KIN WING CONSTRUCTION CO., LTD.

Supplementary Contamination Assessment Report (CAR) for the remaining areas in Radar Station

Contract No. : KL/2008/02

Rev. No. : 3

Effective Date : 10 December 2009

0. Revision Status Sheet

Rev. no.	Effective Date	Summary of Revision
0	09 September 2009	Initial issue
1	22 September 2009	Revision 1
2	02 November 2009	Revision 2
3	10 December 2009	Revision 3

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1.0 Introduction

1.1 Background

1.1.1 The Radar Station was found to be located within the planning boundary of Kai Tak Development and has not been assessed for land contamination in the previous EIA studies and land contamination studies. As commissioned by the Civil Engineering and Development Department (CEDD) to assess the extent of residual land contamination associated with the historical operation of the former Kai Tak Airport under *Agreement No. CE 35/2006(CE) Kai Tak Development Engineering Study cum Design and Construction of Cruise Terminal Advance Works – Investigation, Design and Construction,* a Contamination Assessment Plan (CAP) for the Radar Station (hereinafter called the "Study Area") was prepared. Since the fuel tank room, standby generator room and the transformer room were still in operation at the time of the site investigation, 4 potential contamination hotspots within the buildings could not be completed. Therefore, this supplementary land contamination investigation was carried out to confirm any existence of land contamination at the areas of concerns in accordance with the approved Contamination Assessment Plan (CAP) for Radar Station in Appendix 5.1a of the EIA report (Register No. AEIAR-130/2009) and the Supplementary Sampling Plan for the Remaining Areas in Radar Station in Appendix B of the CAR for Radar Station in Appendix 5.2a of the EIA report.

1.1.2 The CAP which outlined the sampling locations and the testing schedule for site investigation (SI) in the Study Area was approved by Environmental Protection Department (EPD). A total of 4 trial pits have been proposed to supplement the approved CAP and constructed within the building of Radar Station for soil and groundwater sampling and testing.

1.1.3 The SI for land contamination assessment in the Study Area was commenced on 25 August 2009 and completed on 4 September 2009. The trial pits excavation and reinstatement of excavations, were all conducted by Kin Wing Construction Ltd and laboratory analyses were carried out by ALS Laboratory Group.

1.2 Objectives

1.2.1 The objectives of this Contamination assessment Report are to summarize findings of the SI (including fieldworks and laboratory analyses) and to determine the nature and extent of contamination based on the findings of the SI (Section 3). Once contamination is confirmed, remediation proposal suggesting appropriate remediation actions for the contaminated area will be provided.

1.2.2 This CAR is submitted to seek endorsement from the Director of Environmental Protection (DEP) in accordance with Condition 2.6 of Environmental Permit No. EP-339/2009/A.

2.0 Findings of Contamination Assessment Plan

2.1.1 According to the approved CAP, the activities identified at the Study Area are summarized in Table 2.1

Table 2.1 Potential Sources of Land Contamination Identified in the Study Area

Contamination Site Concern	Potential Source of Land Contamination	No. of SI
Standby Generator Room (RSB-03)	- Localized spillage of oils /paints	- 1 trial pit is proposed in this area
Standby Generator Room (RSB-04)	- Mishandling/ Localized spillages of lubricating oils, hydraulic fluid, engine coolants, diesel fuel from maintenance and dismantling of equipment	- 1 trial pit is proposed in this area
Fuel Tank Room (RSB-05)	- Spillage of diesel fuel during refueling/ fueling process	- 1 trial pit is proposed in this area
Transformer Room (RSB-06)	- Spillage from improper handling of Polychlorinated Biphenyls (PCBs)/ transformer fluids	- 1 trial pit is proposed in this area

2.1.2 A total of 3 locations at Standby Generator Room (RSB-03 & RSB-04), Fuel Tank Room (RSB-05) and Transformer Room (RSB-06) were identified as potential land contamination hotspots. The criteria for identification of contamination hotspots were based upon the site observation of stain / ground discolourization, machine / chemical storage locations or areas with contamination activities undertaken.

