	----	77	114	----	----
meta- & para-Xylene	108-38-3	0.4	mg/kg	<0.4	0.4 mg/kg	94.2	----	74	120	----	----
ortho-Xylene	95-47-6	0.2	mg/kg	<0.2	0.2 mg/kg	85.3	----	72	115	----	----
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1378571)											
C6 - C8 Fraction	----	5	mg/kg	<5	3 mg/kg	80.2	----	51	147	----	----
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1379494)											
C9 - C16 Fraction	----	200	mg/kg	<200	31 mg/kg	71.9	----	57	107	----	----
C17 - C35 Fraction	----	500	mg/kg	<500	75 mg/kg	73.8	----	43	106	----	----

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

Matrix: SOIL		Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report	
Spike Concentration	Spike Recovery (%)	Recovery Limits (%)	RPD (%)



Page Number : 4 of 4
 Client : VIBRO (H.K.) LTD
 Work Order : HK1012870

Matrix: SOIL

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report					
				Spike Concentration	MS	MSD	Recovery Limits (%)	RPD (%)	
EG: Metals and Major Cations (QC Lot: 1386190)									
HK1012774-001	Anonymous	EG020: Lead	7439-92-1	5 mg/kg	# Not Determined	----	75	125	-----
EP-080: BTEX (QC Lot: 1378571)									
HK1012596-002	Anonymous	Benzene	71-43-2	0.2 mg/kg	80.6	----	50	130	-----
		Toluene	108-88-3	0.2 mg/kg	82.5	----	50	130	-----
		Ethylbenzene	100-41-4	0.2 mg/kg	86.2	----	50	130	-----
		meta- & para-Xylene	108-38-3	0.4 mg/kg	93.6	----	50	130	-----
		ortho-Xylene	106-42-3						
			95-47-6	0.2 mg/kg	88.2	----	50	130	-----
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1378571)									
HK1012596-002	Anonymous	C6 - C8 Fraction	----	3 mg/kg	81.4	----	50	130	-----
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1379494)									
HK1012784-003	Anonymous	C9 - C16 Fraction	----	31 mg/kg	78.0	----	50	130	-----
		C17 - C35 Fraction	----	75 mg/kg	77.5	----	50	130	-----

Surrogate Control Limits

Compound	CAS Number	Recovery Limits (%)	
		Low	High
Sub-Matrix: SOIL			
EP-080S: TPH(Volatile)/BTEX Surrogate			
Dibromofluoromethane	1868-53-7	80	120
Toluene-D8	2037-26-5	81	117
4-Bromofluorobenzene	460-00-4	74	121

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

Client : VIBRO (H.K.) LTD
Contact : MR H M CHAN
Address : 4/F.,
38 SHEUNG ON ST.,
CHAI WAN HONG KONG
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Telephone : 2335 2554
Facsimile : ----
Project : J200942E MTR C8016 - ENVIRONMENTAL
TERM CONSULTANCY FOR XRL
Order number : ----
C-O-C number : H009673
Site : MEI LAI ROAD

Laboratory : ALS Technichem HK Pty Ltd
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Telephone : +852 2610 1044
Facsimile : +852 2610 2021
Quote number : HK/582a/2010

Page : 1 of 4
Work Order : HK1012944

Date Samples Received : 14-JUN-2010
Issue Date : 28-JUN-2010
No. of samples received : 2
No. of samples analysed : 2

General Comments

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for processing purposes. If the sampling time is displayed as 0:00 the information was not provided by client. The completion date of analysis is: 22-JUN-2010
Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
Specific comments for Work Order: HK1012944

Sample(s) were received in a chilled condition.
Water sample(s) analysed and reported on an as received basis.

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This document has been electronically signed by those names that appear on this report and are the authorised signatories. Electronic signing has been carried out in compliance with procedures specified in the Electronic Transactions Ordinance of Hong Kong, Chapter 553, Section 6.

Signatories

pp Anh Ngoc Huynh

Position

Senior Chemist

Authorised results for

Organics

ALS Laboratory Group
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Page Number : 2 of 4
 Client : VIBRO (H.K.) LTD
 Work Order : HK1012944

Analytical Results

Sub-Matrix: WATER

Compound	CAS Number	LOR	Client sample ID		T01	TRIP BLANK
			Client sampling date / time	Unit		
EP-080: BTEX						
Benzene	71-43-2	5	µg/L	<5	<5	<5
Toluene	108-88-3	5	µg/L	<5	<5	<5
Ethylbenzene	100-41-4	5	µg/L	<5	<5	<5
meta- & para-Xylene	108-38-3	10	µg/L	<10	<10	<10
ortho-Xylene	95-47-6	5	µg/L	<5	<5	<5
EP-071HK: Total Petroleum Hydrocarbons (TPH)						
C6 - C8 Fraction	----	20	µg/L	<20	<20	<20
C9 - C16 Fraction	----	500	µg/L	<500	----	----
C17 - C35 Fraction	----	500	µg/L	<500	----	----
EP-080S: TPH(Volatile)/BTEX Surrogate						
Dibromofluoromethane	1868-53-7	0.1	%	95.0	89.4	89.4
Toluene-D8	2037-26-5	0.1	%	103	97.6	97.6
4-Bromofluorobenzene	460-00-4	0.1	%	92.9	98.3	98.3
Surrogate control limits listed at end of this report.						



Page Number : 3 of 4
 Client : VIBRO (H.K.) LTD
 Work Order : HK1012944

Laboratory Duplicate (DUP) Report

Matrix: WATER		Method: Compound		Laboratory Duplicate (DUP) Report		
Laboratory sample ID	Client sample ID	CAS Number	LOR	Original Result	Duplicate Result	RPD (%)
EP-080: BTEX (QC Lot: 1380024)						
HK1012874-002	Anonymous	108-38-3 106-42-3	meta- & para-Xylene	<10	<10	0.0
		71-43-2	Benzene	<5	<5	0.0
		108-88-3	Toluene	<5	<5	0.0
		100-41-4	Ethylbenzene	<5	<5	0.0
		95-47-6	ortho-Xylene	<5	<5	0.0
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1380024)						
HK1012874-002	Anonymous	----	C6 - C8 Fraction	<0.02	<0.02	0.0

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: WATER				Method Blank (MB) Report				Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report					
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	LCS	DCS	Spike Recovery (%)	Recovery Limits (%)	Low	High	Value	Control Limit
EP-080: BTEX (QC Lot: 1380024)													
Benzene	71-43-2	2	µg/L	----	10 µg/L	67.1	----	----	56	111	----	----	----
Toluene	108-88-3	2	µg/L	<1	10 µg/L	77.0	----	----	64	115	----	----	----
Ethylbenzene	100-41-4	2	µg/L	<2	10 µg/L	69.9	----	----	67	101	----	----	----
meta- & para-Xylene	108-38-3	4	µg/L	<4	20 µg/L	91.2	----	----	84	108	----	----	----
ortho-Xylene	95-47-6	2	µg/L	<2	10 µg/L	80.5	----	----	72	100	----	----	----
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1380024)													
C6 - C8 Fraction	----	0.5	mg/L	----	0.15 mg/L	73.9	----	----	68	125	----	----	----
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1384527)													
C9 - C16 Fraction	----	0.5	mg/L	<0.5	0.25 mg/L	91.6	----	----	17	170	----	----	----
C17 - C35 Fraction	----	0.5	mg/L	<0.5	0.5 mg/L	99.2	----	----	32	143	----	----	----

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

Matrix: WATER		Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report									
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Spike Concentration	MS	MSD	Recovery Limits (%)	Low	High	Value	Control Limit
EP-080: BTEX (QC Lot: 1380024)											
HK1012947-002	Anonymous	Benzene	71-43-2	10 µg/L	--	----	50	130	50	130	----
		Toluene	108-88-3	10 µg/L	--	----	50	130	50	130	----
		Ethylbenzene	100-41-4	10 µg/L	--	----	50	130	50	130	----
		meta- & para-Xylene	108-38-3	20 µg/L	--	----	50	130	50	130	----
		ortho-Xylene	106-42-3	10 µg/L	--	----	50	130	50	130	----
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1380024)											



Page Number : 4 of 4
 Client : VIBRO (H.K.) LTD
 Work Order : HK1012944

Matrix: WATER

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report			
				Spike Concentration	Spike Recovery (%)	MSD	RPD (%)
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1380024) - Continued							
HK1012947-002	Anonymous	C6 - C8 Fraction	----	0.15 mg/L	--	----	----
						50	130

Surrogate Control Limits

Sub-Matrix: WATER

Compound	CAS Number	Recovery Limits (%)	
		Low	High
EP-080S: TPH(Volatile)/BTX Surrogate			
Dibromofluoromethane	1868-53-7	86	118
Toluene-D8	2037-26-5	88	110
4-Bromofluorobenzene	460-00-4	86	115



CERTIFICATE OF ANALYSIS

Client	: VIBRO (H.K.) LTD	Laboratory	: ALS Technichem HK Pty Ltd	Page	: 1 of 4
Contact	: MR H M CHAN	Contact	: Chan Kwok Fai, Godfrey	Work Order	: HK1012942
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E-mail	: HM_Chan@vibro.com.hk	E-mail	: Godfrey.Chan@alsenviro.com		
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Project	: J200942E MTR C8016 - ENVIRONMENTAL TERM CONSULTANCY FOR XRL	Quote number	: HK/582a/2010	Date Samples Received	: 14-JUN-2010
Order number	: ----			Issue Date	: 28-JUN-2010
C-O-C number	: H009673			No. of samples received	: 5
Site	: MEI LAI ROAD			No. of samples analysed	: 5

General Comments

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for processing purposes. If the sampling time is displayed as 0:00 the information was not provided by client. The completion date of analysis is: 22-JUN-2010
Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
Specific comments for Work Order: HK1012942

Sample(s) were received in a chilled condition.

Soil sample(s) analysed on an as received basis. Result(s) reported on a dry weight basis.

Soil sample(s) as received, digested by in-house method E-ASTM D3974-81 based on ASTM D3974-81, prior to the determination of metals.

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Signatories

PP Anh Ngoc Huynh
PP Fung Lim Chee, Richard

Position

Senior Chemist
General Manager

Authorised results for

Organics
Inorganics



Page Number : 2 of 4
 Client : VIBRO (H.K.) LTD
 Work Order : HK1012942

Analytical Results

Sub-Matrix: SOIL

Compound	CAS Number	LOR	Client sample ID							
			Client sampling date / time	T02- 0.5M	T02- 1.5M	T02- 3.0M	T02- 4.5M	T02- 6.0M		
EA/ED: Physical and Aggregate Properties										
EA055: Moisture Content (dried @ 103°C)	----	0.1	%	12.1	11.8	21.2	14.4			
EG: Metals and Major Cations										
EG020: Lead	7439-92-1	1	mg/kg	172	138	165	20			
EP-080: BTEX										
Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
meta- & para-Xylene	108-38-3	1.0	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
EP-071HK: Total Petroleum Hydrocarbons (TPH)										
C6 - C8 Fraction	----	5	mg/kg	<5	<5	<5	<5	<5	<5	<5
C9 - C16 Fraction	----	200	mg/kg	<200	<200	<200	<200	<200	<200	<200
C17 - C35 Fraction	----	500	mg/kg	<500	<500	<500	<500	<500	<500	<500
EP-080S: TPH(Volatile)/BTEX Surrogate										
Dibromofluoromethane	1868-53-7	0.1	%	91.6	90.4	93.0	89.2			
Toluene-D8	2037-26-5	0.1	%	99.3	98.2	98.1	96.3			
4-Bromofluorobenzene	460-00-4	0.1	%	105	100	105	98.4			

Surrogate control limits listed at end of this report.



Page Number : 3 of 4
 Client : VIBRO (H.K.) LTD
 Work Order : HK1012942

Laboratory Duplicate (DUP) Report

Laboratory sample ID		Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
EAVED: Physical and Aggregate Properties (QC Lot: 1383986)									
HK1012870-001	Anonymous		EA055: Moisture Content (dried @ 103°C)	----	0.1	%	15.5	14.6	6.0
HK1012952-002	Anonymous		EA055: Moisture Content (dried @ 103°C)	----	0.1	%	18.5	16.8	9.4
EG: Metals and Major Cations (QC Lot: 1386190)									
HK1012784-001	Anonymous		EG020: Lead	7439-92-1	1	mg/kg	50	51	2.3
HK1012942-003	T02- 3.0M		EG020: Lead	7439-92-1	1	mg/kg	138	134	3.0
EP-080: BTEX (QC Lot: 1378571)									
HK1012596-001	Anonymous		Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0
			Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0
			Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0
			ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0
			meta- & para-Xylene	108-38-3	1.0	mg/kg	<1.0	<1.0	0.0
			106-42-3						
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1378571)									
HK1012596-001	Anonymous		C6 - C8 Fraction	----	5	mg/kg	<5	<5	0.0
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1379494)									
HK1012784-002	Anonymous		C9 - C16 Fraction	----	200	mg/kg	<200	<200	0.0
			C17 - C35 Fraction	----	500	mg/kg	<500	<500	0.0

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Method Blank (MB) Report				Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report										
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	Spike Recovery (%)	LCS	DCS	Recovery Limits (%)	Low	High	Value	Control Limit	RPD (%)
EG: Metals and Major Cations (QC Lot: 1386190)														
EG020: Lead	7439-92-1	1	mg/kg	<1	5 mg/kg	103	103	----	85	115	-----	-----	-----	-----
EP-080: BTEX (QC Lot: 1378571)														
Benzene	71-43-2	0.2	mg/kg	<0.2	0.2 mg/kg	80.6	80.6	----	77	118	-----	-----	-----	-----
Toluene	108-88-3	0.2	mg/kg	<0.2	0.2 mg/kg	84.4	84.4	----	80	115	-----	-----	-----	-----
Ethylbenzene	100-41-4	0.2	mg/kg	<0.2	0.2 mg/kg	87.7	87.7	----	77	114	-----	-----	-----	-----
meta- & para-Xylene	108-38-3	0.4	mg/kg	<0.4	0.4 mg/kg	94.2	94.2	----	74	120	-----	-----	-----	-----
ortho-Xylene	95-47-6	0.2	mg/kg	<0.2	0.2 mg/kg	85.3	85.3	----	72	115	-----	-----	-----	-----
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1378571)														
C6 - C8 Fraction	----	5	mg/kg	<5	3 mg/kg	80.2	80.2	----	51	147	-----	-----	-----	-----
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1379494)														
C9 - C16 Fraction	----	200	mg/kg	<200	31 mg/kg	71.9	71.9	----	57	107	-----	-----	-----	-----
C17 - C35 Fraction	----	500	mg/kg	<500	75 mg/kg	73.8	73.8	----	43	106	-----	-----	-----	-----

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

Matrix: SOIL		Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report	RPD (%)
Spike Concentration	Spike Recovery (%)	Recovery Limits (%)	RPD (%)



Page Number : 4 of 4
 Client : VIBRO (H.K.) LTD
 Work Order : HK1012942

Matrix: SOIL

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report			RPD (%)		
				Spike Concentration	Spike Recovery (%)	Recovery Limits (%)			
				MS	MSD	Low	High	Value	Control Limit
EG: Metals and Major Cations (QC Lot: 1386190)									
HK1012774-001	Anonymous	EG020: Lead	7439-92-1	5 mg/kg	# Not Determined	75	125	-----	-----
EP-080: BTEX (QC Lot: 1378571)									
HK1012596-002	Anonymous	Benzene	71-43-2	0.2 mg/kg	80.6	50	130	-----	-----
		Toluene	108-88-3	0.2 mg/kg	82.5	50	130	-----	-----
		Ethylbenzene	100-41-4	0.2 mg/kg	86.2	50	130	-----	-----
		meta- & para-Xylene	108-38-3	0.4 mg/kg	93.6	50	130	-----	-----
		ortho-Xylene	106-42-3						
			95-47-6	0.2 mg/kg	88.2	50	130	-----	-----
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1378571)									
HK1012596-002	Anonymous	C6 - C8 Fraction	-----	3 mg/kg	81.4	50	130	-----	-----
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1379494)									
HK1012784-003	Anonymous	C9 - C16 Fraction	-----	31 mg/kg	78.0	50	130	-----	-----
		C17 - C35 Fraction	-----	75 mg/kg	77.5	50	130	-----	-----

Surrogate Control Limits

Sub-Matrix: SOIL		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP-080S: TPH(Volatile)/BTEX Surrogate			
Dibromofluoromethane	1868-53-7	80	120
Toluene-D8	2037-26-5	81	117
4-Bromofluorobenzene	460-00-4	74	121



CERTIFICATE OF ANALYSIS

Client : VIBRO (H.K.) LTD
Contact : MR H M CHAN
Address : 4/F.,
38 SHEUNG ON ST.,
CHAI WAN HONG KONG
E-mail : HM_Chan@vibro.com.hk
Telephone : 2335 2554
Facsimile : ----
Project : J200942E MTR C8016 - ENVIRONMENTAL
TERM CONSULTANCY FOR XRL
Order number : ----
C-O-C number : H009677
Site : MEI LAI ROAD

Laboratory : ALS Technichem HK Pty Ltd
Contact : Chan Kwok Fai, Godfrey
Address : 1/F., Chung Shun Knitting Centre, 1 - 3
Wing Yip Street,
Kwai Chung, N.T., Hong Kong
E-mail : Godfrey.Chan@alsenviro.com
Telephone : +852 2610 1044
Facsimile : +852 2610 2021
Quote number : HK/582a/2010

Page : 1 of 4
Work Order : HK1012953

Date Samples Received : 14-JUN-2010
Issue Date : 28-JUN-2010
No. of samples received : 2
No. of samples analysed : 2

General Comments

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for processing purposes. If the sampling time is displayed as 0:00 the information was not provided by client. The completion date of analysis is: 22-JUN-2010
Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
Specific comments for Work Order: HK1012953

Sample(s) were received in a chilled condition.
Water sample(s) analysed and reported on an as received basis.

