

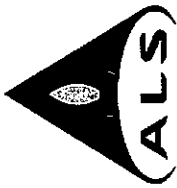
Sampling Boreholes	Sampling Depth (mbgl)	Arsenic Concentration (mg/kg dry soil)	Report No.
KTN-BH11	0.5	78	HK1109644
	1.0	66	HK1109757
	1.5	38	HK1109757
	3.05 - 3.50	818	HK1109757
KTN-BH12	0.5	20	HK1107742
	1.0	22	HK1107742
	1.5	42	HK1107742
	4.15 - 4.60	8	HK1107871
	17.05 - 17.39	20	HK1108373
KTN-BH13	0.5	75	HK1115949
	1.0	128	HK1115949
	1.5	50	HK1115949
	3.0	29	HK1115949
	6.2	10	HK1116373
	10.8	23	HK1116373
	14.1	10	HK1116373
	18.1	16	HK1116373
	21.1	11	HK1116373
	24.45	17	HK1116373
	29.0	29	HK1116996
	34.8	60	HK1116996
	38.4	2	HK1116996
	44.15 - 44.45	19	HK1116571
50.15 - 50.60	106	HK1116891	
KTN-BH14	0.5	24	HK1103231
	1.0	33	HK1103231
	1.5	19	HK1103231
	3.05 - 3.50	11	HK1103323
	7.10 - 7.55	13	HK1104072
	11.15 - 11.60	7	HK1104131
	15.20 - 15.65	21	HK1104131
KTN-BH15	0.6	676	HK1107106
	1.18	308	HK1107106
	1.6	308	HK1107106
	3.15 - 3.60	188	HK1107106
	7.20 - 7.65	74	HK1107280
KTN-BH16	0.5	14	HK1107280
	1.0	3	HK1107280
	1.5	4	HK1107280
	4.15 - 4.60	15	HK1107344
KTN-BH17	0.5	56	HK1103231
	1.0	17	HK1103231

Sampling Boreholes	Sampling Depth (mbgl)	Arsenic Concentration (mg/kg dry soil)	Report No.
	1.5	24	HK1103231
	3.05 - 3.50	46	HK1105394
	7.10 - 7.55	6	HK1105499
	11.15 - 11.60	6	HK1105499
KTN-BH18	0.5	33	HK1107280
	1.0	66	HK1107280
	1.5	36	HK1107280
KTN-BH19	0.5	5	HK1105617
	1.0	8	HK1105617
	1.5	2	HK1105617
	3.05 - 3.50	4	HK1105672
	6.20 - 6.65	19	HK1105775
	10.25 - 10.70	10	HK1105775
	14.30 - 14.75	34	HK1105981
KTN-BH20	0.6	17	HK1105617
	1.0	20	HK1105617
	1.6	13	HK1105617
	3.15 - 3.60	22	HK1105617
	7.20 - 7.65	95	HK1105981
	13.75 - 14.20	94	HK1106004
	18.05 - 18.50	86	HK1106104
KTN-BH21	0.6	46	HK1109644
	1.1	75	HK1109644
	1.6	81	HK1109644
	2.0	46	HK1109644
	3.55 - 4.00	18	HK1109757
	6.55 - 7.00	3	HK1109757
	11.05 - 11.50	39	HK1109847
KTN-BH22	0.5	9	HK1109644
	1.0	14	HK1109644
	1.5	30	HK1109644
	3.05 - 3.50	276	HK1109847
	7.05 - 7.50	331	HK1109985
	11.15 - 11.60	89	HK1109986
	15.20 - 15.65	57	HK1110110
	19.25 - 19.70	33	HK1110110
KTN-BH23	0.5	11	HK1110310
	1.0	20	HK1110310
	1.5	15	HK1110310
	3.05 - 3.50	18	HK1110465
	7.10 - 7.55	13	HK1110465
	11.15 - 11.60	71	HK1110518

Sampling Boreholes	Sampling Depth (mbgl)	Arsenic Concentration (mg/kg dry soil)	Report No.
	14.15 - 14.60	60	HK1110518
	18.20 - 18.65	56	HK1110518
KTN-BH24	0.5	8	HK1110310
	1.0	9	HK1110310
	1.5	17	HK1110310
	2.0	14	HK1110310
	3.55 - 3.95	8	HK1110465
	7.60 - 8.05	4	HK1110468
	12.75 - 13.20	<1	HK1110621
	16.75 - 17.00	<1	HK1110621
KTN-BH25	0.5	38	HK1111669
	1.0	38	HK1111669
	1.5	40	HK1111669
	3.05 - 3.50	38	HK1111669
	7.55 - 8.00	7	HK1111680
	13.15 - 13.60	2	HK1111680
KTN-BH26	0.5	76	HK1110310
	1.0	83	HK1110310
	1.5	68	HK1110310
	3.05 - 3.50	1	HK1110465
	6.70 - 7.15	106	HK1110465
KTN-BH28	0.5	38	HK1111108
	1.0	64	HK1111108
	1.5	39	HK1111108
	3.05 - 3.50	85	HK1111108
	7.60 - 8.05	66	HK1111185
	12.20 - 12.65	28	HK1111309
	16.25 - 16.70	23	HK1111547

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

Client	: CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT	Laboratory	: ALS Technichem HK Pty Ltd	Page	: 1 of 3
Contact	: IR POPHIL LAM	Contact	: Chan Kwok Fai, Godfrey	Work Order	: HK1103231
Address	: GEOTECHNICAL PROJECTS DIVISION, GEOTECHNICAL ENGINEERING OFFICE, 23/F., KWUN TONG VIEW, 410 KWUN TONG ROAD, KOWLOON, HONG KONG	Address	: 1/F., Chung Shun Knitting Centre, 1 -3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail	: Pophilkiam@cedd.gov.hk	E-mail	: Godfrey.Chan@alsenviro.com	Date received	: 11-FEB-2011
Telephone	: +852 2716 8609	Telephone	: +852 2610 1044	Date of issue	: 24-FEB-2011
Facsimile	: ----	Facsimile	: +852 2610 2021	No. of samples	: Received : 6
Project	: AGREEMENT NO CE 61.2007(CE) - NORTH EAST NEW TERRITORIES DEVELOPMENT AREAS	Quote number	: ----		: Analysed : 6
Order number	: GE/2009/16.12				
C-O-Number	: H013621				
Site	: MA TSO LUNG VILLAGE				

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK1103231 supersedes any previous reports with this reference. The completion date of analysis is 17-FEB-2011. Results apply to 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 process purposes. Abbreviations: CAS number = Chemical Abstract Services number. LOR = Limit of reporting.

Specific comments for Work Order HK1103231: Project Name: Agreement No. CE 61/2007(CE) - North East New Territories Development Areas, Planning and Engineering Study Ground Investigation Phase 2 and Laboratory Testing Service (Batch 1), Drillhole Nos. KTN-BH12, KTN-BN14 to KTN-BH20.

Sample(s) were received in a chilled condition.

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

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

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Signatory

Fung Lim Chee, Richard

Position

General Manager

Authorised results for:-

Inorganics



Analytical Results

Sub-Matrix: SOIL

Client sample ID	Client sampling date / time	Laboratory sample ID	Compound	
			LOR Unit	EA055: Moisture Content (dried @ 103°C) 0.1 % EA055: Physical and Aggregate Properties
KTN-BH14 0.5M	11-FEB-2011 10:30	HK1103231-001	4.3	EG020: Arsenic 1 mg/kg EG: Metals and Major Cations 24
KTN-BH14 1.0M	11-FEB-2011 11:00	HK1103231-002	36.6	33
KTN-BH14 1.5M	11-FEB-2011 11:30	HK1103231-003	24.4	19
KTN-BH17 0.5M	11-FEB-2011 13:30	HK1103231-004	6.7	56
KTN-BH17 1.0M	11-FEB-2011 14:10	HK1103231-005	12.8	17
KTN-BH17 1.5M	11-FEB-2011 14:30	HK1103231-006	13.2	24



Page Number : 3 of 3
 Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
 Work Order : HK1103231

Laboratory Duplicate (DUP) Report

Matrix: SOIL		Laboratory Duplicate (DUP) Report	
Laboratory sample ID	Client sample ID	Method: Compound	Compound
EA/ED: Physical and Aggregate Properties (QC Lot: 1669450)			
HK1103230-002	Anonymous	EA055: Moisture Content (dried @ 103°C)	20.7
HK1103272-001	Anonymous	EA055: Moisture Content (dried @ 103°C)	43.5
EG: Metals and Major Cations (QC Lot: 1669484)			
HK1103131-002	Anonymous	EG020: Arsenic	6
HK1103272-003	Anonymous	EG020: Arsenic	12

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

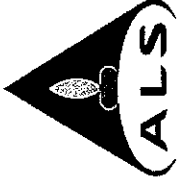
Matrix: SOIL		Method Blank (MB) Report		Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report			
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	LCS	DCS
EG: Metals and Major Cations (QC Lot: 1669484)	7440-38-2	1	mg/kg	<1	5 mg/kg	93.8	---
EG020: Arsenic	7440-38-2	1	mg/kg	<1	5 mg/kg	93.8	---

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	Compound	MS	MSD
EG: Metals and Major Cations (QC Lot: 1669484)	7440-38-2	EG020: Arsenic	5 mg/kg	95.6	---
HK1103131-001	Anonymous	EG020: Arsenic	5 mg/kg	95.6	---

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ALS Laboratory Group ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

Cifient	: CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT	Laboratory	: ALS Technichem HK Pty Ltd	Page	: 1 of 4
Contact	: IR POPHIL LAM	Contact	: Chan Kwok Fai, Godfrey	Work Order	: HK1103323
Address	: GEOTECHNICAL PROJECTS DIVISION, GEOTECHNICAL ENGINEERING OFFICE, 23/F., KWUN TONG VIEW, 410 KWUN TONG ROAD, KOWLOON, HONG KONG	Address	: 1/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong	Amendment	: 1
E-mail	: Pophilkiam@cedd.gov.hk	E-mail	: Godfrey.Chan@alsenviro.com		
Telephone	: +852 2716 8609	Telephone	: +852 2610 1044		
Facsimile	: ----	Facsimile	: +852 2610 2021		
Project	: AGREEMENT NO CE 61 2007(CE) - NORTH EAST NEW TERRITORIES DEVELOPMENT AREAS	Quote number	: ----	Date Samples Received	: 12-FEB-2011
Order number	: GE/2009/16.12			Issue Date	: 22-FEB-2011
C-O-C number	: H013622			No. of samples received	: 1
Site	: MA TSO LUNG VILLAGE			No. of samples analysed	: 1

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Signatories

Fung Lim Chee, Richard

Position

General Manager

Authorised results for

Inorganics



Page Number : 2 of 4
Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Work Order : HK1103323, Amendment 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: 17-FEB-2011

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: **HK1103323**

Project Name: Agreement No. CE 61/2007(CE) - North East New Territories Development Areas, Planning and Engineering Study Ground Investigation Phase 2 and Laboratory Testing Service (Batch 1), Drillhole Nos. KTN-BH12, KTN-BH14 to KTN-BH20.

Sample(s) were received in a chilled condition.