2.1.3 The concrete floors of sampling locations RSB-05 and RSB-06 were broken up during the site investigation. Large concrete chambers with extents covering the entire transformer room, the standby generator room and fuel tank room were discovered. Visual inspection of the underground chambers (i.e. void between concrete floor slab and top side of the concrete footing) identified no apparent evidence of oil staining and oil leakage. The presence of underground chambers has prevented a direct contact of potential contaminants with the soil underneath. No issue of land contamination is therefore expected and thus no soil sampling was proposed at the proposed sampling locations. However, the underground chambers were filled with small amount of residual water ($2.5m^3$) and no free product was observed on the surfaces of the water. Water samples were then taken for laboratory analysis to confirm findings of the visual inspection. Record photos taken during the site investigation at the underground chambers underneath the fuel tank room and transformer room are presented in Appendix B.

2.1.4 The floor of the Radar Station is well paved with concrete, visual inspection on the floors of the generator room, the fuel tank room and the transformer room also revealed no apparent sign of oil leakage.

3.0 Contamination Assessment for the Radar Station

3.1 Assessment Methodology

Water Sampling

3.1.1 The SI works were carried out from 25 August 2009 to 04 September 2009 at Standby Generator Room (RSB-03 & RSB-04), Fuel Tank Room (RSB-05) and Transformer Room (RSB-06) according to the approved CAP.

3.1.2 Only 2 trial pits were constructed within the Study Area as illustrated in Drawing 2.1. Water samples were collected inside the concrete chambers for trial pits located at RSB-05 and RSB-06 to determine any sign of contamination. As the underground concrete chamber at RSB-05 covers the sampling locations RSB-03 and RSB-04, no soil or water sample was taken RSB-03 and RSB-04.

3.1.3 Prior to sampling, the sampler and all equipment in contact with the water were thoroughly decontaminated by laboratory-grade detergent and steam-cleaning/high-pressure hot water jet.

3.1.4 Water samples were properly labeled and stored in cool boxes at around 4°C until delivered to the analytical laboratory. The collected water samples were analyzed in accordance with the analysis schedules detailed in the approved CAP.

3.2 Assessment Criteria

Criteria for Residual Water Contamination

3.2.1 As no groundwater was encountered during the site investigation, the discharges criteria stipulated in the Water Pollution Control Ordinance (WPCO) has been generally adopted in this Study for assessing the water quality parameters of the residual water found in the underground concrete chambers.

3.3 Analytical Results and Interpretation

Results of Water Analysis

3.3.1 A total of 2 water samples excluding those for QA/QC purpose were collected in the SI for laboratory analysis and the laboratory testing results for the water samples are presented in Appendix A.

3.3.2 The TPH values of the water samples collected at RSB-05 and RSB-06 were 220ug/L and 340ug/L respectively.

Results of QA/QC Analysis

3.3.3 QA/QC is the practice of making sure that collection and analysis techniques provide precise and accurate information. This process is to ensure the 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. In this study, 3 sets of field blank, equipment blank and duplicated water sample were collected and analyzed during the course of sampling. The laboratory results for QA/QC samples are presented in Appendix A.

3.3.4 The laboratory results showed that no detectable TPH were found among the QA/QC samples. QA/QC procedures for sample collection and preparation are therefore considered acceptable.

4.0 Conclusions and Recommendations

4.1 The floor of the Radar Station is well paved with concrete, the concrete floors of sampling locations RSB-05 and RSB-06 were broken up during the site investigation and underneath void chambers were observed from the underneath of the generator room, the fuel tank room and the transformer room. They revealed no apparent sign of oil leakage during visual inspection.

4.2 The presence of underground void chambers has prevented a direct contact of potential contaminants with the soil underneath and no issue of land contamination is therefore expected and thus no soil sampling was proposed at the proposed sampling locations.

4.3 Small amount of residual water was observed (no free product was observed on the top) and water samples were taken for laboratory analysis to confirm findings of the visual inspection.