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This document has been electronically signed by those names that appear on this report and are the authorised signatories. Electronic signing has been carried out in compliance with procedures specified in the Electronic Transactions Ordinance of Hong Kong, Chapter 553, Section 6.

Signatories

Anh Ngoc Huynh

Position

Senior Chemist

Authorised results for

Organics



Page Number : 2 of 4
 Client : VIBRO (H.K.) LTD
 Work Order : HK1012953

Analytical Results

Sub-Matrix: WATER

Compound	CAS Number	LOR	Client sample ID		T02	TRIP BLANK
			Client sampling date / time	Unit		
EP-080: BTEX						
Benzene	71-43-2	5	µg/L	<5	<5	<5
Toluene	108-88-3	5	µg/L	<5	<5	<5
Ethylbenzene	100-41-4	5	µg/L	<5	<5	<5
meta- & para-Xylene	108-38-3	10	µg/L	<10	<10	<10
ortho-Xylene	95-47-6	5	µg/L	<5	<5	<5
EP-071HK: Total Petroleum Hydrocarbons (TPH)						
C6 - C8 Fraction	----	20	µg/L	<20	<20	<20
C9 - C16 Fraction	----	500	µg/L	<500	----	----
C17 - C35 Fraction	----	500	µg/L	<500	----	----
EP-080S: TPH(Volatile)/BTEX Surrogate						
Dibromofluoromethane	1868-53-7	0.1	%	94.5	98.0	98.0
Toluene-D8	2037-26-5	0.1	%	99.0	98.7	98.7
4-Bromofluorobenzene	460-00-4	0.1	%	93.6	88.3	88.3
Surrogate control limits listed at end of this report.						



Laboratory Duplicate (DUP) Report

Matrix: WATER		Laboratory Duplicate (DUP) Report	
Laboratory sample ID	Client sample ID	Method: Compound	Unit
EP-080: BTEX (QC Lot: 1380024)			
HK1012874-002	Anonymous	meta- & para-Xylene	µg/L
			<10
		Benzene	µg/L
		Toluene	µg/L
		Ethylbenzene	µg/L
		ortho-Xylene	µg/L
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1380024)			
HK1012874-002	Anonymous	C6 - C8 Fraction	mg/L
			<0.02

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: WATER		Method Blank (MB) Report		Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report									
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	LCS	Spike Recovery (%)	DCS	Recovery Limits (%)	Low	High	Value	Control Limit
EP-080: BTEX (QC Lot: 1380024)													
Benzene	71-43-2	2	µg/L	----	10 µg/L	67.1	-----	-----	56	111	-----	-----	-----
Toluene	108-88-3	2	µg/L	<1	-----	-----	-----	-----	64	115	-----	-----	-----
Ethylbenzene	100-41-4	2	µg/L	<2	10 µg/L	77.0	-----	-----	67	101	-----	-----	-----
meta- & para-Xylene	108-38-3	4	µg/L	<4	20 µg/L	91.2	-----	-----	84	108	-----	-----	-----
ortho-Xylene	95-47-6	2	µg/L	<2	10 µg/L	80.5	-----	-----	72	100	-----	-----	-----
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1380024)													
C6 - C8 Fraction	----	0.5	mg/L	----	0.15 mg/L	73.9	-----	-----	68	125	-----	-----	-----
				<0.02	-----	-----	-----	-----	-----	-----	-----	-----	-----
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1384527)													
C9 - C16 Fraction	----	0.5	mg/L	<0.5	0.25 mg/L	91.6	-----	-----	17	170	-----	-----	-----
C17 - C35 Fraction	----	0.5	mg/L	<0.5	0.5 mg/L	99.2	-----	-----	32	143	-----	-----	-----

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

Matrix: WATER		Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report									
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Spike Concentration	MS	MSD	Recovery Limits (%)	Low	High	Value	Control Limit
EP-080: BTEX (QC Lot: 1380024)											
HK1012947-002	Anonymous	Benzene	71-43-2	10 µg/L	---	-----	50	130	-----	-----	-----
		Toluene	108-88-3	10 µg/L	---	-----	50	130	-----	-----	-----
		Ethylbenzene	100-41-4	10 µg/L	---	-----	50	130	-----	-----	-----
		meta- & para-Xylene	108-38-3	20 µg/L	---	-----	50	130	-----	-----	-----
		ortho-Xylene	106-42-3	10 µg/L	---	-----	50	130	-----	-----	-----
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1380024)											
					---	-----	50	130	-----	-----	-----



Page Number : 4 of 4
 Client : VIBRO (H.K.) LTD
 Work Order : HK1012953

Matrix: WATER

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report										
				Spike Concentration	MS	MSD	Recovery Limits (%)	RPD (%)						
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1380024) - Continued														
HK1012947-002	Anonymous	C6 - C8 Fraction		0.15 mg/L	--	----	50	130	----	----				

Surrogate Control Limits

Sub-Matrix: WATER

Compound	CAS Number	Recovery Limits (%)	
		Low	High
EP-080S: TPH(Volatile)/BTEX Surrogate			
Dibromofluoromethane	1868-53-7	86	118
Toluene-D8	2037-26-5	88	110
4-Bromofluorobenzene	460-00-4	86	115



CERTIFICATE OF ANALYSIS

Client	: VIBRO (H.K.) LTD	Laboratory	: ALS Technichem HK Pty Ltd	Page	: 1 of 5
Contact	: MR H M CHAN	Contact	: Chan Kwok Fai, Godfrey	Work Order	: HK1012952
Address	: 4/F., 38 SHEUNG ON ST., CHAI WAN HONG KONG	Address	: 1/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail	: HM_Chan@vibro.com.hk	E-mail	: Godfrey.Chan@alsenviro.com		
Telephone	: 2335 2554	Telephone	: +852 2610 1044		
Facsimile	: ----	Facsimile	: +852 2610 2021		
Project	: J200942E MTR C8016 - ENVIRONMENTAL TERM CONSULTANCY FOR XRL	Quote number	: HK/582a/2010	Date Samples Received	: 14-JUN-2010
Order number	: ----			Issue Date	: 29-JUN-2010
C-O-C number	: H009677			No. of samples received	: 5
Site	: MEI LAI ROAD			No. of samples analysed	: 5

General Comments

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for processing purposes. If the sampling time is displayed as 0:00 the information was not provided by client. The completion date of analysis is: 23-JUN-2010
Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
Specific comments for Work Order: HK1012952

Sample(s) were received in a chilled condition.

Soil sample(s) analysed on an as received basis. Result(s) reported on a dry weight basis.

Soil sample(s) as received, digested by In-house method E-ASTM D3974-81 based on ASTM D3974-81, prior to the determination of metals.

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Signatories

PP Anh Ngoc Huynh
PP Fung Lim Chee, Richard

Position

Senior Chemist
General Manager

Authorised results for

Organics
Inorganics



Page Number : 2 of 5
 Client : VIBRO (H.K.) LTD
 Work Order : HK1012952

Analytical Results

Sub-Matrix: SOIL

Compound	CAS Number	LOR	Unit	Client sample ID						
				Client sampling date / time	T03- 0.5M	T03- 1.5M	T03- 3.0M	T03- 4.5M	T03- 6.0M	
EA/ED: Physical and Aggregate Properties										
EA055: Moisture Content (dried @ 103°C)	----	0.1	%	14-JUN-2010 10:10	14-JUN-2010 11:20	14-JUN-2010 13:23	14-JUN-2010 14:06	14-JUN-2010 16:40		
EG: Metals and Major Cations										
EG020: Lead	7439-92-1	1	mg/kg	HK1012952-001	HK1012952-002	HK1012952-003	HK1012952-004	HK1012952-005		
EP-080: BTEX										
Benzene	71-43-2	0.2	mg/kg	6.9	18.5	16.8	22.4	8.6		
Toluene	108-88-3	0.5	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2		
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5		
meta- & para-Xylene	108-38-3	1.0	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5		
ortho-Xylene	95-47-6	0.5	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0		
EP-071HK: Total Petroleum Hydrocarbons (TPH)										
C6 - C8 Fraction	----	5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5		
C9 - C16 Fraction	----	200	mg/kg	<200	<200	<200	<200	<200		
C17 - C35 Fraction	----	500	mg/kg	<500	<500	<500	<500	<500		
EP-080S: TPH(Volatile)/BTEX Surrogate										
Dibromofluoromethane	1868-53-7	0.1	%	91.2	96.2	98.2	99.7	105		
Toluene-D8	2037-26-5	0.1	%	95.1	94.3	98.1	89.1	95.2		
4-Bromofluorobenzene	460-00-4	0.1	%	84.5	85.9	79.3	78.2	82.1		

Surrogate control limits listed at end of this report.



Page Number : 3 of 5
 Client : VIBRO (H.K.) LTD
 Work Order : HK1012952

Laboratory Duplicate (DUP) Report

Laboratory sample ID		Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
EVA/ED: Physical and Aggregate Properties (QC Lot: 1383986)									
HK1012870-001	Anonymous		EA055: Moisture Content (dried @ 103°C)	----	0.1	%	15.5	14.6	6.0
HK1012952-002	T03- 1.5M		EA055: Moisture Content (dried @ 103°C)	----	0.1	%	18.5	16.8	9.4
EG: Metals and Major Cations (QC Lot: 1386190)									
HK1012784-001	Anonymous		EG020: Lead	7439-92-1	1	mg/kg	50	51	2.3
HK1012942-003	Anonymous		EG020: Lead	7439-92-1	1	mg/kg	138	134	3.0
EP-080: BTEX (QC Lot: 1378571)									
HK1012596-001	Anonymous		Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0
			Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0
			Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0
			ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0
			meta- & para-Xylene	108-38-3	1.0	mg/kg	<1.0	<1.0	0.0
				106-42-3					
EP-080: BTEX (QC Lot: 1384498)									
HK1013005-001	Anonymous		Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0
			Toluene	108-88-3	0.2	mg/kg	<0.2	<0.2	0.0
			Ethylbenzene	100-41-4	0.2	mg/kg	<0.2	<0.2	0.0
			ortho-Xylene	95-47-6	0.2	mg/kg	<0.2	<0.2	0.0
			meta- & para-Xylene	108-38-3	0.4	mg/kg	<0.4	<0.4	0.0
				106-42-3					
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1378571)									
HK1012596-001	Anonymous		C6 - C8 Fraction	----	5	mg/kg	<5	<5	0.0
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1379494)									
HK1012784-002	Anonymous		C9 - C16 Fraction	----	200	mg/kg	<200	<200	0.0
			C17 - C35 Fraction	----	500	mg/kg	<500	<500	0.0
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1384498)									
HK1013005-001	Anonymous		C6 - C8 Fraction	----	5	mg/kg	<5	<5	0.0

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: SOIL				Method Blank (MB) Report				Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report				
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	Spike Recovery (%)	DCS	Recovery Limits (%)	Low	High	Value	Control Limit
EG: Metals and Major Cations (QC Lot: 1386190)												
EG020: Lead	7439-92-1	1	mg/kg	<1	5 mg/kg	103	----	85	115	115	----	----
EP-080: BTEX (QC Lot: 1378571)												
Benzene	71-43-2	0.2	mg/kg	<0.2	0.2 mg/kg	80.6	----	77	118	118	----	----
Toluene	108-88-3	0.2	mg/kg	<0.2	0.2 mg/kg	84.4	----	80	115	115	----	----
Ethylbenzene	100-41-4	0.2	mg/kg	<0.2	0.2 mg/kg	87.7	----	77	114	114	----	----
meta- & para-Xylene	108-38-3	0.4	mg/kg	<0.4	0.4 mg/kg	94.2	----	74	120	120	----	----
ortho-Xylene	95-47-6	0.2	mg/kg	<0.2	0.2 mg/kg	85.3	----	72	115	115	----	----



Page Number : 4 of 5
 Client : VIBRO (H.K.) LTD
 Work Order : HK1012952

Matrix: SOIL

Method Blank (MB) Report				Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report					
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	Spike Recovery (%)	Recovery Limits (%)	Value	Control Limit
EP-080: BTEX (QC Lot: 1384498) - Continued									
Benzene	71-43-2	0.2	mg/kg	<0.2	0.2 mg/kg	93.1	75	117	-----
Toluene	108-88-3	0.2	mg/kg	<0.2	0.2 mg/kg	97.0	69	111	-----
Ethylbenzene	100-41-4	0.2	mg/kg	<0.2	0.2 mg/kg	90.4	75	112	-----
meta- & para-Xylene	108-38-3	0.4	mg/kg	<0.4	0.4 mg/kg	90.1	80	115	-----
ortho-Xylene	95-47-6	0.2	mg/kg	<0.2	0.2 mg/kg	84.8	72	110	-----
EP-07 1HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1378571)									
C6 - C8 Fraction	----	5	mg/kg	<5	3 mg/kg	80.2	51	147	-----
EP-07 1HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1379494)									
C9 - C16 Fraction	----	200	mg/kg	<200	31 mg/kg	71.9	57	107	-----
C17 - C35 Fraction	----	500	mg/kg	<500	75 mg/kg	73.8	43	106	-----
EP-07 1HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1384498)									
C6 - C8 Fraction	----	5	mg/kg	<5	3 mg/kg	126	51	147	-----

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

Matrix: SOIL

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Spike Concentration	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report			RPD (%)	
					MS	MSD	Recovery Limits (%)		
EG: Metals and Major Cations (QC Lot: 1386190)									
HK1012774-001	Anonymous	EG020: Lead	7439-92-1	5 mg/kg	# Not Determined	-----	75	125	-----
EP-080: BTEX (QC Lot: 1378571)									
HK1012596-002	Anonymous	Benzene	71-43-2	0.2 mg/kg	80.6	-----	50	130	-----
		Toluene	108-88-3	0.2 mg/kg	82.5	-----	50	130	-----
		Ethylbenzene	100-41-4	0.2 mg/kg	86.2	-----	50	130	-----
		meta- & para-Xylene	108-38-3	0.4 mg/kg	93.6	-----	50	130	-----
		ortho-Xylene	95-47-6	0.2 mg/kg	88.2	-----	50	130	-----
EP-080: BTEX (QC Lot: 1384498)									
HK1012952-003	T03- 3.0M	Benzene	71-43-2	0.2 mg/kg	85.6	-----	50	130	-----
		Toluene	108-88-3	0.2 mg/kg	100	-----	50	130	-----
		Ethylbenzene	100-41-4	0.2 mg/kg	91.2	-----	50	130	-----
		meta- & para-Xylene	108-38-3	0.4 mg/kg	100	-----	50	130	-----
		ortho-Xylene	95-47-6	0.2 mg/kg	95.0	-----	50	130	-----
EP-07 1HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1378571)									
HK1012596-002	Anonymous	C6 - C8 Fraction	----	3 mg/kg	81.4	-----	50	130	-----
EP-07 1HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1379494)									
HK1012784-003	Anonymous	C9 - C16 Fraction	----	31 mg/kg	78.0	-----	50	130	-----
		C17 - C35 Fraction	----	75 mg/kg	77.5	-----	50	130	-----



Page Number : 5 of 5
 Client : VIBRO (H.K.) LTD
 Work Order : HK1012952

Matrix: SOIL

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Spike Concentration			Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report												
				MS	MSD	Recovery Limits (%)	MS	MSD	Recovery Limits (%)										
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1384498)																			
HK1012952-003	T03- 3.0M	C6 - C8 Fraction	----	3 mg/kg	95.3	----	50	130	----	----	----	----	----	----	----	----	----	----	----

Surrogate Control Limits

Compound	CAS Number	Recovery Limits (%)	
		Low	High
Sub-Matrix: SOIL			
EP-080S: TPH(Volatile)/BTX Surrogate			
Dibromofluoromethane	1868-53-7	80	120
Toluene-D8	2037-26-5	81	117
4-Bromofluorobenzene	460-00-4	74	121



CERTIFICATE OF ANALYSIS

Client : VIBRO (H.K.) LTD
Contact : MR H M CHAN
Address : 4/F.,
38 SHEUNG ON ST.,
CHAI WAN HONG KONG
E-mail : HM.Chan@vibro.com.hk
Telephone : 2335 2554
Facsimile : ----
Project : J200942E MTR C8016 - ENVIRONMENTAL
TERM CONSULTANCY FOR XRL
Order number : ----
C-O-C number : H009728
Site : MLW

Laboratory : ALS Technichem HK Pty Ltd
Contact : Chan Kwok Fai, Godfrey
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E-mail : Godfrey.Chan@alsenviro.com
Telephone : +852 2610 1044
Facsimile : +852 2610 2021
Quote number : HK/582a/2010

Page : 1 of 3
Work Order : HK1013436

Date Samples Received : 19-JUN-2010
Issue Date : 05-JUL-2010
No. of samples received : 4
No. of samples analysed : 4

General Comments

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for processing purposes. If the sampling time is displayed as 0:00 the information was not provided by client. The completion date of analysis is: 25-JUN-2010
Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
Specific comments for Work Order: HK1013436

Sample(s) were received in a chilled condition.
Water sample(s) analysed and reported on an as received basis.

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This document has been electronically signed by those names that appear on this report and are the authorised signatories. Electronic signing has been carried out in compliance with procedures specified in the Electronic Transactions Ordinance of Hong Kong, Chapter 553, Section 6.

Signatories

Anh Ngoc Huynh

Position

Senior Chemist

Authorised results for

Organics



Page Number : 2 of 3
 Client : VIBRO (H.K.) LTD
 Work Order : HK1013436

Analytical Results

Sub-Matrix: WATER

Compound	CAS Number	LOR	Client sample ID		T03	EQUIPMENT BLANK	FIELD BLANK	TRIP BLANK
			Client sampling date / time	Unit				
EP-080: BTEX								
Benzene	71-43-2	5		µg/L	<5	<5	<5	<5
Toluene	108-88-3	5		µg/L	<5	<5	<5	<5
Ethylbenzene	100-41-4	5		µg/L	<5	<5	<5	<5
meta- & para-Xylene	108-38-3	10		µg/L	<10	<10	<10	<10
ortho-Xylene	95-47-6	5		µg/L	<5	<5	<5	<5
EP-071HK: Total Petroleum Hydrocarbons (TPH)								
C6 - C8 Fraction	----	20		µg/L	<20	<20	<20	<20
C9 - C16 Fraction	----	500		µg/L	<500	<500	-----	-----
C17 - C35 Fraction	----	500		µg/L	<500	<500	-----	-----
EP-080S: TPH(Volatile)/BTEX Surrogate								
Dibromofluoromethane	1868-53-7	0.1		%	114	118	115	115
Toluene-D8	2037-26-5	0.1		%	89.9	88.8	94.2	94.2
4-Bromofluorobenzene	460-00-4	0.1		%	87.0	88.4	87.2	87.2

Surrogate control limits listed at end of this report.



