
RESULTS FROM THE CONTRACTOR

CERTIFICATE OF ANALYSIS

Client	: KIN WING CONSTRUCTION COMPANY LIMITED	Laboratory	: ALS Technichem HK Pty Ltd	Page	: 1 of 19
Contact	: MR KAM HUNG LEE	Contact	: Fung Lim Chee, Richard	Work Order	: HK1402237
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Project	: YAU TONG BAY REDEVELOPMENT - LAND DECONTAMINATION WORKS	Quote number	: ----	Date Samples Received	: 20-JAN-2014
Order number	: ----			Issue Date	: 05-FEB-2014
C-O-C number	: H025170-H025175			No. of samples received	: 62
Site	: YAU TONG BAY			No. of samples analysed	: 62

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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

Position

Authorised results for

Anh Ngoc Huynh
Wong Wing, Kenneth

Senior Chemist - Organics
Assistant Supervisor - Metals

Organics
Inorganics



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 sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes. The completion date of analysis is: 27-JAN-2014

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: **HK1402237**

- 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.
- Soil sample(s) analysed on an as received basis. Result(s) reported on a dry weight basis.
- Water sample(s) were filtered prior to dissolved metal analysis.



Analytical Results

Sub-Matrix: SOIL

				Client sample ID	T32E.1/SW/0.75	T32E.2/SW/0.75	T32E.3/SW/0.75	T32E.4/SW/0.75	T32E.5/SW/0.75
				Client sampling date / time	[20-JAN-2014]	[20-JAN-2014]	[20-JAN-2014]	[20-JAN-2014]	[20-JAN-2014]
Compound	CAS Number	LOR	Unit	HK1402237-001	HK1402237-002	HK1402237-003	HK1402237-004	HK1402237-005	
EA/ED: Physical and Aggregate Properties									
EA055: Moisture Content (dried @ 103°C)	----	0.1	%	8.9	4.4	9.0	7.8	13.9	
EP-071_SR: Total Petroleum Hydrocarbons (TPH)									
C6 - C9 Fraction	----	2	mg/kg	<2	<2	<2	<2	<2	
C10 - C14 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50	
C15 - C28 Fraction	----	100	mg/kg	253	224	<100	<100	203	
C29 - C36 Fraction	----	100	mg/kg	145	130	<100	<100	146	
EP-080_SRS: TPH(Volatile)/BTEX Surrogate							Surrogate control limits listed at end of this report.		
Dibromofluoromethane	1868-53-7	0.1	%	96.0	97.3	98.0	97.5	95.9	
Toluene-D8	2037-26-5	0.1	%	99.3	99.6	99.8	99.2	99.2	
4-Bromofluorobenzene	460-00-4	0.1	%	101	102	102	102	102	



Sub-Matrix: SOIL				Client sample ID	T32E.6/SW/0.75	T32E.7/SW/0.75	T32E.8/SW/0.75	T32E.9/SW/0.75	T32E.10/SW/0.75
				Client sampling date / time	[20-JAN-2014]	[20-JAN-2014]	[20-JAN-2014]	[20-JAN-2014]	[20-JAN-2014]
Compound	CAS Number	LOR	Unit	HK1402237-006	HK1402237-007	HK1402237-008	HK1402237-009	HK1402237-010	HK1402237-010
EA/ED: Physical and Aggregate Properties									
EA055: Moisture Content (dried @ 103°C)	----	0.1	%	13.1	9.8	7.9	10.0	6.5	
EP-071_SR: Total Petroleum Hydrocarbons (TPH)									
C6 - C9 Fraction	----	2	mg/kg	<2	<2	<2	<2	<2	
C10 - C14 Fraction	----	50	mg/kg	<50	<50	<50	<50	105	
C15 - C28 Fraction	----	100	mg/kg	123	118	132	151	828	
C29 - C36 Fraction	----	100	mg/kg	101	<100	102	132	686	
EP-080_SRS: TPH(Volatile)/BTEX Surrogate							Surrogate control limits listed at end of this report.		
Dibromofluoromethane	1868-53-7	0.1	%	96.2	96.6	96.2	97.4	97.7	
Toluene-D8	2037-26-5	0.1	%	100	98.9	98.8	99.7	98.5	
4-Bromofluorobenzene	460-00-4	0.1	%	101	101	101	100	102	



Sub-Matrix: SOIL				Client sample ID	T32E.11/SW/0.75	T32E.12/SW/0.75	T32E.13/SW/0.75	T32E.14/SW/0.75	T32E.15/SW/0.75
				Client sampling date / time	[20-JAN-2014]	[20-JAN-2014]	[20-JAN-2014]	[20-JAN-2014]	[20-JAN-2014]
Compound	CAS Number	LOR	Unit	HK1402237-011	HK1402237-012	HK1402237-013	HK1402237-014	HK1402237-015	HK1402237-015
EA/ED: Physical and Aggregate Properties									
EA055: Moisture Content (dried @ 103°C)	----	0.1	%	10.2	9.2	9.6	8.7	8.3	
EP-071_SR: Total Petroleum Hydrocarbons (TPH)									
C6 - C9 Fraction	----	2	mg/kg	<2	<2	<2	<2	<2	
C10 - C14 Fraction	----	50	mg/kg	55	<50	<50	<50	117	
C15 - C28 Fraction	----	100	mg/kg	716	274	173	420	702	
C29 - C36 Fraction	----	100	mg/kg	709	304	240	352	403	
EP-080_SRS: TPH(Volatile)/BTEX Surrogate									
Surrogate control limits listed at end of this report.									
Dibromofluoromethane	1868-53-7	0.1	%	91.7	97.6	96.7	93.1	90.8	
Toluene-D8	2037-26-5	0.1	%	99.9	99.3	98.5	99.2	99.7	
4-Bromofluorobenzene	460-00-4	0.1	%	102	102	101	104	101	



Sub-Matrix: SOIL				Client sample ID	T32E.16/SW/0.75	T32E.17/SW/0.75	T32E.18/SW/0.75	T32E.19/SW/0.75	T32E.20/SW/0.75
				Client sampling date / time	[20-JAN-2014]	[20-JAN-2014]	[20-JAN-2014]	[20-JAN-2014]	[20-JAN-2014]
Compound	CAS Number	LOR	Unit	HK1402237-016	HK1402237-017	HK1402237-018	HK1402237-019	HK1402237-020	HK1402237-020
EA/ED: Physical and Aggregate Properties									
EA055: Moisture Content (dried @ 103°C)	----	0.1	%	10.7	9.7	11.5	13.7	12.0	
EP-071_SR: Total Petroleum Hydrocarbons (TPH)									
C6 - C9 Fraction	----	2	mg/kg	<2	<2	<2	<2	<2	
C10 - C14 Fraction	----	50	mg/kg	<50	141	70	145	<50	
C15 - C28 Fraction	----	100	mg/kg	4720	7790	1420	4660	179	
C29 - C36 Fraction	----	100	mg/kg	3350	4920	948	2280	139	
EP-080_SRS: TPH(Volatile)/BTEX Surrogate									
Surrogate control limits listed at end of this report.									
Dibromofluoromethane	1868-53-7	0.1	%	92.0	98.2	90.4	104	101	
Toluene-D8	2037-26-5	0.1	%	98.4	99.0	99.8	99.5	99.1	
4-Bromofluorobenzene	460-00-4	0.1	%	102	99.9	101	101	101	



Sub-Matrix: SOIL				Client sample ID	T32E.21/SW/0.75	T32E.22/SW/0.75	T32E.23/SW/0.75	T32E.24/SW/0.75	T32E.25/SW/0.75
				Client sampling date / time	[20-JAN-2014]	[20-JAN-2014]	[20-JAN-2014]	[20-JAN-2014]	[20-JAN-2014]
Compound	CAS Number	LOR	Unit	HK1402237-021	HK1402237-022	HK1402237-023	HK1402237-024	HK1402237-025	
EA/ED: Physical and Aggregate Properties									
EA055: Moisture Content (dried @ 103°C)	----	0.1	%	8.0	8.8	8.0	9.5	11.6	
EP-071_SR: Total Petroleum Hydrocarbons (TPH)									
C6 - C9 Fraction	----	2	mg/kg	<2	<2	<2	<2	<2	
C10 - C14 Fraction	----	50	mg/kg	<50	<50	<50	112	<50	
C15 - C28 Fraction	----	100	mg/kg	<100	<100	<100	<100	1140	
C29 - C36 Fraction	----	100	mg/kg	<100	<100	<100	<100	738	
EP-080_SRS: TPH(Volatile)/BTEX Surrogate							Surrogate control limits listed at end of this report.		
Dibromofluoromethane	1868-53-7	0.1	%	90.8	91.6	90.5	91.5	99.1	
Toluene-D8	2037-26-5	0.1	%	99.0	99.7	100	99.4	99.2	
4-Bromofluorobenzene	460-00-4	0.1	%	104	104	102	102	103	



Sub-Matrix: SOIL				Client sample ID	T32E.26/SW/0.75	T32E.27/SW/0.75	T32E.28/SW/0.75	T32E.29/SW/0.75	T32E.30/SW/0.75
				Client sampling date / time	[20-JAN-2014]	[20-JAN-2014]	[20-JAN-2014]	[20-JAN-2014]	[20-JAN-2014]
Compound	CAS Number	LOR	Unit	HK1402237-026	HK1402237-027	HK1402237-028	HK1402237-029	HK1402237-030	HK1402237-030
EA/ED: Physical and Aggregate Properties									
EA055: Moisture Content (dried @ 103°C)	----	0.1	%	12.8	13.2	13.2	17.0	12.2	
EP-071_SR: Total Petroleum Hydrocarbons (TPH)									
C6 - C9 Fraction	----	2	mg/kg	<2	<2	<2	<2	<2	
C10 - C14 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50	
C15 - C28 Fraction	----	100	mg/kg	1030	301	230	143	1200	
C29 - C36 Fraction	----	100	mg/kg	737	246	225	<100	732	
EP-080_SRS: TPH(Volatile)/BTEX Surrogate							Surrogate control limits listed at end of this report.		
Dibromofluoromethane	1868-53-7	0.1	%	97.2	91.6	93.5	98.1	94.4	
Toluene-D8	2037-26-5	0.1	%	100	100	100	99.0	99.2	
4-Bromofluorobenzene	460-00-4	0.1	%	103	104	101	104	101	