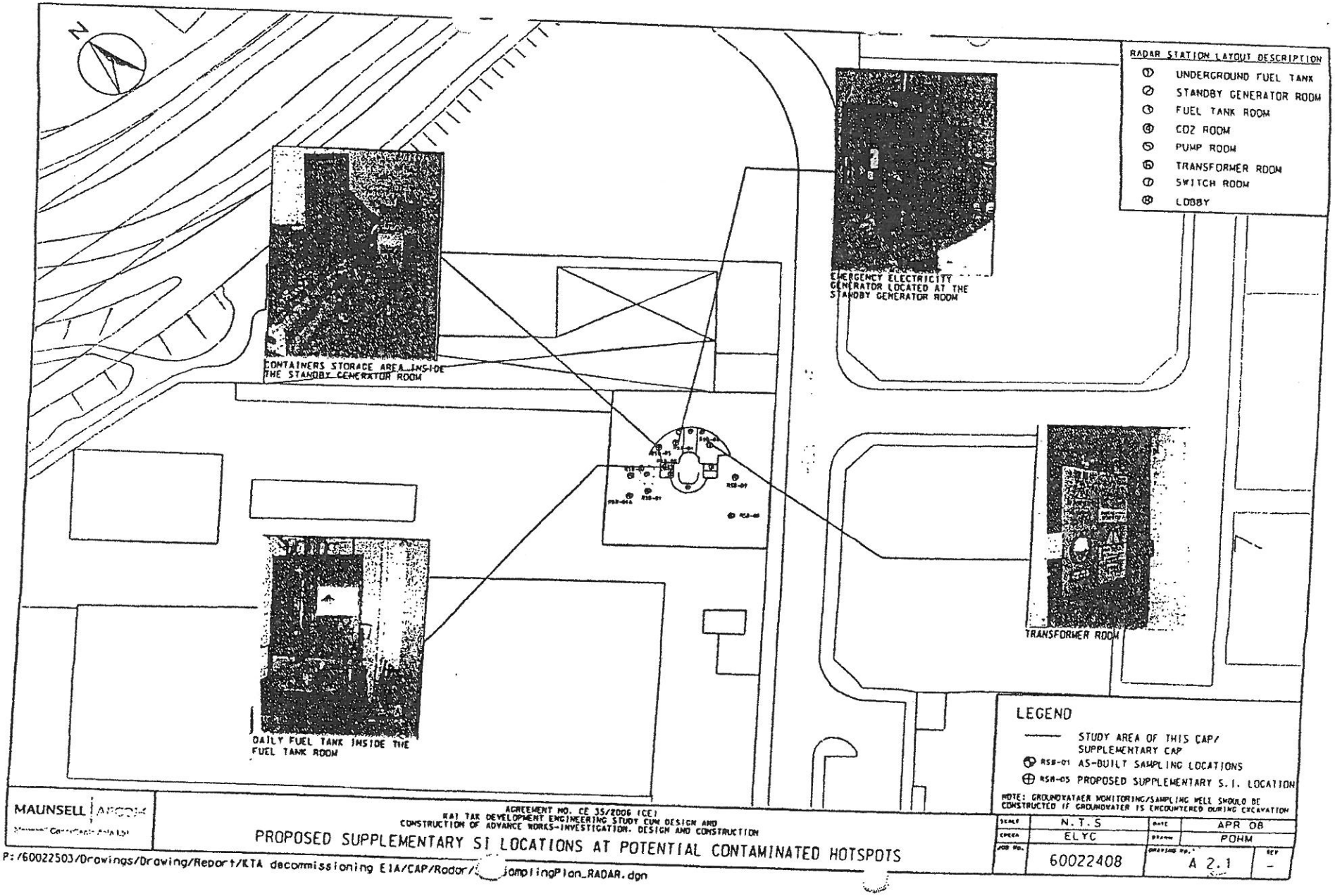
4.4 Based on the results of water samples analysis and visual inspection on site, no significant contamination was found around the area of concerns, and there was no distinctive smell exhibiting signs of contamination was noticeable during the site investigation. Therefore no decontamination work is considered necessary and Remediation Action Plan will not be required.

4.5 As direct discharge of the residual water is not allowed under the WPCO, and in view of the small quantity of the residual water ($2.5m^3$), it is recommended to take a conservative approach to have it collected by a licensed chemical waste collector prior to demolition of the concrete chamber.

Contract No. : KL/2008/02	
Title: Supplementary Contamination Assessment Report (CAR) of the remaining areas in Radar Station	Revision No. : 3 Effective Date : 10 December 09

Drawing A2.1

Proposed Supplementary SI Locations at Potential Contaminated Hotspots



MAUNSELL AECOM

AGREEMENT NO. CE 35/2006 (CE)
KAI TAK DEVELOPMENT ENGINEERING STUDY CUM DESIGN AND CONSTRUCTION OF ADVANCE WORKS-INVESTIGATION, DESIGN AND CONSTRUCTION