Page Number : 3 of 3
 Client : VIBRO (H.K.) LTD
 Work Order : HK1013436

Laboratory Duplicate (DUP) Report

Laboratory sample ID		Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
Matrix: WATER									
EP-080: BTEX (QC Lot: 1388498)									
HK1013329-001	Anonymous	meta- & para-Xylene		108-38-3 106-42-3	10	µg/L	<10	<10	0.0
		Benzene		71-43-2	5	µg/L	<5	<5	0.0
		Toluene		108-88-3	5	µg/L	<5	<5	0.0
		Ethylbenzene		100-41-4	5	µg/L	<5	<5	0.0
		ortho-Xylene		95-47-6	5	µg/L	<5	<5	0.0
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1388498)									
HK1013329-001	Anonymous	C6 - C8 Fraction		-----	0.02	mg/L	<0.02	<0.02	0.0

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Method Blank (MB) Report					Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	LCS	Spike Recovery (%)	DCS	Recovery Limits (%)	Value	Control Limit
Matrix: WATER											
EP-080: BTEX (QC Lot: 1388498)											
Benzene	71-43-2	2	µg/L	----- <1	10 µg/L	84.7	-----	-----	70 - 115	-----	-----
Toluene	108-88-3	2	µg/L	<2	10 µg/L	82.3	-----	-----	67 - 117	-----	-----
Ethylbenzene	100-41-4	2	µg/L	<2	10 µg/L	76.1	-----	-----	76 - 107	-----	-----
meta- & para-Xylene	108-38-3 106-42-3	4	µg/L	<4	20 µg/L	86.0	-----	-----	77 - 112	-----	-----
ortho-Xylene	95-47-6	2	µg/L	<2	10 µg/L	70.0	-----	-----	69 - 109	-----	-----
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1384527)											
C9 - C16 Fraction	-----	0.5	mg/L	<0.5	0.25 mg/L	91.6	-----	-----	17 - 170	-----	-----
C17 - C35 Fraction	-----	0.5	mg/L	<0.5	0.5 mg/L	99.2	-----	-----	32 - 143	-----	-----
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1388498)											
C6 - C8 Fraction	-----	0.5	mg/L	----- <0.02	0.15 mg/L	94.0	-----	-----	68 - 125	-----	-----

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

- No Matrix Spike (MS) or Matrix Spike Duplicate (MSD) Results are required to be reported.

Surrogate Control Limits

Sub-Matrix: WATER		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP-080S: TPH(Volatile)/BTEX Surrogate			
Dibromofluoromethane	1868-53-7	86	118
Toluene-D8	2037-26-5	88	110
4-Bromofluorobenzene	460-00-4	86	115



CERTIFICATE OF ANALYSIS

Client : VIBRO (H.K.) LTD
Contact : MR H M CHAN
Address : 4/F.,
38 SHEUNG ON ST.,
CHAI WAN HONG KONG
E-mail : HM_Chan@vibro.com.hk
Telephone : 2335 2554
Facsimile : ----
Project : J200942E MTR C8016 - ENVIRONMENTAL
TERM CONSULTANCY FOR XRL
Order number : ----
C-O-C number : H009726
Site : MLW

Laboratory : ALS Technichem HK Pty Ltd
Contact : Chan Kwok Fai, Godfrey
Address : 11/F., Chung Shun Knitting Centre, 1 - 3
Wing Yip Street,
Kwai Chung, N.T., Hong Kong
E-mail : Godfrey.Chan@alsenviro.com
Telephone : +852 2610 1044
Facsimile : +852 2610 2021
Quote number : HK/582a/2010

Page : 1 of 5
Work Order : HK1013327

Date Samples Received : 17-JUN-2010
Issue Date : 05-JUL-2010
No. of samples received : 6
No. of samples analysed : 6

General Comments

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for processing purposes. If the sampling time is displayed as 0:00 the information was not provided by client. The completion date of analysis is: 25-JUN-2010
Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
Specific comments for Work Order: **HK1013327**

Sample(s) were received in a chilled condition.

Soil sample(s) analysed on an as received basis. Result(s) reported on a dry weight basis.

Soil sample(s) as received, digested by In-house method E-ASTM D3974-81 based on ASTM D3974-81, prior to the determination of metals.

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This document has been electronically signed by those names that appear on this report and are the authorised signatories. Electronic signing has been carried out in compliance with procedures specified in the Electronic Transactions Ordinance of Hong Kong, Chapter 553, Section 6.

Signatories

PP Anh Ngoc Huynh

PP Fung Lim Chee, Richard

Position

Senior Chemist
General Manager

Authorised results for

Organics
Inorganics



Page Number : 2 of 5
 Client : VIBRO (H.K.) LTD
 Work Order : HK1013327

Analytical Results

Sub-Matrix: SOIL

Compound	CAS Number	LOR	Client sampling date / time		Unit	Client sample ID				
						T04B (0.5M)	T04B (0.5M DUPLICATE)	T04B (1.5M)	T04B (3.0M)	T04B (4.5M)
EA/ED: Physical and Aggregate Properties										
EA055: Moisture Content (dried @ 103°C)		----	0.1	%		12.9	13.0	12.7	14.1	19.6
EG: Metals and Major Cations										
EG020: Lead	7439-92-1	1		mg/kg	187	204	133	65	53	
EP-080: BTEX										
Benzene	71-43-2	0.2		mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	108-88-3	0.5		mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	100-41-4	0.5		mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
meta- & para-Xylene	108-38-3	1.0		mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
ortho-Xylene	95-47-6	0.5		mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
EP-071HK: Total Petroleum Hydrocarbons (TPH)										
C6 - C8 Fraction	----	5		mg/kg	<5	<5	<5	<5	<5	<5
C9 - C16 Fraction	----	200		mg/kg	<200	<200	<200	<200	<200	<200
C17 - C35 Fraction	----	500		mg/kg	<500	<500	<500	<500	<500	<500
EP-080S: TPH(Volatile)/BTEX Surrogate										
Dibromofluoromethane	1868-53-7	0.1		%	100	103	97.0	103	103	101
Toluene-D8	2037-26-5	0.1		%	102	104	102	103	103	104
4-Bromofluorobenzene	460-00-4	0.1		%	102	102	103	104	103	103

Surrogate control limits listed at end of this report.



Page Number : 3 of 5
 Client : VIBRO (H.K.) LTD
 Work Order : HK1013327

Sub-Matrix: SOIL		Client sample ID		Client sampling date / time	
Compound	CAS Number	LOR	Unit	T04B (5.95M) [17-JUN-2010] HK1013327-006	
EA/ED: Physical and Aggregate Properties					
EA055: Moisture Content (dried @ 103°C)	-----	0.1	%	17.2	
EG: Metals and Major Cations					
EG020: Lead	7439-92-1	1	mg/kg	15	
EP-080: BTEX					
Benzene	71-43-2	0.2	mg/kg	<0.2	
Toluene	108-88-3	0.5	mg/kg	<0.5	
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	
meta- & para-Xylene	108-38-3	1.0	mg/kg	<1.0	
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	
EP-071HK: Total Petroleum Hydrocarbons (TPH)					
C6 - C8 Fraction	-----	5	mg/kg	<5	
C9 - C16 Fraction	-----	200	mg/kg	<200	
C17 - C35 Fraction	-----	500	mg/kg	<500	
EP-080S: TPH(Volatile)/BTEX Surrogate					
Dibromofluoromethane	1868-53-7	0.1	%	102	
Toluene-D8	2037-26-5	0.1	%	103	
4-Bromofluorobenzene	460-00-4	0.1	%	102	

Surrogate control limits listed at end of this report.



Page Number : 4 of 5
 Client : VIBRO (H.K.) LTD
 Work Order : HK1013327

Laboratory Duplicate (DUP) Report

Laboratory sample ID		Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and Aggregate Properties (QC Lot: 1389073)									
HK1013306-001	Anonymous		EA055: Moisture Content (dried @ 103°C)	----	0.1	%	23.5	23.5	0.0
HK1013327-003	T04B (1.5M)		EA055: Moisture Content (dried @ 103°C)	----	0.1	%	12.7	12.4	2.0
EG: Metals and Major Cations (QC Lot: 1388920)									
HK1013327-002	T04B (0.5M DUPLICATE)		EG020: Lead	7439-92-1	1	mg/kg	204	231	12.5
EP-080: BTEX (QC Lot: 1387519)									
HK1013306-004	Anonymous		Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0
			Toluene	108-88-3	0.2	mg/kg	<0.2	<0.2	0.0
			Ethylbenzene	100-41-4	0.2	mg/kg	<0.2	<0.2	0.0
			ortho-Xylene	95-47-6	0.2	mg/kg	<0.2	<0.2	0.0
			meta- & para-Xylene	108-38-3	0.4	mg/kg	<0.4	<0.4	0.0
			106-42-3						
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1387519)									
HK1013306-004	Anonymous		C6 - C8 Fraction	----	5	mg/kg	<5	<5	0.0
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1389604)									
HK1013403-003	Anonymous		C9 - C16 Fraction	----	200	mg/kg	<200	<200	0.0
			C17 - C35 Fraction	----	500	mg/kg	<500	<500	0.0

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Method Blank (MB) Report				Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report									
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	LCS	Spike Recovery (%)	DCS	Recovery Limits (%)	Low	High	Value	Control Limit
EG: Metals and Major Cations (QC Lot: 1388920)													
EG020: Lead	7439-92-1	1	mg/kg	<1	5 mg/kg	95.0	-----	-----	85	115	-----	-----	-----
EP-080: BTEX (QC Lot: 1387519)													
Benzene	71-43-2	0.2	mg/kg	<0.2	0.2 mg/kg	98.0	-----	-----	75	117	-----	-----	-----
Toluene	108-88-3	0.2	mg/kg	<0.2	0.2 mg/kg	97.7	-----	-----	69	111	-----	-----	-----
Ethylbenzene	100-41-4	0.2	mg/kg	<0.2	0.2 mg/kg	100	-----	-----	75	112	-----	-----	-----
meta- & para-Xylene	108-38-3	0.4	mg/kg	<0.4	0.4 mg/kg	98.8	-----	-----	80	115	-----	-----	-----
ortho-Xylene	95-47-6	0.2	mg/kg	<0.2	0.2 mg/kg	98.8	-----	-----	72	110	-----	-----	-----
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1387519)													
C6 - C8 Fraction	----	5	mg/kg	<5	3 mg/kg	111	-----	-----	51	147	-----	-----	-----
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1389604)													
C9 - C16 Fraction	----	200	mg/kg	<200	31 mg/kg	81.5	-----	-----	57	107	-----	-----	-----
C17 - C35 Fraction	----	500	mg/kg	<500	75 mg/kg	70.8	-----	-----	43	106	-----	-----	-----

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

Laboratory sample ID		Client sample ID	Method: Compound	CAS Number	Spike Concentration	MS	MSD	Recovery Limits (%)	Low	High	Value	Control Limit
Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report												
				Spike Recovery (%)		Recovery Limits (%)		RPD (%)				
				MS		MSD		Low		High		Control Limit



Page Number : 5 of 5
 Client : VIBRO (H.K.) LTD
 Work Order : HK1013327

Matrix: SOIL

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Spike Concentration		Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report			
				MS	MSD	Recovery Limits (%)	RPD (%)		
				MS	MSD	Low	High	Value	Control Limit
EG: Metals and Major Cations (QC Lot: 1388920)									
HK1013327-001	T04B (0.5M)	EG020: Lead	7439-92-1	5 mg/kg	-----	75	125	-----	-----
EP-080: BTEX (QC Lot: 1387519)									
HK1013306-006	Anonymous	Benzene	71-43-2	0.2 mg/kg	-----	50	130	-----	-----
		Toluene	108-88-3	0.2 mg/kg	-----	50	130	-----	-----
		Ethylbenzene	100-41-4	0.2 mg/kg	-----	50	130	-----	-----
		meta- & para-Xylene	108-38-3	0.4 mg/kg	-----	50	130	-----	-----
		ortho-Xylene	106-42-3	0.2 mg/kg	-----	50	130	-----	-----
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1387519)									
HK1013306-006	Anonymous	C6 - C8 Fraction	-----	3 mg/kg	-----	50	130	-----	-----
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1389604)									
HK1013403-004	Anonymous	C9 - C16 Fraction	-----	31 mg/kg	-----	50	130	-----	-----
		C17 - C35 Fraction	-----	75 mg/kg	-----	50	130	-----	-----

Surrogate Control Limits

Compound	CAS Number	Recovery Limits (%)	
		Low	High
Sub-Matrix: SOIL			
EP-080S: TPH(Volatile)/BTEX Surrogate			
Dibromofluoromethane	1868-53-7	80	120
Toluene-D8	2037-26-5	81	117
4-Bromofluorobenzene	460-00-4	74	121



CERTIFICATE OF ANALYSIS

Client : **VIBRO (H.K.) LTD**
Contact : **MR H M CHAN**
Address : **4/F.,
38 SHEUNG ON ST.,
CHAI WAN HONG KONG**
E-mail : **HM_Chan@vibro.com.hk**
Telephone : **2335 2554**
Facsimile : **----**
Project : **J200942E MTR C8016 - ENVIRONMENTAL
TERM CONSULTANCY FOR XRL**
Order number : **----**
C-O-C number : **H009728**
Site : **MLW**

Laboratory : **ALS Technichem HK Pty Ltd**
Contact : **Chan Kwok Fai, Godfrey**
Address : **11/F., Chung Shun Knitting Centre, 1 - 3
Wing Yip Street,
Kwai Chung, N.T., Hong Kong**
E-mail : **Godfrey.Chan@alsenviro.com**
Telephone : **+852 2610 1044**
Facsimile : **+852 2610 2021**
Quote number : **HK/582a/2010**

Page : **1 of 3**
Work Order : **HK1013437**

Date Samples Received : **19-JUN-2010**
Issue Date : **05-JUL-2010**
No. of samples received : **2**
No. of samples analysed : **2**

General Comments


This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for processing purposes. If the sampling time is displayed as 0:00 the information was not provided by client. The completion date of analysis is: 25-JUN-2010
Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
Specific comments for Work Order: **HK1013437**

Sample(s) were received in a chilled condition.
Water sample(s) analysed and reported on an as received basis.

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Signatories


Anh Ngoc Huynh

Position

Senior Chemist

Authorised results for

Organics



Page Number : 2 of 3
 Client : VIBRO (H.K.) LTD
 Work Order : HK1013437

Analytical Results

Sub-Matrix: WATER

Compound	CAS Number	Client sampling date / time		Unit	LOR	Client sample ID	T04B (DUPLICATE)	
		19-JUN-2010 11:10	19-JUN-2010 11:10				19-JUN-2010 11:10	19-JUN-2010 11:10
EP-080: BTEX								
Benzene	71-43-2	5	µg/L	<5	<5	T04B	T04B (DUPLICATE)	
Toluene	108-88-3	5	µg/L	<5	<5	19-JUN-2010 11:10	19-JUN-2010 11:10	
Ethylbenzene	100-41-4	5	µg/L	<5	<5	HK1013437-001	HK1013437-002	
meta- & para-Xylene	108-38-3	10	µg/L	<10	<10			
ortho-Xylene	95-47-6	5	µg/L	<5	<5			
EP-071HK: Total Petroleum Hydrocarbons (TPH)								
C6 - C8 Fraction	----	20	µg/L	<20	<20			
C9 - C16 Fraction	----	500	µg/L	<500	<500			
C17 - C35 Fraction	----	500	µg/L	<500	<500			
EP-080S: TPH(Volatile)/BTEX Surrogate								
Dibromofluoromethane	1868-53-7	0.1	%	118	114			
Toluene-D8	2037-26-5	0.1	%	93.2	98.9			
4-Bromofluorobenzene	460-00-4	0.1	%	88.2	88.3			
Surrogate control limits listed at end of this report.								



Page Number : 3 of 3
 Client : VIBRO (H.K.) LTD
 Work Order : HK1013437

Laboratory Duplicate (DUP) Report

Matrix: WATER		Method: Compound		Laboratory Duplicate (DUP) Report		
Laboratory sample ID	Client sample ID	CAS Number	Unit	Original Result	Duplicate Result	RPD (%)
EP-080: BTEX (QC Lot: 1388498)						
HK1013329-001	Anonymous	108-38-3	µg/L	<10	<10	0.0
		106-42-3				
	meta- & para-Xylene	71-43-2	µg/L	<5	<5	0.0
	Benzene	108-88-3	µg/L	<5	<5	0.0
	Toluene	100-41-4	µg/L	<5	<5	0.0
	Ethylbenzene	95-47-6	µg/L	<5	<5	0.0
	ortho-Xylene					
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1388498)						
HK1013329-001	Anonymous	0.02	mg/L	<0.02	<0.02	0.0
	C6 - C8 Fraction					

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: WATER		Method Blank (MB) Report		Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report									
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	LCS	Spike Recovery (%)	DCS	Recovery Limits (%)	Low	High	Value	Control Limit
EP-080: BTEX (QC Lot: 1388498)													
Benzene	71-43-2	2	µg/L	<1	10 µg/L	84.7	70	115	70	115			
Toluene	108-88-3	2	µg/L	<2	10 µg/L	82.3	67	117	67	117			
Ethylbenzene	100-41-4	2	µg/L	<2	10 µg/L	76.1	76	107	76	107			
meta- & para-Xylene	108-38-3	4	µg/L	<4	20 µg/L	86.0	77	112	77	112			
ortho-Xylene	95-47-6	2	µg/L	<2	10 µg/L	70.0	69	109	69	109			
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1384527)													
C9 - C16 Fraction		0.5	mg/L	<0.5	0.25 mg/L	91.6	17	170	17	170			
C17 - C35 Fraction		0.5	mg/L	<0.5	0.5 mg/L	99.2	32	143	32	143			
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1388498)													
C6 - C8 Fraction		0.5	mg/L	<0.02	0.15 mg/L	94.0	68	125	68	125			

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

- No Matrix Spike (MS) or Matrix Spike Duplicate (MSD) Results are required to be reported.