Sub-Matrix: SOIL				Client sample ID	T32E.31/SW/0.75	T32E.32/SW/0.75	T32E.33/SW/0.75	T32E.34/SW/0.75	T32E.35/SW/0.75
				Client sampling date / time	[20-JAN-2014]	[20-JAN-2014]	[20-JAN-2014]	[20-JAN-2014]	[20-JAN-2014]
Compound	CAS Number	LOR	Unit	HK1402237-031	HK1402237-032	HK1402237-033	HK1402237-034	HK1402237-035	
EA/ED: Physical and Aggregate Properties									
EA055: Moisture Content (dried @ 103°C)	----	0.1	%	11.0	10.6	11.9	14.4	11.3	
EP-071_SR: Total Petroleum Hydrocarbons (TPH)									
C6 - C9 Fraction	----	2	mg/kg	<2	<2	<2	<2	<2	
C10 - C14 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50	
C15 - C28 Fraction	----	100	mg/kg	908	812	398	5100	476	
C29 - C36 Fraction	----	100	mg/kg	530	472	248	3630	304	
EP-080_SRS: TPH(Volatile)/BTEX Surrogate									
Surrogate control limits listed at end of this report.									
Dibromofluoromethane	1868-53-7	0.1	%	93.5	99.5	91.0	101	90.9	
Toluene-D8	2037-26-5	0.1	%	98.9	100	100	99.8	99.5	
4-Bromofluorobenzene	460-00-4	0.1	%	102	101	103	104	103	



Sub-Matrix: SOIL				Client sample ID	T32E.36/SW/0.75	T32E.37/SW/0.75	T32E.38/SW/0.75	T32E.39/SW/0.75	T32E.40/SW/0.75
				Client sampling date / time	[20-JAN-2014]	[20-JAN-2014]	[20-JAN-2014]	[20-JAN-2014]	[20-JAN-2014]
Compound	CAS Number	LOR	Unit	HK1402237-036	HK1402237-037	HK1402237-038	HK1402237-039	HK1402237-040	
EA/ED: Physical and Aggregate Properties									
EA055: Moisture Content (dried @ 103°C)	----	0.1	%	8.8	9.8	16.4	16.3	13.7	
EP-071_SR: Total Petroleum Hydrocarbons (TPH)									
C6 - C9 Fraction	----	2	mg/kg	<2	<2	<2	<2	<2	
C10 - C14 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50	
C15 - C28 Fraction	----	100	mg/kg	359	1300	<100	<100	<100	
C29 - C36 Fraction	----	100	mg/kg	211	912	<100	<100	<100	
EP-080_SRS: TPH(Volatile)/BTEX Surrogate							Surrogate control limits listed at end of this report.		
Dibromofluoromethane	1868-53-7	0.1	%	91.9	93.8	91.3	91.9	93.1	
Toluene-D8	2037-26-5	0.1	%	98.8	99.7	99.1	98.6	100	
4-Bromofluorobenzene	460-00-4	0.1	%	104	106	103	104	103	



Sub-Matrix: SOIL				Client sample ID	T32E.41/SW/0.75	T32E.42/SW/0.75	T32E.43/SW/0.75	T32E.44/SW/0.75	T32E.45/SW/0.75
				Client sampling date / time	[20-JAN-2014]	[20-JAN-2014]	[20-JAN-2014]	[20-JAN-2014]	[20-JAN-2014]
Compound	CAS Number	LOR	Unit	HK1402237-041	HK1402237-042	HK1402237-043	HK1402237-044	HK1402237-045	HK1402237-045
EA/ED: Physical and Aggregate Properties									
EA055: Moisture Content (dried @ 103°C)	----	0.1	%	11.1	14.9	10.1	9.4	8.2	
EP-071_SR: Total Petroleum Hydrocarbons (TPH)									
C6 - C9 Fraction	----	2	mg/kg	<2	<2	<2	<2	<2	
C10 - C14 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50	
C15 - C28 Fraction	----	100	mg/kg	<100	<100	327	371	334	
C29 - C36 Fraction	----	100	mg/kg	<100	<100	254	203	109	
EP-080_SRS: TPH(Volatile)/BTEX Surrogate									
Surrogate control limits listed at end of this report.									
Dibromofluoromethane	1868-53-7	0.1	%	92.1	91.9	91.9	93.3	95.8	
Toluene-D8	2037-26-5	0.1	%	99.4	101	99.1	99.2	100	
4-Bromofluorobenzene	460-00-4	0.1	%	104	103	103	102	102	



Sub-Matrix: SOIL				Client sample ID	T32E.46/SW/0.75	T32E.47/SW/0.75	T32E.48/SW/0.75	T32E.49/SW/0.75	T32E.50/SW/0.75
				Client sampling date / time	[20-JAN-2014]	[20-JAN-2014]	[20-JAN-2014]	[20-JAN-2014]	[20-JAN-2014]
Compound	CAS Number	LOR	Unit	HK1402237-046	HK1402237-047	HK1402237-048	HK1402237-049	HK1402237-050	
EA/ED: Physical and Aggregate Properties									
EA055: Moisture Content (dried @ 103°C)	----	0.1	%	9.0	10.9	13.6	13.2	9.5	
EP-071_SR: Total Petroleum Hydrocarbons (TPH)									
C6 - C9 Fraction	----	2	mg/kg	<2	<2	<2	<2	<2	
C10 - C14 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50	
C15 - C28 Fraction	----	100	mg/kg	105	123	107	111	286	
C29 - C36 Fraction	----	100	mg/kg	<100	<100	<100	<100	224	
EP-080_SRS: TPH(Volatile)/BTEX Surrogate							Surrogate control limits listed at end of this report.		
Dibromofluoromethane	1868-53-7	0.1	%	92.7	90.8	90.6	90.4	89.8	
Toluene-D8	2037-26-5	0.1	%	100	98.8	99.8	99.8	99.6	
4-Bromofluorobenzene	460-00-4	0.1	%	103	104	102	104	103	



Sub-Matrix: SOIL				Client sample ID	T32E.51/SW/0.75	T32E.52/SW/0.75	T32E.53/SW/0.75	T32E.54/SW/0.75	T32E.55/SW/0.75
				Client sampling date / time	[20-JAN-2014]	[20-JAN-2014]	[20-JAN-2014]	[20-JAN-2014]	[20-JAN-2014]
Compound	CAS Number	LOR	Unit	HK1402237-051	HK1402237-052	HK1402237-053	HK1402237-054	HK1402237-055	HK1402237-055
EA/ED: Physical and Aggregate Properties									
EA055: Moisture Content (dried @ 103°C)	----	0.1	%	7.4	13.5	13.5	10.9	7.2	
EP-071_SR: Total Petroleum Hydrocarbons (TPH)									
C6 - C9 Fraction	----	2	mg/kg	<2	<2	<2	<2	<2	
C10 - C14 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50	
C15 - C28 Fraction	----	100	mg/kg	266	<100	<100	<100	272	
C29 - C36 Fraction	----	100	mg/kg	253	<100	<100	<100	156	
EP-080_SRS: TPH(Volatile)/BTEX Surrogate							Surrogate control limits listed at end of this report.		
Dibromofluoromethane	1868-53-7	0.1	%	93.9	91.1	93.1	91.7	91.1	
Toluene-D8	2037-26-5	0.1	%	100	99.6	99.4	99.3	98.7	
4-Bromofluorobenzene	460-00-4	0.1	%	103	104	103	103	103	



Sub-Matrix: SOIL				Client sample ID	T32E.56/SW/0.75	T32E.57/SW/0.75	T32E.58/SW/0.75		
				Client sampling date / time	[20-JAN-2014]	[20-JAN-2014]	[20-JAN-2014]		
Compound	CAS Number	LOR	Unit	HK1402237-056	HK1402237-057	HK1402237-058			
EA/ED: Physical and Aggregate Properties									
EA055: Moisture Content (dried @ 103°C)	----	0.1	%	8.1	8.6	8.2			
EP-071_SR: Total Petroleum Hydrocarbons (TPH)									
C6 - C9 Fraction	----	2	mg/kg	<2	<2	<2			
C10 - C14 Fraction	----	50	mg/kg	<50	<50	<50			
C15 - C28 Fraction	----	100	mg/kg	284	308	208			
C29 - C36 Fraction	----	100	mg/kg	169	154	145			
EP-080_SRS: TPH(Volatile)/BTEX Surrogate							Surrogate control limits listed at end of this report.		
Dibromofluoromethane	1868-53-7	0.1	%	90.9	90.8	89.9			
Toluene-D8	2037-26-5	0.1	%	100	99.2	98.9			
4-Bromofluorobenzene	460-00-4	0.1	%	103	103	102			



Sub-Matrix: WATER				Client sample ID	EB12	FB12	EB13	FB13	
				Client sampling date / time	[20-JAN-2014]	[20-JAN-2014]	[20-JAN-2014]	[20-JAN-2014]	
Compound	CAS Number	LOR	Unit	HK1402237-059	HK1402237-060	HK1402237-061	HK1402237-062		
EG: Metals and Major Cations - Filtered									
EG020: Copper	7440-50-8	1	µg/L	<1	<1	----	----		
EG020: Lead	7439-92-1	1	µg/L	<1	<1	----	----		
EP-071_SR: Total Petroleum Hydrocarbons (TPH)									
C6 - C9 Fraction	----	20	µg/L	<20	<20	<20	<20		
C10 - C14 Fraction	----	50	µg/L	<50	<50	<50	<50		
C15 - C28 Fraction	----	100	µg/L	<100	<100	<100	<100		
C29 - C36 Fraction	----	50	µg/L	<50	<50	<50	<50		
EP-080_SRS: TPH(Volatile)/BTEX Surrogate								Surrogate control limits listed at end of this report.	
Dibromofluoromethane	1868-53-7	0.1	%	97.5	94.9	95.4	97.1		
Toluene-D8	2037-26-5	0.1	%	102	104	102	104		
4-Bromofluorobenzene	460-00-4	0.1	%	109	108	109	108		