PROPOSED SUPPLEMENTARY SI LOCATIONS AT POTENTIAL CONTAMINATED HOTSPOTS

SCALE	N.T.S	DATE	APR 08
CHECK	ELYC	DRAWN	POHM
JOB NO.	60022408	DRAWING NO.	A 2.1
		REV	-

P:/60022503/Drawings/Drawing/Report/KTA decommissioning EIA/CAP/Radar/...SamplingPlan_RADAR.dgn

Appendix A

Laboratory Results

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

CERTIFICATE OF ANALYSIS

Client	: KIN WING CONSTRUCTION COMPANY LIMITED	Laboratory	: ALS Technichem HK Pty Ltd	Page	: 1 of 3
Contact	: MR ERIC WONG	Contact	: Chan Kwok Fai, Godfrey	Work Order	: HK0917896
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Facsimile	: +852 2725 9316	Facsimile	: +852 2610 2021		
Project	: CONTRACT KL_2008_02 DECOMMISSIONING OF KAI TAK AIRPORT	Quote number	: ---	Date Samples Received	: 28-AUG-2009
Order number	: ---			Issue Date	: 09-NOV-2009
C-O-C number	: H006140			No. of samples received	: 1
Site	: ---			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: 31-AUG-2009

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: **HK0917896**

Sample(s) were picked up from client by ALS Technichem (HK) staff in a chilled condition.

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

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	*Position*	*Authorised results for*
Anh Ngoc Huynh	**Senior Chemist**	**Organics**

Analytical Results

Sub-Matrix: WATER

Compound	CAS Number	LOR	Unit	Client sample ID: RSB/05/WATER/27-08-09 Client sampling date / time: [27-AUG-2009] HK0917896-001		
EP-071: Total Petroleum Hydrocarbons (TPH)						
C6 - C9 Fraction	---	20	µg/L	<20		
C10 - C14 Fraction	---	50	µg/L	<50		
C15 - C28 Fraction	---	100	µg/L	<100		
C29 - C36 Fraction	---	50	µg/L	<50		
EP-080S: TPH(Volatile)/BTEX Surrogate						Surrogate control limits listed at end of this report.
Dibromofluoromethane	1868-53-7	0.1	%	86.2		
Toluene-D8	2037-26-5	0.1	%	101		
4-Bromofluorobenzene	460-00-4	0.1	%	86.2		
EP-074S: VOC Surrogates						Surrogate control limits listed at end of this report.
Dibromofluoromethane	1868-53-7	0.1	%	86.2		
Toluene-D8	2037-26-5	0.1	%	101		
4-Bromofluorobenzene	460-00-4	0.1	%	86.2		

Laboratory Duplicate (DUP) Report

Matrix: WATER

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report				
				LOR	Unit	Original Result	Duplicate Result	RPD (%)
EP-071: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1079114)								
HK0917212-001	Anonymous	C6 - C9 Fraction	—	20	µg/L	<20	<20	0.0

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

Matrix: WATER

Method: Compound	CAS Number	Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
					Spike	Spike Recovery (%)		Recovery Limits (%)		RPD (%)	
		LOR	Unit	Result	Concentration	LCS	DCS	Low	High	Value	Control Limit
EP-071: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1079114)											
C6 - C9 Fraction	—	20	µg/L	<20	200 µg/L	88.6	—	79	122	—	—
EP-071: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1086426)											
C10 - C14 Fraction	—	50	µg/L	<50	150 µg/L	86.0	—	37	179	—	—
C15 - C28 Fraction	—	100	µg/L	<100	350 µg/L	77.3	—	50	132	—	—
C29 - C36 Fraction	—	50	µg/L	<50	300 µg/L	72.7	—	24	169	—	—

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

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
EP-074S: VOC Surrogates			
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

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Project	: CONTRACT KL_2008_02 DECOMMISSIONING OF KAI TAK AIRPORT	Quote number	: HK/403b/2008**	Date Samples Received	: 18-SEP-2009
Order number	: ---			Issue Date	: 10-NOV-2009
C-O-C number	: H006110			No. of samples received	: 3
Site	: ---			No. of samples analysed	: 3

General Comments

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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: **HK0919594**

Sample(s) were picked up from client by ALS Technichem (HK) staff 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	*Position*	*Authorised results for*
Anh Ngoc Huynh	**Senior Chemist**	**Organics**