Surrogate Control Limits

Sub-Matrix: WATER		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP-080S: TPH(Volatile)/BTEX Surrogate			
Dibromofluoromethane	1868-53-7	86	118
Toluene-D8	2037-26-5	88	110
4-Bromofluorobenzene	460-00-4	86	115



CERTIFICATE OF ANALYSIS

Client	: VIBRO (HK) LTD	Laboratory	: ALS Technichem HK Pty Ltd	Page	: 1 of 4
Contact	: MR H M CHAN	Contact	: Chan Kwok Fai, Godfrey	Work Order	: HK1012596
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E-mail	: HM.Chan@vibro.com.hk	E-mail	: Godfrey.Chan@alsenviro.com		
Telephone	: 2335 2554	Telephone	: +852 2610 1044		
Facsimile	: ----	Facsimile	: +852 2610 2021		
Project	: J200942E MTR C8016 - ENVIRONMENTAL TERM CONSULTANCY FOR XRL	Quote number	: HK/582a/2010	Date Samples Received	: 09-JUN-2010
Order number	: ----			Issue Date	: 24-JUN-2010
C-O-C number	: H009667			No. of samples received	: 2
Site	: MEI LAI ROAD			No. of samples analysed	: 2

General Comments

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for processing purposes. If the sampling time is displayed as 0:00 the information was not provided by client. The completion date of analysis is: 17-JUN-2010
 Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
 Specific comments for Work Order: HK1012596

Sample(s) were received in a chilled condition.

Soil sample(s) analysed on an as received basis. Result(s) reported on a dry weight basis.

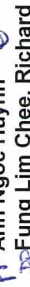
Soil sample(s) as received, digested by in-house method E-ASTM D3974-81 based on ASTM D3974-81, prior to the determination of metals.

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Signatories

 Anh Ngoc Huynh

 Fung Lim Chee, Richard

Position

Senior Chemist

General Manager

Authorised results for

Organics

Inorganics



Page Number : 2 of 4
 Client : VIBRO (HK) LTD
 Work Order : HK1012596

Analytical Results

Compound	CAS Number	LOR	Client sampling date / time		Unit
			T05A-0.5M	T05A-0.5M	
Sub-Matrix: SOIL					
EA/ED: Physical and Aggregate Properties					
EA055: Moisture Content (dried @ 103°C)	----	0.1	7.1	8.0	%
EG: Metals and Major Cations					
EG020: Lead	7439-92-1	1	25	33	mg/kg
EP-080: BTEX					
Benzene	71-43-2	0.2	<0.2	<0.2	mg/kg
Toluene	108-88-3	0.5	<0.5	<0.5	mg/kg
Ethylbenzene	100-41-4	0.5	<0.5	<0.5	mg/kg
meta- & para-Xylene	108-38-3	1.0	<1.0	<1.0	mg/kg
ortho-Xylene	95-47-6	0.5	<0.5	<0.5	mg/kg
EP-071HK: Total Petroleum Hydrocarbons (TPH)					
C6 - C8 Fraction	----	5	<5	<5	mg/kg
C9 - C16 Fraction	----	200	<200	<200	mg/kg
C17 - C35 Fraction	----	500	<500	<500	mg/kg
EP-080S: TPH(Volatile)/BTEX Surrogate					
Dibromofluoromethane	1868-53-7	0.1	87.6	89.7	%
Toluene-D8	2037-26-5	0.1	99.2	95.8	%
4-Bromofluorobenzene	460-00-4	0.1	97.5	97.1	%

Surrogate control limits listed at end of this report.



Page Number : 3 of 4
 Client : VIBRO (HK) LTD
 Work Order : HK1012596

Laboratory Duplicate (DUP) Report

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Laboratory Duplicate (DUP) Report		RPD (%)
						Original Result	Duplicate Result	
EAI/ED: Physical and Aggregate Properties (QC Lot: 1378386)								
HK1012591-001	Anonymous	EA055: Moisture Content (dried @ 103°C)	----	0.1	%	8.0	7.7	4.1
EG: Metals and Major Cations (QC Lot: 1380938)								
HK1012579-001	Anonymous	EG020: Lead	7439-92-1	1	mg/kg	76	65	16.4
HK1012585-004	Anonymous	EG020: Lead	7439-92-1	1	mg/kg	63	65	3.0
EP-080: BTEX (QC Lot: 1378571)								
HK1012596-001	T05A- 0.5M	Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0
		Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0
		Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0
		ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0
		meta- & para-Xylene	108-38-3	1.0	mg/kg	<1.0	<1.0	0.0
		106-42-3						
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1378563)								
HK1012585-004	Anonymous	C9 - C16 Fraction	----	200	mg/kg	<200	<200	0.0
		C17 - C35 Fraction	----	500	mg/kg	<500	<500	0.0
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1378571)								
HK1012596-001	T05A- 0.5M	C6 - C8 Fraction	----	5	mg/kg	<5	<5	0.0

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Method Blank (MB) Report				Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report			
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	Recovery (%)	Control Limit
EG: Metals and Major Cations (QC Lot: 1380938)							
EG020: Lead	7439-92-1	1	mg/kg	<1	5 mg/kg	91.5	115
EP-080: BTEX (QC Lot: 1378571)							
Benzene	71-43-2	0.2	mg/kg	<0.2	0.2 mg/kg	80.6	118
Toluene	108-88-3	0.2	mg/kg	<0.2	0.2 mg/kg	84.4	115
Ethylbenzene	100-41-4	0.2	mg/kg	<0.2	0.2 mg/kg	87.7	114
meta- & para-Xylene	108-38-3	0.4	mg/kg	<0.4	0.4 mg/kg	94.2	120
ortho-Xylene	95-47-6	0.2	mg/kg	<0.2	0.2 mg/kg	85.3	115
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1378563)							
C9 - C16 Fraction	----	200	mg/kg	<200	31 mg/kg	80.1	107
C17 - C35 Fraction	----	500	mg/kg	<500	75 mg/kg	73.3	106
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1378571)							
C6 - C8 Fraction	----	5	mg/kg	<5	3 mg/kg	80.2	147

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

Matrix: SOIL		Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report					
Laboratory sample ID	Client sample ID	Method: Compound	Spike Concentration	Recovery Limits (%)			RPD (%)
				MS	MSD	MSD	
				Low	High	Value	Control Limit



Page Number : 4 of 4
 Client : VIBRO (HK) LTD
 Work Order : HK1012596

Matrix: SOIL

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report			RPD (%)			
				Spike Concentration	Spike Recovery (%)	MSD		Recovery Limits (%)	Value	Control Limit
EG: Metals and Major Cations (QC Lot: 1380938)										
HK1012576-001	Anonymous	EG020: Lead	7439-92-1	5 mg/kg	86.3	----	75	125	----	----
EP-080: BTEX (QC Lot: 1378571)										
HK1012596-002	T05A- 0.5M DUPLICATE	Benzene	71-43-2	0.2 mg/kg	80.6	----	50	130	----	----
		Toluene	108-88-3	0.2 mg/kg	82.5	----	50	130	----	----
		Ethylbenzene	100-41-4	0.2 mg/kg	86.2	----	50	130	----	----
		meta- & para-Xylene	108-38-3	0.4 mg/kg	93.6	----	50	130	----	----
		ortho-Xylene	95-47-6	0.2 mg/kg	88.2	----	50	130	----	----
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1378563)										
HK1012585-003	Anonymous	C9 - C16 Fraction	----	31 mg/kg	83.1	----	50	130	----	----
		C17 - C35 Fraction	----	75 mg/kg	70.2	----	50	130	----	----
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1378571)										
HK1012596-002	T05A- 0.5M DUPLICATE	C6 - C8 Fraction	----	3 mg/kg	81.4	----	50	130	----	----

Surrogate Control Limits

Compound	CAS Number	Recovery Limits (%)	
		Low	High
Sub-Matrix: SOIL			
EP-080S: TPH(Volatile)/BTEX Surrogate			
Dibromofluoromethane	1868-53-7	80	120
Toluene-D8	2037-26-5	81	117
4-Bromofluorobenzene	460-00-4	74	121

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

Client : VIBRO (HK) LTD
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Telephone : 2335 2554
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Project : J200942E MTR C8016 - ENVIRONMENTAL
TERM CONSULTANCY FOR XRL
Order number : ----
C-O-C number : H009669
Site : MEI LAI ROAD

Laboratory : ALS Technichem HK Pty Ltd
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Telephone : +852 2610 1044
Facsimile : +852 2610 2021
Quote number : HK/582a/2010

Page : 1 of 7
Work Order : HK1012784

Date Samples Received : 10-JUN-2010
Issue Date : 25-JUN-2010
No. of samples received : 5
No. of samples analysed : 5

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This document has been electronically signed by those names that appear on this report and are the authorised signatories. Electronic signing has been carried out in compliance with procedures specified in the Electronic Transactions Ordinance of Hong Kong, Chapter 553, Section 6.

Signatories

PP Anh Ngoc Huynh
PP Fung Lim Chee, Richard

Position

Senior Chemist
General Manager

Authorised results for

Organics
Inorganics

Page Number : 2 of 7
Client : VIBRO (HK) LTD
Work Order : HK1012784



General Comments

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for processing purposes. If the sampling time is displayed as 0:00 the information was not provided by client. The completion date of analysis is: 22-JUN-2010
Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
Specific comments for Work Order: **HK1012784**

Sample(s) were received in a chilled condition.

Water sample(s) analysed and reported on an as received basis.

Soil sample(s) analysed on an as received basis. Result(s) reported on a dry weight basis.

Soil sample(s) as received, digested by in-house method E-ASTM D3974-81 based on ASTM D3974-81, prior to the determination of metals.



Analytical Results

Compound	CAS Number	LOR	Client sample ID		Unit
			Client sampling date / time	Client sample ID	
EA/ED: Physical and Aggregate Properties					
EA055: Moisture Content (dried @ 103°C)	----	0.1	%	16.2	10.4
EG: Metals and Major Cations					
EG020: Lead	7439-92-1	1	mg/kg	80	82
EP-080: BTEX					
Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2
Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5
meta- & para-Xylene	108-38-3	1.0	mg/kg	<1.0	<1.0
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5
EP-071HK: Total Petroleum Hydrocarbons (TPH)					
C6 - C8 Fraction	----	5	mg/kg	<5	<5
C9 - C16 Fraction	----	200	mg/kg	<200	<200
C17 - C35 Fraction	----	500	mg/kg	<500	<500
EP-080S: TPH(Volatile)/BTEX Surrogate					
Dibromofluoromethane	1868-53-7	0.1	%	104	108
Toluene-D8	2037-26-5	0.1	%	112	108
4-Bromofluorobenzene	460-00-4	0.1	%	91.8	84.0

Surrogate control limits listed at end of this report.



Page Number : 4 of 7
 Client : VIBRO (HK) LTD
 Work Order : HK1012784

Sub-Matrix: WATER		Client sample ID		Client sampling date / time		TRIP BLANK	
Compound	CAS Number	LOR	Unit				
EP-080: BTEX							
Benzene	71-43-2	5	µg/L			<5	
Toluene	108-88-3	5	µg/L			<5	
Ethylbenzene	100-41-4	5	µg/L			<5	
meta- & para-Xylene	108-38-3	10	µg/L			<10	
ortho-Xylene	95-47-6	5	µg/L			<5	
EP-071HK: Total Petroleum Hydrocarbons (TPH)							
C6 - C8 Fraction	----	20	µg/L			<20	
EP-080S: TPH(Volatile)/BTEX Surrogate							
Dibromofluoromethane	1868-53-7	0.1	%			102	
Toluene-D8	2037-26-5	0.1	%			101	
4-Bromofluorobenzene	460-00-4	0.1	%			90.9	
							Surrogate control limits listed at end of this report.



Page Number : 5 of 7
 Client : VIBRO (HK) LTD
 Work Order : HK1012784

Laboratory Duplicate (DUP) Report

Laboratory sample ID		Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and Aggregate Properties (QC Lot: 1379698)									
HK1012713-011	Anonymous		EA055: Moisture Content (dried @ 103°C)	----	0.1	%	28.8	25.7	11.2
HK1012784-002	T05A- 3.0M		EA055: Moisture Content (dried @ 103°C)	----	0.1	%	16.0	16.0	0.0
EG: Metals and Major Cations (QC Lot: 1386190)									
HK1012784-001	T05A- 1.5M		EG020: Lead	7439-92-1	1	mg/kg	50	51	2.3
HK1012942-003	Anonymous		EG020: Lead	7439-92-1	1	mg/kg	138	134	3.0
EP-080: BTEX (QC Lot: 1378571)									
HK1012596-001	Anonymous		Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0
			Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0
			Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0
			ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0
			meta- & para-Xylene	108-38-3	1.0	mg/kg	<1.0	<1.0	0.0
			106-42-3						
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1378563)									
HK1012585-004	Anonymous		C9 - C16 Fraction	----	200	mg/kg	<200	<200	0.0
			C17 - C35 Fraction	----	500	mg/kg	<500	<500	0.0
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1378571)									
HK1012596-001	Anonymous		C6 - C8 Fraction	----	5	mg/kg	<5	<5	0.0
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1379494)									
HK1012784-002	T05A- 3.0M		C9 - C16 Fraction	----	200	mg/kg	<200	<200	0.0
			C17 - C35 Fraction	----	500	mg/kg	<500	<500	0.0

Laboratory sample ID		Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
Matrix: WATER									
EP-080: BTEX (QC Lot: 1378584)									
HK1012576-002	Anonymous		meta- & para-Xylene	108-38-3 106-42-3	10	µg/L	<10	<10	0.0
			Benzene	71-43-2	5	µg/L	<5	<5	0.0
			Toluene	108-88-3	5	µg/L	<5	<5	0.0
			Ethylbenzene	100-41-4	5	µg/L	<5	<5	0.0
			ortho-Xylene	95-47-6	5	µg/L	<5	<5	0.0
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1378584)									
HK1012576-002	Anonymous		C6 - C8 Fraction	----	0.02	mg/L	<0.02	<0.02	0.0

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Method Blank (MB) Report				Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report							
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	LCS	Spike Recovery (%)	DCS	Recovery Limits (%)	Value	Control Limit
Matrix: SOIL											
EG: Metals and Major Cations (QC Lot: 1386190)											
EG020: Lead	7439-92-1	1	mg/kg	<1	5 mg/kg	103	85	115	85 - 115	-----	-----
EP-080: BTEX (QC Lot: 1378571)	71-43-2	0.2	mg/kg	<0.2	0.2 mg/kg	80.6	77	118	77 - 118	-----	-----



Page Number : 6 of 7
 Client : VIBRO (HK) LTD
 Work Order : HK1012784

Matrix: SOIL

Method Blank (MB) Report				Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report									
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	Spike Recovery (%)	DCS	Recovery Limits (%)	Low	High	Value	RPD (%)	Control Limit
EP-080: BTEX (QC Lot: 1378571) - Continued													
Toluene	108-88-3	0.2	mg/kg	<0.2	0.2 mg/kg	84.4	-----	80	115	-----	-----	-----	-----
Ethylbenzene	100-41-4	0.2	mg/kg	<0.2	0.2 mg/kg	87.7	-----	77	114	-----	-----	-----	-----
meta- & para-Xylene	108-38-3 106-42-3	0.4	mg/kg	<0.4	0.4 mg/kg	94.2	-----	74	120	-----	-----	-----	-----
ortho-Xylene	95-47-6	0.2	mg/kg	<0.2	0.2 mg/kg	85.3	-----	72	115	-----	-----	-----	-----
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1378563)													
C9 - C16 Fraction	-----	200	mg/kg	<200	31 mg/kg	80.1	-----	57	107	-----	-----	-----	-----
C17 - C35 Fraction	-----	500	mg/kg	<500	75 mg/kg	73.3	-----	43	106	-----	-----	-----	-----
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1378571)													
C6 - C8 Fraction	-----	5	mg/kg	<5	3 mg/kg	80.2	-----	51	147	-----	-----	-----	-----
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1379494)													
C9 - C16 Fraction	-----	200	mg/kg	<200	31 mg/kg	71.9	-----	57	107	-----	-----	-----	-----
C17 - C35 Fraction	-----	500	mg/kg	<500	75 mg/kg	73.8	-----	43	106	-----	-----	-----	-----

Matrix: WATER

Method Blank (MB) Report				Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report									
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	Spike Recovery (%)	DCS	Recovery Limits (%)	Low	High	Value	RPD (%)	Control Limit
EP-080: BTEX (QC Lot: 1378584)													
Benzene	71-43-2	2	µg/L	-----	10 µg/L	82.9	-----	56	111	-----	-----	-----	-----
Toluene	108-88-3	2	µg/L	<1	-----	-----	-----	-----	-----	-----	-----	-----	-----
Ethylbenzene	100-41-4	2	µg/L	<2	10 µg/L	87.9	-----	64	115	-----	-----	-----	-----
meta- & para-Xylene	108-38-3 106-42-3	4	µg/L	<4	10 µg/L	85.1	-----	67	101	-----	-----	-----	-----
ortho-Xylene	95-47-6	2	µg/L	<2	20 µg/L	86.2	-----	84	108	-----	-----	-----	-----
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1378584)													
C6 - C8 Fraction	-----	0.02	mg/L	<0.02	-----	-----	-----	-----	-----	-----	-----	-----	-----
				-----	0.15 mg/L	86.7	-----	68	125	-----	-----	-----	-----