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

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



Page Number : 3 of 4
 Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
 Work Order : HK1103323, Amendment 1

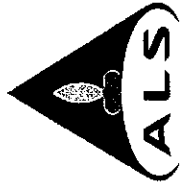
Analytical Results

Sub-Matrix: SOIL

Compound	CAS Number	LOR	Client sample ID	
			Client sampling date / time	Unit
EA055: Physical and Aggregate Properties			KTN-BH14	
EA055: Moisture Content (dried @ 103° C)	---	0.1	3.05-3.50M	
EG: Metals and Major Cations			12-FEB-2011 11:00	
EG020: Arsenic	7440-38-2	1	HK1103323-001	21.4
				mg/kg
				11

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CERTIFICATE OF ANALYSIS

Client	: CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT	Laboratory	: ALS Technichem HK Pty Ltd	Page	: 1 of 4
Contact	: IR POPHIL LAM	Contact	: Chan Kwok Fai, Godfrey	Work Order	: HK1104072
Address	: GEOTECHNICAL PROJECTS DIVISION, GEOTECHNICAL ENGINEERING OFFICE, 23/F., KWUN TONG VIEW, 410 KWUN TONG ROAD, KOWLOON, HONG KONG	Address	: 1/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail	: Pophilkiam@cedd.gov.hk	E-mail	: Godfrey.Chan@alsenviro.com		
Telephone	: +852 2716 8609	Telephone	: +852 2610 1044	Date Samples Received	: 19-FEB-2011
Facsimile	: ----	Facsimile	: +852 2610 2021	Issue Date	: 01-MAR-2011
Project	: AGREEMENT NO CE 61 2007(CE) - NORTH EAST NEW TERRITORIES DEVELOPMENT AREAS	Quote number	: ----	No. of samples received	: 1
Order number	: GE/2009/16.12			No. of samples analysed	: 1
C-O-C number	: H013623				
Site	: MA TSO LUNG				

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Signatories

PP Fung Lim Chee, Richard

Position

General Manager

Authorised results for

Inorganics

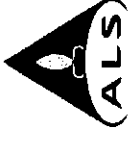
ALS Laboratory Group

Trading Name: ALS Technichem (HK) Pty Ltd

1/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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Page Number : 2 of 4
Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Work Order : HK1104072

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: **HK1104072**

Project Name: Agreement No. CE 61/2007(CE) - North East New Territories Development Areas, Planning and Engineering Study Ground Investigation Phase 2 and Laboratory Testing Service (Batch 1), Drillhole Nos. KTN-BH12, KTN-BN14 to KTN-BH20.

Sample(s) were received in a chilled condition.

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

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



Page Number : 3 of 4
 Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
 Work Order : HK1104072

Analytical Results

Sub-Matrix: SOIL

Compound	Client sample ID	
	CAS Number	Unit
EA055: Moisture Content (dried @ 103°C)	---	18.6
EG: Metals and Major Cations	---	---
EG020: Arsenic	7440-38-2	13



Page Number : 4 of 4
 Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
 Work Order : HK1104072

Laboratory Duplicate (DUP) Report

Laboratory sample ID	Client sample ID	Method: Compound	LOR	Unit	Laboratory Duplicate (DUP) Report		RPD (%)
					CAS Number	Duplicate Result	
EA/ED: Physical and Aggregate Properties (QC Lot: 1680735)							
HK1104055-008	Anonymous	EA055: Moisture Content (dried @ 103°C)	0.1	%		42.7	42.9
HK1104093-001	Anonymous	EA055: Moisture Content (dried @ 103°C)	0.1	%		14.5	14.6
EG: Metals and Major Cations (QC Lot: 1680683)							
HK1104058-001	Anonymous	EG020: Arsenic	1	mg/kg		11	9
HK1104072-001	KTN-BH14.7.10-7.55M	EG020: Arsenic	1	mg/kg		13	14

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

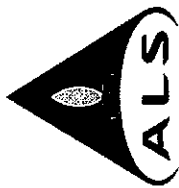
Method Blank (MB) Report				Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report			
Method: Compound	CAS Number	LOR	Unit	Spike Concentration	Spike Recovery (%)	DCS	RPD (%)
EG: Metals and Major Cations (QC Lot: 1680683)	7440-38-2	1	mg/kg	5 mg/kg	85.1	115	
EG020: Arsenic							

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

Laboratory sample ID	Client sample ID	Method: Compound	Spike Concentration	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report			RPD (%)
				MS	MSD	Value	
EG: Metals and Major Cations (QC Lot: 1680683)	7440-38-2	EG020: Arsenic	5 mg/kg	84.0	75	125	
HK1104055-008	Anonymous						

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

Client	: CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT	Laboratory	: ALS Technichem HK Pty Ltd	Page	: 1 of 4
Contact	: IR POPHIL LAM	Contact	: Chan Kwok Fai, Godfrey	Work Order	: HK1104131
Address	: GEOTECHNICAL PROJECTS DIVISION, GEOTECHNICAL ENGINEERING OFFICE, 23/F., KWUN TONG VIEW, 410 KWUN TONG ROAD, KOWLOON, HONG KONG	Address	: 1/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail	: Pophilkiam@cedd.gov.hk	E-mail	: Godfrey.Chan@alsenviro.com		
Telephone	: +852 2716 8609	Telephone	: +852 2610 1044	Date Samples Received	: 21-FEB-2011
Facsimile	: ---	Facsimile	: +852 2610 2021	Issue Date	: 02-MAR-2011
Project	: AGREEMENT NO CE 61 2007(CE) - NORTH EAST NEW TERRITORIES DEVELOPMENT AREAS	Quote number	: ---	No. of samples received	: 2
Order number	: GE/2009/16.12			No. of samples analysed	: 2
C-O-C number	: H013624				
Site	: MA TSO LUNG VILLAGE				

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Signatories

PP Fung Lim Chee, Richard

Position

General Manager

Authorised results for

Inorganics

ALS Laboratory Group

Trading Name: ALS Technichem (HK) Pty Ltd

1/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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Page Number : 2 of 4
Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Work Order : HK1104131

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: 25-FEB-2011

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: HK1104131

Project Name: Agreement No. CE 61/2007(CE) - North East New Territories Development Areas, Planning and Engineering Study Ground Investigation Phase 2 and Laboratory Testing Service (Batch 1), Drillhole Nos. KTN-BH12, KTN-BN14 to KTN-BH20.

Sample(s) were received in a chilled condition.

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

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



Page Number : 4 of 4
 Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
 Work Order : HK1104131

Laboratory Duplicate (DUP) Report

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Laboratory Duplicate (DUP) Report		RPD (%)
						Original Result	Duplicate Result	
EA/ED: Physical and Aggregate Properties (QC Lot: 1680735)								
HK1104055-008	Anonymous	EA055: Moisture Content (dried @ 103°C)	---	0.1	%	42.7	42.9	0.5
HK1104093-001	Anonymous	EA055: Moisture Content (dried @ 103°C)	---	0.1	%	14.5	14.6	0.0
EG: Metals and Major Cations (QC Lot: 1680683)								
HK1104058-001	Anonymous	EG020: Arsenic	7440-38-2	1	mg/kg	11	9	14.3
HK1104072-001	Anonymous	EG020: Arsenic	7440-38-2	1	mg/kg	13	14	0.0

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

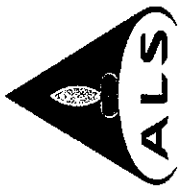
Method: Compound	CAS Number	LOR	Unit	Result	Method Blank (MB) Report		Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report					
					Spike Concentration	Spike Recovery (%)	LCS	DCS	Recovery Limits (%)	Low	High	Value
EG: Metals and Major Cations (QC Lot: 1680683)	7440-38-2	1	mg/kg	<1	5 mg/kg	85.1	85	115	---	---	---	---
EG020: Arsenic												

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

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Spike Concentration	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report					
					MS	MSD	Recovery Limits (%)	Value	Control Limit	
EG: Metals and Major Cations (QC Lot: 1680683)	Anonymous	EG020: Arsenic	7440-38-2	5 mg/kg	84.0	---	75	125	---	---
HK1104055-008	Anonymous									

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ALS Laboratory Group ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

Client	: CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT	Laboratory	: ALS Technichem HK Pty Ltd	Page	: 1 of 4
Contact	: IR POPHIL LAM	Contact	: Chan Kwok Fai, Godfrey	Work Order	: HK1105394
Address	: GEOTECHNICAL PROJECTS DIVISION, GEOTECHNICAL ENGINEERING OFFICE, 23F., KWUN TONG VIEW, 410 KWUN TONG ROAD, KOWLOON, HONG KONG	Address	: 14/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong	Amendment	: 1
E-mail	: Pophilkiam@cedd.gov.hk	E-mail	: Godfrey.Chan@alsenviro.com		
Telephone	: +852 2716 8609	Telephone	: +852 2610 1044		
Facsimile	: ---	Facsimile	: +852 2610 2021		
Project	: AGREEMENT NO CE 61_2007(CE) - NORTH EAST NEW TERRITORIES DEVELOPMENT AREAS	Quote number	: ---	Date Samples Received	: 05-MAR-2011
Order number	: GE/2009/16.12			Issue Date	: 17-MAR-2011
C-O-C number	: H013625			No. of samples received	: 1
Site	: MA TSO LUNG VILLAGE			No. of samples analysed	: 1

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Signatories

PP Fung Lim Chee, Richard 

Position

General Manager

Authorised results for
Inorganics

ALS Laboratory Group
ALS Technichem (HK) Pty Ltd

Trading Name: ALS Technichem (HK) Pty Ltd
14/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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Page Number : 2 of 4
Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Work Order : HK1105394, Amendment 1

General Comments

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14-MAR-2011

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: **HK1105394**

Project Name: Agreement No. CE 61/2007(CE) - North East New Territories Development Areas, Planning and Engineering Study Ground Investigation Phase 2 and Laboratory Testing Service (Batch 1), Drillhole Nos. KTN-BH12, KTN-BH14 to KTN-BH20.

Sample(s) were received in a chilled condition.