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: 3262970)								
HK1402237-001	T32E.1/SW/0.75	EA055: Moisture Content (dried @ 103°C)	----	0.1	%	8.9	7.8	12.9
HK1402237-011	T32E.11/SW/0.75	EA055: Moisture Content (dried @ 103°C)	----	0.1	%	10.2	10.1	1.2
EA/ED: Physical and Aggregate Properties (QC Lot: 3262971)								
HK1402237-021	T32E.21/SW/0.75	EA055: Moisture Content (dried @ 103°C)	----	0.1	%	8.0	8.1	0.0
HK1402237-031	T32E.31/SW/0.75	EA055: Moisture Content (dried @ 103°C)	----	0.1	%	11.0	11.1	1.5
EA/ED: Physical and Aggregate Properties (QC Lot: 3262972)								
HK1402237-041	T32E.41/SW/0.75	EA055: Moisture Content (dried @ 103°C)	----	0.1	%	11.1	13.3	18.4
HK1402237-051	T32E.51/SW/0.75	EA055: Moisture Content (dried @ 103°C)	----	0.1	%	7.4	7.6	3.2
EP-071_SR: Total Petroleum Hydrocarbons (TPH) (QC Lot: 3261588)								
HK1402237-001	T32E.1/SW/0.75	C15 - C28 Fraction	----	100	mg/kg	253	316	22.4
		C29 - C36 Fraction	----	100	mg/kg	145	179	21.4
		C10 - C14 Fraction	----	50	mg/kg	<50	<50	0.0
EP-071_SR: Total Petroleum Hydrocarbons (TPH) (QC Lot: 3261589)								
HK1402237-021	T32E.21/SW/0.75	C15 - C28 Fraction	----	100	mg/kg	<100	<100	0.0
		C29 - C36 Fraction	----	100	mg/kg	<100	<100	0.0
		C10 - C14 Fraction	----	50	mg/kg	<50	<50	0.0
EP-071_SR: Total Petroleum Hydrocarbons (TPH) (QC Lot: 3261592)								
HK1402237-041	T32E.41/SW/0.75	C15 - C28 Fraction	----	100	mg/kg	<100	<100	0.0
		C29 - C36 Fraction	----	100	mg/kg	<100	<100	0.0
		C10 - C14 Fraction	----	50	mg/kg	<50	<50	0.0
EP-071_SR: Total Petroleum Hydrocarbons (TPH) (QC Lot: 3261598)								
HK1402237-001	T32E.1/SW/0.75	C6 - C9 Fraction	----	2	mg/kg	<2	<2	0.0
EP-071_SR: Total Petroleum Hydrocarbons (TPH) (QC Lot: 3261599)								
HK1402237-021	T32E.21/SW/0.75	C6 - C9 Fraction	----	2	mg/kg	<2	<2	0.0
EP-071_SR: Total Petroleum Hydrocarbons (TPH) (QC Lot: 3261600)								
HK1402237-041	T32E.41/SW/0.75	C6 - C9 Fraction	----	2	mg/kg	<2	<2	0.0
Matrix: WATER				Laboratory Duplicate (DUP) Report				
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
EG: Metals and Major Cations - Filtered (QC Lot: 3262956)								
HK1401904-002	Anonymous	EG020: Copper	7440-50-8	1	µg/L	14	15	0.0
		EG020: Lead	7439-92-1	1	µg/L	<1	<1	0.0
EP-071_SR: Total Petroleum Hydrocarbons (TPH) (QC Lot: 3259304)								
HK1402040-001	Anonymous	C6 - C9 Fraction	----	10	µg/L	<10	<10	0.0
EP-071_SR: Total Petroleum Hydrocarbons (TPH) (QC Lot: 3259612)								
HK1402040-003	Anonymous	C10 - C14 Fraction	----	10	µg/L	<10	<10	0.0
		C15 - C28 Fraction	----	10	µg/L	22	20	7.0
		C29 - C36 Fraction	----	10	µg/L	<10	<10	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 (%)		Recovery Limits (%)		RPD (%)		
						LCS	DCS	Low	High	Value	Control Limit	
EP-071_SR: Total Petroleum Hydrocarbons (TPH) (QC Lot: 3261588)												
C10 - C14 Fraction	----	50	mg/kg	<50	22.5 mg/kg	94.2	----	31	125	----	----	
C15 - C28 Fraction	----	100	mg/kg	<100	52.5 mg/kg	109	----	28	116	----	----	
C29 - C36 Fraction	----	100	mg/kg	<100	52.5 mg/kg	56.0	----	6	108	----	----	
EP-071_SR: Total Petroleum Hydrocarbons (TPH) (QC Lot: 3261589)												
C10 - C14 Fraction	----	50	mg/kg	<50	22.5 mg/kg	95.5	----	31	125	----	----	
C15 - C28 Fraction	----	100	mg/kg	<100	52.5 mg/kg	78.5	----	28	116	----	----	
C29 - C36 Fraction	----	100	mg/kg	<100	52.5 mg/kg	56.0	----	6	108	----	----	
EP-071_SR: Total Petroleum Hydrocarbons (TPH) (QC Lot: 3261592)												
C10 - C14 Fraction	----	50	mg/kg	<50	22.5 mg/kg	86.3	----	31	125	----	----	
C15 - C28 Fraction	----	100	mg/kg	<100	52.5 mg/kg	66.0	----	28	116	----	----	
C29 - C36 Fraction	----	100	mg/kg	<100	52.5 mg/kg	37.5	----	6	108	----	----	
EP-071_SR: Total Petroleum Hydrocarbons (TPH) (QC Lot: 3261598)												
C6 - C9 Fraction	----	2	mg/kg	<2	6 mg/kg	100	----	58	127	----	----	
EP-071_SR: Total Petroleum Hydrocarbons (TPH) (QC Lot: 3261599)												
C6 - C9 Fraction	----	2	mg/kg	<2	6 mg/kg	98.3	----	58	127	----	----	
EP-071_SR: Total Petroleum Hydrocarbons (TPH) (QC Lot: 3261600)												
C6 - C9 Fraction	----	2	mg/kg	<2	6 mg/kg	91.8	----	58	127	----	----	

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 (%)		RPD (%)		
						LCS	DCS	Low	High	Value	Control Limit	
EG: Metals and Major Cations - Filtered (QC Lot: 3262956)												
EG020: Copper	7440-50-8	1	µg/L	<1	100 µg/L	102	----	79	113	----	----	
EG020: Lead	7439-92-1	1	µg/L	<1	100 µg/L	98.6	----	82	108	----	----	
EP-071_SR: Total Petroleum Hydrocarbons (TPH) (QC Lot: 3259304)												
C6 - C9 Fraction	----	20	µg/L	<20	40 µg/L	88.6	----	65	123	----	----	
EP-071_SR: Total Petroleum Hydrocarbons (TPH) (QC Lot: 3259612)												
C10 - C14 Fraction	----	50	µg/L	<50	150 µg/L	54.9	----	15	96	----	----	
C15 - C28 Fraction	----	100	µg/L	<100	350 µg/L	52.6	----	13	122	----	----	
C29 - C36 Fraction	----	50	µg/L	<50	350 µg/L	36.3	----	11	111	----	----	



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	Spike Recovery (%)		Recovery Limits (%)		RPD (%)	
					MS	MSD	Low	High	Value	Control Limit
EP-071_SR: Total Petroleum Hydrocarbons (TPH) (QC Lot: 3261588)										
HK1402237-002	T32E.2/SW/0.75	C10 - C14 Fraction	----	22.5 mg/kg	71.9	----	50	130	----	----
		C15 - C28 Fraction	----	53 mg/kg	-	----	50	130	----	----
		C29 - C36 Fraction	----	52.5 mg/kg	65.4	----	50	130	----	----
EP-071_SR: Total Petroleum Hydrocarbons (TPH) (QC Lot: 3261589)										
HK1402237-022	T32E.22/SW/0.75	C10 - C14 Fraction	----	22.5 mg/kg	115	----	50	130	----	----
		C15 - C28 Fraction	----	53 mg/kg	122	----	50	130	----	----
		C29 - C36 Fraction	----	52.5 mg/kg	89.8	----	50	130	----	----
EP-071_SR: Total Petroleum Hydrocarbons (TPH) (QC Lot: 3261592)										
HK1402237-042	T32E.42/SW/0.75	C10 - C14 Fraction	----	22.5 mg/kg	80.8	----	50	130	----	----
		C15 - C28 Fraction	----	52.5 mg/kg	91.0	----	50	130	----	----
		C29 - C36 Fraction	----	52.5 mg/kg	81.2	----	50	130	----	----
EP-071_SR: Total Petroleum Hydrocarbons (TPH) (QC Lot: 3261598)										
HK1402237-002	T32E.2/SW/0.75	C6 - C9 Fraction	----	6 mg/kg	93.6	----	50	130	----	----
EP-071_SR: Total Petroleum Hydrocarbons (TPH) (QC Lot: 3261599)										
HK1402237-022	T32E.22/SW/0.75	C6 - C9 Fraction	----	6 mg/kg	91.7	----	50	130	----	----
EP-071_SR: Total Petroleum Hydrocarbons (TPH) (QC Lot: 3261600)										
HK1402237-042	T32E.42/SW/0.75	C6 - C9 Fraction	----	6 mg/kg	94.4	----	50	130	----	----

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 (%)		Recovery Limits (%)		RPD (%)	
					MS	MSD	Low	High	Value	Control Limit
EG: Metals and Major Cations - Filtered (QC Lot: 3262956)										
HK1401904-001	Anonymous	EG020: Copper	7440-50-8	100 µg/L	110	----	75	125	----	----
		EG020: Lead	7439-92-1	100 µg/L	92.2	----	75	125	----	----

Surrogate Control Limits

Sub-Matrix: SOIL		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP-080_SRS: 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		Recovery Limits (%)	
Compound	CAS Number	Low	High



Sub-Matrix: WATER		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP-080_SRS: 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	: KIN WING CONSTRUCTION COMPANY LIMITED	Laboratory	: ALS Technichem HK Pty Ltd	Page	: 1 of 3
Contact	: MR KAM HUNG LEE	Contact	: Fung Lim Chee, Richard	Work Order	: HK1402572
Address	: FLAT A, BLOCK 2, 6/F., KIN HO INDUSTRIAL BUILDING, 14-24 AU PUI WAN STREET, FOTAN, SHATIN, N.T. HONG KONG	Address	: 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail	: khlee425@yahoo.com.hk	E-mail	: Richard.Fung@alsglobal.com		
Telephone	: +852 2785 8152	Telephone	: +852 2610 1044		
Facsimile	: +852 2725 9316	Facsimile	: +852 2610 2021		
Project	: YAU TONG BAY REDEVELOPMENT - LAND DECONTAMINATION WORKS	Quote number	: ----	Date Samples Received	: 23-JAN-2014
Order number	: ----			Issue Date	: 10-FEB-2014
C-O-C number	: H025178			No. of samples received	: 1
Site	: YAU TONG BAY			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 sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes. The completion date of analysis is: 30-JAN-2014

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: **HK1402572**

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.