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

Matrix: SOIL

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Spike Concentration		Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report		Recovery Limits (%)		RPD (%)	
				MS	MSD	MS	MSD	Low	High	Value	Control Limit
EG: Metals and Major Cations (QC Lot: 1386190)											
HK1012774-001	Anonymous	EG020: Lead	7439-92-1	5 mg/kg	# Not Determined	-----	-----	75	125	-----	-----
EP-080: BTEX (QC Lot: 1378571)											
HK1012596-002	Anonymous	Benzene	71-43-2	0.2 mg/kg	80.6	-----	-----	50	130	-----	-----
		Toluene	108-88-3	0.2 mg/kg	82.5	-----	-----	50	130	-----	-----
		Ethylbenzene	100-41-4	0.2 mg/kg	86.2	-----	-----	50	130	-----	-----
		meta- & para-Xylene	108-38-3 106-42-3	0.4 mg/kg	93.6	-----	-----	50	130	-----	-----



Page Number : 7 of 7
 Client : VIBRO (HK) LTD
 Work Order : HK1012784

Matrix: SOIL

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report						
				Spike Concentration	MS	MSD	Recovery Limits (%)	RPD (%)		
EP-080: BTEX (QC Lot: 1378571) - Continued										
HK1012596-002	Anonymous	ortho-Xylene	95-47-6	0.2 mg/kg	88.2	-----	50	130	-----	-----
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1378563)										
HK1012585-003	Anonymous	C9 - C16 Fraction	-----	31 mg/kg	83.1	-----	50	130	-----	-----
		C17 - C35 Fraction	-----	75 mg/kg	70.2	-----	50	130	-----	-----
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1378571)										
HK1012596-002	Anonymous	C6 - C8 Fraction	-----	3 mg/kg	81.4	-----	50	130	-----	-----
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1379494)										
HK1012784-003	T05A- 4.5M	C9 - C16 Fraction	-----	31 mg/kg	78.0	-----	50	130	-----	-----
		C17 - C35 Fraction	-----	75 mg/kg	77.5	-----	50	130	-----	-----

Surrogate Control Limits

Sub-Matrix: SOIL		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP-080S: TPH(Volatile)/BTEX Surrogate			
Dibromofluoromethane	1868-53-7	80	120
Toluene-D8	2037-26-5	81	117
4-Bromofluorobenzene	460-00-4	74	121
Sub-Matrix: WATER			
Compound	CAS Number	Low	High
EP-080S: TPH(Volatile)/BTEX Surrogate			
Dibromofluoromethane	1868-53-7	86	118
Toluene-D8	2037-26-5	88	110
4-Bromofluorobenzene	460-00-4	86	115

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

Client	: VIBRO (H.K.) LTD	Laboratory	: ALS Technichem HK Pty Ltd	Page	: 1 of 4
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Project	: J200942E MTR C8016 - ENVIRONMENTAL TERM CONSULTANCY FOR XRL	Quote number	: HK/582a/2010	Date Samples Received	: 14-JUN-2010
Order number	: ----			Issue Date	: 28-JUN-2010
C-O-C number	: H009673			No. of samples received	: 1
Site	: MEI LAI ROAD			No. of samples analysed	: 1

General Comments

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for processing purposes. If the sampling time is displayed as 0:00 the information was not provided by client. The completion date of analysis is: 22-JUN-2010
Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
Specific comments for Work Order: HK1013041

Sample(s) were received in a chilled condition.
Water sample(s) analysed and reported on an as received basis.

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This document has been electronically signed by those names that appear on this report and are the authorised signatories.
Electronic signing has been carried out in compliance with procedures specified in the Electronic Transactions Ordinance of
Hong Kong, Chapter 553, Section 6.

Signatories

pp Anh Ngoc Huynh

Position

Senior Chemist

Authorised results for

Organics

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Page Number : 2 of 4
 Client : VIBRO (H.K.) LTD
 Work Order : HK1013041

Analytical Results

Sub-Matrix: WATER

Compound	CAS Number	LOR	Client sample ID	
			Client sampling date / time	Unit
EP-080: BTEX				
Benzene	71-43-2	5		<5
Toluene	108-88-3	5		<5
Ethylbenzene	100-41-4	5		<5
meta- & para-Xylene	108-38-3	10		<10
ortho-Xylene	95-47-6	5		<5
EP-071HK: Total Petroleum Hydrocarbons (TPH)				
C6 - C8 Fraction	----	20		<20
C9 - C16 Fraction	----	500		<500
C17 - C35 Fraction	----	500		<500
EP-080S: TPH(Volatile)/BTEX Surrogate				
Dibromofluoromethane	1868-53-7	0.1		91.7
Toluene-D8	2037-26-5	0.1		100
4-Bromofluorobenzene	460-00-4	0.1		96.4
Surrogate control limits listed at end of this report.				



Page Number : 3 of 4
 Client : VIBRO (H.K.) LTD
 Work Order : HK1013041

Laboratory Duplicate (DUP) Report

Matrix: WATER		Laboratory Duplicate (DUP) Report	
Laboratory sample ID	Client sample ID	Method: Compound	Unit
EP-080: BTEX (QC Lot: 1380024)			
HK1012874-002	Anonymous	meta- & para-Xylene	µg/L
		108-38-3	<10
		106-42-3	<10
		71-43-2	<5
		108-88-3	<5
		100-41-4	<5
		95-47-6	<5
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1380024)			
HK1012874-002	Anonymous	C6 - C8 Fraction	mg/L
		0.02	<0.02

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: WATER		Method Blank (MB) Report		Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report	
Method: Compound	CAS Number	LOR	Unit	Spike Concentration	Spike Recovery (%)
EP-080: BTEX (QC Lot: 1380024)					
Benzene	71-43-2	2	µg/L	10 µg/L	67.1
				<1	<5
Toluene	108-88-3	2	µg/L	10 µg/L	77.0
Ethylbenzene	100-41-4	2	µg/L	10 µg/L	69.9
meta- & para-Xylene	108-38-3	4	µg/L	20 µg/L	91.2
ortho-Xylene	95-47-6	2	µg/L	10 µg/L	80.5
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1380024)					
C6 - C8 Fraction		0.5	mg/L	0.15 mg/L	73.9
				<0.02	<5
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1384527)					
C9 - C16 Fraction		0.5	mg/L	0.25 mg/L	91.6
C17 - C35 Fraction		0.5	mg/L	0.5 mg/L	99.2

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

Matrix: WATER		Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report					
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Spike Concentration	Spike Recovery (%)	MSD	Recovery Limits (%)
EP-080: BTEX (QC Lot: 1380024)							
HK1012947-002	Anonymous	Benzene	71-43-2	10 µg/L	100	50	130
		Toluene	108-88-3	10 µg/L	100	50	130
		Ethylbenzene	100-41-4	10 µg/L	100	50	130
		meta- & para-Xylene	108-38-3	20 µg/L	100	50	130
		ortho-Xylene	106-42-3	10 µg/L	100	50	130
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1380024)							



Page Number : 4 of 4
 Client : VIBRO (H.K.) LTD
 Work Order : HK1013041

Matrix: WATER

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report										
				Spike Concentration	Spike Recovery (%)	MSD	Recovery Limits (%)	RPD (%)						
EP-074HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1380024) - Continued														
HK1012947-002	Anonymous	C6 - C8 Fraction		0.15 mg/L	--	----	50	130	----	----				

Surrogate Control Limits

Sub-Matrix: WATER

Compound	CAS Number	Recovery Limits (%)	
		Low	High
EP-080S: TPH(Volatile)/BTEX Surrogate			
Dibromofluoromethane	1868-53-7	86	118
Toluene-D8	2037-26-5	88	110
4-Bromofluorobenzene	460-00-4	86	115



CERTIFICATE OF ANALYSIS

Client	: VIBRO (HK) LTD	Laboratory	: ALS Technichem HK Pty Ltd	Page	: 1 of 4
Contact	: MR H M CHAN	Contact	: Chan Kwok Fai, Godfrey	Work Order	: HK1012591
Address	: 4/F., 38 SHEUNG ON ST., CHAI WAN HONG KONG	Address	: 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail	: HM_Chan@vibro.com.hk	E-mail	: Godfrey.Chan@alsenviro.com		
Telephone	: 2335 2554	Telephone	: +852 2610 1044		
Facsimile	: ----	Facsimile	: +852 2610 2021		
Project	: J200942E MTR C8016 - ENVIRONMENTAL TERM CONSULTANCY FOR XRL	Quote number	: HK/582a/2010	Date Samples Received	: 08-JUN-2010
Order number	: ----			Issue Date	: 23-JUN-2010
C-O-C number	: H009665			No. of samples received	: 5
Site	: MEI LAI ROAD			No. of samples analysed	: 5

General Comments

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for processing purposes. If the sampling time is displayed as 0:00 the information was not provided by client. The completion date of analysis is: 17-JUN-2010
Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
Specific comments for Work Order: HK1012591

Sample(s) were received in a chilled condition.

Soil sample(s) analysed on an as received basis. Result(s) reported on a dry weight basis.

Soil sample(s) as received, digested by In-house method E-ASTM D3974-81 based on ASTM D3974-81, prior to the determination of metals.

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from the testing laboratory. This document has been electronically signed by those names that appear on this report and are the authorised signatories. Electronic signing has been carried out in compliance with procedures specified in the Electronic Transactions Ordinance of Hong Kong, Chapter 553, Section 6.

Signatories

PP Anh Ngoc Huynh

PP Fung Lim Chee, Richard

Position

Senior Chemist

General Manager

Authorised results for

Organics

Inorganics



Analytical Results

Sub-Matrix: SOIL

Compound	CAS Number	LOR	Client sample ID		Unit	Client sampling date / time	Client sample ID			
			T06- 0.5M	T06- 1.5M			T06- 3.0M	T06- 4.5M	T06- 6.0M	
EA055: Moisture Content (dried @ 103°C)	-----	0.1	%	8.0	15.9	13.7	20.3	17.5		
EG: Metals and Major Cations										
EG020: Lead	7439-92-1	1	mg/kg	112	225	50	56	58		
EP-080: BTEX										
Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
meta- & para-Xylene	108-38-3 106-42-3	1.0	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
EP-071HK: Total Petroleum Hydrocarbons (TPH)										
C6 - C8 Fraction	-----	5	mg/kg	<5	<5	<5	<5	<5	<5	
C9 - C16 Fraction	-----	200	mg/kg	<200	<200	<200	<200	<200	<200	
C17 - C35 Fraction	-----	500	mg/kg	<500	<500	<500	<500	<500	<500	
EP-080S: TPH(Volatile)/BTEX Surrogate									Surrogate control limits listed at end of this report.	
Dibromofluoromethane	1868-53-7	0.1	%	85.2	90.0	93.2	91.9	91.0		
Toluene-D8	2037-26-5	0.1	%	94.9	96.1	97.5	98.1	95.2		
4-Bromofluorobenzene	460-00-4	0.1	%	107	99.5	98.4	96.0	96.5		



Page Number : 3 of 4
 Client : VIBRO (HK) LTD
 Work Order : HK1012591

Laboratory Duplicate (DUP) Report

Laboratory sample ID		Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and Aggregate Properties (QC Lot: 1378386)									
HK1012591-001	T06 - 0.5M		EA055: Moisture Content (dried @ 103°C)	----	0.1	%	8.0	7.7	4.1
EG: Metals and Major Cations (QC Lot: 1380938)									
HK1012579-001	Anonymous		EG020: Lead	7439-92-1	1	mg/kg	76	65	16.4
HK1012585-004	Anonymous		EG020: Lead	7439-92-1	1	mg/kg	63	65	3.0
EP-080: BTEX (QC Lot: 1377038)									
HK1012579-003	Anonymous		Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0
			Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0
			Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0
			ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0
			meta- & para-Xylene	108-38-3	1.0	mg/kg	<1.0	<1.0	0.0
			106-42-3						
EP-074HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1377038)									
HK1012579-003	Anonymous		C6 - C8 Fraction	----	5	mg/kg	<5	<5	0.0
EP-074HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1378563)									
HK1012585-004	Anonymous		C9 - C16 Fraction	----	200	mg/kg	<200	<200	0.0
			C17 - C35 Fraction	----	500	mg/kg	<500	<500	0.0

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: SOIL										
Method Blank (MB) Report										
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	LCS	Spike Recovery (%)	DCS	Recovery Limits (%)	RPD (%)
EG: Metals and Major Cations (QC Lot: 1380938)										
EG020: Lead	7439-92-1	1	mg/kg	<1	5 mg/kg	91.5	85	115	-----	-----
EP-080: BTEX (QC Lot: 1377038)										
Benzene	71-43-2	0.2	mg/kg	<0.2	0.2 mg/kg	90.3	77	118	-----	-----
Toluene	108-88-3	0.2	mg/kg	<0.2	0.2 mg/kg	88.8	80	115	-----	-----
Ethylbenzene	100-41-4	0.2	mg/kg	<0.2	0.2 mg/kg	83.0	77	114	-----	-----
meta- & para-Xylene	108-38-3	0.4	mg/kg	<0.4	0.4 mg/kg	87.7	74	120	-----	-----
ortho-Xylene	95-47-6	0.2	mg/kg	<0.2	0.2 mg/kg	75.1	72	115	-----	-----
EP-074HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1377038)										
C6 - C8 Fraction	----	5	mg/kg	<5	3 mg/kg	102	51	147	-----	-----
EP-074HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1378563)										
C9 - C16 Fraction	----	200	mg/kg	<200	31 mg/kg	80.1	57	107	-----	-----
C17 - C35 Fraction	----	500	mg/kg	<500	75 mg/kg	73.3	43	106	-----	-----

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

Matrix: SOIL										
Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report										
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Spike Concentration	MS	MSD	Recovery Limits (%)	High	Low	RPD (%)
					MS	MSD	Recovery Limits (%)	High	Low	Control Limit



Page Number : 4 of 4
 Client : VIBRO (HK) LTD
 Work Order : HK1012591

Matrix: SOIL

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report				
				Spike Concentration	MS	MSD	Recovery Limits (%)	RPD (%)
				Low	High	Value	Control Limit	
EG: Metals and Major Cations (QC Lot: 1380938)								
HK1012576-001	Anonymous	EG020: Lead	7439-92-1	5 mg/kg	86.3	75	125	----
EP-080: BTEX (QC Lot: 1377038)								
HK1012579-004	Anonymous	Benzene	71-43-2	0.2 mg/kg	66.2	50	130	----
		Toluene	108-88-3	0.2 mg/kg	64.5	50	130	----
		Ethylbenzene	100-41-4	0.2 mg/kg	84.4	50	130	----
		meta- & para-Xylene	108-38-3	0.4 mg/kg	84.1	50	130	----
		ortho-Xylene	95-47-6	0.2 mg/kg	74.2	50	130	----
EP-07 1HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1377038)								
HK1012579-004	Anonymous	C6 - C8 Fraction	----	3 mg/kg	71.3	50	130	----
EP-07 1HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1378563)								
HK1012585-003	Anonymous	C9 - C16 Fraction	----	31 mg/kg	83.1	50	130	----
		C17 - C35 Fraction	----	75 mg/kg	70.2	50	130	----

Surrogate Control Limits

Compound	CAS Number	Recovery Limits (%)	
		Low	High
Sub-Matrix: SOIL			
EP-080S: TPH(Volatile)/BTEX Surrogate			
Dibromofluoromethane	1868-53-7	80	120
Toluene-D8	2037-26-5	81	117
4-Bromofluorobenzene	460-00-4	74	121



CERTIFICATE OF ANALYSIS

Client	: VIBRO (H.K.) LTD	Laboratory	: ALS Technichem HK Pty Ltd	Page	: 1 of 4
Contact	: MR H M CHAN	Contact	: Chan Kwok Fai, Godfrey	Work Order	: HK1012874
Address	: 4/F., 38 SHEUNG ON ST., CHAI WAN HONG KONG	Address	: 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail	: HM_Chan@vibro.com.hk	E-mail	: Godfrey.Chan@alsenviro.com		
Telephone	: 2335 2554	Telephone	: +852 2610 1044		
Facsimile	: ----	Facsimile	: +852 2610 2021		
Project	: J200942E MTR C8016 - ENVIRONMENTAL TERM CONSULTANCY FOR XRL	Quote number	: HK/582a/2010	Date Samples Received	: 11-JUN-2010
Order number	: ----			Issue Date	: 28-JUN-2010
C-O-C number	: H009671			No. of samples received	: 2
Site	: MLW			No. of samples analysed	: 2

General Comments

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for processing purposes. If the sampling time is displayed as 0:00 the information was not provided by client. The completion date of analysis is: 22-JUN-2010
Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
Specific comments for Work Order: HK1012874

Sample(s) were received in a chilled condition.
Water sample(s) analysed and reported on an as received basis.

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Hong Kong, Chapter 553, Section 6.

Signatories

pp Anh Ngoc Huynh

Position

Senior Chemist

Authorised results for

Organics



Page Number : 2 of 4
 Client : VIBRO (H.K.) LTD
 Work Order : HK1012874

Analytical Results

Sub-Matrix: WATER

Compound	CAS Number	LOR	Client sample ID		TRIP BLANK
			Client sampling date / time	Unit	
EP-080: BTEX					
Benzene	71-43-2	5	11-JUN-2010 14:00	µg/L	<5
Toluene	108-88-3	5	HK1012874-001	µg/L	<5
Ethylbenzene	100-41-4	5		µg/L	<5
meta- & para-Xylene	108-38-3 106-42-3	10		µg/L	<10
ortho-Xylene	95-47-6	5		µg/L	<5
EP-071HK: Total Petroleum Hydrocarbons (TPH)					
C6 - C8 Fraction	----	20		µg/L	<20
C9 - C16 Fraction	----	500		µg/L	<500
C17 - C35 Fraction	----	500		µg/L	<500
EP-080S: TPH(Volatile)/BTEX Surrogate					
Dibromofluoromethane	1868-53-7	0.1		%	101
Toluene-D8	2037-26-5	0.1		%	101
4-Bromofluorobenzene	460-00-4	0.1		%	86.5

Surrogate control limits listed at end of this report.