Analytical Results

Sub-Matrix: WATER

Compound	CAS Number	LOR	Unit	Client sample ID: FIELD/RSB-05/27-08-09	EQUIPMENT/RSB-05/27-08-09	DUPLICATED/RSB-05/27-08-09
				Client sampling date / time: [27-AUG-2009]	[27-AUG-2009]	[27-AUG-2009]
				HK0919594-001	HK0919594-002	HK0919594-003
EP-071: Total Petroleum Hydrocarbons (TPH)						
C6 - C9 Fraction	---	20	µg/L	<20	<20	<20
C10 - C14 Fraction	---	50	µg/L	<50	<50	<50
C15 - C28 Fraction	---	100	µg/L	<100	<100	<100
C29 - C36 Fraction	---	50	µg/L	<50	<50	<50
EP-080S: TPH(Volatile)/BTEX Surrogate						
Dibromofluoromethane	1868-53-7	0.1	%	95.5	98.2	94.0
Toluene-D8	2037-26-5	0.1	%	99.2	97.4	96.1
4-Bromofluorobenzene	460-00-4	0.1	%	86.1	86.9	87.8

Surrogate control limits listed at end of this report.

Laboratory Duplicate (DUP) Report

Matrix: WATER

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report				
				LOR	Unit	Original Result	Duplicate Result	RPD (%)
EP-071: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1108835)								
HK0918937-002	Anonymous	C10 - C14 Fraction	---	10	µg/L	10	10	0.0
		C15 - C28 Fraction	---	10	µg/L	100	100	0.0
		C29 - C36 Fraction	---	10	µg/L	50	50	0.0
EP-071: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1109606)								
HK0919594-001	FIELD/RSB-05/27-08-09	C6 - C9 Fraction	---	20	µg/L	<20	<20	0.0

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

Matrix: WATER

Method: Compound	CAS Number	Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
		LOR	Unit	Result	Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPD (%)	
						LCS	DCS	Low	High	Value	Control Limit
EP-071: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1108835)											
C10 - C14 Fraction	---	50	µg/L	<50	150 µg/L	70.2	---	37	179	---	---
C15 - C28 Fraction	---	100	µg/L	<100	350 µg/L	68.2	---	50	132	---	---
C29 - C36 Fraction	---	50	µg/L	<50	300 µg/L	72.4	---	24	169	---	---
EP-071: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1109606)											
C6 - C9 Fraction	---	20	µg/L	<20	200 µg/L	83.2	---	79	122	---	---

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

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

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

CERTIFICATE OF ANALYSIS

Client	: KIN WING CONSTRUCTION COMPANY LIMITED	Laboratory	: ALS Technichem HK Pty Ltd	Page	: 1 of 3
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Project	: CONTRACT KL_2008_02 DECOMMISSIONING OF KAI TAK AIRPORT	Quote number	: ----	Date Samples Received	: 03-SEP-2009
Order number	: ----			Issue Date	: 09-NOV-2009
C-O-C number	: H006101			No. of samples received	: 1
Site	: ----			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: 12-SEP-2009

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: **HK0918460**

Sample(s) were picked up from client by ALS Technichem (HK) staff in a chilled condition.

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

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Signatories	*Position*	*Authorised results for*
Anh Ngoc Huynh	**Senior Chemist**	**Organics**

Analytical Results

Sub-Matrix: WATER

Compound	CAS Number	LOR	Unit	Client sample ID: RSB-06/WATER/02-09-09 Client sampling date / time: [02-SEP-2009] HK0918460-001			
EP-071: Total Petroleum Hydrocarbons (TPH)							
C6 - C9 Fraction	---	20	µg/L	<20			
C10 - C14 Fraction	---	50	µg/L	<50			
C15 - C28 Fraction	---	100	µg/L	200			
C29 - C36 Fraction	---	50	µg/L	70			
EP-080S: TPH(Volatile)/BTEX Surrogate							Surrogate control limits listed at end of this report.
Dibromofluoromethane	1868-53-7	0.1	%	94.6			
Toluene-D8	2037-26-5	0.1	%	97.7			
4-Bromofluorobenzene	460-00-4	0.1	%	92.8			
EP-074S: VOC Surrogates							Surrogate control limits listed at end of this report.
Dibromofluoromethane	1868-53-7	0.1	%	94.6			
Toluene-D8	2037-26-5	0.1	%	97.7			
4-Bromofluorobenzene	460-00-4	0.1	%	92.8			