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

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



Page Number : 3 of 4
 Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
 Work Order : HK1105394, Amendment 1

Analytical Results

Sub-Matrix: SOIL

Compound	CAS Number	LOR	Unit	Client sample ID
EA/ED: Physical and Aggregate Properties				KTN-BH17
EA055: Moisture Content (dried @ 103° C)	---	0.1	%	3.05-3.50M 05-MAR-2011 11:00
EG: Metals and Major Cations	7440-38-2	1	mg/kg	HK1105394-001
EG020: Arsenic				19.7
				46



Page Number : 4 of 4
 Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
 Work Order : HK1105394, Amendment 1

Laboratory Duplicate (DUP) Report

Laboratory sample ID		Client sample ID	Method: Compound	LOR	Unit	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and Aggregate Properties (QC Lot: 1697574)								
HK1105283-002	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	16.4	16.6	1.2
HK1105283-012	Anonymous	EA058: Moisture Content (dried @ 103°C)		0.1	%	29.8	27.9	6.8
EG: Metals and Major Cations (QC Lot: 1697574)								
HK1105394-001	KTN-BH17 3.05-3.50M	EG020: Arsenic	7440-38-2	1	mg/kg	46	40	13.7

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

Method Blank (MB) Report				Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report			
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	Spike Recovery (%)	Recovery Limits (%)
					LCS	DCS	Low High
EG: Metals and Major Cations (QC Lot: 1697574)	7440-38-2	1	mg/kg	<1	88.9	---	85 115
EG020: Arsenic							

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

Laboratory sample ID		Client sample ID	Method: Compound	Spike Concentration	MS	MSD	Recovery Limits (%)	RPD (%)
					MS	MSD	Low High	Value
Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report								
EG: Metals and Major Cations (QC Lot: 1697574)	Anonymous	EG020: Arsenic	7440-38-2	5 mg/kg	88.5	---	75 125	---
HK1105284-002	Anonymous							

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CERTIFICATE OF ANALYSIS

Client	: CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT	Laboratory	: ALS Technichem HK Pty Ltd	Page	: 1 of 4
Contact	: IR POPHIL LAM	Contact	: Chan Kwok Fai, Godfrey	Work Order	: HK1105499
Address	: GEOTECHNICAL PROJECTS DIVISION, GEOTECHNICAL ENGINEERING OFFICE, 23/F., KWUN TONG VIEW, 410 KWUN TONG ROAD, KOWLOON, HONG KONG	Address	: 1/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail	: Pophilkiam@cedd.gov.hk	E-mail	: Godfrey.Chan@alsenviro.com		
Telephone	: +852 2716 8609	Telephone	: +852 2610 1044		
Facsimile	: ----	Facsimile	: +852 2610 2021		
Project	: AGREEMENT NO CE 61_2007(CE) - NORTH EAST NEW TERRITORIES DEVELOPMENT AREAS	Quote number	: ----	Date Samples Received	: 07-MAR-2011
Order number	: GE/2009/16.12			Issue Date	: 16-MAR-2011
C-O-C number	: H013626			No. of samples received	: 2
Site	: MA TSO LUNG VILLAGE			No. of samples analysed	: 2

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Signatories

PP Fung Lim Chee, Richard

Position

General Manager

Authorised results for

Inorganics

ALS Laboratory Group

Trading Name: ALS Technichem (HK) Pty Ltd

1/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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Page Number : 2 of 4
Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Work Order : HK1105499

General Comments

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14-MAR-2011

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: **HK1105499**

Project Name: Agreement No. CE 61/2007(CE) - North East New Territories Development Areas, Planning and Engineering Study Ground Investigation Phase 2 and Laboratory Testing Service (Batch 1), Drillhole Nos. KTN-BH12, KTN-BN14 to KTN-BH20.

Sample(s) were received in a chilled condition.

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

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



Page Number : 4 of 4
 Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
 Work Order : HK1105499

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: 1701480)									
HK1105422-001	Anonymous	EA055:	Moisture Content (dried @ 103°C)		0.1	%	17.6	17.8	0.9
HK1105587-001	Anonymous	EA055:	Moisture Content (dried @ 103°C)		0.1	%	16.8	17.3	2.4
EG: Metals and Major Cations (QC Lot: 1701503)									
HK1105505-004	Anonymous	EG020:	Arsenic	7440-38-2	0.5	mg/kg	0.9	1.0	14.0

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

Method Blank (MB) Report				Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report									
Method	Compound	CAS Number	Result	Spike Concentration	LCS	Spike Recovery (%)	DCS	Recovery Limits (%)	Low	High	Value	RPD (%)	Control Limit
EG:	Metals and Major Cations	(QC Lot: 1701503)											
EG020:	Arsenic	7440-38-2	<1	5 mg/kg	87.0				85	115			

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

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report													
Laboratory sample ID	Client sample ID	Method	Compound	CAS Number	Spike Concentration	MS	MSD	Recovery Limits (%)	Low	High	Value	RPD (%)	Control Limit
EG: Metals and Major Cations (QC Lot: 1701503)													
HK1105499-001	IKTN-BH17 7.10-7.55M	EG020:	Arsenic	7440-38-2	5 mg/kg	83.4			75	125			

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CERTIFICATE OF ANALYSIS

Client	: CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT	Laboratory	: ALS Technichem HK Pty Ltd	Page	: 1 of 6
Contact	: IR POPHIL LAM	Contact	: Chan Kwok Fai, Godfrey	Work Order	: HK1105617
Address	: GEOTECHNICAL PROJECTS DIVISION, GEOTECHNICAL ENGINEERING OFFICE, 23/F., KWUN TONG VIEW, 410 KWUN TONG ROAD, KOWLOON, HONG KONG	Address	: 1/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail	: Pophilkiam@cedd.gov.hk	E-mail	: Godfrey.Chan@alsenviro.com		
Telephone	: +852 2716 8609	Telephone	: +852 2610 1044	Date Samples Received	: 08-MAR-2011
Facsimile	: ----	Facsimile	: +852 2610 2021	Issue Date	: 17-MAR-2011
Project	: AGREEMENT NO CE 61_2007(CE) - NORTH EAST NEW TERRITORIES DEVELOPMENT AREAS	Quote number	: ----	No. of samples received	: 10
Order number	: GE/2009/16.12			No. of samples analysed	: 10
C-O-C number	: H013627				
Site	: MA TSO LUNG VILLAGE				

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Signatories

Fung Lim Chee, Richard 

Position

General Manager

Authorised results for
Inorganics

ALS Laboratory Group

Trading Name: ALS Technichem (HK) Pty Ltd

1/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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Page Number : 2 of 6
Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Work Order : HK1105617

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: **HK1105617**

Project Name: Agreement No. CE 61/2007(CE) - North East New Territories Development Areas, Planning and Engineering Study Ground Investigation Phase 2 and Laboratory Testing Service (Batch 1), Drillhole Nos. KTN-BH12, KTN-BN14 to KTN-BH20.

Sample(s) were received in a chilled condition.

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

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

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

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



Page Number : 3 of 6
 Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
 Work Order : HK1105617

Analytical Results

Compound	CAS Number	LOR	Unit	Client sample ID									
				Client sampling date / time	Client sample ID	Client sampling date / time	Client sample ID						
EA/ED: Physical and Aggregate Properties			%	08-MAR-2011 10:00	KTN-BH19 0.5M	08-MAR-2011 10:30	KTN-BH19 1.0M	08-MAR-2011 11:00	KTN-BH19 1.5M	08-MAR-2011 11:15	KTN-BH20 0.6M	08-MAR-2011 11:30	KTN-BH20 1.10M
EA055: Moisture Content (dried @ 103°C)		---	%		7.0		9.2		11.7		15.7		11.2
EG: Metals and Major Cations			mg/kg		5		8		2		17		20
EG020: Arsenic	7440-38-2	1	mg/kg		5		8		2		17		20



Laboratory Duplicate (DUP) Report

Laboratory sample ID		Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
Matrix: SOIL									
EAJED: Physical and Aggregate Properties (QC Lot: 1702568)									
HK1105617-001	KTN-BH19 0.5M		EA055: Moisture Content (dried @ 103°C)		0.1	%	7.0	7.5	7.6
HK1105737-002	Anonymous		EA055: Moisture Content (dried @ 103°C)		0.1	%	47.7	47.0	1.6
EG: Metals and Major Cations (QC Lot: 1703283)									
HK1105581-001	Anonymous		EG020: Arsenic	7440-38-2	1	mg/kg	<1	<1	0.0
HK1105617-005	KTN-BH20 1.10M		EG020: Arsenic	7440-38-2	1	mg/kg	20	20	0.0
Matrix: WATER									
Laboratory sample ID Client sample ID Method: Compound									
EG: Metals and Major Cations - Filtered (QC Lot: 1703297)									
HK1105617-009	KTN-BH20 EQUIPMENT		EG020: Arsenic	7440-38-2	10	µg/L	<10	<10	0.0
	BLANK								

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

Method Blank (MB) Report				Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report										
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	LCS	DCS	Spike Recovery (%)	Recovery Limits (%)	Low	High	Value	Control Limit	RPD (%)
Matrix: SOIL														
EG: Metals and Major Cations (QC Lot: 1703283)														
EG020: Arsenic	7440-38-2	1	mg/kg	<1	5 mg/kg	91.4	---	85	115	---	---	---	---	---
Matrix: WATER														
Method Blank (MB) Report														
Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report														
EG: Metals and Major Cations - Filtered (QC Lot: 1703297)														
EG020: Arsenic	7440-38-2	10	µg/L	<10	100 µg/L	87.6	---	85	115	---	---	---	---	---

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

Laboratory sample ID		Client sample ID	Method: Compound	CAS Number	Spike Concentration	MS	MSD	Recovery Limits (%)	Low	High	Value	Control Limit	RPD (%)
Matrix: SOIL													
Laboratory sample ID Client sample ID Method: Compound													
EG: Metals and Major Cations (QC Lot: 1703283)													
HK1105579-001	Anonymous		EG020: Arsenic	7440-38-2	5 mg/kg	89.3	---	75	125	---	---	---	---
Matrix: WATER													
Laboratory sample ID Client sample ID Method: Compound													
EG: Metals and Major Cations - Filtered (QC Lot: 1703297)													
HK1105617-008	KTN-BH20 FIELD BLANK		EG020: Arsenic	7440-38-2	100 µg/L	89.1	---	75	125	---	---	---	---

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ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

Client	: CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT	Laboratory	: ALS Technichem HK Pty Ltd	Page	: 1 of 4
Contact	: IR POPHIL LAM	Contact	: Chan Kwok Fai, Godfrey	Work Order	: HK1105672
Address	: GEOTECHNICAL PROJECTS DIVISION, GEOTECHNICAL ENGINEERING OFFICE, 23/F., KWUN TONG VIEW, 410 KWUN TONG ROAD, KOWLOON, HONG KONG	Address	: 1/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail	: Pophilkiam@cedd.gov.hk	E-mail	: Godfrey.Chan@alsenviro.com		
Telephone	: +852 2716 8609	Telephone	: +852 2610 1044		
Facsimile	: ----	Facsimile	: +852 2610 2021		
Project	: AGREEMENT NO CE 61.2007(CE) - NORTH EAST NEW TERRITORIES DEVELOPMENT AREAS	Quote number	: ----	Date Samples Received	: 09-MAR-2011
Order number	: GE/2009/16.12			Issue Date	: 18-MAR-2011
C-O-C number	: H013628			No. of samples received	: 1
Site	: MA TSO LUNG VILLAGE			No. of samples analysed	: 1

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Signatories

Richard Fung Lim Chee

Position

General Manager

Authorised results for

Inorganics

ALS Laboratory Group

Trading Name: ALS Technichem (HK) Pty Ltd

1/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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Page Number : 2 of 4
Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Work Order HK1105672

General Comments

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14-MAR-2011

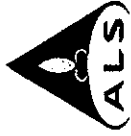
Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
Specific comments for Work Order: **HK1105672**

Project Name: Agreement No. CE 61/2007(CE) - North East New Territories Development Areas, Planning and Engineering Study Ground Investigation Phase 2 and Laboratory Testing Service
(Batch 1), Drillhole Nos. KTN-BH12, KTN-BH14 to KTN-BH20.

Sample(s) were received in a chilled condition.