Page Number : 3 of 4
 Client : VIBRO (H.K.) LTD
 Work Order : HK1012874

Laboratory Duplicate (DUP) Report

Matrix: WATER		Method: Compound		Laboratory Duplicate (DUP) Report	
Laboratory sample ID	Client sample ID	CAS Number	LOR	Unit	RPD (%)
EP-080: BTEX (QC Lot: 1378584)					
HK1012576-002	Anonymous	108-38-3	10	µg/L	0.0
		106-42-3			
		71-43-2	5	µg/L	0.0
		108-88-3	5	µg/L	0.0
		100-41-4	5	µg/L	0.0
		95-47-6	5	µg/L	0.0
EP-080: BTEX (QC Lot: 1380024)					
HK1012874-002	TRIP BLANK	108-38-3	10	µg/L	0.0
		106-42-3			
		71-43-2	5	µg/L	0.0
		108-88-3	5	µg/L	0.0
		100-41-4	5	µg/L	0.0
		95-47-6	5	µg/L	0.0
EP-074HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1376568)					
HK1012308-001	Anonymous	-----	0.5	mg/L	0.0
		-----	0.5	mg/L	0.0
EP-074HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1378584)					
HK1012576-002	Anonymous	-----	0.02	mg/L	0.0
EP-074HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1380024)					
HK1012874-002	TRIP BLANK	-----	0.02	mg/L	0.0

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: WATER		Method Blank (MB) Report				Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report				
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	LCS	DCS	Recovery Limits (%)	Value	Control Limit
EP-080: BTEX (QC Lot: 1378584)										
Benzene	71-43-2	2	µg/L	-----	10 µg/L	82.9	-----	56	111	-----
				<1	-----	-----	-----	-----	-----	-----
Toluene	108-88-3	2	µg/L	<2	10 µg/L	87.9	-----	64	115	-----
Ethylbenzene	100-41-4	2	µg/L	<2	10 µg/L	85.1	-----	67	101	-----
meta- & para-Xylene	108-38-3	4	µg/L	<4	20 µg/L	86.2	-----	84	108	-----
ortho-Xylene	95-47-6	2	µg/L	<2	10 µg/L	76.2	-----	72	100	-----
EP-080: BTEX (QC Lot: 1380024)										
Benzene	71-43-2	2	µg/L	-----	10 µg/L	67.1	-----	56	111	-----
				<1	-----	-----	-----	-----	-----	-----
Toluene	108-88-3	2	µg/L	<2	10 µg/L	77.0	-----	64	115	-----
Ethylbenzene	100-41-4	2	µg/L	<2	10 µg/L	69.9	-----	67	101	-----
meta- & para-Xylene	108-38-3	4	µg/L	<4	20 µg/L	91.2	-----	84	108	-----
ortho-Xylene	95-47-6	2	µg/L	<2	10 µg/L	80.5	-----	72	100	-----
EP-074HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1376568)										
C9 - C16 Fraction	-----	0.5	mg/L	<0.5	0.25 mg/L	70.8	-----	17	170	-----



Page Number : 4 of 4
 Client : VIBRO (H.K.) LTD
 Work Order : HK1012874

Matrix: WATER

Method Blank (MB) Report				Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report								
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	Spike Recovery (%)	DCS	Recovery Limits (%)	Low	High	Value	Control Limit
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1376568) - Continued												
C17 - C35 Fraction	---	0.5	mg/L	<0.5	0.5 mg/L	77.6	---	---	32	143	---	---
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1378584)												
C6 - C8 Fraction	---	0.02	mg/L	<0.02	0.15 mg/L	86.7	---	---	68	125	---	---
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1380024)												
C6 - C8 Fraction	---	0.5	mg/L	<0.02	0.15 mg/L	73.9	---	---	68	125	---	---

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

Matrix: WATER

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report						
				Spike Concentration	MS	MSD	Recovery Limits (%)	RPD (%)		
EP-080: BTEX (QC Lot: 1380024)										
HK1012947-002	Anonymous	Benzene	71-43-2	10 µg/L	---	---	50	130	---	---
		Toluene	108-88-3	10 µg/L	---	---	50	130	---	---
		Ethylbenzene	100-41-4	10 µg/L	---	---	50	130	---	---
		meta- & para-Xylene	108-38-3	20 µg/L	---	---	50	130	---	---
		ortho-Xylene	106-42-3	10 µg/L	---	---	50	130	---	---
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1380024)										
HK1012947-002	Anonymous	C6 - C8 Fraction	----	0.15 mg/L	---	---	50	130	---	---

Surrogate Control Limits

Sub-Matrix: WATER

Compound	CAS Number	Recovery Limits (%)	
		Low	High
EP-080S: TPH(Volatile)/BTEX Surrogate			
Dibromofluoromethane	1868-53-7	86	118
Toluene-D8	2037-26-5	88	110
4-Bromofluorobenzene	460-00-4	86	115



CERTIFICATE OF ANALYSIS

Client : VIBRO (HK) LTD
 Contact : MR H M CHAN
 Address : 4/F.,
 38 SHEUNG ON ST.,
 CHAI WAN HONG KONG
 E-mail : HM_Chan@vibro.com.hk
 Telephone : 2335 2554
 Facsimile : ----
 Project : J200942E MTR C8016 - ENVIRONMENTAL
 TERM CONSULTANCY FOR XRL
 Order number : ----
 C-O-C number : H009661
 Site : MEI LAI ROAD

Laboratory : ALS Technichem HK Pty Ltd
 Contact : Chan Kwok Fai, Godfrey
 Address : 1/F., Chung Shun Knitting Centre, 1 - 3
 Wing Yip Street,
 Kwai Chung, N.T., Hong Kong
 E-mail : Godfrey.Chan@alsenviro.com
 Telephone : +852 2610 1044
 Facsimile : +852 2610 2021
 Quote number : HK/582a/2010

Page : 1 of 7
 Work Order : HK1012576

Date Samples Received : 03-JUN-2010
 Issue Date : 22-JUN-2010
 No. of samples received : 2
 No. of samples analysed : 2

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Signatories

Anh Ngoc Huynh

P Fung Lim Chee, Richard

Position

Senior Chemist

General Manager

Authorised results for

Organics

Inorganics



Page Number : 2 of 7
Client : VIBRO (HK) LTD
Work Order : HK1012576

General Comments

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for processing purposes. If the sampling time is displayed as 0:00 the information was not provided by client. The completion date of analysis is: 17-JUN-2010
Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
Specific comments for Work Order: HK1012576

Sample(s) were received in a chilled condition.

Water sample(s) analysed and reported on an as received basis.

Soil sample(s) analysed on an as received basis. Result(s) reported on a dry weight basis.

Soil sample(s) as received, digested by in-house method E-ASTM D3974-81 based on ASTM D3974-81, prior to the determination of metals.



Page Number : 3 of 7
 Client : VIBRO (HK) LTD
 Work Order : HK1012576

Analytical Results

Sub-Matrix: SOIL

Compound	CAS Number	LOR	Client sample ID		T07 - 0.5M
			Client sampling date / time	Unit	
EA/ED: Physical and Aggregate Properties					
EA055: Moisture Content (dried @ 103°C)	----	0.1	%		17.2
EG: Metals and Major Cations					
EG020: Lead	7439-92-1	1	mg/kg		18
EP-080: BTEX					
Benzene	71-43-2	0.2	mg/kg		<0.2
Toluene	108-88-3	0.5	mg/kg		<0.5
Ethylbenzene	100-41-4	0.5	mg/kg		<0.5
meta- & para-Xylene	108-38-3	1.0	mg/kg		<1.0
ortho-Xylene	95-47-6	0.5	mg/kg		<0.5
EP-071HK: Total Petroleum Hydrocarbons (TPH)					
C6 - C8 Fraction	----	5	mg/kg		<5
C9 - C16 Fraction	----	200	mg/kg		<200
C17 - C35 Fraction	----	500	mg/kg		<500
EP-080S: TPH(Volatile)/BTEX Surrogate					
Dibromofluoromethane	1868-53-7	0.1	%		94.0
Toluene-D8	2037-26-5	0.1	%		97.7
4-Bromofluorobenzene	460-00-4	0.1	%		82.9

Surrogate control limits listed at end of this report.



Page Number : 4 of 7
 Client : VIBRO (HK) LTD
 Work Order : HK1012576

Compound	Client sample ID		LOR	Unit	TRIP BLANK
	CAS Number	Client sampling date / time			
Sub-Matrix: WATER					
EP-080: BTEX					
Benzene	71-43-2		5	µg/L	<5
Toluene	108-88-3		5	µg/L	<5
Ethylbenzene	100-41-4		5	µg/L	<5
meta- & para-Xylene	108-38-3	106-42-3	10	µg/L	<10
ortho-Xylene	95-47-6		5	µg/L	<5
EP-071HK: Total Petroleum Hydrocarbons (TPH)					
C6 - C8 Fraction	-----		20	µg/L	<20
EP-080S: TPH(Volatile)/BTEX Surrogate					
Dibromofluoromethane	1868-53-7		0.1	%	104
Toluene-D8	2037-26-5		0.1	%	100
4-Bromofluorobenzene	460-00-4		0.1	%	87.4
Surrogate control limits listed at end of this report.					



Page Number : 5 of 7
 Client : VIBRO (HK) LTD
 Work Order : HK1012576

Laboratory Duplicate (DUP) Report

Laboratory sample ID		Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and Aggregate Properties (QC Lot: 1377460)									
HK1012308-003	Anonymous	EA055: Moisture Content (dried @ 103°C)		----	0.1	%	30.1	30.1	0.0
HK1012404-005	Anonymous	EA055: Moisture Content (dried @ 103°C)		----	0.1	%	27.4	27.7	1.0
EG: Metals and Major Cations (QC Lot: 1380938)									
HK1012579-001	Anonymous	EG020: Lead		7439-92-1	1	mg/kg	76	65	16.4
HK1012585-004	Anonymous	EG020: Lead		7439-92-1	1	mg/kg	63	65	3.0
EP-080: BTEX (QC Lot: 1375625)									
HK1011354-003	Anonymous	Benzene		71-43-2	0.2	mg/kg	<0.2	<0.2	0.0
		Toluene		108-88-3	0.2	mg/kg	<0.2	<0.2	0.0
		Ethylbenzene		100-41-4	0.2	mg/kg	<0.2	<0.2	0.0
		ortho-Xylene		95-47-6	0.2	mg/kg	<0.2	<0.2	0.0
		meta- & para-Xylene		108-38-3	0.4	mg/kg	<0.4	<0.4	0.0
		106-42-3							
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1375625)									
HK1011354-003	Anonymous	C6 - C8 Fraction		----	5	mg/kg	<5	<5	0.0
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1376573)									
HK1012308-003	Anonymous	C9 - C16 Fraction		----	200	mg/kg	<200	<200	0.0
		C17 - C35 Fraction		----	500	mg/kg	<500	<500	0.0

Matrix: WATER

Laboratory sample ID		Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
EP-080: BTEX (QC Lot: 1378584)									
HK1012576-002	TRIP BLANK	meta- & para-Xylene		108-38-3 106-42-3	10	µg/L	<10	<10	0.0
		Benzene		71-43-2	5	µg/L	<5	<5	0.0
		Toluene		108-88-3	5	µg/L	<5	<5	0.0
		Ethylbenzene		100-41-4	5	µg/L	<5	<5	0.0
		ortho-Xylene		95-47-6	5	µg/L	<5	<5	0.0
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1378584)									
HK1012576-002	TRIP BLANK	C6 - C8 Fraction		----	0.02	mg/L	<0.02	<0.02	0.0

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: SOIL

Method: Compound		CAS Number	LOR	Unit	Result	Spike Concentration	LCS	Spike Recovery (%)	DCS	Recovery Limits (%)	Low	High	Value	Control Limit
EG: Metals and Major Cations (QC Lot: 1380938)														
EG020: Lead		7439-92-1	1	mg/kg	<1	5 mg/kg	91.5	----	----	85	115	----	----	----
EP-080: BTEX (QC Lot: 1375625)														
Benzene		71-43-2	0.2	mg/kg	<0.2	0.2 mg/kg	95.6	----	----	77	118	----	----	----
Toluene		108-88-3	0.2	mg/kg	<0.2	0.2 mg/kg	101	----	----	80	115	----	----	----
Ethylbenzene		100-41-4	0.2	mg/kg	<0.2	0.2 mg/kg	90.0	----	----	77	114	----	----	----
meta- & para-Xylene		108-38-3	0.4	mg/kg	<0.4	0.4 mg/kg	95.0	----	----	74	120	----	----	----



Page Number : 6 of 7
 Client : VIBRO (HK) LTD
 Work Order : HK1012576

Matrix: SOIL

		Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report							
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	LCS	Spike Recovery (%)	DCS	Recovery Limits (%)	Value	RPD (%)	Control Limit
EP-080: BTEX (QC Lot: 1375625) - Continued												
ortho-Xylene	95-47-6	0.2	mg/kg	<0.2	0.2 mg/kg	85.0	-----	-----	72	115	-----	-----
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1375625)												
C6 - C8 Fraction	-----	5	mg/kg	<5	3 mg/kg	103	-----	-----	51	147	-----	-----
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1376573)												
C9 - C16 Fraction	-----	200	mg/kg	<200	31 mg/kg	82.3	-----	-----	57	107	-----	-----
C17 - C35 Fraction	-----	500	mg/kg	<500	75 mg/kg	72.3	-----	-----	43	106	-----	-----

Matrix: WATER

		Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report							
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	LCS	Spike Recovery (%)	DCS	Recovery Limits (%)	Value	RPD (%)	Control Limit
EP-080: BTEX (QC Lot: 1378584)												
Benzene	71-43-2	2	µg/L	----	10 µg/L	82.9	-----	-----	56	111	-----	-----
Toluene	108-88-3	2	µg/L	<1	10 µg/L	87.9	-----	-----	64	115	-----	-----
Ethylbenzene	100-41-4	2	µg/L	<2	10 µg/L	85.1	-----	-----	67	101	-----	-----
meta- & para-Xylene	108-38-3	4	µg/L	<4	20 µg/L	86.2	-----	-----	84	108	-----	-----
ortho-Xylene	95-47-6	2	µg/L	<2	10 µg/L	76.2	-----	-----	72	100	-----	-----
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1378584)												
C6 - C8 Fraction	-----	0.02	mg/L	<0.02	0.15 mg/L	86.7	-----	-----	68	125	-----	-----

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

Matrix: SOIL

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Spike Concentration		Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report		Recovery Limits (%)		Value	RPD (%)	Control Limit
				MS	MSD	Low	High					
EG: Metals and Major Cations (QC Lot: 1380938)												
HK1012576-001	T07-0.5M	EG020: Lead	7439-92-1	5 mg/kg	86.3	-----	-----	75	125	-----	-----	-----
EP-080: BTEX (QC Lot: 1375625)												
HK1011354-007	Anonymous	Benzene	71-43-2	0.2 mg/kg	86.9	-----	-----	50	130	-----	-----	-----
		Toluene	108-88-3	0.2 mg/kg	92.5	-----	-----	50	130	-----	-----	-----
		Ethylbenzene	100-41-4	0.2 mg/kg	83.8	-----	-----	50	130	-----	-----	-----
		meta- & para-Xylene	108-38-3	0.4 mg/kg	91.6	-----	-----	50	130	-----	-----	-----
		ortho-Xylene	106-42-3	0.2 mg/kg	83.1	-----	-----	50	130	-----	-----	-----
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1375625)												
HK1011354-007	Anonymous	C6 - C8 Fraction	-----	3 mg/kg	87.9	-----	-----	50	130	-----	-----	-----
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1376573)												
HK1012404-002	Anonymous	C9 - C16 Fraction	-----	31 mg/kg	61.3	-----	-----	50	130	-----	-----	-----
		C17 - C35 Fraction	-----	75 mg/kg	74.0	-----	-----	50	130	-----	-----	-----



Page Number : 7 of 7
Client : VIBRO (HK) LTD
Work Order : HK1012576

Surrogate Control Limits

Sub-Matrix: SOIL			
Compound	CAS Number	Recovery Limits (%)	
		Low	High
EP-080S: TPH(Volatile)/BTEX Surrogate			
Dibromofluoromethane	1868-53-7	80	120
Toluene-D8	2037-26-5	81	117
4-Bromofluorobenzene	460-00-4	74	121
Sub-Matrix: WATER			
Compound	CAS Number	Recovery Limits (%)	
		Low	High
EP-080S: TPH(Volatile)/BTEX Surrogate			
Dibromofluoromethane	1868-53-7	86	118
Toluene-D8	2037-26-5	88	110
4-Bromofluorobenzene	460-00-4	86	115



CERTIFICATE OF ANALYSIS

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Project : J200942E MTR C8016 - ENVIRONMENTAL
TERM CONSULTANCY FOR XRL
Order number : ----
C-O-C number : H009721
Site : MEI LAI ROAD

Laboratory : ALS Technichem HK Pty Ltd
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Quote number : HK/582a/2010

Page : 1 of 4
Work Order : HK1012585

Date Samples Received : 07-JUN-2010
Issue Date : 21-JUN-2010
No. of samples received : 4
No. of samples analysed : 4

General Comments

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for processing purposes. If the sampling time is displayed as 0:00 the information was not provided by client. The completion date of analysis is: 17-JUN-2010
Key: LOR = Limit of reporting, CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
Specific comments for Work Order: HK1012585

Sample(s) were received in a chilled condition.

Soil sample(s) analysed on an as received basis. Result(s) reported on a dry weight basis.

Soil sample(s) as received, digested by In-house method E-ASTM D3974-81 based on ASTM D3974-81, prior to the determination of metals.