Laboratory Duplicate (DUP) Report

Matrix: WATER

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report			
				LOR	Unit	Original Result	Duplicate Result	RPD (%)
EP-071: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1091184)								
HK0918196-011	Anonymous	C6 - C9 Fraction	---	20	µg/L	<20	<20	0.0

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

Matrix: WATER

Method: Compound	CAS Number	Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
		LOR	Unit	Result	Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPD (%)	
						LCS	DCS	Low	High	Value	Control Limit
EP-071: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1091184)											
C6 - C9 Fraction	---	20	µg/L	<20	200 µg/L	97.6	---	79	122	---	---
EP-071: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1095601)											
C10 - C14 Fraction	---	50	µg/L	<50	150 µg/L	88.2	---	37	179	---	---
C15 - C28 Fraction	---	100	µg/L	<100	350 µg/L	93.3	---	50	132	---	---
C29 - C36 Fraction	---	50	µg/L	<50	300 µg/L	81.2	---	24	169	---	---

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

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
EP-074S: VOC Surrogates			
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

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ANALYTICAL CHEMISTRY & TESTING SERVICES

CERTIFICATE OF ANALYSIS

Client	: KIN WING CONSTRUCTION COMPANY LIMITED	Laboratory	: ALS Technichem HK Pty Ltd	Page	: 1 of 4
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Facsimile	: +852 2725 9316	Facsimile	: +852 2610 2021		
Project	: CONTRACT KL_2008_02 DECOMMISSIONING OF KAI TAK AIRPORT	Quote number	: HK/403b/2008**	Date Samples Received	: 18-SEP-2009
Order number	: ----			Issue Date	: 10-NOV-2009
C-O-C number	: H006111			No. of samples received	: 3
Site	: ----			No. of samples analysed	: 3

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	*Position*	*Authorised results for*
Anh Ngoc Huynh	**Senior Chemist**	**Organics**

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-SEP-2009

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: **HK0919597**

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

Sample(s) were picked up from client by ALS Technichem (HK) staff in a chilled condition.

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

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

Water sample(s) were filtered prior to dissolved metal analysis.

Analytical Results

Sub-Matrix: WATER

Compound	CAS Number	LOR	Unit	Client sample ID: FIELD/RSB-06/02-09-09	Client sample ID: EQUIPMENT/RSB-06/02-09-09	Client sample ID: DUPLICATED/RSB-06/02-09-09
				Client sampling date / time: [02-SEP-2009]	[02-SEP-2009]	[02-SEP-2009]
				HK0919597-001	HK0919597-002	HK0919597-003
EP-071: Total Petroleum Hydrocarbons (TPH)						
C6 - C9 Fraction	---	20	µg/L	<20	<20	<20
C10 - C14 Fraction	---	50	µg/L	<50	<50	<50
C15 - C28 Fraction	---	100	µg/L	<100	<100	<100
C29 - C36 Fraction	---	50	µg/L	<50	<50	<50
EP-080S: TPH(Volatile)/BTEX Surrogate						
Dibromofluoromethane	1868-53-7	0.1	%	93.3	95.8	98.2
Toluene-D8	2037-26-5	0.1	%	96.4	99.5	97.6
4-Bromofluorobenzene	460-00-4	0.1	%	86.4	91.6	93.1

Surrogate control limits listed at end of this report.

Laboratory Duplicate (DUP) Report

Matrix: WATER

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Laboratory Duplicate (DUP) Report: Original Result	Duplicate Result	RPD (%)
EP-071: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1108835)								
HK0918937-002	Anonymous	C10 - C14 Fraction	---	10	µg/L	10	10	0.0
		C15 - C28 Fraction	---	10	µg/L	100	100	0.0
		C29 - C36 Fraction	---	10	µg/L	50	50	0.0
EP-071: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1109606)								
HK0919594-001	Anonymous	C6 - C9 Fraction	---	20	µg/L	<20	<20	0.0

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

Matrix: WATER

Method: Compound	CAS Number	Method Blank (MB) Report: LOR	Unit	Result	Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report: Spike Concentration	Spike Recovery (%): LCS	DCS	Recovery Limits (%): Low	High	RPD (%): Value	Control Limit
EP-071: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1108835)											
C10 - C14 Fraction	---	50	µg/L	<50	150 µg/L	70.2	---	37	179	---	---
C15 - C28 Fraction	---	100	µg/L	<100	350 µg/L	68.2	---	50	132	---	---
C29 - C36 Fraction	---	50	µg/L	<50	300 µg/L	72.4	---	24	169	---	---
EP-071: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1109606)											
C6 - C9 Fraction	---	20	µg/L	<20	200 µg/L	83.2	---	79	122	---	---