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

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



Page Number : 4 of 4
 Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
 Work Order : HK1105672

Laboratory Duplicate (DUP) Report

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report		RPD (%)		
				LOR	Unit		Original Result	Duplicate Result
EA/ED: Physical and Aggregate Properties (QC Lot: 1702568)								
HK1105617-001	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	7.0	7.5	7.6
HK1105737-002	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	47.7	47.0	1.6
EG: Metals and Major Cations (QC Lot: 1703283)								
HK1105581-001	Anonymous	EG020: Arsenic	7440-38-2	1	mg/kg	<1	<1	0.0
HK1105617-005	Anonymous	EG020: Arsenic	7440-38-2	1	mg/kg	20	20	0.0

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

Method: Compound	CAS Number	Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report									
		LOR	Unit	Result	Spike Concentration	LCS	Spike Recovery (%)	DCS	Recovery Limits (%)	High	Low	High	Value	Control Limit
EG: Metals and Major Cations (QC Lot: 1703283)	7440-38-2	1	mg/kg	<1	5 mg/kg	91.4	85	115						
EG020: Arsenic														

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

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Spike Concentration	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report			
					MS	MSD	Recovery Limits (%)	RPD (%)
EG: Metals and Major Cations (QC Lot: 1703283)	Anonymous	EG020: Arsenic	7440-38-2	5 mg/kg	89.3	75	125	
HK1105579-001								

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

Client	: CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT	Laboratory	: ALS Technichem HK Pty Ltd	Page	: 1 of 4
Contact	: IR POPHIL LAM	Contact	: Chan Kwok Fai, Godfrey	Work Order	: HK1105775
Address	: GEOTECHNICAL PROJECTS DIVISION, GEOTECHNICAL ENGINEERING OFFICE, 23/F., KWUN TONG VIEW, 410 KWUN TONG ROAD, KOWLOON, HONG KONG	Address	: 1/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong	Amendment	: 1
E-mail	: Pophilkiam@cedd.gov.hk	E-mail	: Godfrey.Chan@alsenviro.com	Date Samples Received	: 10-MAR-2011
Telephone	: +852 2716 8609	Telephone	: +852 2610 1044	Issue Date	: 21-APR-2011
Facsimile	: ----	Facsimile	: +852 2610 2021	No. of samples received	: 2
Project	: AGREEMENT NO CE 61.2007(CE) - NORTH EAST NEW TERRITORIES DEVELOPMENT AREAS	Quote number	: ----	No. of samples analysed	: 2
Order number	: GE/2009/16.12				
C-O-C number	: H013629				
Site	: MA TSO LUNG VILLAGE				

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Signatories

Mr Fung Lim Chee, Richard

Position

General Manager

Authorised results for

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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Page Number : 2 of 4
Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Work Order HK1105775, Amendment 1

General Comments

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16-MAR-2011

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: **HK1105775**

Project Name: Agreement No. CE 61/2007(CE) - North East New Territories Development Areas, Planning and Engineering Study Ground Investigation Phase 2 and Laboratory Testing Service (Batch 1), Drillhole Nos. KTN-BH12, KTN-BH14 to KTN-BH20.

Sample(s) were received in a chilled condition.

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

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



Page Number : 3 of 4
 Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
 Work Order : HK1105775, Amendment 1

Analytical Results

Sub-Matrix: SOIL

Compound	CAS Number	Client sample ID	
		LOR	Unit
EA/ED: Physical and Aggregate Properties			
EA055: Moisture Content (dried @ 103°C)	---	0.1	%
EG: Metals and Major Cations			
EG020: Arsenic	7440-38-2	1	mg/kg
		28.0	27.7
		19	10



Page Number : 4 of 4
 Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
 Work Order : HK1105775, Amendment 1

Laboratory Duplicate (DUP) Report

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report			RPD (%)
				LOR	Unit	Duplicate Result	
EA/ED: Physical and Aggregate Properties (QC Lot: 1705332)							
HK1105735-001	Anonymous	EA055: Moisture Content (dried @ 103°C)	---	0.1	%	47.6	50.3
HK1105814-001	Anonymous	EA055: Moisture Content (dried @ 103°C)	---	0.1	%	9.1	9.3
EG: Metals and Major Cations (QC Lot: 1705383)							
HK1105735-002	Anonymous	EG020: Arsenic	7440-38-2	1	mg/kg	22	22
HK1105814-002	Anonymous	EG020: Arsenic	7440-38-2	1	mg/kg	5	6

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

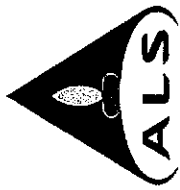
Method: Compound	CAS Number	Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report					
		LOR	Unit	Result	Spike Concentration	LCS	Spike Recovery (%)	DCS	Recovery Limits (%)	RPD (%)
EG020: Arsenic	7440-38-2	1	mg/kg	<1	5 mg/kg	94.7	85	115	---	---

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

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report					
				Spike Concentration	MS	MSD	Recovery Limits (%)	RPD (%)	
EG: Metals and Major Cations (QC Lot: 1705383)	Anonymous	EG020: Arsenic	7440-38-2	5 mg/kg	88.4	---	75	125	---

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group ANALYTICAL CHEMISTRY & TESTING SERVICES




CERTIFICATE OF ANALYSIS

Client	: CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT	Laboratory	: ALS Technichem HK Pty Ltd	Page	: 1 of 4
Contact	: IR POPHIL LAM	Contact	: Chan Kwok Fai, Godfrey	Work Order	: HK1105981
Address	: GEOTECHNICAL PROJECTS DIVISION, GEOTECHNICAL ENGINEERING OFFICE, 23/F., KWUN TONG VIEW, 410 KWUN TONG ROAD, KOWLOON, HONG KONG	Address	: 1/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong	Amendment	: 1
E-mail	: Pophilkiam@cedd.gov.hk	E-mail	: Godfrey.Chan@alsenviro.com		
Telephone	: +852 2716 8609	Telephone	: +852 2610 1044		
Facsimile	: -----	Facsimile	: +852 2610 2021		
Project	: AGREEMENT NO CE 61_2007(CE) - NORTH EAST NEW TERRITORIES DEVELOPMENT AREAS	Quote number	: -----	Date Samples Received	: 11-MAR-2011
Order number	: GE/2009/16.12			Issue Date	: 21-APR-2011
C-O-C number	: H013630			No. of samples received	: 2
Site	: MA TSO LUNG VILLAGE			No. of samples analysed	: 2

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Signatories

PP Fung Lim Chee, Richard 

Position

General Manager

Authorised results for

Inorganics

ALS Laboratory Group

Trading Name: **ALS Technichem (HK) Pty Ltd**
1/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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Page Number : 2 of 4
Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Work Order : HK1105981, Amendment 1

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: HK1105981

Project Name: Agreement No. CE 61/2007(CE) - North East New Territories Development Areas, Planning and Engineering Study Ground Investigation Phase 2 and Laboratory Testing Service (Batch 1), Drillhole Nos. KTN-BH12, KTN-BH14 to KTN-BH20.

Sample(s) were received in a chilled condition.

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

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



Page Number : 3 of 4
 Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
 Work Order : HK1105981, Amendment 1

Analytical Results

Sub-Matrix: SOIL

Compound	Client sample ID		Client sampling date / time	Unit
	CAS Number	LOR		
EA/ED: Physical and Aggregate Properties				
EA055: Moisture Content (dried @ 103°C)		0.1	%	27.3
EG: Metals and Major Cations				
EG020: Arsenic	7440-38-2	1	mg/kg	95



Page Number : 4 of 4
 Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
 Work Order : HK1105981, Amendment 1

Laboratory Duplicate (DUP) Report

Laboratory sample ID		Client sample ID	Method: Compound	LOR	Unit	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and Aggregate Properties (QC Lot: 1707158)								
HK1105923-001	Anonymous		EA055: Moisture Content (dried @ 103°C)	0.1	%	14.1	14.8	4.8
HK1105981-002	KTN-BH20 7.20-7.65M		EA055: Moisture Content (dried @ 103°C)	0.1	%	27.3	28.6	4.7
EG: Metals and Major Cations (QC Lot: 1709027)								
HK1105981-002	KTN-BH20 7.20-7.65M	7440-38-2	EG020: Arsenic	1	mg/kg	95	102	6.8
HK1105992-002	Anonymous	7440-38-2	EG020: Arsenic	1	mg/kg	10	9	0.0

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

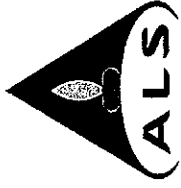
Method Blank (MB) Report		Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report										
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	Spike Recovery (%)	LCS	Recovery Limits (%)	Low	High	Value	Control Limit
EG: Metals and Major Cations (QC Lot: 1709027)	7440-38-2	1	mg/kg	<1	5 mg/kg	87.7	85	115	85	115	---	---
EG020: Arsenic												

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

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report											
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Spike Concentration	MS	MSD	Recovery Limits (%)	Low	High	Value	Control Limit
EG: Metals and Major Cations (QC Lot: 1709027)	KTN-BH19 14.30-14.75M	EG020: Arsenic	7440-38-2	5 mg/kg	# Not Determined	---	---	75	125	---	---
HK1105981-001											

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ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

Client	: CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT	Laboratory	: ALS Technichem HK Pty Ltd	Page	: 1 of 4
Contact	: IR POPHIL LAM	Contact	: Chan Kwok Fai, Godfrey	Work Order	: HK1106004
Address	: GEOTECHNICAL PROJECTS DIVISION, GEOTECHNICAL ENGINEERING OFFICE, 23/F., KWUN TONG VIEW, 410 KWUN TONG ROAD, KOWLOON, HONG KONG	Address	: 1/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail	: Pophilkiam@cedd.gov.hk	E-mail	: Godfrey.Chan@alsenviro.com		
Telephone	: +852 2716 8609	Telephone	: +852 2610 1044		
Facsimile	: ----	Facsimile	: +852 2610 2021		
Project	: AGREEMENT NO CE 61_2007(CE) - NORTH EAST NEW TERRITORIES DEVELOPMENT AREAS	Quote number	: ----	Date Samples Received	: 12-MAR-2011
Order number	: GE/2009/16.12			Issue Date	: 22-MAR-2011
C-O-C number	: H013631			No. of samples received	: 1
Site	: MA TSO LUNG VILLAGE			No. of samples analysed	: 1

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Signatories

PP Fung Lim Chee, Richard

Position

General Manager

Authorised results for

Inorganics

ALS Laboratory Group

Trading Name: ALS Technichem (HK) Pty Ltd

1/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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Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Work Order : HK1106004

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: 17-MAR-2011

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: **HK1106004**

Project Name: Agreement No. CE 61/2007(CE) - North East New Territories Development Areas, Planning and Engineering Study Ground Investigation Phase 2 and Laboratory Testing Service (Batch 1), Drillhole Nos. KTN-BH12, KTN-BH14 to KTN-BH20.

Sample(s) were received in a chilled condition.