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Signatories

Anh Ngoc Huynh
Fung Lim Chee, Richard

Position

Senior Chemist
General Manager

Authorised results for

Organics
Inorganics



Analytical Results

Sub-Matrix: SOIL

Compound	CAS Number	LOR	Client sample ID		T07 - 1.5M	T07 - 3.0M	T07 - 4.5M	T07 - 6.0M
			Client sampling date / time	Unit				
EA/ED: Physical and Aggregate Properties								
EA055: Moisture Content (dried @ 103°C)	----	0.1	%	18.8	15.7	16.7	16.6	
EG: Metals and Major Cations								
EG020: Lead	7439-92-1	1	mg/kg	412	121	93	63	
EP-080: BTEX								
Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	
Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	
meta- & para-Xylene	108-38-3 106-42-3	1.0	mg/kg	<1.0	<1.0	<1.0	<1.0	
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	
EP-071HK: Total Petroleum Hydrocarbons (TPH)								
C6 - C8 Fraction	----	5	mg/kg	<5	<5	<5	<5	
C9 - C16 Fraction	----	200	mg/kg	<200	<200	<200	<200	
C17 - C35 Fraction	----	500	mg/kg	<500	<500	<500	<500	
EP-080S: TPH(Volatile)/BTEX Surrogate								
Dibromofluoromethane	1868-53-7	0.1	%	93.9	98.3	95.0	89.2	
Toluene-D8	2037-26-5	0.1	%	97.2	94.8	102	95.3	
4-Bromofluorobenzene	460-00-4	0.1	%	90.0	87.6	93.9	107	

Surrogate control limits listed at end of this report.



Page Number : 3 of 4
 Client : VIBRO (HK) LTD
 Work Order : HK1012585

Laboratory Duplicate (DUP) Report

Matrix: SOIL		Method: Compound		Laboratory Duplicate (DUP) Report			
Laboratory sample ID	Client sample ID	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and Aggregate Properties (QC Lot: 1377461)							
HK1012579-003	Anonymous	EA055: Moisture Content (dried @ 103°C)	0.1	%	12.3	12.5	1.1
HK1012604-004	Anonymous	EA055: Moisture Content (dried @ 103°C)	0.1	%	24.2	22.5	7.4
EG: Metals and Major Cations (QC Lot: 1380938)							
HK1012579-001	Anonymous	EG020: Lead	1	mg/kg	76	65	16.4
HK1012585-004	T07- 6.0M	EG020: Lead	1	mg/kg	63	65	3.0
EP-080: BTEX (QC Lot: 1377038)							
HK1012579-003	Anonymous	Benzene	0.2	mg/kg	<0.2	<0.2	0.0
		Toluene	0.5	mg/kg	<0.5	<0.5	0.0
		Ethylbenzene	0.5	mg/kg	<0.5	<0.5	0.0
		ortho-Xylene	0.5	mg/kg	<0.5	<0.5	0.0
		meta- & para-Xylene	1.0	mg/kg	<1.0	<1.0	0.0
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1376573)							
HK1012308-003	Anonymous	C9 - C16 Fraction	200	mg/kg	<200	<200	0.0
		C17 - C35 Fraction	500	mg/kg	<500	<500	0.0
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1377038)							
HK1012579-003	Anonymous	C6 - C8 Fraction	5	mg/kg	<5	<5	0.0
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1378563)							
HK1012585-004	T07- 6.0M	C9 - C16 Fraction	200	mg/kg	<200	<200	0.0
		C17 - C35 Fraction	500	mg/kg	<500	<500	0.0

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: SOIL				Method Blank (MB) Report				Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report					
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	LCS	Spike Recovery (%)	DCS	Recovery Limits (%)	Low	High	Value	Control Limit
EG: Metals and Major Cations (QC Lot: 1380938)													
EG020: Lead	7439-92-1	1	mg/kg	<1	5 mg/kg	91.5	85	115	85	115	-----	-----	-----
EP-080: BTEX (QC Lot: 1377038)													
Benzene	71-43-2	0.2	mg/kg	<0.2	0.2 mg/kg	90.3	77	118	77	118	-----	-----	-----
Toluene	108-88-3	0.2	mg/kg	<0.2	0.2 mg/kg	88.8	80	115	80	115	-----	-----	-----
Ethylbenzene	100-41-4	0.2	mg/kg	<0.2	0.2 mg/kg	83.0	77	114	77	114	-----	-----	-----
meta- & para-Xylene	108-38-3	0.4	mg/kg	<0.4	0.4 mg/kg	87.7	74	120	74	120	-----	-----	-----
ortho-Xylene	95-47-6	0.2	mg/kg	<0.2	0.2 mg/kg	75.1	72	115	72	115	-----	-----	-----
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1376573)													
C9 - C16 Fraction	-----	200	mg/kg	<200	31 mg/kg	82.3	57	107	57	107	-----	-----	-----
C17 - C35 Fraction	-----	500	mg/kg	<500	75 mg/kg	72.3	43	106	43	106	-----	-----	-----
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1377038)													
C6 - C8 Fraction	-----	5	mg/kg	<5	3 mg/kg	102	51	147	51	147	-----	-----	-----
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1378563)													
C9 - C16 Fraction	-----	200	mg/kg	<200	31 mg/kg	80.1	57	107	57	107	-----	-----	-----



Page Number : 4 of 4
 Client : VIBRO (HK) LTD
 Work Order : HK1012585

Matrix: SOIL

Method Blank (MB) Report				Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report					
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	Spike Recovery (%)	Recovery Limits (%)	Value	Control Limit
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1378563) - Continued									
C17 - C35 Fraction	500		mg/kg	<500	75 mg/kg	73.3	43	106	

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

Matrix: SOIL

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report					
				Spike Concentration	Spike Recovery (%)	MSD	Recovery Limits (%)	RPD (%)	
EG: Metals and Major Cations (QC Lot: 1380938)									
HK1012576-001	Anonymous	EG020: Lead	7439-92-1	5 mg/kg	86.3		75	125	
EP-080: BTEX (QC Lot: 1377038)									
HK1012579-004	Anonymous	Benzene	71-43-2	0.2 mg/kg	66.2		50	130	
		Toluene	108-88-3	0.2 mg/kg	64.5		50	130	
		Ethylbenzene	100-41-4	0.2 mg/kg	84.4		50	130	
		meta- & para-Xylene	108-38-3	0.4 mg/kg	84.1		50	130	
		ortho-Xylene	106-42-3	0.2 mg/kg	74.2		50	130	
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1376573)									
HK1012404-002	Anonymous	C9 - C16 Fraction		31 mg/kg	61.3		50	130	
		C17 - C35 Fraction		75 mg/kg	74.0		50	130	
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1377038)									
HK1012579-004	Anonymous	C6 - C8 Fraction		3 mg/kg	71.3		50	130	
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1378563)									
HK1012585-003	T07- 4.5M	C9 - C16 Fraction		31 mg/kg	83.1		50	130	
		C17 - C35 Fraction		75 mg/kg	70.2		50	130	

Surrogate Control Limits

Sub-Matrix: SOIL		
Compound	Recovery Limits (%)	
	Low	High
EP-080S: TPH(Volatile)/BTEX Surrogate		
Dibromofluoromethane	1868-53-7	80
Toluene-D8	2037-26-5	81
4-Bromofluorobenzene	460-00-4	74



CERTIFICATE OF ANALYSIS

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Project : J200942E MTR C8016 - ENVIRONMENTAL
TERM CONSULTANCY FOR XRL
Order number : ----
C-O-C number : H009665
Site : MEI LAI ROAD

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Quote number : HK/582a/2010

Page : 1 of 4
Work Order : HK1012593

Date Samples Received : 08-JUN-2010
Issue Date : 23-JUN-2010
No. of samples received : 4
No. of samples analysed : 4

General Comments

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for processing purposes. If the sampling time is displayed as 0:00 the information was not provided by client. The completion date of analysis is: 17-JUN-2010
Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
Specific comments for Work Order: HK1012593

Sample(s) were received in a chilled condition.
Water sample(s) analysed and reported on an as received basis.
Water sample(s) were filtered prior to dissolved metal analysis.

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Signatories

pp Anh Ngoc Huynh
pp Fung Lim Chee, Richard

Position

Senior Chemist
General Manager

Authorised results for

Organics
Inorganics



Page Number : 2 of 4
 Client : VIBRO (HK) LTD
 Work Order : HK1012593

Analytical Results

Sub-Matrix: WATER

Compound	CAS Number	LOR	Client sample ID		T07	EQUIPMENT BLANK	FIELD BLANK	TRIP BLANK
			Client sampling date / time	Unit				
EG: Metals and Major Cations - Filtered								
EG020: Lead	7439-92-1	1	µg/L	-----	<1	<1	-----	
EP-080: BTEX								
Benzene	71-43-2	5	µg/L	<5	<5	<5	<5	
Toluene	108-88-3	5	µg/L	<5	<5	<5	<5	
Ethylbenzene	100-41-4	5	µg/L	<5	<5	<5	<5	
meta- & para-Xylene	108-38-3	10	µg/L	<10	<10	<10	<10	
ortho-Xylene	95-47-6	5	µg/L	<5	<5	<5	<5	
EP-071HK: Total Petroleum Hydrocarbons (TPH)								
C6 - C8 Fraction	-----	20	µg/L	30	-----	-----	<20	
C6 - C8 Fraction	-----	0.02	mg/L	-----	<0.02	<0.02	-----	
C9 - C16 Fraction	-----	500	µg/L	<500	<500	<500	-----	
C17 - C35 Fraction	-----	500	µg/L	<500	<500	<500	-----	
EP-080S: TPH(Volatile)/BTEX Surrogate								Surrogate control limits listed at end of this report.
Dibromofluoromethane	1868-53-7	0.1	%	96.8	89.8	91.6	89.1	
Toluene-D8	2037-26-5	0.1	%	104	98.6	95.6	96.8	
4-Bromofluorobenzene	460-00-4	0.1	%	97.7	97.8	93.3	89.0	



Page Number : 3 of 4
 Client : VIBRO (HK) LTD
 Work Order : HK1012593

Laboratory Duplicate (DUP) Report

Laboratory sample ID		Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
Matrix: WATER									
Laboratory Duplicate (DUP) Report									
EG: Metals and Major Cations - Filtered (QC Lot: 1378289)									
HK1012593-003	FIELD BLANK	EG020: Lead		7439-92-1	1	µg/L	<1	<1	0.0
EP-080: BTEX (QC Lot: 1378584)									
HK1012576-002	Anonymous	meta- & para-Xylene		108-38-3	10	µg/L	<10	<10	0.0
		Benzene		71-43-2	5	µg/L	<5	<5	0.0
		Toluene		108-88-3	5	µg/L	<5	<5	0.0
		Ethylbenzene		100-41-4	5	µg/L	<5	<5	0.0
		ortho-Xylene		95-47-6	5	µg/L	<5	<5	0.0
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1376568)									
HK1012308-001	Anonymous	C9 - C16 Fraction		----	0.5	mg/L	<0.5	<0.5	0.0
		C17 - C35 Fraction		----	0.5	mg/L	<0.5	<0.5	0.0
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1378584)									
HK1012576-002	Anonymous	C6 - C8 Fraction		----	0.02	mg/L	<0.02	<0.02	0.0

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: WATER											
Method Blank (MB) Report											
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	LCS	Spike Recovery (%)	DCS	Recovery Limits (%)	Value	Control Limit
EG: Metals and Major Cations - Filtered (QC Lot: 1378289)											
EG020: Lead	7439-92-1	1	µg/L	<1	100 µg/L	103	----	----	85	115	----
EP-080: BTEX (QC Lot: 1378584)											
Benzene	71-43-2	2	µg/L	----	10 µg/L	82.9	----	----	56	111	----
				<1	----	----	----	----	----	----	----
Toluene	108-88-3	2	µg/L	<2	10 µg/L	87.9	----	----	64	115	----
Ethylbenzene	100-41-4	2	µg/L	<2	10 µg/L	85.1	----	----	67	101	----
meta- & para-Xylene	108-38-3	4	µg/L	<4	20 µg/L	86.2	----	----	84	108	----
ortho-Xylene	95-47-6	2	µg/L	<2	10 µg/L	76.2	----	----	72	100	----
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1376568)											
C9 - C16 Fraction	----	0.5	mg/L	<0.5	0.25 mg/L	70.8	----	----	17	170	----
C17 - C35 Fraction	----	0.5	mg/L	<0.5	0.5 mg/L	77.6	----	----	32	143	----
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1378584)											
C6 - C8 Fraction	----	0.02	mg/L	<0.02	0.15 mg/L	86.7	----	----	68	125	----

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

Matrix: WATER									
Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report									
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Spike Concentration	MS	MSD	Recovery Limits (%)	Value	Control Limit
EG: Metals and Major Cations - Filtered (QC Lot: 1378289)									



Page Number : 4 of 4
 Client : VIBRO (HK) LTD
 Work Order : HK1012593

Matrix: WATER

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report			
				Spike Concentration	Spike Recovery (%)	MSD	RPD (%)
EG: Metals and Major Cations - Filtered (QC Lot: 1378289) - Continued							
HK1012593-002	EQUIPMENT BLANK	EG020: Lead	7439-92-1	100 µg/L	98.8	-----	75
						-----	125
						-----	-----

Surrogate Control Limits

Sub-Matrix: WATER

Compound	CAS Number	Recovery Limits (%)	
		Low	High
EP-080S: TPH(Volatile)/BTX Surrogate			
Dibromofluoromethane	1868-53-7	86	118
Toluene-D8	2037-26-5	88	110
4-Bromofluorobenzene	460-00-4	86	115



CERTIFICATE OF ANALYSIS

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C-O-C number : H009661
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Quote number : HK/582a/2010
Page : 1 of 6
Work Order : HK1012579
Date Samples Received : 03-JUN-2010
Issue Date : 22-JUN-2010
No. of samples received : 6
No. of samples analysed : 6

General Comments

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for processing purposes. If the sampling time is displayed as 0:00 the information was not provided by client. The completion date of analysis is: 17-JUN-2010
Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
Specific comments for Work Order: HK1012579

Sample(s) were received in a chilled condition.

Soil sample(s) analysed on an as received basis. Result(s) reported on a dry weight basis.

Soil sample(s) as received, digested by In-house method E-ASTM D3974-81 based on ASTM D3974-81, prior to the determination of metals.

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This document has been electronically signed by those names that appear on this report and are the authorised signatories. Electronic signing has been carried out in compliance with procedures specified in the Electronic Transactions Ordinance of Hong Kong, Chapter 553, Section 6.

Signatories

PP Anh Ngoc Huynh
Fung Lim Chee, Richard

Position

Senior Chemist
General Manager

Authorised results for

Organics
Inorganics



Page Number : 2 of 6
 Client : VIBRO (HK) LTD
 Work Order : HK1012579

Analytical Results

Sub-Matrix: SOIL

Compound	CAS Number	LOR	Unit	Client sample ID				
				T08- 0.5M	T08- 1.5M	T08- 3.0M	T08- 4.5M	T08- 6.0M
Client sampling date / time				03-JUN-2010 09:33	03-JUN-2010 12:09	03-JUN-2010 13:36	03-JUN-2010 14:16	03-JUN-2010 15:20
LOR				HK1012579-001	HK1012579-002	HK1012579-003	HK1012579-004	HK1012579-005
EA/ED: Physical and Aggregate Properties								
EA055: Moisture Content (dried @ 103°C)	----	0.1	%	12.3	12.8	12.3	25.7	19.2
EG: Metals and Major Cations								
EG020: Lead	7439-92-1	1	mg/kg	76	113	111	193	91
EP-080: BTEX								
Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
meta- & para-Xylene	108-38-3	1.0	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
EP-071HK: Total Petroleum Hydrocarbons (TPH)								
C6 - C8 Fraction	----	5	mg/kg	<5	<5	<5	<5	<5
C9 - C16 Fraction	----	200	mg/kg	<200	<200	<200	<200	<200
C17 - C35 Fraction	----	500	mg/kg	<500	<500	<500	<500	<500
EP-080S: TPH(Volatile)/BTEX Surrogate								
Dibromofluoromethane	1868-53-7	0.1	%	95.5	96.0	95.5	92.8	82.2
Toluene-D8	2037-26-5	0.1	%	98.5	98.2	98.8	97.4	95.7
4-Bromofluorobenzene	460-00-4	0.1	%	86.1	88.8	89.7	89.0	104

Surrogate control limits listed at end of this report.



Page Number : 3 of 6
 Client : VIBRO (HK) LTD
 Work Order : HK1012579

Sub-Matrix: SOIL		Client sample ID		Client sampling date / time	
Compound	CAS Number	LOR	Unit		
EA/ED: Physical and Aggregate Properties					
EA055: Moisture Content (dried @ 103°C)	----	0.1	%	20.0	
EG: Metals and Major Cations					
EG020: Lead	7439-92-1	1	mg/kg	49	
EP-080: BTEX					
Benzene	71-43-2	0.2	mg/kg	<0.2	
Toluene	108-88-3	0.5	mg/kg	<0.5	
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	
meta- & para-Xylene	108-38-3	1.0	mg/kg	<1.0	
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	
EP-071HK: Total Petroleum Hydrocarbons (TPH)					
C6 - C8 Fraction	----	5	mg/kg	<5	
C9 - C16 Fraction	----	200	mg/kg	<200	
C17 - C35 Fraction	----	500	mg/kg	<500	
EP-080S: TPH(Volatile)/BTEX Surrogate					
Dibromofluoromethane	1868-53-7	0.1	%	80.4	
Toluene-D8	2037-26-5	0.1	%	92.7	
4-Bromofluorobenzene	460-00-4	0.1	%	103	

Surrogate control limits listed at end of this report.