Soil sample(s) as received, digested by In-house method E-ASTM D3974-09 based on ASTM D3974-09, prior to 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

Position

Authorised results for

Wong Wing, Kenneth

Assistant Supervisor - Metals

Inorganics



Analytical Results

Sub-Matrix: SOIL				Client sample ID	T32E.4A.3/SW/1.5				
				Client sampling date / time	[23-JAN-2014]				
Compound	CAS Number	LOR	Unit	HK1402572-001					
EA/ED: Physical and Aggregate Properties									
EA055: Moisture Content (dried @ 103°C)	----	0.1	%	18.1					
EG: Metals and Major Cations									
EG020: Lead	7439-92-1	1	mg/kg	96					



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: 3272684)								
HK1402531-004	Anonymous	EA055: Moisture Content (dried @ 103°C)	----	0.1	%	12.9	11.3	13.3
HK1402619-004	Anonymous	EA055: Moisture Content (dried @ 103°C)	----	0.1	%	16.8	16.3	3.0
EG: Metals and Major Cations (QC Lot: 3268318)								
HK1402576-001	Anonymous	EG020: Lead	7439-92-1	1	mg/kg	4	4	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 (%)		Recovery Limits (%)		RPD (%)	
						LCS	DCS	Low	High	Value	Control Limit
EG: Metals and Major Cations (QC Lot: 3268318)											
EG020: Lead	7439-92-1	1	mg/kg	<1	5 mg/kg	92.5	----	80	104	----	----

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	Spike Recovery (%)		Recovery Limits (%)		RPD (%)	
					MS	MSD	Low	High	Value	Control Limit
EG: Metals and Major Cations (QC Lot: 3268318)										
HK1402572-001	T32E.4A.3/SW/1.5	EG020: Lead	7439-92-1	5 mg/kg	# Not Determined	----	75	125	----	----

CERTIFICATE OF ANALYSIS

Client	: KIN WING CONSTRUCTION COMPANY LIMITED	Laboratory	: ALS Technichem HK Pty Ltd	Page	: 1 of 12
Contact	: MR KAM HUNG LEE	Contact	: Fung Lim Chee, Richard	Work Order	: HK1402625
Address	: FLAT A, BLOCK 2, 6/F., KIN HO INDUSTRIAL BUILDING, 14-24 AU PUI WAN STREET, FOTAN, SHATIN, N.T. HONG KONG	Address	: 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail	: khlee425@yahoo.com.hk	E-mail	: Richard.Fung@alsglobal.com		
Telephone	: +852 2785 8152	Telephone	: +852 2610 1044		
Facsimile	: +852 2725 9316	Facsimile	: +852 2610 2021		
Project	: YAU TONG BAY REDEVELOPMENT - LAND DECONTAMINATION WORKS	Quote number	: ----	Date Samples Received	: 24-JAN-2014
Order number	: ----			Issue Date	: 11-FEB-2014
C-O-C number	: H025180-H025182			No. of samples received	: 33
Site	: YAU TONG BAY			No. of samples analysed	: 33

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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

Position

Authorised results for

Anh Ngoc Huynh
Wong Wing, Kenneth

Senior Chemist - Organics
Assistant Supervisor - Metals

Organics
Inorganics



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 sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes. The completion date of analysis is: 04-FEB-2014

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: **HK1402625**

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.

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 D3974-09 based on ASTM D3974-09, prior to determination of metals.



Analytical Results

Sub-Matrix: SOIL

Client sample ID

Client sampling date / time

				A5.1-A5.2.2/SW/1.975	A5.1-A5.4.2/SW/1.975	A4.3-A4.4.2/SW/1.725	T35C/B1/2.5	T35C/B2/2.5
				[24-JAN-2014]	[24-JAN-2014]	[24-JAN-2014]	[24-JAN-2014]	[24-JAN-2014]
Compound	CAS Number	LOR	Unit	HK1402625-001	HK1402625-002	HK1402625-003	HK1402625-004	HK1402625-005
EA/ED: Physical and Aggregate Properties								
EA055: Moisture Content (dried @ 103°C)	----	0.1	%	5.6	11.0	5.1	9.8	11.4
EG: Metals and Major Cations								
EG020: Lead	7439-92-1	1	mg/kg	174	500	1420	----	----
EP-071_SR: Total Petroleum Hydrocarbons (TPH)								
C6 - C9 Fraction	----	2	mg/kg	----	----	----	<2	<2
C10 - C14 Fraction	----	50	mg/kg	----	----	----	<50	<50
C15 - C28 Fraction	----	100	mg/kg	----	----	----	<100	<100
C29 - C36 Fraction	----	100	mg/kg	----	----	----	<100	<100
EP-080_SRS: TPH(Volatile)/BTEX Surrogate							Surrogate control limits listed at end of this report.	
Dibromofluoromethane	1868-53-7	0.1	%	----	----	----	92.4	90.8
Toluene-D8	2037-26-5	0.1	%	----	----	----	98.1	97.4
4-Bromofluorobenzene	460-00-4	0.1	%	----	----	----	103	101



Sub-Matrix: SOIL				Client sample ID	T35C/B3/2.5	T35C/B4/2.5	T35C/B5/2.5	T35C/B6/2.5	T35C/B7/2.5
				Client sampling date / time	[24-JAN-2014]	[24-JAN-2014]	[24-JAN-2014]	[24-JAN-2014]	[24-JAN-2014]
Compound	CAS Number	LOR	Unit		HK1402625-006	HK1402625-007	HK1402625-008	HK1402625-009	HK1402625-010
EA/ED: Physical and Aggregate Properties									
EA055: Moisture Content (dried @ 103°C)	----	0.1	%		11.0	16.5	14.0	7.4	9.2
EP-071_SR: Total Petroleum Hydrocarbons (TPH)									
C6 - C9 Fraction	----	2	mg/kg		<2	<2	<2	<2	<2
C10 - C14 Fraction	----	50	mg/kg		<50	<50	<50	<50	<50
C15 - C28 Fraction	----	100	mg/kg		<100	<100	1030	<100	<100
C29 - C36 Fraction	----	100	mg/kg		<100	<100	1070	<100	<100
EP-080_SRS: TPH(Volatile)/BTEX Surrogate								Surrogate control limits listed at end of this report.	
Dibromofluoromethane	1868-53-7	0.1	%		91.2	90.4	90.0	91.6	94.7
Toluene-D8	2037-26-5	0.1	%		98.7	98.0	99.8	98.8	97.3
4-Bromofluorobenzene	460-00-4	0.1	%		103	102	102	102	103



Sub-Matrix: SOIL				Client sample ID	T35C/B8/2.5	T35C/B9/2.5	T35C/B10/2.5	T35C/B11/2.5	T35C/B12/2.5
				Client sampling date / time	[24-JAN-2014]	[24-JAN-2014]	[24-JAN-2014]	[24-JAN-2014]	[24-JAN-2014]
Compound	CAS Number	LOR	Unit	HK1402625-011	HK1402625-012	HK1402625-013	HK1402625-014	HK1402625-015	
EA/ED: Physical and Aggregate Properties									
EA055: Moisture Content (dried @ 103°C)	----	0.1	%	4.8	19.5	16.3	14.7	10.5	
EP-071_SR: Total Petroleum Hydrocarbons (TPH)									
C6 - C9 Fraction	----	2	mg/kg	<2	<2	<2	<2	<2	
C10 - C14 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50	
C15 - C28 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100	
C29 - C36 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100	
EP-080_SRS: TPH(Volatile)/BTEX Surrogate									
Surrogate control limits listed at end of this report.									
Dibromofluoromethane	1868-53-7	0.1	%	93.3	90.8	92.6	91.4	93.5	
Toluene-D8	2037-26-5	0.1	%	98.4	99.4	99.5	99.8	98.9	
4-Bromofluorobenzene	460-00-4	0.1	%	102	103	104	103	103	



Sub-Matrix: SOIL				Client sample ID	T35C/B13/2.5	T35C/B14/2.5	T35C/B15/2.5	T35C/B16/2.5	T35C/B17/2.5
				Client sampling date / time	[24-JAN-2014]	[24-JAN-2014]	[24-JAN-2014]	[24-JAN-2014]	[24-JAN-2014]
Compound	CAS Number	LOR	Unit	HK1402625-016	HK1402625-017	HK1402625-018	HK1402625-019	HK1402625-020	
EA/ED: Physical and Aggregate Properties									
EA055: Moisture Content (dried @ 103°C)	----	0.1	%	13.8	6.2	5.9	10.6	9.8	
EP-071_SR: Total Petroleum Hydrocarbons (TPH)									
C6 - C9 Fraction	----	2	mg/kg	<2	<2	<2	<2	<2	
C10 - C14 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50	
C15 - C28 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100	
C29 - C36 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100	
EP-080_SRS: TPH(Volatile)/BTEX Surrogate							Surrogate control limits listed at end of this report.		
Dibromofluoromethane	1868-53-7	0.1	%	91.7	91.3	90.8	91.0	91.5	
Toluene-D8	2037-26-5	0.1	%	98.9	98.4	98.2	100	99.5	
4-Bromofluorobenzene	460-00-4	0.1	%	104	102	103	102	102	



Sub-Matrix: SOIL				Client sample ID	T35C/B18/2.5	T35C/B19/2.5	T35C/B20/2.5	T35C/B21/2.5	T35C/B22/2.5
				Client sampling date / time	[24-JAN-2014]	[24-JAN-2014]	[24-JAN-2014]	[24-JAN-2014]	[24-JAN-2014]
Compound	CAS Number	LOR	Unit	HK1402625-021	HK1402625-022	HK1402625-023	HK1402625-024	HK1402625-025	
EA/ED: Physical and Aggregate Properties									
EA055: Moisture Content (dried @ 103°C)	----	0.1	%	16.2	11.2	9.5	14.7	9.8	
EP-071_SR: Total Petroleum Hydrocarbons (TPH)									
C6 - C9 Fraction	----	2	mg/kg	<2	<2	<2	<2	<2	
C10 - C14 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50	
C15 - C28 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100	
C29 - C36 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100	
EP-080_SRS: TPH(Volatile)/BTEX Surrogate									
Surrogate control limits listed at end of this report.									
Dibromofluoromethane	1868-53-7	0.1	%	91.0	91.0	90.2	90.9	90.4	
Toluene-D8	2037-26-5	0.1	%	99.1	98.5	98.7	98.6	97.8	
4-Bromofluorobenzene	460-00-4	0.1	%	102	102	103	102	103	