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

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

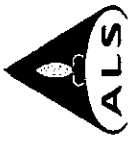


Page Number : 3 of 4
 Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
 Work Order : HK1106004

Analytical Results

Sub-Matrix: SOIL

Compound	CAS Number	LOR	Unit	Client sample ID
EA/ED: Physical and Aggregate Properties				KTN-BH20
EA055: Moisture Content (dried @ 103° C)	---	0.1	%	13.75-14.20M 12-MAR-2011 10:30 HK1106004-001
EG: Metals and Major Cations	7440-38-2	1	mg/kg	
EG020: Arsenic				18.8 94



Laboratory Duplicate (DUP) Report

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Laboratory Duplicate (DUP) Report			RPD (%)
						Original Result	Duplicate Result	Duplicate Result	
EA/ED: Physical and Aggregate Properties (QC Lot: 1707159)									
HK1105992-003	Anonymous	EA055: Moisture Content (dried @ 103°C)	---	0.1	%	50.6	50.4	0.4	0.4
HK1106006-004	Anonymous	EA055: Moisture Content (dried @ 103°C)	---	0.1	%	13.5	12.4	8.7	8.7
EG: Metals and Major Cations (QC Lot: 1709027)									
HK1105981-002	Anonymous	EG020: Arsenic	7440-38-2	1	mg/kg	95	102	6.8	6.8
HK1105992-002	Anonymous	EG020: Arsenic	7440-38-2	1	mg/kg	10	9	0.0	0.0

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

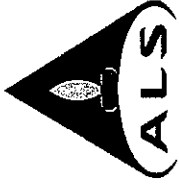
Method: Compound	CAS Number	LOR	Unit	Result	Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report		
					Spike Concentration	Spike Recovery (%)	DCS	Recovery Limits (%)	Low	High
EG: Metals and Major Cations (QC Lot: 1709027)	7440-38-2	1	mg/kg	<1	5 mg/kg	87.7	---	85	115	---
EG020: Arsenic	7440-38-2	1	mg/kg	<1	5 mg/kg	87.7	---	85	115	---

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

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Spike Concentration	MS	MSD	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report			RPD (%)
							Spike Recovery (%)	Recovery Limits (%)	High	
EG: Metals and Major Cations (QC Lot: 1709027)	7440-38-2	EG020: Arsenic	7440-38-2	5 mg/kg	# Not Determined	---	75	125	---	---
HK1105981-001	Anonymous	EG020: Arsenic	7440-38-2	5 mg/kg	# Not Determined	---	75	125	---	---

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ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

Client	: CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT	Laboratory	: ALS Technichem HK Pty Ltd	Page	: 1 of 4
Contact	: IR POPHIL LAM	Contact	: Chan Kwok Fai, Godfrey	Work Order	: HK1106104
Address	: GEOTECHNICAL PROJECTS DIVISION, GEOTECHNICAL ENGINEERING OFFICE, 23/F., KWUN TONG VIEW, 410 KWUN TONG ROAD, KOWLOON, HONG KONG	Address	: 14/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail	: Pophilkiam@cedd.gov.hk	E-mail	: Godfrey.Chan@alsenviro.com		
Telephone	: +852 2716 8609	Telephone	: +852 2610 1044		
Facsimile	: ----	Facsimile	: +852 2610 2021		
Project	: AGREEMENT NO CE 61.2007(CE) - NORTH EAST NEW TERRITORIES DEVELOPMENT AREAS	Quote number	: ----	Date Samples Received	: 14-MAR-2011
Order number	: GE/2009/16.12			Issue Date	: 22-MAR-2011
C-O-C number	: H013632			No. of samples received	: 1
Site	: MA TSO LUNG VILLAGE			No. of samples analysed	: 1

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Signatories

PP Fung Lim Chee, Richard

Position

General Manager

Authorised results for

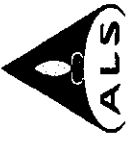
Inorganics

ALS Laboratory Group

Trading Name: ALS Technichem (HK) Pty Ltd

14/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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Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Work Order : HK1106104

General Comments

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17-MAR-2011

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Project Name: Agreement No. CE 61/2007(CE) - North East New Territories Development Areas, Planning and Engineering Study Ground Investigation Phase 2 and Laboratory Testing Service (Batch 1), Drillhole Nos. KTN-BH12, KTN-BH14 to KTN-BH20.

Sample(s) were received in a chilled condition.

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

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

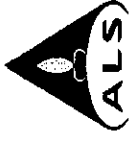


Page Number : 3 of 4
 Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
 Work Order : HK1106104

Analytical Results

Sub-Matrix: SOIL

Compound	CAS Number	LOR	Client sample ID	
			Client sampling date / time	Unit
EA/ED: Physical and Aggregate Properties				
EA055: Moisture Content (dried @ 103° C)	—	0.1	%	27.9
EG: Metals and Major Cations				
EG020: Arsenic	7440-38-2	1	mg/kg	86



Page Number : 4 of 4
 Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
 Work Order : HK1106104

Laboratory Duplicate (DUP) Report

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report		RPD (%)		
				LOR	Unit		Original Result	Duplicate Result
EATED: Physical and Aggregate Properties (QC Lot: 1709006)								
HK1106073-001	Anonymous	EA055: Moisture Content (dried @ 103°C)	---	0.1	%	19.8	21.4	7.6
HK1106131-001	Anonymous	EA055: Moisture Content (dried @ 103°C)	---	0.1	%	47.6	49.8	4.4
EG: Metals and Major Cations (QC Lot: 1709028)								
HK1106015-002	Anonymous	EG020: Arsenic	7440-38-2	1	mg/kg	9	8	0.0

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

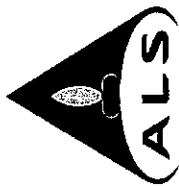
Method: Compound	CAS Number	Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report								
		LOR	Unit	Result	Spike Concentration	LCS	Spike Recovery (%)	DCS	Recovery Limits (%)	Low	High	Value	Control Limit
EG: Metals and Major Cations (QC Lot: 1709028)													
EG020: Arsenic	7440-38-2	1	mg/kg	<1	5 mg/kg	89.6	85	115	---	---	---	---	---

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

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Spike Concentration	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report			Recovery Limits (%)			Value	Control Limit	
					Spike Recovery (%)	MSD	MS	Low	High	RPD (%)			
EG: Metals and Major Cations (QC Lot: 1709028)													
HK1106015-001	Anonymous	EG020: Arsenic	7440-38-2	5 mg/kg	78.2	---	78.2	75	125	---	---	---	---

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ANALYTICAL CHEMISTRY & TESTING SERVICES



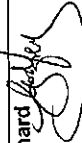
CERTIFICATE OF ANALYSIS

Client	: CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT	Laboratory	: ALS Technichem HK Pty Ltd	Page	: 1 of 4
Contact	: IR POPHIL LAM	Contact	: Chan Kwok Fai, Godfrey	Work Order	: HK1107106
Address	: GEOTECHNICAL PROJECTS DIVISION, GEOTECHNICAL ENGINEERING OFFICE, 23/F., KWUN TONG VIEW, 410 KWUN TONG ROAD, KOWLOON, HONG KONG	Address	: 1/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail	: Pophilkiam@cedd.gov.hk	E-mail	: Godfrey.Chan@alsenviro.com		
Telephone	: +852 2716 8609	Telephone	: +852 2610 1044		
Facsimile	: +852 2715 7572	Facsimile	: +852 2610 2021		
Project	: AGREEMENT NO CE 61_2007(CE) - NORTH EAST NEW TERRITORIES DEVELOPMENT AREAS	Quote number	: ----	Date Samples Received	: 25-MAR-2011
Order number	: GE/2009/16.12			Issue Date	: 07-APR-2011
C-O-C number	: H013633			No. of samples received	: 4
Site	: MA TSO LUNG VILLAGE			No. of samples analysed	: 4

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Signatories

Pp Fung Lim Chee, Richard 

Position

General Manager

Authorised results for

Inorganics

ALS Laboratory Group

Trading Name: ALS Technichem (HK) Pty Ltd

1/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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Page Number : 2 of 4
Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Work Order : HK1107106

General Comments

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29-MAR-2011

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: **HK1107106**

Project Name: Agreement No. CE 61/2007(CE) - North East New Territories Development Areas, Planning and Engineering Study Ground Investigation Phase 2 and Laboratory Testing Service (Blach 1); Drillhole Nos. KTN-BH12, KTN-BH14 to KTN-BH20.

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

Sample(s) were received in a chilled condition.

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



Page Number : 3 of 4
 Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
 Work Order : HK1107106

Analytical Results

Sub-Matrix: SOIL

Compound	CAS Number	LOR	Unit	Client sample ID				
				Client sampling date / time	Client sample ID	Client sampling date / time	Client sample ID	
EA/ED: Physical and Aggregate Properties								
EA055: Moisture Content (dried @ 103° C)		---	0.1	%	16.3	17.3	15.2	20.5
EG: Metals and Major Cations								
EG020: Arsenic	7440-38-2	1	mg/kg	676	308	308	188	



Laboratory Duplicate (DUP) Report

Matrix: SOIL		Laboratory Duplicate (DUP) Report	
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number
EA/ED: Physical and Aggregate Properties (QC Lot: 1724356)			
HK1107013-004	Anonymous	EA055: Moisture Content (dried @ 103°C)	
HK1107020-004	Anonymous	EA055: Moisture Content (dried @ 103°C)	
EG: Metals and Major Cations (QC Lot: 1724416)			
HK1106989-007	Anonymous	EG020: Arsenic	7440-38-2
HK1106989-016	Anonymous	EG020: Arsenic	7440-38-2
EG: Metals and Major Cations (QC Lot: 1724417)			
HK1107106-004	KTN-BH15 3.15-3.60M	EG020: Arsenic	7440-38-2

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

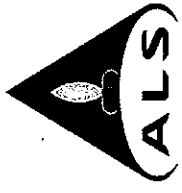
Matrix: SOIL		Method Blank (MB) Report		Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report			
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	LCS	DCS
EG: Metals and Major Cations (QC Lot: 1724416)	7440-38-2	1	mg/kg	<1	5 mg/kg	92.6	85
EG020: Arsenic						115	115
EG: Metals and Major Cations (QC Lot: 1724417)	7440-38-2	1	mg/kg	<1	5 mg/kg	91.7	85
EG020: Arsenic						115	115

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

Matrix: SOIL		Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report										
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Spike Concentration	MS	MSD	Recovery Limits (%)	Low	High	Value	RPD (%)	Control Limit
EG: Metals and Major Cations (QC Lot: 1724416)	Anonymous	EG020: Arsenic	7440-38-2	5 mg/kg	85.5	---	75	75	125	---	---	---
HK1106989-006												
EG: Metals and Major Cations (QC Lot: 1724417)	KTN-BH15 1.60M	EG020: Arsenic	7440-38-2	5 mg/kg	# Not Determined	---	75	75	125	---	---	---
HK1107106-003												

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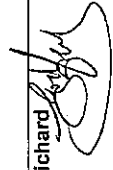


CERTIFICATE OF ANALYSIS

Client	: CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT	Laboratory	: ALS Technichem HK Pty Ltd	Page	: 1 of 5
Contact	: IR POPHIL LAM	Contact	: Chan Kwok Fai, Godfrey	Work Order	: HK1107280
Address	: GEOTECHNICAL PROJECTS DIVISION, GEOTECHNICAL ENGINEERING OFFICE, 23/F., KWUN TONG VIEW, 410 KWUN TONG ROAD, KOWLOON, HONG KONG	Address	: 1/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail	: Pophilkiam@cedd.gov.hk	E-mail	: Godfrey.Chan@alsenviro.com		
Telephone	: +852 2716 8609	Telephone	: +852 2610 1044	Issue Date	: 08-APR-2011
Facsimile	: +852 2715 7572	Facsimile	: +852 2610 2021	No. of samples received	: 7
Project	: AGREEMENT NO CE 61_2007(CE) - NORTH EAST NEW TERRITORIES DEVELOPMENT AREAS	Quote number	: ---	No. of samples analysed	: 7
Order number	: GE/2009/16.12				
C-O-C number	: H013634				
Site	: MA TSO LUNG VILLAGE				

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PP Fung Lim Chee, Richard	Position	Authorised results for
	General Manager	Inorganics



Page Number : 2 of 5
Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Work Order HK1107280

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: 31-MAR-2011

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: **HK1107280**

Project Name: Agreement No. CE 61/2007(CE) - North East New Territories Development Areas, Planning and Engineering Study Ground Investigation Phase 2 and Laboratory Testing Service (Batch 1), Drillhole Nos. KTN-BH12, KTN-BH14 to KTN-BH20.