Page Number : 4 of 6
 Client : VIBRO (HK) LTD
 Work Order : HK1012579

Laboratory Duplicate (DUP) Report

Laboratory sample ID		Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
Matrix: SOIL									
EAVED: Physical and Aggregate Properties (QC Lot: 1377460)									
HK1012308-003	Anonymous		EA055: Moisture Content (dried @ 103°C)	----	0.1	%	30.1	30.1	0.0
HK1012404-005	Anonymous		EA055: Moisture Content (dried @ 103°C)	----	0.1	%	27.4	27.7	1.0
EAVED: Physical and Aggregate Properties (QC Lot: 1377461)									
HK1012579-003	T08- 3.0M		EA055: Moisture Content (dried @ 103°C)	----	0.1	%	12.3	12.5	1.1
HK1012604-004	Anonymous		EA055: Moisture Content (dried @ 103°C)	----	0.1	%	24.2	22.5	7.4
EG: Metals and Major Cations (QC Lot: 1380938)									
HK1012579-001	T08- 0.5M		EG020: Lead	7439-92-1	1	mg/kg	76	65	16.4
HK1012585-004	Anonymous		EG020: Lead	7439-92-1	1	mg/kg	63	65	3.0
EP-080: BTEX (QC Lot: 1375625)									
HK1011354-003	Anonymous		Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0
			Toluene	108-88-3	0.2	mg/kg	<0.2	<0.2	0.0
			Ethylbenzene	100-41-4	0.2	mg/kg	<0.2	<0.2	0.0
			ortho-Xylene	95-47-6	0.2	mg/kg	<0.2	<0.2	0.0
			meta- & para-Xylene	108-38-3	0.4	mg/kg	<0.4	<0.4	0.0
				106-42-3					
EP-080: BTEX (QC Lot: 1377038)									
HK1012579-003	T08- 3.0M		Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0
			Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0
			Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0
			ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0
			meta- & para-Xylene	108-38-3	1.0	mg/kg	<1.0	<1.0	0.0
				106-42-3					
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1375625)									
HK1011354-003	Anonymous		C6 - C8 Fraction	----	5	mg/kg	<5	<5	0.0
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1376573)									
HK1012308-003	Anonymous		C9 - C16 Fraction	----	200	mg/kg	<200	<200	0.0
			C17 - C35 Fraction	----	500	mg/kg	<500	<500	0.0
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1377038)									
HK1012579-003	T08- 3.0M		C6 - C8 Fraction	----	5	mg/kg	<5	<5	0.0

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Method Blank (MB) Report					Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report				
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	Spike Recovery (%)	DCS	Recovery Limits (%)	RPD (%)
					LCS	Low	High	Value	Control Limit
Matrix: SOIL									
EG: Metals and Major Cations (QC Lot: 1380938)									
EG020: Lead	7439-92-1	1	mg/kg	<1	91.5	85	115	----	----
EP-080: BTEX (QC Lot: 1375625)									
Benzene	71-43-2	0.2	mg/kg	<0.2	95.6	77	118	----	----
Toluene	108-88-3	0.2	mg/kg	<0.2	101	80	115	----	----
Ethylbenzene	100-41-4	0.2	mg/kg	<0.2	90.0	77	114	----	----



Page Number : 5 of 6
 Client : VIBRO (HK) LTD
 Work Order : HK1012579

Matrix: SOIL

Method Blank (MB) Report				Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report					
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	Spike Recovery (%)	Recovery Limits (%)	Value	Control Limit
EP-080: BTEX (QC Lot: 1375625) - Continued									
meta- & para-Xylene	108-38-3	0.4	mg/kg	<0.4	0.4 mg/kg	95.0	74	120	-----
ortho-Xylene	95-47-6	0.2	mg/kg	<0.2	0.2 mg/kg	85.0	72	115	-----
EP-080: BTEX (QC Lot: 1377038)									
Benzene	71-43-2	0.2	mg/kg	<0.2	0.2 mg/kg	90.3	77	118	-----
Toluene	108-88-3	0.2	mg/kg	<0.2	0.2 mg/kg	88.8	80	115	-----
Ethylbenzene	100-41-4	0.2	mg/kg	<0.2	0.2 mg/kg	83.0	77	114	-----
meta- & para-Xylene	108-38-3	0.4	mg/kg	<0.4	0.4 mg/kg	87.7	74	120	-----
ortho-Xylene	95-47-6	0.2	mg/kg	<0.2	0.2 mg/kg	75.1	72	115	-----
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1375625)									
C6 - C8 Fraction	-----	5	mg/kg	<5	3 mg/kg	103	51	147	-----
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1376573)									
C9 - C16 Fraction	-----	200	mg/kg	<200	31 mg/kg	82.3	57	107	-----
C17 - C35 Fraction	-----	500	mg/kg	<500	75 mg/kg	72.3	43	106	-----
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1377038)									
C6 - C8 Fraction	-----	5	mg/kg	<5	3 mg/kg	102	51	147	-----

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

Matrix: SOIL

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Spike Concentration	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report			
					Spike Recovery (%)	Recovery Limits (%)	RPD (%)	
MS	MSD	Low	High	Value	Control Limit			
EG: Metals and Major Cations (QC Lot: 1380938)								
HK1012576-001	Anonymous	EG020: Lead	7439-92-1	5 mg/kg	86.3	75	125	-----
EP-080: BTEX (QC Lot: 1375625)								
HK1011354-007	Anonymous	Benzene	71-43-2	0.2 mg/kg	86.9	50	130	-----
		Toluene	108-88-3	0.2 mg/kg	92.5	50	130	-----
		Ethylbenzene	100-41-4	0.2 mg/kg	83.8	50	130	-----
		meta- & para-Xylene	108-38-3	0.4 mg/kg	91.6	50	130	-----
		ortho-Xylene	106-42-3	0.2 mg/kg	83.1	50	130	-----
EP-080: BTEX (QC Lot: 1377038)								
HK1012579-004	T08- 4-5M	Benzene	71-43-2	0.2 mg/kg	66.2	50	130	-----
		Toluene	108-88-3	0.2 mg/kg	64.5	50	130	-----
		Ethylbenzene	100-41-4	0.2 mg/kg	84.4	50	130	-----
		meta- & para-Xylene	108-38-3	0.4 mg/kg	84.1	50	130	-----
		ortho-Xylene	106-42-3	0.2 mg/kg	74.2	50	130	-----
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1375625)								
HK1011354-007	Anonymous	C6 - C8 Fraction	-----	3 mg/kg	87.9	50	130	-----
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1376573)								



Page Number : 6 of 6
 Client : VIBRO (HK) LTD
 Work Order : HK1012579

Matrix: SOIL

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Spike Concentration	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report			RPD (%)	
					MS	MSD	Recovery Limits (%)		
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1376573) - Continued HK1012404-002	Anonymous	C9 - C16 Fraction	----	31 mg/kg	61.3	----	50	130	----
		C17 - C35 Fraction	----	75 mg/kg	74.0	----	50	130	----
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1377038) HK1012579-004	T08- 4.5M	C6 - C8 Fraction	----	3 mg/kg	71.3	----	50	130	----

Surrogate Control Limits

Compound	CAS Number	Recovery Limits (%)	
		Low	High
Sub-Matrix: SOIL			
EP-080S: TPH(Volatile)/BTEX Surrogate			
Dibromofluoromethane	1868-53-7	80	120
Toluene-D8	2037-26-5	81	117
4-Bromofluorobenzene	460-00-4	74	121

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

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C-O-C number : H009721
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Quote number : HK/582a/2010

Page : 1 of 4
Work Order : HK1012587

Date Samples Received : 07-JUN-2010
Issue Date : 21-JUN-2010
No. of samples received : 2
No. of samples analysed : 2

General Comments

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for processing purposes. If the sampling time is displayed as 0:00 the information was not provided by client. The completion date of analysis is: 17-JUN-2010
Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
Specific comments for Work Order: HK1012587

Sample(s) were received in a chilled condition.
Water sample(s) analysed and reported on an as received basis.

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This document has been electronically signed by those names that appear on this report and are the authorised signatories. Electronic signing has been carried out in compliance with procedures specified in the Electronic Transactions Ordinance of Hong Kong, Chapter 553, Section 6.

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Anh Ngoc Huynh

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Senior Chemist

Authorised results for

Organics

ALS Laboratory Group

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A Campbell Brothers Limited Company



Page Number : 2 of 4
 Client : VIBRO (HK) LTD
 Work Order : HK1012587

Analytical Results

Sub-Matrix: WATER

Compound	Client sample ID		LOR	Unit	T08	TRIP BLANK
	CAS Number	Client sampling date / time				
EP-080: BTEX					05-JUN-2010 13:30 HK1012587-001	HK1012587-002
Benzene	71-43-2		5	µg/L	<5	<5
Toluene	108-88-3		5	µg/L	<5	<5
Ethylbenzene	100-41-4		5	µg/L	<5	<5
meta- & para-Xylene	108-38-3	106-42-3	10	µg/L	<10	<10
ortho-Xylene	95-47-6		5	µg/L	<5	<5
EP-071HK: Total Petroleum Hydrocarbons (TPH)						
C6 - C8 Fraction	----		20	µg/L	<20	<20
C9 - C16 Fraction	----		500	µg/L	<500	----
C17 - C35 Fraction	----		500	µg/L	<500	----
EP-080S: TPH(Volatile)/BTEX Surrogate						Surrogate control limits listed at end of this report.
Dibromofluoromethane	1868-53-7		0.1	%	91.8	97.8
Toluene-D8	2037-26-5		0.1	%	98.8	96.9
4-Bromofluorobenzene	460-00-4		0.1	%	86.7	86.2



Page Number : 3 of 4
 Client : VIBRO (HK) LTD
 Work Order : HK1012587

Laboratory Duplicate (DUP) Report

Matrix: WATER		Method: Compound		Laboratory Duplicate (DUP) Report		
Laboratory sample ID	Client sample ID	CAS Number	Unit	Original Result	Duplicate Result	RPD (%)
EP-080: BTEX (QC Lot: 1378584)	Anonymous	108-38-3	µg/L	<10	<10	0.0
HK1012576-002		106-42-3				
		71-43-2	µg/L	<5	<5	0.0
		108-88-3	µg/L	<5	<5	0.0
		100-41-4	µg/L	<5	<5	0.0
		95-47-6	µg/L	<5	<5	0.0
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1376568)	Anonymous	----	mg/L	<0.5	<0.5	0.0
HK1012308-001		----	mg/L	<0.5	<0.5	0.0
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1378584)	Anonymous	----	mg/L	<0.02	<0.02	0.0
HK1012576-002		----				

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: WATER		Method Blank (MB) Report		Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report					
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	Spike Recovery (%)	Recovery Limits (%)	Value	Control Limit
EP-080: BTEX (QC Lot: 1378584)	71-43-2	2	µg/L	----	10 µg/L	82.9	56 - 111	56	111
Benzene				<1	----	----	----	----	----
Toluene	108-88-3	2	µg/L	<2	10 µg/L	87.9	64 - 115	64	115
Ethylbenzene	100-41-4	2	µg/L	<2	10 µg/L	85.1	67 - 101	67	101
meta- & para-Xylene	108-38-3	4	µg/L	<4	20 µg/L	86.2	84 - 108	84	108
ortho-Xylene	95-47-6	2	µg/L	<2	10 µg/L	76.2	72 - 100	72	100
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1376568)	----	0.5	mg/L	<0.5	0.25 mg/L	70.8	17 - 170	17	170
C9 - C16 Fraction	----	0.5	mg/L	<0.5	0.5 mg/L	77.6	32 - 143	32	143
C17 - C35 Fraction	----	0.02	mg/L	<0.02	0.15 mg/L	86.7	68 - 125	68	125
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1378584)	----	0.02	mg/L	<0.02	----	----	----	----	----
C6 - C8 Fraction	----			----					

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

• No Matrix Spike (MS) or Matrix Spike Duplicate (MSD) Results are required to be reported.

Surrogate Control Limits

Sub-Matrix: WATER		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP-080S: TPH(Volatile)/BTEX Surrogate			
Dibromofluoromethane	1868-53-7	86	118
Toluene-D8	2037-26-5	88	110
4-Bromofluorobenzene	460-00-4	86	115

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Client : VIBRO (HK) LTD
Work Order : HK1012587





CERTIFICATE OF ANALYSIS

Client	: VIBRO (H.K.) LTD	Laboratory	: ALS Technichem HK Pty Ltd	Page	: 1 of 4
Contact	: MR H M CHAN	Contact	: Chan Kwok Fai, Godfrey	Work Order	: HK1013329
Address	: 4/F., 38 SHEUNG ON ST., CHAI WAN HONG KONG	Address	: 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail	: HM_Chan@vibro.com.hk	E-mail	: Godfrey.Chan@alsenviro.com		
Telephone	: 2335 2554	Telephone	: +852 2610 1044		
Facsimile	: ----	Facsimile	: +852 2610 2021		
Project	: J200942E MTR C8016 - ENVIRONMENTAL TERM CONSULTANCY FOR XRL	Quote number	: HK/582a/2010	Date Samples Received	: 17-JUN-2010
Order number	: ----			Issue Date	: 02-JUL-2010
C-O-C number	: H009726			No. of samples received	: 3
Site	: MLW			No. of samples analysed	: 3

General Comments

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for processing purposes. If the sampling time is displayed as 0:00 the information was not provided by client. The completion date of analysis is: 25-JUN-2010
Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
Specific comments for Work Order: HK1013329

Sample(s) were received in a chilled condition.
Water sample(s) analysed and reported on an as received basis.
Water sample(s) were filtered prior to dissolved metal analysis.

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This document has been electronically signed by those names that appear on this report and are the authorised signatories. Electronic signing has been carried out in compliance with procedures specified in the Electronic Transactions Ordinance of Hong Kong, Chapter 553, Section 6.

Signatories

PP Anh Ngoc Huynh
PP Fung Lim Chee, Richard

Position

Senior Chemist
General Manager

Authorised results for

Organics
Inorganics



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 Client : VIBRO (H.K.) LTD
 Work Order : HK1013329

Analytical Results

Compound	CAS Number	LOR	Client sample ID		EQUIPMENT BLANK	FIELD BLANK	TRIP BLANK
			Sub-Matrix: WATER	Client sampling date / time			
EG: Metals and Major Cations - Filtered							
EG020: Lead	7439-92-1	1	<1	<1	HK1013329-001	HK1013329-002	HK1013329-003
EP-080: BTEX							
Benzene	71-43-2	5	<5	<5			<5
Toluene	108-88-3	5	<5	<5			<5
Ethylbenzene	100-41-4	5	<5	<5			<5
meta- & para-Xylene	108-38-3	10	<10	<10			<10
ortho-Xylene	95-47-6	5	<5	<5			<5
EP-071HK: Total Petroleum Hydrocarbons (TPH)							
C6 - C8 Fraction	----	20	<20	<20			<20
C9 - C16 Fraction	----	500	<500	<500			----
C17 - C35 Fraction	----	500	<500	<500			----
EP-080S: TPH(Volatile)/BTEX Surrogate							Surrogate control limits listed at end of this report.
Dibromofluoromethane	1868-53-7	0.1	%	103	109		106
Toluene-D8	2037-26-5	0.1	%	100	102		98.0
4-Bromofluorobenzene	460-00-4	0.1	%	87.2	87.2		88.1



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 Client : VIBRO (H.K.) LTD
 Work Order : HK1013329

Laboratory Duplicate (DUP) Report

Laboratory sample ID		Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
Matrix: WATER									
EG: Metals and Major Cations - Filtered (QC Lot: 1388987)									
HK1013329-002	FIELD BLANK	EG020: Lead		7439-92-1	1	µg/L	<1	<1	0.0
EP-080: BTEX (QC Lot: 1388498)									
HK1013329-001	EQUIPMENT BLANK	meta- & para-Xylene		108-38-3	10	µg/L	<10	<10	0.0
		Benzene		71-43-2	5	µg/L	<5	<5	0.0
		Toluene		108-88-3	5	µg/L	<5	<5	0.0
		Ethylbenzene		100-41-4	5	µg/L	<5	<5	0.0
		ortho-Xylene		95-47-6	5	µg/L	<5	<5	0.0
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1388498)									
HK1013329-001	EQUIPMENT BLANK	C6 - C8 Fraction		----	0.02	mg/L	<0.02	<0.02	0.0

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: WATER											
Method Blank (MB) Report					Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	LCS	Spike Recovery (%)	DCS	Recovery Limits (%)	Value	Control Limit
EG: Metals and Major Cations - Filtered (QC Lot: 1388987)											
EG020: Lead	7439-92-1	1	µg/L	<1	100 µg/L	97.0	85	115	85 - 115	-----	-----
EP-080: BTEX (QC Lot: 1388498)											
Benzene	71-43-2	2	µg/L	-----	10 µg/L	84.7	70	115	70 - 115	-----	-----
Toluene	108-88-3	2	µg/L	<1	10 µg/L	82.3	67	117	67 - 117	-----	-----
Ethylbenzene	100-41-4	2	µg/L	<2	10 µg/L	76.1	76	107	76 - 107	-----	-----
meta- & para-Xylene	108-38-3	4	µg/L	<4	20 µg/L	86.0	77	112	77 - 112	-----	-----
ortho-Xylene	95-47-6	2	µg/L	<2	10 µg/L	70.0	69	109	69 - 109	-----	-----
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1384527)											
C9 - C16 Fraction	----	0.5	mg/L	<0.5	0.25 mg/L	91.6	17	170	17 - 170	-----	-----
C17 - C35 Fraction	----	0.5	mg/L	<0.5	0.5 mg/L	99.2	32	143	32 - 143	-----	-----
EP-071HK: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1388498)											
C6 - C8 Fraction	----	0.5	mg/L	-----	0.15 mg/L	94.0	68	125	68 - 125	-----	-----

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

Matrix: WATER									
Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report					Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report				
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Spike Concentration	MS	MSD	Recovery Limits (%)	Value	Control Limit
EG: Metals and Major Cations - Filtered (QC Lot: 1388987)									
HK1013329-001	EQUIPMENT BLANK	EG020: Lead	7439-92-1	100 µg/L	93.9	75	125	75 - 125	-----

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Client : VIBRO (H.K.) LTD
Work Order : HK1013329



Surrogate Control Limits

Sub-Matrix: WATER

Compound	CAS Number	Recovery Limits (%)	
		Low	High
EP-080S: TPH(Volatile)/BTEX Surrogate			
Dibromofluoromethane	1868-53-7	86	118
Toluene-D8	2037-26-5	88	110
4-Bromofluorobenzene	460-00-4	86	115