Sub-Matrix: SOIL				Client sample ID	T35C/B23/2.5	T35C/B24/2.5	T35C/B25/2.5	T35C/B26/2.5	
				Client sampling date / time	[24-JAN-2014]	[24-JAN-2014]	[24-JAN-2014]	[24-JAN-2014]	
Compound	CAS Number	LOR	Unit	HK1402625-026	HK1402625-027	HK1402625-028	HK1402625-029		
EA/ED: Physical and Aggregate Properties									
EA055: Moisture Content (dried @ 103°C)	----	0.1	%	8.4	7.7	7.1	8.0		
EP-071_SR: Total Petroleum Hydrocarbons (TPH)									
C6 - C9 Fraction	----	2	mg/kg	<2	<2	<2	<2		
C10 - C14 Fraction	----	50	mg/kg	<50	<50	<50	<50		
C15 - C28 Fraction	----	100	mg/kg	<100	<100	<100	<100		
C29 - C36 Fraction	----	100	mg/kg	<100	<100	<100	<100		
EP-080_SRS: TPH(Volatile)/BTEX Surrogate								Surrogate control limits listed at end of this report.	
Dibromofluoromethane	1868-53-7	0.1	%	90.7	92.2	90.9	94.6		
Toluene-D8	2037-26-5	0.1	%	96.6	98.2	99.1	98.3		
4-Bromofluorobenzene	460-00-4	0.1	%	102	103	102	103		



Sub-Matrix: WATER				Client sample ID	EB14	FB14	EB15	FB15	
				Client sampling date / time	[24-JAN-2014]	[24-JAN-2014]	[24-JAN-2014]	[24-JAN-2014]	
Compound	CAS Number	LOR	Unit	HK1402625-030	HK1402625-031	HK1402625-032	HK1402625-033		
EP-071_SR: Total Petroleum Hydrocarbons (TPH)									
C6 - C9 Fraction	----	20	µg/L	<20	<20	<20	<20	<20	
C10 - C14 Fraction	----	50	µg/L	<50	<50	<50	<50	<50	
C15 - C28 Fraction	----	100	µg/L	<100	<100	<100	<100	<100	
C29 - C36 Fraction	----	50	µg/L	<50	<50	<50	<50	<50	
EP-080_SRS: TPH(Volatile)/BTEX Surrogate								Surrogate control limits listed at end of this report.	
Dibromofluoromethane	1868-53-7	0.1	%	104	104	110	105		
Toluene-D8	2037-26-5	0.1	%	100	99.5	99.8	100		
4-Bromofluorobenzene	460-00-4	0.1	%	99.3	100	101	100		



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: 3272684)								
HK1402531-004	Anonymous	EA055: Moisture Content (dried @ 103°C)	----	0.1	%	12.9	11.3	13.3
HK1402619-004	Anonymous	EA055: Moisture Content (dried @ 103°C)	----	0.1	%	16.8	16.3	3.0
EA/ED: Physical and Aggregate Properties (QC Lot: 3272685)								
HK1402625-006	T35C/B3/2.5	EA055: Moisture Content (dried @ 103°C)	----	0.1	%	11.0	10.4	5.8
HK1402625-016	T35C/B13/2.5	EA055: Moisture Content (dried @ 103°C)	----	0.1	%	13.8	13.8	0.0
EA/ED: Physical and Aggregate Properties (QC Lot: 3272686)								
HK1402625-026	T35C/B23/2.5	EA055: Moisture Content (dried @ 103°C)	----	0.1	%	8.4	7.8	7.6
EG: Metals and Major Cations (QC Lot: 3270341)								
HK1402618-002	Anonymous	EG020: Lead	7439-92-1	1	mg/kg	9	8	0.0
HK1402619-005	Anonymous	EG020: Lead	7439-92-1	1	mg/kg	7	8	19.2
EP-071_SR: Total Petroleum Hydrocarbons (TPH) (QC Lot: 3261592)								
HK1402237-041	Anonymous	C15 - C28 Fraction	----	100	mg/kg	<100	<100	0.0
		C29 - C36 Fraction	----	100	mg/kg	<100	<100	0.0
		C10 - C14 Fraction	----	50	mg/kg	<50	<50	0.0
EP-071_SR: Total Petroleum Hydrocarbons (TPH) (QC Lot: 3261600)								
HK1402237-041	Anonymous	C6 - C9 Fraction	----	2	mg/kg	<2	<2	0.0
EP-071_SR: Total Petroleum Hydrocarbons (TPH) (QC Lot: 3267106)								
HK1402625-006	T35C/B3/2.5	C15 - C28 Fraction	----	100	mg/kg	<100	<100	0.0
		C29 - C36 Fraction	----	100	mg/kg	<100	<100	0.0
		C10 - C14 Fraction	----	50	mg/kg	<50	<50	0.0
EP-071_SR: Total Petroleum Hydrocarbons (TPH) (QC Lot: 3267107)								
HK1402625-026	T35C/B23/2.5	C15 - C28 Fraction	----	100	mg/kg	<100	<100	0.0
		C29 - C36 Fraction	----	100	mg/kg	<100	<100	0.0
		C10 - C14 Fraction	----	50	mg/kg	<50	<50	0.0
EP-071_SR: Total Petroleum Hydrocarbons (TPH) (QC Lot: 3267110)								
HK1402625-006	T35C/B3/2.5	C6 - C9 Fraction	----	2	mg/kg	<2	<2	0.0
EP-071_SR: Total Petroleum Hydrocarbons (TPH) (QC Lot: 3267112)								
HK1402625-026	T35C/B23/2.5	C6 - C9 Fraction	----	2	mg/kg	<2	<2	0.0

Matrix: WATER				Laboratory Duplicate (DUP) Report				
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
EP-071_SR: Total Petroleum Hydrocarbons (TPH) (QC Lot: 3259304)								
HK1402040-001	Anonymous	C6 - C9 Fraction	----	10	µg/L	<10	<10	0.0
EP-071_SR: Total Petroleum Hydrocarbons (TPH) (QC Lot: 3259612)								
HK1402040-003	Anonymous	C10 - C14 Fraction	----	10	µg/L	<10	<10	0.0
		C15 - C28 Fraction	----	10	µg/L	22	20	7.0
		C29 - C36 Fraction	----	10	µg/L	<10	<10	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 (%)		Recovery Limits (%)		RPD (%)	
						LCS	DCS	Low	High	Value	Control Limit
EG: Metals and Major Cations (QC Lot: 3270341)											
EG020: Lead	7439-92-1	1	mg/kg	<1	5 mg/kg	98.6	----	80	104	----	----
EP-071_SR: Total Petroleum Hydrocarbons (TPH) (QC Lot: 3261592)											
C10 - C14 Fraction	----	50	mg/kg	<50	22.5 mg/kg	86.3	----	31	125	----	----
C15 - C28 Fraction	----	100	mg/kg	<100	52.5 mg/kg	66.0	----	28	116	----	----
C29 - C36 Fraction	----	100	mg/kg	<100	52.5 mg/kg	37.5	----	6	108	----	----
EP-071_SR: Total Petroleum Hydrocarbons (TPH) (QC Lot: 3261600)											
C6 - C9 Fraction	----	2	mg/kg	<2	6 mg/kg	91.8	----	58	127	----	----
EP-071_SR: Total Petroleum Hydrocarbons (TPH) (QC Lot: 3267106)											
C10 - C14 Fraction	----	50	mg/kg	<50	22.5 mg/kg	124	----	31	125	----	----
C15 - C28 Fraction	----	100	mg/kg	<100	52.5 mg/kg	114	----	28	116	----	----
C29 - C36 Fraction	----	100	mg/kg	<100	52.5 mg/kg	91.2	----	6	108	----	----
EP-071_SR: Total Petroleum Hydrocarbons (TPH) (QC Lot: 3267107)											
C10 - C14 Fraction	----	50	mg/kg	<50	22.5 mg/kg	123	----	31	125	----	----
C15 - C28 Fraction	----	100	mg/kg	<100	52.5 mg/kg	108	----	28	116	----	----
C29 - C36 Fraction	----	100	mg/kg	<100	52.5 mg/kg	88.7	----	6	108	----	----
EP-071_SR: Total Petroleum Hydrocarbons (TPH) (QC Lot: 3267110)											
C6 - C9 Fraction	----	2	mg/kg	<2	6 mg/kg	97.4	----	58	127	----	----
EP-071_SR: Total Petroleum Hydrocarbons (TPH) (QC Lot: 3267112)											
C6 - C9 Fraction	----	2	mg/kg	<2	6 mg/kg	93.8	----	58	127	----	----
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 (%)		RPD (%)	
						LCS	DCS	Low	High	Value	Control Limit
EP-071_SR: Total Petroleum Hydrocarbons (TPH) (QC Lot: 3259304)											
C6 - C9 Fraction	----	20	µg/L	<20	40 µg/L	88.6	----	65	123	----	----
EP-071_SR: Total Petroleum Hydrocarbons (TPH) (QC Lot: 3259612)											
C10 - C14 Fraction	----	50	µg/L	<50	150 µg/L	54.9	----	15	96	----	----
C15 - C28 Fraction	----	100	µg/L	<100	350 µg/L	52.6	----	13	122	----	----
C29 - C36 Fraction	----	50	µg/L	<50	350 µg/L	36.3	----	11	111	----	----



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	Spike Recovery (%)		Recovery Limits (%)		RPD (%)	
					MS	MSD	Low	High	Value	Control Limit
EG: Metals and Major Cations (QC Lot: 3270341)										
HK1402618-001	Anonymous	EG020: Lead	7439-92-1	5 mg/kg	# Not Determined	----	75	125	----	----
EP-071_SR: Total Petroleum Hydrocarbons (TPH) (QC Lot: 3261592)										
HK1402237-042	Anonymous	C10 - C14 Fraction	----	22.5 mg/kg	80.8	----	50	130	----	----
		C15 - C28 Fraction	----	52.5 mg/kg	91.0	----	50	130	----	----
		C29 - C36 Fraction	----	52.5 mg/kg	81.2	----	50	130	----	----
EP-071_SR: Total Petroleum Hydrocarbons (TPH) (QC Lot: 3261600)										
HK1402237-042	Anonymous	C6 - C9 Fraction	----	6 mg/kg	94.4	----	50	130	----	----
EP-071_SR: Total Petroleum Hydrocarbons (TPH) (QC Lot: 3267106)										
HK1402625-007	T35C/B4/2.5	C10 - C14 Fraction	----	23 mg/kg	122	----	50	130	----	----
		C15 - C28 Fraction	----	53 mg/kg	111	----	50	130	----	----
		C29 - C36 Fraction	----	53 mg/kg	125	----	50	130	----	----
EP-071_SR: Total Petroleum Hydrocarbons (TPH) (QC Lot: 3267107)										
HK1402625-027	T35C/B24/2.5	C10 - C14 Fraction	----	23 mg/kg	108	----	50	130	----	----
		C15 - C28 Fraction	----	53 mg/kg	121	----	50	130	----	----
		C29 - C36 Fraction	----	53 mg/kg	100	----	50	130	----	----
EP-071_SR: Total Petroleum Hydrocarbons (TPH) (QC Lot: 3267110)										
HK1402625-007	T35C/B4/2.5	C6 - C9 Fraction	----	6 mg/kg	97.6	----	50	130	----	----
EP-071_SR: Total Petroleum Hydrocarbons (TPH) (QC Lot: 3267112)										
HK1402625-027	T35C/B24/2.5	C6 - C9 Fraction	----	6 mg/kg	97.6	----	50	130	----	----