Sample(s) were received in a chilled condition.

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

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



Page Number : 3 of 5
 Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
 Work Order : HK1107280

Analytical Results

Sub-Matrix: SOIL

Compound	CAS Number	LOR	Unit	Client sample ID	
				Client sampling date / time	Client sample ID
EA1ED: Physical and Aggregate Properties					
EA055: Moisture Content (dried @ 103°C)		0.1	%	28-MAR-2011 10:00	KTN-BH15 7.20-7.65M HK1107280-001
EG: Metals and Major Cations					
EG020: Arsenic	7440-38-2	1	mg/kg	28-MAR-2011 10:00	KTN-BH18 0.5M HK1107280-002
				28-MAR-2011 10:40	KTN-BH18 1.0M HK1107280-003
				28-MAR-2011 11:00	KTN-BH18 1.5M HK1107280-004
				28-MAR-2011 13:30	KTN-BH16 0.5M HK1107280-005



Page Number : 4 of 5
 Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
 Work Order : HK1107280

Sub-Matrix: SOIL

Compound	Client sample ID	
	CAS Number	Client sampling date / time
EA/ED: Physical and Aggregate Properties	KTN-BH16 1.0M 28-MAR-2011 14:00 HK1107280-006	KTN-BH16 1.5M 28-MAR-2011 14:40 HK1107280-007
EA055: Moisture Content (dried @ 103° C)	0.1 %	10.3
EG: Metals and Major Cations	7440-38-2 1 mg/kg	3
EG020: Arsenic		4



Laboratory Duplicate (DUP) Report

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report		
				LOR	Unit	RPD (%)
EA/ED: Physical and Aggregate Properties (QC Lot: 1728119)						
HK1107199-001	Anonymous	EA055: Moisture Content (dried @ 103°C)	---	0.1	%	0.1
HK1107280-001	KTN-BH15 7.20-7.65M	EA055: Moisture Content (dried @ 103°C)	---	0.1	%	6.0
EG: Metals and Major Cations (QC Lot: 1728110)						
HK1107199-002	Anonymous	EG020: Arsenic	7440-38-2	1	mg/kg	<1
HK1107280-007	KTN-BH16 1.5M	EG020: Arsenic	7440-38-2	1	mg/kg	4

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

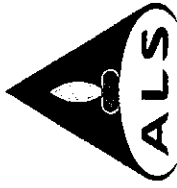
Method: Compound	CAS Number	Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report					
		LOR	Unit	Result	Spike Concentration	Spike Recovery (%)	DCS	Recovery Limits (%)	Value	Control Limit
EG020: Arsenic	7440-38-2	1	mg/kg	<1	5 mg/kg	85.6	---	85	115	---

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

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report					
				Spike Concentration	Spike Recovery (%)	MSD	Recovery Limits (%)	Value	Control Limit
EG: Metals and Major Cations (QC Lot: 1728110)	Anonymous	EG020: Arsenic	7440-38-2	5 mg/kg	82.8	---	75	125	---

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CERTIFICATE OF ANALYSIS

Client	: CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT	Laboratory	: ALS Technichem HK Pty Ltd	Page	: 1 of 4
Contact	: IR POPHIL LAM	Contact	: Chan Kwok Fai, Godfrey	Work Order	: HK1107344
Address	: GEOTECHNICAL PROJECTS DIVISION, GEOTECHNICAL ENGINEERING OFFICE, 23/F., KWUN TONG VIEW, 410 KWUN TONG ROAD, KOWLOON, HONG KONG	Address	: 1/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail	: Pophilkiam@cedd.gov.hk	E-mail	: Godfrey.Chan@alsenviro.com		
Telephone	: +852 2716 8609	Telephone	: +852 2610 1044	Date Samples Received	: 29-MAR-2011
Facsimile	: +852 2715 7572	Facsimile	: +852 2610 2021	Issue Date	: 12-APR-2011
Project	: AGREEMENT NO CE 61_2007(CE) - NORTH EAST NEW TERRITORIES DEVELOPMENT AREAS	Quote number	: ----	No. of samples received	: 1
Order number	: GE/2009/16.12			No. of samples analysed	: 1
C-O-C number	: H013635				
Site	: MA TSO LUNG VILLAGE				

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Signatories

PP Fung Lim Chee, Richard

Position

General Manager

Authorised results for
Inorganics



Page Number : 2 of 4
Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Work Order : HK1107344

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:

01-APR-2011

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: **HK1107344**

Project Name: Agreement No. CE 61/2007(CE) - North East New Territories Development Areas, Planning and Engineering Study Ground Investigation Phase 2 and Laboratory Testing Service (Batch 1), Drillhole Nos. KTN-BH12, KTN-BH14 to KTN-BH20.

Sample(s) were received in a chilled condition.

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

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



Page Number : 3 of 4
 Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
 Work Order : HK1107344

Analytical Results

Sub-Matrix: SOIL

Compound	CAS Number	LOR	Unit	Client sample ID	
				Client sampling date / time	
EA055: Moisture Content (dried @ 103°C)	---	0.1	%	19.7	
EG: Metals and Major Cations	7440-38-2	1	mg/kg	15	
EG020: Arsenic					



Page Number : 4 of 4
 Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
 Work Order : HK1107344

Laboratory Duplicate (DUP) Report

Matrix: SOIL		Laboratory Duplicate (DUP) Report	
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number
EATED: Physical and Aggregate Properties (QC Lot: 1731829)			
HK1107317-001	Anonymous	EA055: Moisture Content (dried @ 103°C)	
HK1107359-009	Anonymous	EA055: Moisture Content (dried @ 103°C)	
EG: Metals and Major Cations (QC Lot: 1729796)			
HK1107262-005	Anonymous	EG020: Arsenic	7440-38-2

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

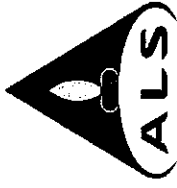
Matrix: SOIL		Method Blank (MB) Report		Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report	
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration
EG: Metals and Major Cations (QC Lot: 1729796)	7440-38-2	1	mg/kg	<1	5 mg/kg
EG020: Arsenic					86.6

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
EG: Metals and Major Cations (QC Lot: 1729796)	Anonymous	EG020: Arsenic	7440-38-2
HK1107163-004	Anonymous		

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ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

Client	: CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT	Laboratory	: ALS Technichem HK Pty Ltd	Page	: 1 of 4
Contact	: IR POPHIL LAM	Contact	: Chan Kwok Fai, Godfrey	Work Order	: HK1107742
Address	: GEOTECHNICAL PROJECTS DIVISION, GEOTECHNICAL ENGINEERING OFFICE, 23/F., KWUN TONG VIEW, 410 KWUN TONG ROAD, KOWLOON, HONG KONG	Address	: 1/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail	: Pophilkiam@cedd.gov.hk	E-mail	: Godfrey.Chan@alsenviro.com		
Telephone	: +852 2716 8609	Telephone	: +852 2610 1044		
Facsimile	: +852 2715 7572	Facsimile	: +852 2610 2021		
Project	: AGREEMENT NO CE 61_2007(CE) - NORTH EAST NEW TERRITORIES DEVELOPMENT AREAS	Quote number	: ----	Date Samples Received	: 04-APR-2011
Order number	: GE/2009/16.12			Issue Date	: 14-APR-2011
C-O-C number	: H013637			No. of samples received	: 3
Site	: MA TSO LUNG VILLAGE			No. of samples analysed	: 3

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Signatories

PP Fung Lim Chee, Richard

Position

General Manager

Authorised results for

Inorganics

ALS Laboratory Group
ALS Technichem (HK) Pty Ltd

Trading Name: ALS Technichem (HK) Pty Ltd
1/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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Page Number : 2 of 4
Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Work Order : HK1107742

General Comments

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12-APR-2011

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: **HK1107742**

Project Name: Agreement No. CE 61/2007(CE) - North East New Territories Development Areas, Planning and Engineering Study Ground Investigation Phase 2 and Laboratory Testing Service
(Batch 1), Drillhole Nos. KTN-BH12, KTN-BH14 to KTN-BH20.

Sample(s) were received in a chilled condition.

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

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



Page Number : 3 of 4
 Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
 Work Order : HK1107742

Analytical Results

Sub-Matrix: SOIL

Compound	CAS Number	LOR	Unit	Client sample ID			
				Client sampling date / time	Client sample ID	Client sample ID	
EA055: Moisture Content (dried @ 103°C)	---	0.1	%	04-APR-2011 10:30	KTN-BH12 0.5M HK1107742-001	KTN-BH12 1.0M 04-APR-2011 11:00 HK1107742-002	KTN-BH12 1.5M 04-APR-2011 11:30 HK1107742-003
EG: Metals and Major Cations	7440-38-2	1	mg/kg		5.7	4.2	9.5
EG020: Arsenic					20		42



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: 1739242)									
EA055: Moisture Content (dried @ 103°C)	EA055: Moisture Content (dried @ 103°C)					%	26.7	30.2	12.2
EA055: Moisture Content (dried @ 103°C)	EA055: Moisture Content (dried @ 103°C)					%	40.6	38.5	5.3
EG: Metals and Major Cations (QC Lot: 1739214)									
EG020: Arsenic	EG020: Arsenic	7440-38-2			1	mg/kg	<1	<1	0.0
EG020: Arsenic	EG020: Arsenic	7440-38-2			1	mg/kg	<1	1	0.0

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

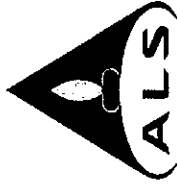
Method Blank (MB) Report				Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
Method	Compound	CAS Number	Result	Spike Concentration	LCS	DCS	Recovery Limits (%)	High	Value	Control Limit
EG: Metals and Major Cations (QC Lot: 1739214)	EG020: Arsenic	7440-38-2	<1	5 mg/kg	88.4	85	115			

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

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report												
Laboratory sample ID	Client sample ID	Method	Compound	CAS Number	Spike Concentration	MS	MSD	Recovery Limits (%)	Low	High	Value	Control Limit
EG: Metals and Major Cations (QC Lot: 1739214)	EG020: Arsenic	7440-38-2	EG020: Arsenic		5 mg/kg	83.4	75	125				

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ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