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

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

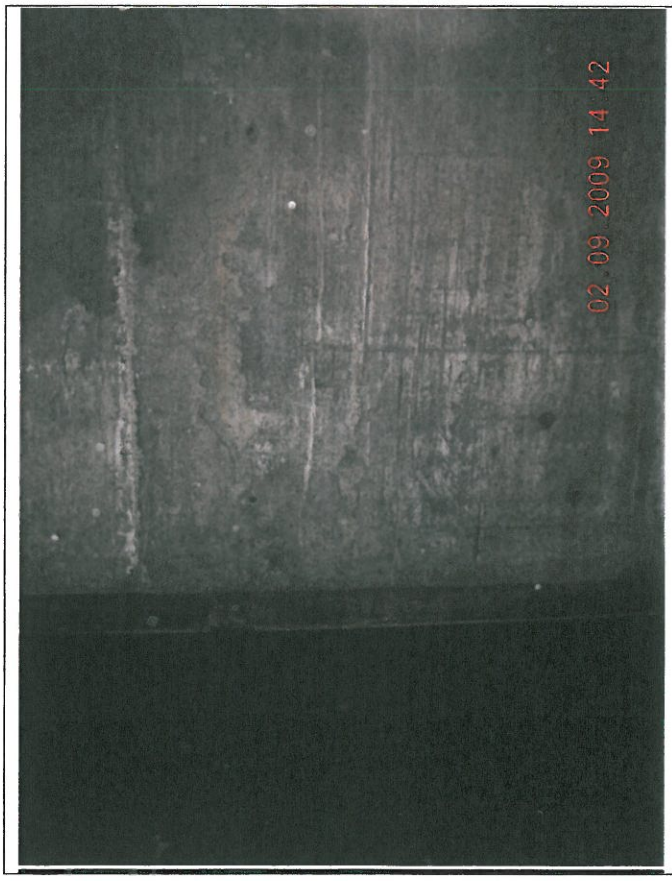
Appendix B

Record Photos at Transformer Room and Generator Room

Contamination Assessment Report for the Radar Station

Record Photos at Transformer Room

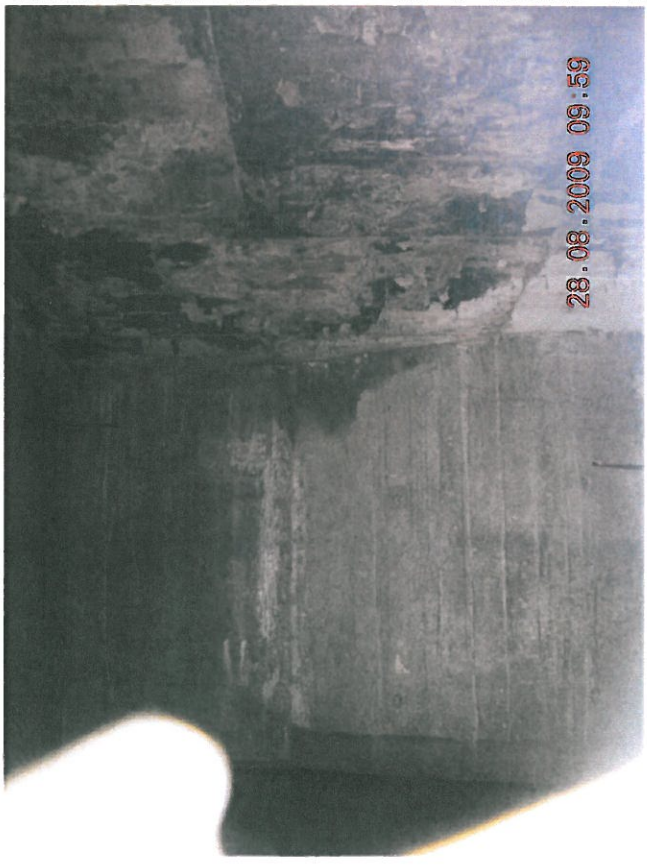
General view of Transformer Room



View Inside Concrete Chamber of Transformer Room

Contamination Assessment Report for the Radar Station

Record Photos at Generator Room

	General view of Generator Room
	View Inside Concrete Chamber of Generator Room