Surrogate Control Limits

Sub-Matrix: SOIL

Compound	CAS Number	Recovery Limits (%)	
		Low	High
EP-080_SRS: 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-080_SRS: 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	: KIN WING CONSTRUCTION COMPANY LIMITED	Laboratory	: ALS Technichem HK Pty Ltd	Page	: 1 of 3
Contact	: MR KAM HUNG LEE	Contact	: Fung Lim Chee, Richard	Work Order	: HK1402819
Address	: FLAT A, BLOCK 2, 6/F., KIN HO INDUSTRIAL BUILDING, 14-24 AU PUI WAN STREET, FOTAN, SHATIN, N.T. HONG KONG	Address	: 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail	: khlee425@yahoo.com.hk	E-mail	: Richard.Fung@alsglobal.com		
Telephone	: +852 2785 8152	Telephone	: +852 2610 1044		
Facsimile	: +852 2725 9316	Facsimile	: +852 2610 2021		
Project	: YAU TONG BAY REDEVELOPMENT - LAND DECONTAMINATION WORKS	Quote number	: ----	Date Samples Received	: 27-JAN-2014
Order number	: ----			Issue Date	: 12-FEB-2014
C-O-C number	: H025183			No. of samples received	: 1
Site	: YAU TONG BAY			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 sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes. The completion date of analysis is: 04-FEB-2014

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: **HK1402819**

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.

Soil sample(s) as received, digested by In-house method E-ASTM D3974-09 based on ASTM D3974-09, prior to determination of metals.

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Signatories

Position

Authorised results for

Wong Wing, Kenneth

Assistant Supervisor - Metals

Inorganics



Analytical Results

Sub-Matrix: SOIL

Client sample ID

T22BA.3.4/SW/0.75

Client sampling date / time

[27-JAN-2014]

Compound	CAS Number	LOR	Unit	HK1402819-001				
----------	------------	-----	------	---------------	--	--	--	--

EA/ED: Physical and Aggregate Properties

EA055: Moisture Content (dried @ 103°C)	----	0.1	%	13.0				
---	------	-----	---	------	--	--	--	--

EG: Metals and Major Cations

EG020: Lead	7439-92-1	1	mg/kg	129				
-------------	-----------	---	-------	-----	--	--	--	--



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: 3272688)								
HK1402769-001	Anonymous	EA055: Moisture Content (dried @ 103°C)	----	0.1	%	19.7	19.8	0.0
HK1402815-001	Anonymous	EA055: Moisture Content (dried @ 103°C)	----	0.1	%	20.2	20.2	0.0
EG: Metals and Major Cations (QC Lot: 3271000)								
HK1402762-006	Anonymous	EG020: Lead	7439-92-1	1	mg/kg	125	119	5.0
HK1402769-004	Anonymous	EG020: Lead	7439-92-1	1	mg/kg	36	36	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 (%)		Recovery Limits (%)		RPD (%)					
						LCS	DCS	Low	High	Value	Control Limit				
EG: Metals and Major Cations (QC Lot: 3271000)															
EG020: Lead	7439-92-1	1	mg/kg	<1	5 mg/kg	99.7	----	80	104	----	----				

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	Spike Recovery (%)		Recovery Limits (%)		RPD (%)	
					MS	MSD	Low	High	Value	Control Limit
EG: Metals and Major Cations (QC Lot: 3271000)										
HK1402762-005	Anonymous	EG020: Lead	7439-92-1	5 mg/kg	87.5	----	75	125	----	----

CERTIFICATE OF ANALYSIS

Client	: KIN WING CONSTRUCTION COMPANY LIMITED	Laboratory	: ALS Technichem HK Pty Ltd	Page	: 1 of 4
Contact	: MR KAM HUNG LEE	Contact	: Fung Lim Chee, Richard	Work Order	: HK1402349
Address	: FLAT A, BLOCK 2, 6/F., KIN HO INDUSTRIAL BUILDING, 14-24 AU PUI WAN STREET, FOTAN, SHATIN, N.T. HONG KONG	Address	: 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail	: khlee425@yahoo.com.hk	E-mail	: Richard.Fung@alsglobal.com		
Telephone	: +852 2785 8152	Telephone	: +852 2610 1044		
Facsimile	: +852 2725 9316	Facsimile	: +852 2610 2021		
Project	: YAU TONG BAY REDEVELOPMENT - LAND DECONTAMINATION WORKS	Quote number	: ----	Date Samples Received	: 21-JAN-2014
Order number	: ----			Issue Date	: 06-FEB-2014
C-O-C number	: H025176			No. of samples received	: 2
Site	: YAU TONG BAY			No. of samples analysed	: 2

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Signatories

Position

Authorised results for

Wong Wing, Kenneth

Assistant Supervisor - Metals

Inorganics



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 sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes. The completion date of analysis is: 29-JAN-2014

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: **HK1402349**

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

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

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

The metal concentrations reported are those determined on the TCLP leachate. Extraction Fluid #1 pH 4.88 - 4.98.



Analytical Results

Sub-Matrix: TCLP LEACHATE

				Client sample ID	AI/TCLP	AI/TCLP.1		
				Client sampling date / time	[21-JAN-2014]	[21-JAN-2014]		
Compound	CAS Number	LOR	Unit	HK1402349-001	HK1402349-002			
EG: Metals and Major Cations - Filtered								
EG020: Lead	7439-92-1	0.1	mg/L	<0.1	<0.1			
Sample Preparation Method								
E-TCLP: Extraction Fluid Number	---	-	--	1	1			



Laboratory Duplicate (DUP) Report

Matrix: WATER				Laboratory Duplicate (DUP) Report				
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
EG: Metals and Major Cations - Filtered (QC Lot: 3269082)								
HK1402484-003	Anonymous	EG020: Lead	7439-92-1	0.1	mg/L	<0.1	<0.1	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	Spike Recovery (%)		Recovery Limits (%)		RPD (%)	
						LCS	DCS	Low	High	Value	Control Limit
EG: Metals and Major Cations - Filtered (QC Lot: 3269082)											
EG020: Lead	7439-92-1	0.001	mg/L	<0.001	1 mg/L	101	----	82	104	----	----

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 (%)		Recovery Limits (%)		RPD (%)	
					MS	MSD	Low	High	Value	Control Limit
EG: Metals and Major Cations - Filtered (QC Lot: 3269082)										
HK1401992-001	Anonymous	EG020: Lead	7439-92-1	1 mg/L	94.8	92.2	75	125	2.9	----

CERTIFICATE OF ANALYSIS

Client	: KIN WING CONSTRUCTION COMPANY LIMITED	Laboratory	: ALS Technichem HK Pty Ltd	Page	: 1 of 4
Contact	: MR KAM HUNG LEE	Contact	: Fung Lim Chee, Richard	Work Order	: HK1402416
Address	: FLAT A, BLOCK 2, 6/F., KIN HO INDUSTRIAL BUILDING, 14-24 AU PUI WAN STREET, FOTAN, SHATIN, N.T. HONG KONG	Address	: 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail	: khlee425@yahoo.com.hk	E-mail	: Richard.Fung@alsglobal.com	Date Samples Received	: 22-JAN-2014
Telephone	: +852 2785 8152	Telephone	: +852 2610 1044	Issue Date	: 07-FEB-2014
Facsimile	: +852 2725 9316	Facsimile	: +852 2610 2021	No. of samples received	: 2
Project	: YAU TONG BAY REDEVELOPMENT - LAND DECONTAMINATION WORKS	Quote number	: ----	No. of samples analysed	: 2
Order number	: ----				
C-O-C number	: H025177				
Site	: YAU TONG BAY				

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Signatories

Position

Authorised results for

Wong Wing, Kenneth

Assistant Supervisor - Metals

Inorganics



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: **HK1402416**

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

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

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

The metal concentrations reported are those determined on the TCLP leachate. Extraction Fluid #1 pH 4.88 - 4.98.



Analytical Results

Sub-Matrix: TCLP LEACHATE

				Client sample ID				
				Client sampling date / time	R5/TCLP	R5/TCLP.1		
					[22-JAN-2014]	[22-JAN-2014]		
Compound	CAS Number	LOR	Unit	HK1402416-001	HK1402416-002			
EG: Metals and Major Cations - Filtered								
EG020: Lead	7439-92-1	0.1	mg/L	<0.1	<0.1			
Sample Preparation Method								
E-TCLP: Extraction Fluid Number	---	-	--	1	1			



Laboratory Duplicate (DUP) Report

Matrix: WATER				Laboratory Duplicate (DUP) Report				
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
EG: Metals and Major Cations - Filtered (QC Lot: 3269082)								
HK1402484-003	Anonymous	EG020: Lead	7439-92-1	0.1	mg/L	<0.1	<0.1	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	Spike Recovery (%)		Recovery Limits (%)		RPD (%)	
						LCS	DCS	Low	High	Value	Control Limit
EG: Metals and Major Cations - Filtered (QC Lot: 3269082)											
EG020: Lead	7439-92-1	0.001	mg/L	<0.001	1 mg/L	101	----	82	104	----	----

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 (%)		Recovery Limits (%)		RPD (%)	
					MS	MSD	Low	High	Value	Control Limit
EG: Metals and Major Cations - Filtered (QC Lot: 3269082)										
HK1401992-001	Anonymous	EG020: Lead	7439-92-1	1 mg/L	94.8	92.2	75	125	2.9	----



ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES

SUB-CONTRACTING REPORT

CONTACT	: MR KAM HUNG LEE	WORK ORDER	: HK1402461
CLIENT	: KIN WING CONSTRUCTION COMPANY LIMITED		
ADDRESS	: FLAT A, BLOCK 2, 6/F., KIN HO INDUSTRIAL BUILDING, 14-24 AU PUI WAN STREET, FOTAN, SHATIN, N.T. HONG KONG	SUB-BATCH	: 1
		DATE RECEIVED	: 22-JAN-2014
		DATE OF ISSUE	: 10-FEB-2014
PROJECT	: YAU TONG BAY REDEVELOPMENT - LAND DECONTAMINATION WORKS	NO. OF SAMPLES	: 2
		CLIENT ORDER	: ----

General Comments

- Sample(s) were picked up from client by ALS Technichem (HK) staff in an ambient condition.
- Soil sample(s) analysed on an as received basis. Result(s) reported on a dry weight basis.
- UCS was subcontracted to and analysed by Geotechnics & Concrete Engineering (H.K.) Ltd (GCE).