Client	: CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT	Laboratory	: ALS Technichem HK Pty Ltd	Page	: 1 of 4
Contact	: IR POPHIL LAM	Contact	: Chan Kwok Fai, Godfrey	Work Order	: HK1107871
Address	: GEOTECHNICAL PROJECTS DIVISION, GEOTECHNICAL ENGINEERING OFFICE, 23/F., KWUN TONG VIEW, 410 KWUN TONG ROAD, KOWLOON, HONG KONG	Address	: 1/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail	: Pophilkiam@cedd.gov.hk	E-mail	: Godfrey.Chan@alsenviro.com		
Telephone	: +852 2716 8609	Telephone	: +852 2610 1044		
Facsimile	: +852 2715 7572	Facsimile	: +852 2610 2021		
Project	: AGREEMENT NO CE 61_2007(CE) - NORTH EAST NEW TERRITORIES DEVELOPMENT AREAS	Quote number	: ----	Date Samples Received	: 06-APR-2011
Order number	: GE/2009/16.12			Issue Date	: 15-APR-2011
C-O-C number	: H013638			No. of samples received	: 1
Site	: MA TSO LUNG VILLAGE			No. of samples analysed	: 1

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Signatories

Richard Fung
Richard Fung Lim Chee, Richard Fung

Position

General Manager

Authorised results for

Inorganics

ALS Laboratory Group

Trading Name: ALS Technichem (HK) Pty Ltd

1/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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Page Number : 2 of 4
Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Work Order : HK1107871

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:

12-APR-2011

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: **HK1107871**

Project Name: Agreement No. CE 61/2007(CE) - North East New Territories Development Areas, Planning and Engineering Study Ground Investigation Phase 2 and Laboratory Testing Service (Batch 1), Drillhole Nos. KTN-BH12, KTN-BH14 to KTN-BH20.

Sample(s) were received in a chilled condition.

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

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



Page Number : 3 of 4
 Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
 Work Order : HK1107871

Analytical Results

Sub-Matrix: SOIL

Compound	CAS Number	Client sample ID	
		LOR	Unit
EA055: Physical and Aggregate Properties			
EA055: Moisture Content (dried @ 103°C)	---	0.1	%
EG: Metals and Major Cations			
EG020: Arsenic	7440-38-2	1	mg/kg
			8



Page Number : 4 of 4
 Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
 Work Order : HK1107871

Laboratory Duplicate (DUP) Report

Matrix: SOIL		Laboratory Duplicate (DUP) Report	
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number
EA/ED: Physical and Aggregate Properties (QC Lot: 1743252)			
HK1107871-001	KTN-BH12 4.15-4.60M	EA055: Moisture Content (dried @ 103°C)	
HK1107976-011	Anonymous	EA055: Moisture Content (dried @ 103°C)	
EG: Metals and Major Cations (QC Lot: 1743310)			
HK1107977-002	Anonymous	EG020: Arsenic	7440-38-2
HK1107976-011	Anonymous	EG020: Arsenic	7440-38-2

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

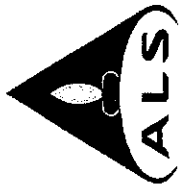
Matrix: SOIL		Method Blank (MB) Report		Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report			
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	LCS	DCS
EG: Metals and Major Cations (QC Lot: 1743310)	7440-38-2	1	mg/kg	<1	5 mg/kg	87.0	85
EG020: Arsenic							115

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

Matrix: SOIL		Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report										
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Spike Concentration	MS	MSD	Recovery Limits (%)	Low	High	Value	RPD (%)	Control Limit
EG: Metals and Major Cations (QC Lot: 1743310)	Anonymous	EG020: Arsenic	7440-38-2	5 mg/kg	85.8		75	75	125			
HK1107977-001	Anonymous											

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ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

Client	: CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT	Laboratory	: ALS Technichem HK Pty Ltd	Page	: 1 of 5
Contact	: IR POPHIL LAM	Contact	: Chan Kwok Fai, Godfrey	Work Order	: HK1108373
Address	: GEOTECHNICAL PROJECTS DIVISION, GEOTECHNICAL ENGINEERING OFFICE, 23/F., KWUN TONG VIEW, 410 KWUN TONG ROAD, KOWLOON, HONG KONG	Address	: 1/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail	: Pophilkiam@cedd.gov.hk	E-mail	: Godfrey.Chan@alsenviro.com		
Telephone	: +852 2716 8609	Telephone	: +852 2610 1044		
Facsimile	: +852 2715 7572	Facsimile	: +852 2610 2021		
Project	: AGREEMENT NO CE 61_2007(CE) - NORTH EAST NEW TERRITORIES DEVELOPMENT AREAS	Quote number	: ----	Date Samples Received	: 11-APR-2011
Order number	: GE/2009/16.12			Issue Date	: 20-APR-2011
C-O-C number	: H013639			No. of samples received	: 4
Site	: MA TSO LUNG VILLAGE			No. of samples analysed	: 4

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Signatories

Richard Fung Lim Chee

Position

General Manager

Authorised results for

Inorganics

ALS Laboratory Group

Trading Name: ALS Technichem (HK) Pty Ltd

1/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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Page Number : 2 of 5
Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Work Order : HK1108373

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:

15-APR-2011

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: **HK1108373**

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

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

Project Name: Agreement No. CE 61/2007(CE) - North East New Territories Development Areas, Planning and Engineering Study Ground Investigation Phase 2 and Laboratory Testing Service (Batch 1), Drillhole Nos. KTN-BH12, KTN-BH14 to KTN-BH20.

Sample(s) were received in a chilled condition.

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

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



Page Number : 3 of 5
 Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
 Work Order : HK1108373

Analytical Results

Sub-Matrix: SOIL

Compound	CAS Number	Client sample ID		Unit
		Client sampling date / time	LOR	
EA/ED: Physical and Aggregate Properties				
EA055: Moisture Content (dried @ 103°C)		11-APR-2011 15:00	11-APR-2011 15:10	%
		HK1108373-001	HK1108373-002	
EG: Metals and Major Cations				
EG020: Arsenic	7440-38-2	1	20	mg/kg
		0.1	11.4	
				32

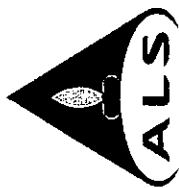


Page Number : 4 of 5
 Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
 Work Order : HK1108373

Sub-Matrix: WATER		Client sample ID	
Compound	CAS Number	Client sampling date / time	Unit
EG: Metals and Major Cations - Filtered	7440-38-2	10	µg/L
EG020: Arsenic			
		KTN-BH12 17.05-17.39M EQUIPMENT BLANK 11-APR-2011 15:30	HK1108373-003
		KTN-BH12 17.05-17.39M FIELD BLANK 11-APR-2011 15:40	HK1108373-004
			<10
			<10

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ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

Client	: CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT	Laboratory	: ALS Technichem HK Pty Ltd	Page	: 1 of 5
Contact	: IR POPHIL LAM	Contact	: Chan Kwok Fai, Godfrey	Work Order	: HK1109644
Address	: GEOTECHNICAL PROJECTS DIVISION, GEOTECHNICAL ENGINEERING OFFICE, 23/F., KWUN TONG VIEW, 410 KWUN TONG ROAD, KOWLOON, HONG KONG	Address	: 1/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong	Amendment	: 1
E-mail	: Pophilkiam@cedd.gov.hk	E-mail	: Godfrey.Chan@alsenviro.com	Date Samples Received	: 26-APR-2011
Telephone	: +852 2716 8609	Telephone	: +852 2610 1044	Issue Date	: 11-MAY-2011
Facsimile	: +852 2715 7572	Facsimile	: +852 2610 2021	No. of samples received	: 8
Project	: AGREEMENT NO CE 61_2007(CE) - NORTH EAST NEW TERRITORIES DEVELOPMENT AREAS	Quote number	: ----	No. of samples analysed	: 8
Order number	: GE/2009/16.20				
C-O-C number	: H013640				
Site	: KWU TUNG TO MA TSO LUNG				

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Signatories

Fung Lim Chee, Richard

Position

General Manager

Authorised results for

Inorganics

ALS Laboratory Group

Trading Name: ALS Technichem (HK) Pty Ltd

1/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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Page Number : 2 of 5
Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Work Order : HK1109644, Amendment 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: 03-MAY-2011

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: **HK1109644**

Project Name: Agreement No. CE 61/2007(CE) - North East New Territories Development Areas, Planning and Engineering Study Ground Investigation Phase 2 and Laboratory Testing Service (Batch 2).

Sample(s) were received in a chilled condition.

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

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



Page Number : 3 of 5
 Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
 Work Order : HK1109644, Amendment 1

Analytical Results

Sub-Matrix: SOIL

Compound	CAS Number	LOR	Client sample ID		Client sampling date / time	Unit
			KTN-BH22	KTN-BH21		
EA055: Moisture Content (dried @ 103°C)	---	0.1	%			
EG020: Arsenic	7440-38-2	1	mg/kg			
				KTN-BH22 0.5M 26-APR-2011 11:30 HK1109644-001	KTN-BH22 1.0M 26-APR-2011 12:00 HK1109644-002	KTN-BH22 1.5M 26-APR-2011 13:00 HK1109644-003
						KTN-BH11 0.5M 26-APR-2011 15:00 HK1109644-004
						KTN-BH21 0.6M 26-APR-2011 15:30 HK1109644-005
						3.8
						4.7
						6.0
						14.7
						78
						8.9
						9
						14
						30
						46



Laboratory Duplicate (DUP) Report

Laboratory sample ID	Client sample ID	Method: Compound	LOR	Unit	Laboratory Duplicate (DUP) Report		RPD (%)
					Original Result	Duplicate Result	
EA/ED: Physical and Aggregate Properties (QC Lot: 1770428)							
HK1109630-001	Anonymous	EA055: Moisture Content (dried @ 103°C)	0.1	%	75.1	75.3	0.2
HK1109644-008	KTN-BH21 2.00M	EA055: Moisture Content (dried @ 103°C)	0.1	%	20.0	20.2	1.0
EG: Metals and Major Cations (QC Lot: 1766986)							
HK1109644-001	KTN-BH22 0.5M	EG020: Arsenic	1	mg/kg	9	8	0.0

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

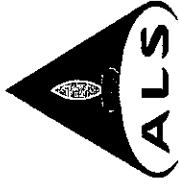
Method Blank (MB) Report				Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report			
Method: Compound	CAS Number	LOR	Unit	Spike Concentration	Spike Recovery (%)	Recovery Limits (%)	RPD (%)
EG: Metals and Major Cations (QC Lot: 1766986)	7440-38-2	1	mg/kg	5 mg/kg	88.6	85 - 115	---
EG020: Arsenic							

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

Laboratory sample ID	Client sample ID	Method: Compound	Spike Concentration	MS	MSD	Recovery Limits (%)		RPD (%)
						Low	High	
EG: Metals and Major Cations (QC Lot: 1766986)	7440-38-2	EG020: Arsenic	5 mg/kg	95.0	---	75	125	---
HK1109613-001	Anonymous							

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CERTIFICATE OF ANALYSIS

Client	: CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT	Laboratory	: ALS Technichem HK Pty Ltd	Page	: 1 of 4
Contact	: IR POPHIL LAM	Contact	: Chan Kwok Fai, Godfrey	Work Order	: HK1109757
Address	: GEOTECHNICAL PROJECTS DIVISION, GEOTECHNICAL ENGINEERING OFFICE, 23/F., KWUN TONG VIEW, 410 KWUN TONG ROAD, KOWLOON, HONG KONG	Address	: 14/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail	: Pophilkiam@cedd.gov.hk	E-mail	: Godfrey.Chan@alsenviro.com		
Telephone	: +852 2716 8609	Telephone	: +852 2610 1044		
Facsimile	: +852 2715 7572	Facsimile	: +852 2610 2021		
Project	: AGREEMENT NO CE 61_2007(CE) - NORTH EAST NEW TERRITORIES DEVELOPMENT AREAS	Quote number	: ----	Date Samples Received	: 27-APR-2011
Order number	: GEI2009/16.20			Issue Date	: 11-MAY-2011
C-O-C number	: H009861			No. of samples received	: 5
Site	: KWU TUNG TO MA TSO LUNG			No. of samples analysed	: 5

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Signatories

FP Fung Lim Chee, Richard

Position

General Manager

Authorised results for

Inorganics

ALS Laboratory Group

Trading Name: ALS Technichem (HK) Pty Ltd

14/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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Page Number : 2 of 4
Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Work Order : HK1109757

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: 05-MAY-2011

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: **HK1109757**

Project Name: Agreement No. CE 61/2007(CE) - North East New Territories Development Areas, Planning and Engineering Study Ground Investigation Phase 2 and Laboratory Testing Service (Batch 2).