Signatories

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

Richard Fung  General Manager

This is the Final Report and supersedes any preliminary report with this batch number.
Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.

WORK ORDER : HK1402461
SUB-BATCH : 1
CLIENT : KIN WING CONSTRUCTION COMPANY LIMITED
PROJECT : YAU TONG BAY REDEVELOPMENT - LAND DECONTAMINATION WORKS



ALS Lab ID	Client's Sample ID	Sample Type	Sample Date	External Lab Report No.
HK1402461-001	A1/UCS	CONCRETE	21-JAN-2014 16:00	GCD140107063
HK1402461-002	A1/UCS.1	CONCRETE	21-JAN-2014 16:00	GCD140107063



REPORT ON DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBE

Report No. : GCD140107063

Date of Issue : 04-02-2014

Sample Details as Supplied by Client :

Client : ALS Technichem (HK) Pty Ltd. Contract No. : -- W.O. No. / Job No. : --
 Address : 11/F., Chung Shun Knitting Centre, 1-3 Wing Yip St., Kwai Chung, N.T., Hong Kong Audit / Request No. : --
 Project / Site : --

Location in Works of Concrete Batch Sampled : --

Supplier	: --	Plant	: --	Dosage	: --
Source of Coarse Agg.	: --	Source of Fine Agg.	: --	Designed / Measured Slump	: --
Cement Brand	: --	Admixture Brand	: --	A/C Ratio	: --
Concrete Mix I.D. No.	: --	Concrete Grade	: --		
Cement Content	: --	W/C Ratio	: --		
PFA Content	: --	PFA Source	: --		
Date Cast	: 21-01-2014	Time of Adding Water to Mix	: --		
Date of Sampling	: 21-01-2014	Time of Sampling	: --		
Place of Sampling	: --	Place / Time of Making Cube	: --		
Method of Compaction	: --	Name of Person Making Cubes	: --		
Site Curing Method	: --	Site Max. / Min. Temperature	: --		
No. of Cubes	: 2	Nominal Size	: 150 mm	Test at Age of	: 7 days

Certificate of Sampling, Slump Test, Cube Making and Curing :

A Certificate of Sampling, Slump Test, Cube Making and Curing is not available.

Laboratory Test Results :

Date Received : 24-01-2014 Date / Time Tested : 28-01-2014 16:00 GCE Test Unit Reg. No. : MI14008
 Curing Method : In Air Max. / Min. Temp. : -- / -- Cube Age at Test : 7 days
 Test Location : No. 6, Ko Shan Road, Ground Floor, Hung Hom, Kowloon, Hong Kong

Laboratory Reference Number	--	--	--	--	--	--
Cube Mark	HK1402461-001 A1/UCS	HK1402461-002 A1/UCS.1	--	--	--	--
Mould No.	--	--	--	--	--	--
Mass of Specimen in Air	kg	6.301	6.284	--	--	--
Mass of Specimen in Water	kg	--	--	--	--	--
Length of Specimen	mm	150.8	150.6	--	--	--
Width of Specimen	mm	150.6	150.8	--	--	--
Height of Specimen	mm	150.8	150.8	--	--	--
As-received Density	-Vol. by Calculation	kg/m ³	1840	1830	--	--
	-Vol. by Water Displacement	kg/m ³	--	--	--	--
Maximum Load at Failure	kN	80.2	39.3	--	--	--
Compressive Strength	MPa	3.5	1.7	--	--	--
Observation Code		P	P	--	--	--
Failure Mode		S	S	--	--	--

Legend :

A - Dry on Receipt; B - Poor Compaction; C - Honeycombing; D - Damaged Edge; E - Damaged Corner; F - Irregular; G - Oversize;
 H - Undersize; P - No Irregularity in Squareness; S - Satisfactory Failure; U - Unsatisfactory Failure.

Remarks : 1) Martix : Cement Cube

--END--

Tested By : T.T. Ho

Approved Signatory :

Checked By : 

Post :


 LAU SUN HUNG, IVAN
 Senior Testing Manager



ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES

SUB-CONTRACTING REPORT

CONTACT	: MR KAM HUNG LEE	WORK ORDER	: HK1402502
CLIENT	: KIN WING CONSTRUCTION COMPANY LIMITED		
ADDRESS	: FLAT A, BLOCK 2, 6/F., KIN HO INDUSTRIAL BUILDING, 14-24 AU PUI WAN STREET, FOTAN, SHATIN, N.T. HONG KONG	SUB-BATCH	: 1
		DATE RECEIVED	: 23-JAN-2014
		DATE OF ISSUE	: 10-FEB-2014
PROJECT	: YAU TONG BAY REDEVELOPMENT - LAND DECONTAMINATION WORKS	NO. OF SAMPLES	: 2
		CLIENT ORDER	: ----

General Comments

- Sample(s) were picked up from client by ALS Technichem (HK) staff in an ambient condition.
- Soil sample(s) analysed on an as received basis. Result(s) reported on a dry weight basis.
- UCS was subcontracted to and analysed by Geotechnics & Concrete Engineering (H.K.) Ltd (GCE).

Signatories

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Signatories

Position

PP

Richard Fung  General Manager

This is the Final Report and supersedes any preliminary report with this batch number.
Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.

WORK ORDER : HK1402502
SUB-BATCH : 1
CLIENT : KIN WING CONSTRUCTION COMPANY LIMITED
PROJECT : YAU TONG BAY REDEVELOPMENT - LAND DECONTAMINATION WORKS



ALS Lab ID	Client's Sample ID	Sample Type	Sample Date	External Lab Report No.
HK1402502-001	R5/UCS	CONCRETE	22-JAN-2014 16:00	GCD140107071
HK1402502-002	R5/UCS.1	CONCRETE	22-JAN-2014 16:00	GCD140107071



REPORT ON DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBE

Report No. : GCD140107071

Date of Issue : 04-02-2014

Sample Details as Supplied by Client :

Client : ALS Technichem (HK) Pty Ltd. Contract No. : -- W.O. No. / Job No. : --
 Address : 11/F., Chung Shun Knitting Centre, 1-3 Wing Yip St., Kwai Chung, N.T., Hong Kong Audit / Request No. : --
 Project / Site : --

Location in Works of Concrete Batch Sampled : --

Supplier	: --	Plant	: --		
Source of Coarse Agg.	: --	Source of Fine Agg.	: --		
Cement Brand	: --	Admixture Brand	: --	Dosage	: --
Concrete Mix I.D. No.	: --	Concrete Grade	: --	Designed / Measured Slump	: --
Cement Content	: --	W/C Ratio	: --	A/C Ratio	: --
PFA Content	: --	PFA Source	: --		
Date Cast	: 22-01-2014	Time of Adding Water to Mix	: --		
Date of Sampling	: 22-01-2014	Time of Sampling	: --		
Place of Sampling	: --	Place / Time of Making Cube	: --		
Method of Compaction	: --	Name of Person Making Cubes	: --		
Site Curing Method	: --	Site Max. / Min. Temperature	: --		
No. of Cubes	: 2	Nominal Size	: 150 mm	Test at Age of	: 7 days

Certificate of Sampling, Slump Test, Cube Making and Curing :

A Certificate of Sampling, Slump Test, Cube Making and Curing is not available.

Laboratory Test Results :

Date Received : 24-01-2014 Date / Time Tested : 29-01-2014 16:00 GCE Test Unit Reg. No. : MI14008
 Curing Method : In Air Max. / Min. Temp. : -- / -- Cube Age at Test : 7 days
 Test Location : No. 6, Ko Shan Road, Ground Floor, Hung Hom, Kowloon, Hong Kong

Laboratory Reference Number	--	--	--	--	--	--
Cube Mark	HK1402502-001 R5/UCS	HK1402502-002 R5/UCS.1	--	--	--	--
Mould No.	--	--	--	--	--	--
Mass of Specimen in Air	kg	7.982	7.981	--	--	--
Mass of Specimen in Water	kg	--	--	--	--	--
Length of Specimen	mm	150.1	150.2	--	--	--
Width of Specimen	mm	150.0	150.1	--	--	--
Height of Specimen	mm	149.9	149.8	--	--	--
As-received Density	-Vol. by Calculation	kg/m ³	2370	2360	--	--
	-Vol. by Water Displacement	kg/m ³	--	--	--	--
Maximum Load at Failure	kN	55.3	56.7	--	--	--
Compressive Strength	MPa	2.5	2.5	--	--	--
Observation Code		P	P	--	--	--
Failure Mode		S	S	--	--	--

Legend :

A - Dry on Receipt; B - Poor Compaction; C - Honeycombing; D - Damaged Edge; E - Damaged Corner; F - Irregular; G - Oversize;
 H - Undersize; P - No Irregularity in Squareness; S - Satisfactory Failure; U - Unsatisfactory Failure.

Remarks : 1) Matrix : Cement Cube

--END--

Tested By : Y.K. Chan

Approved Signatory :

Checked By : _____

Post

LAU SUN HUNG, IVAN
 Senior Testing Manager

**TESTING RESULTS OF IEA SPOT-CHECK
SAMPLES**



CERTIFICATE OF ANALYSIS

Client	: NATURE & TECHNOLOGIES (HK) LTD	Laboratory	: ALS Technichem HK Pty Ltd	Page	: 1 of 4
Contact	: MR GABRIEL LAM	Contact	: Fung Lim Chee, Richard	Work Order	: HK1402447
Address	: UNIT B, 11/F, GRANDION PLAZA, 932 CHEUNG SHA WAN ROAD, CHEUNG SHA WAN, KOWLOON HONG KONG	Address	: 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail	: glam@nt.com.hk	E-mail	: Richard.Fung@alsglobal.com	Date Samples Received	: 22-JAN-2014
Telephone	: +852 2877 3122	Telephone	: +852 2610 1044	Issue Date	: 04-FEB-2014
Facsimile	: +852 2511 0922	Facsimile	: +852 2610 2021	No. of samples received	: 1
Project	: YAU TONG BAY DEVELOPMENT	Quote number	: ----	No. of samples analysed	: 1
Order number	: 3.14/018/2009				
C-O-C number	: ----				
Site	: ----				

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<i>Signatories</i>	<i>Position</i>	<i>Authorised results for</i>
Fung Lim Chee, Richard	General Manager	Inorganics



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 sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes. The completion date of analysis is: 29-JAN-2014

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: **HK1402447**

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

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

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

The metal concentrations reported are those determined on the TCLP leachate. Extraction Fluid #1 pH 4.88 - 4.98.



Analytical Results

Sub-Matrix: TCLP LEACHATE

Client sample ID

R5/TCLP/IEA

Client sampling date / time

[22-JAN-2014]

Compound	CAS Number	LOR	Unit	Client sample ID	Client sampling date / time			
				HK1402447-001				
EG: Metals and Major Cations - Filtered								
EG020: Lead	7439-92-1	0.1	mg/L	<0.1				
Sample Preparation Method								
E-TCLP: Extraction Fluid Number	---	-	--	1				



Laboratory Duplicate (DUP) Report

Matrix: WATER				Laboratory Duplicate (DUP) Report				
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
EG: Metals and Major Cations - Filtered (QC Lot: 3269082)								
HK1402484-003	Anonymous	EG020: Lead	7439-92-1	0.1	mg/L	<0.1	<0.1	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	Spike Recovery (%)		Recovery Limits (%)		RPD (%)	
						LCS	DCS	Low	High	Value	Control Limit
EG: Metals and Major Cations - Filtered (QC Lot: 3269082)											
EG020: Lead	7439-92-1	0.001	mg/L	<0.001	1 mg/L	101	----	82	104	----	----

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 (%)		Recovery Limits (%)		RPD (%)	
					MS	MSD	Low	High	Value	Control Limit
EG: Metals and Major Cations - Filtered (QC Lot: 3269082)										
HK1401992-001	Anonymous	EG020: Lead	7439-92-1	1 mg/L	94.8	92.2	75	125	2.9	----



CERTIFICATE OF ANALYSIS

Client	: NATURE & TECHNOLOGIES (HK) LTD	Laboratory	: ALS Technichem HK Pty Ltd	Page	: 1 of 3
Contact	: MR GABRIEL LAM	Contact	: Fung Lim Chee, Richard	Work Order	: HK1335631
Address	: UNIT B, 11/F, GRANDION PLAZA, 932 CHEUNG SHA WAN ROAD, CHEUNG SHA WAN, KOWLOON HONG KONG	Address	: 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail	: glam@nt.com.hk	E-mail	: Richard.Fung@alsglobal.com		
Telephone	: +852 2877 3122	Telephone	: +852 2610 1044		
Facsimile	: +852 2511 0922	Facsimile	: +852 2610 2021		
Project	: YAU TONG BAY DEVELOPMENT	Quote number	: ----	Date Samples Received	: 20-DEC-2013
Order number	: 3.14/018/2009			Issue Date	: 08-JAN-2014
C-O-C number	: ----			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 sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes. The completion date of analysis is: 27-DEC-2013

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: **HK1335631**

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.

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Signatories

Position

Authorised results for

Anh Ngoc Huynh
Fung Lim Chee, Richard

Senior Chemist
General Manager

Organics
Inorganics

ALS Laboratory Group

Trading Name: **ALS Technichem (HK) Pty Ltd**

11/F., Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, N.T., Hong Kong

Tel: +852 2610 1044 Fax: +852 2610 2021 www.alsenviro.com

A Campbell Brothers Limited Company



Analytical Results

Sub-Matrix: SOIL

Client sample ID

**R3.1 -
R3.2/SW/2.475/IEA**

Client sampling date / time

[19-DEC-2013]

Compound	CAS Number	LOR	Unit	Result				
				HK1335631-001				

EA/ED: Physical and Aggregate Properties

EA055: Moisture Content (dried @ 103°C)	----	0.1	%	31.6				
---	------	-----	---	-------------	--	--	--	--

EP-071HK_SR: Total Petroleum Hydrocarbons (TPH)

C9 - C16 Fraction	----	200	mg/kg	266				
C17 - C35 Fraction	----	500	mg/kg	9270				



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: 3230696)									
HK1335715-001	Anonymous	EA055: Moisture Content (dried @ 103°C)	----	0.1	%	24.6	23.9	2.8	
HK1335715-004	Anonymous	EA055: Moisture Content (dried @ 103°C)	----	0.1	%	29.5	29.6	0.4	
EP-071HK_SR: Total Petroleum Hydrocarbons (TPH) (QC Lot: 3224594)									
HK1335577-023	Anonymous	C9 - C16 Fraction	----	200	mg/kg	3000	2810	6.7	
		C17 - C35 Fraction	----	500	mg/kg	2360	2250	4.7	

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 (%)		Recovery Limits (%)		RPD (%)	
						LCS	DCS	Low	High	Value	Control Limit
EP-071HK_SR: Total Petroleum Hydrocarbons (TPH) (QC Lot: 3224594)											
C9 - C16 Fraction	----	200	mg/kg	<200	32 mg/kg	63.0	----	36	118	----	----
C17 - C35 Fraction	----	500	mg/kg	<500	90 mg/kg	52.0	----	28	110	----	----

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	Spike Recovery (%)		Recovery Limits (%)		RPD (%)	
					MS	MSD	Low	High	Value	Control Limit
EP-071HK_SR: Total Petroleum Hydrocarbons (TPH) (QC Lot: 3224594)										
HK1335577-024	Anonymous	C9 - C16 Fraction	----	32 mg/kg	--	----	50	130	----	----
		C17 - C35 Fraction	----	90 mg/kg	--	----	50	130	----	----



CERTIFICATE OF ANALYSIS

Client	: NATURE & TECHNOLOGIES (HK) LTD	Laboratory	: ALS Technichem HK Pty Ltd	Page	: 1 of 4
Contact	: MR GABRIEL LAM	Contact	: Fung Lim Chee, Richard	Work Order	: HK1401194
Address	: UNIT B, 11/F, GRANDION PLAZA, 932 CHEUNG SHA WAN ROAD, CHEUNG SHA WAN, KOWLOON HONG KONG	Address	: 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail	: glam@nt.com.hk	E-mail	: Richard.Fung@alsglobal.com	Date Samples Received	: 09-JAN-2014
Telephone	: +852 2877 3122	Telephone	: +852 2610 1044	Issue Date	: 23-JAN-2014
Facsimile	: +852 2511 0922	Facsimile	: +852 2610 2021	No. of samples received	: 1
Project	: YAU TONG BAY DEVELOPMENT	Quote number	: ----	No. of samples analysed	: 1
Order number	: 3.14/018/2009				
C-O-C number	: ----				
Site	: ----				

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 sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes. The completion date of analysis is: 14-JAN-2014

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: **HK1401194**

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.

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Signatories

Position

Authorised results for

Anh Ngoc Huynh
Fung Lim Chee, Richard

Senior Chemist
General Manager

Organics
Inorganics

ALS Laboratory Group

Trading Name: **ALS Technichem (HK) Pty Ltd**

11/F., Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, N.T., Hong Kong

Tel: +852 2610 1044 Fax: +852 2610 2021 www.alsenviro.com

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Analytical Results

Sub-Matrix: SOIL

Client sample ID

T35C.56/SW/1.25/IEA

Client sampling date / time

[09-JAN-2014]

Compound	CAS Number	LOR	Unit	HK1401194-001				
EA/ED: Physical and Aggregate Properties								
EA055: Moisture Content (dried @ 103°C)	----	0.1	%	7.6				
EP-071_SR: Total Petroleum Hydrocarbons (TPH)								
C6 - C9 Fraction	----	2	mg/kg	<2				
C10 - C14 Fraction	----	50	mg/kg	<50				
C15 - C28 Fraction	----	100	mg/kg	<100				
C29 - C36 Fraction	----	100	mg/kg	<100				
EP-080_SRS: TPH(Volatile)/BTEX Surrogate Surrogate control limits listed at end of this report.								
Dibromofluoromethane	1868-53-7	0.1	%	94.3				
Toluene-D8	2037-26-5	0.1	%	101				
4-Bromofluorobenzene	460-00-4	0.1	%	105				



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: 3249105)								
HK1401212-001	Anonymous	EA055: Moisture Content (dried @ 103°C)	----	0.1	%	0.7	0.6	17.0
HK1401212-002	Anonymous	EA055: Moisture Content (dried @ 103°C)	----	0.1	%	0.5	0.5	0.0
EP-071_SR: Total Petroleum Hydrocarbons (TPH) (QC Lot: 3244382)								
HK1400969-008	Anonymous	C15 - C28 Fraction	----	100	mg/kg	<100	<100	0.0
		C29 - C36 Fraction	----	100	mg/kg	<100	<100	0.0
		C10 - C14 Fraction	----	50	mg/kg	<50	<50	0.0
EP-071_SR: Total Petroleum Hydrocarbons (TPH) (QC Lot: 3244433)								
HK1400969-008	Anonymous	C6 - C9 Fraction	----	2	mg/kg	<2	<2	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 (%)		Recovery Limits (%)		RPD (%)		
								LCS	DCS	Low	High	Value	Control Limit		
EP-071_SR: Total Petroleum Hydrocarbons (TPH) (QC Lot: 3244382)															
C10 - C14 Fraction				----	50	mg/kg	<50	22.5 mg/kg	65.1	----	31	125	----	----	
C15 - C28 Fraction				----	100	mg/kg	<100	52.5 mg/kg	35.3	----	28	116	----	----	
C29 - C36 Fraction				----	100	mg/kg	<100	52.5 mg/kg	19.0	----	6	108	----	----	
EP-071_SR: Total Petroleum Hydrocarbons (TPH) (QC Lot: 3244433)															
C6 - C9 Fraction				----	2	mg/kg	<2	6 mg/kg	96.3	----	58	127	----	----	

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	Spike Recovery (%)		Recovery Limits (%)		RPD (%)	
								MS	MSD	Low	High	Value	Control Limit
EP-071_SR: Total Petroleum Hydrocarbons (TPH) (QC Lot: 3244382)													
HK1400969-009	Anonymous	C10 - C14 Fraction	----	16 mg/kg	88.8	----	50	130	----	----	----	----	
		C15 - C28 Fraction	----	53 mg/kg	61.8	----	50	130	----	----	----	----	
		C29 - C36 Fraction	----	45 mg/kg	76.3	----	50	130	----	----	----	----	
EP-071_SR: Total Petroleum Hydrocarbons (TPH) (QC Lot: 3244433)													
HK1400969-009	Anonymous	C6 - C9 Fraction	----	6 mg/kg	93.8	----	50	130	----	----	----	----	

Surrogate Control Limits

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



Sub-Matrix: SOIL		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP-080_SRS: TPH(Volatile)/BTEX Surrogate - Continued			
4-Bromofluorobenzene	460-00-4	74	121