Sample(s) were received in a chilled condition.

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

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



Page Number : 3 of 4
 Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
 Work Order : HK1109757

Analytical Results

Sub-Matrix: SOIL

Compound	CAS Number	Client sample ID		Client sampling date / time	LOR	Unit
		Client sample ID	Client sample ID			
EA055: Moisture Content (dried @ 103° C)	---	7.3	6.5	20.9	15.0	16.0
EG: Metals and Major Cations	7440-38-2	66	38	818	18	3
EG020: Arsenic						



Page Number : 4 of 4
 Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
 Work Order : HK1109757

Laboratory Duplicate (DUP) Report

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Laboratory Duplicate (DUP) Report		RPD (%)
						Original Result	Duplicate Result	
EA/ED: Physical and Aggregate Properties (QC Lot: 1770428)								
HK1109630-001	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	75.1	75.3	0.2
HK1109644-008	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	20.0	20.2	1.0
EG: Metals and Major Cations (QC Lot: 1770348)								
HK1109757-002	KTN-BH11 1.50M	EG020: Arsenic	7440-38-2	1	mg/kg	38	44	15.7
HK1109866-002	Anonymous	EG020: Arsenic	7440-38-2	1	mg/kg	2	2	0.0

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

Method Blank (MB) Report				Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report									
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	LCS	Spike Recovery (%)	DCS	Recovery Limits (%)	Low	High	Value	Control Limit
EG020: Arsenic	7440-38-2	1	mg/kg	<1	5 mg/kg	93.0				85	115		

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

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Spike Concentration	MS	Spike Recovery (%)	MSD	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report				
								Recovery Limits (%)	Low	High	Value	Control Limit
EG: Metals and Major Cations (QC Lot: 1770348)	KTN-BH11 1.0M	EG020: Arsenic	7440-38-2	5 mg/kg	# Not Determined			75	125			

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ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

Client	: CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT	Laboratory	: ALS Technichem HK Pty Ltd	Page	: 1 of 4
Contact	: IR POPHIL LAM	Contact	: Chan Kwok Fai, Godfrey	Work Order	: HK1109847
Address	: GEOTECHNICAL PROJECTS DIVISION, GEOTECHNICAL ENGINEERING OFFICE, 23/F., KWUN TONG VIEW, 410 KWUN TONG ROAD, KOWLOON, HONG KONG	Address	: 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail	: Pophilkiam@cedd.gov.hk	E-mail	: Godfrey.Chan@alsenviro.com		
Telephone	: +852 2716 8609	Telephone	: +852 2610 1044		
Facsimile	: +852 2715 7572	Facsimile	: +852 2610 2021		
Project	: AGREEMENT NO CE 61_2007(CE) - NORTH EAST NEW TERRITORIES DEVELOPMENT AREAS	Quote number	: ---	Date Samples Received	: 28-APR-2011
Order number	: GE/2009/16.20			Issue Date	: 11-MAY-2011
C-O-C number	: H009862			No. of samples received	: 2
Site	: KWU TUNG TO MA TSO LUNG			No. of samples analysed	: 2

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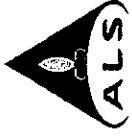
Richard Lim
Richard Lim

Position

General Manager

Authorised results for

Inorganics



Page Number : 2 of 4
Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Work Order : HK1109847

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: 05-MAY-2011

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: **HK1109847**

Project Name: Agreement No. CE 61/2007(CE) - North East New Territories Development Areas, Planning and Engineering Study Ground Investigation Phase 2 and Laboratory Testing Service (Batch 2).

Sample(s) were received in a chilled condition.

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

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



Page Number : 3 of 4
 Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
 Work Order : HK1109847

Analytical Results

Compound	CAS Number	LOR	Client sample ID	
			Client sampling date / time	Unit
Sub-Matrix: SOIL				
EA/ED: Physical and Aggregate Properties				
EA055: Moisture Content (dried @ 103°C)	---	0.1	%	17.8
EG: Metals and Major Cations				
EG020: Arsenic	7440-38-2	1	mg/kg	39
				276
				26.8
				26.8



Laboratory Duplicate (DUP) Report

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report		
				LOR	Unit	RPD (%)
EA/ED: Physical and Aggregate Properties (QC Lot: 1770428)						
HK1109630-001	Anonymous	EA055: Moisture Content (dried @ 103°C)	---	0.1	%	0.2
HK1109644-008	Anonymous	EA055: Moisture Content (dried @ 103°C)	---	0.1	%	1.0
EG: Metals and Major Cations (QC Lot: 1770348)						
HK1109757-002	Anonymous	EG020: Arsenic	7440-38-2	1	mg/kg	15.7
HK1109866-002	Anonymous	EG020: Arsenic	7440-38-2	1	mg/kg	0.0

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

Method Blank (MB) Report				Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report								
Method: Compound	CAS Number	LOR	Unit	Spike Concentration	LCS	Spike Recovery (%)	DCS	Recovery Limits (%)	Low	High	Value	RPD (%)
EG020: Arsenic	7440-38-2	1	mg/kg	5 mg/kg	93.0	<1	---	85	115	---	---	---

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

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Spike Concentration	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report			
					MS	MSD	RPD (%)	
EG: Metals and Major Cations (QC Lot: 1770348)	Anonymous	EG020: Arsenic	7440-38-2	5 mg/kg	# Not Determined	75	125	---

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ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

Client	: CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT	Laboratory	: ALS Technichem HK Pty Ltd	Page	: 1 of 4
Contact	: IR POPHIL LAM	Contact	: Chan Kwok Fai, Godfrey	Work Order	: HK1109985
Address	: GEOTECHNICAL PROJECTS DIVISION, GEOTECHNICAL ENGINEERING OFFICE, 23/F., KWUN TONG VIEW, 410 KWUN TONG ROAD, KOWLOON, HONG KONG	Address	: 1/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail	: Pophilkiam@cedd.gov.hk	E-mail	: Godfrey.Chan@alsenviro.com		
Telephone	: +852 2716 8609	Telephone	: +852 2610 1044		
Facsimile	: +852 2715 7572	Facsimile	: +852 2610 2021		
Project	: AGREEMENT NO CE 61_2007(CE) - NORTH EAST NEW TERRITORIES DEVELOPMENT AREAS	Quote number	: ----	Date Samples Received	: 29-APR-2011
Order number	: GE/2009/16.20			Issue Date	: 12-MAY-2011
C-O-C number	: H009863			No. of samples received	: 1
Site	: KWU TUNG TO MA TSO LUNG			No. of samples analysed	: 1

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Signatories

PP Fung Lim Chee, Richard

Position

General Manager

Authorised results for

Inorganics

ALS Laboratory Group

Trading Name: ALS Technichem (HK) Pty Ltd
1/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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Page Number : 2 of 4
Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Work Order : HK1109985

General Comments

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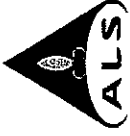
Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society. Specific comments for Work Order: **HK1109985**

Project Name: Agreement No. CE 61/2007(CE) - North East New Territories Development Areas, Planning and Engineering Study Ground Investigation Phase 2 and Laboratory Testing Service (Batch 2).

Sample(s) were received in a chilled condition.

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

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



Page Number : 3 of 4
 Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
 Work Order : HK1109985

Analytical Results

Sub-Matrix: SOIL

Compound	CAS Number	LOR	Unit	Client sample ID	Client sampling date / time
EA/ED: Physical and Aggregate Properties				KTN-BH22	
EA055: Moisture Content (dried @ 103°C)		0.1	%	7.10-7.55M	29-APR-2011 10:00
EG: Metals and Major Cations				HK1109985-001	
EG020: Arsenic	7440-38-2	1	mg/kg		
					20.5
					331



Laboratory Duplicate (DUP) Report

Laboratory sample ID		Client sample ID		Method: Compound		Laboratory Duplicate (DUP) Report	
Laboratory sample ID	Client sample ID	Method: Compound	LOR	Unit	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and Aggregate Properties (QC Lot: 1774665)							
HK1109985-001	KTN-BH22 7.10-7.55M	EA055: Moisture Content (dried @ 103°C)	0.1	%	20.5	21.3	3.7

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

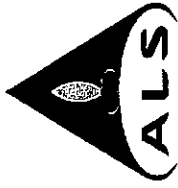
Method Blank (MB) Report		Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report											
Method: Compound	LOR	Unit	Result	Spike Concentration	LCS	Spike Recovery (%)	DCS	Recovery Limits (%)	Low	High	Value	RPD (%)	Control Limit
EG: Metals and Major Cations (QC Lot: 1772307)													
EG020: Arsenic	7440-38-2	1	mg/kg	<1	5 mg/kg	92.6	---	85	115	---	---	---	---

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

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report													
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Spike Concentration	MS	Spike Recovery (%)	MSD	Recovery Limits (%)	Low	High	Value	RPD (%)	Control Limit
EG: Metals and Major Cations (QC Lot: 1772307)													
HK1109959-001	Anonymous	EG020: Arsenic	7440-38-2	5 mg/kg	# Not Determined	---	---	75	125	---	---	---	---

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

Client	: CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT	Laboratory	: ALS Technichem HK Pty Ltd	Page	: 1 of 4
Contact	: IR POPHIL LAM	Contact	: Chan Kwok Fai, Godfrey	Work Order	: HK1109986
Address	: GEOTECHNICAL PROJECTS DIVISION, GEOTECHNICAL ENGINEERING OFFICE, 23/F., KWUN TONG VIEW, 410 KWUN TONG ROAD, KOWLOON, HONG KONG	Address	: 1/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail	: Pophilkiam@cedd.gov.hk	E-mail	: Godfrey.Chan@alsenviro.com		
Telephone	: +852 2716 8609	Telephone	: +852 2610 1044		
Facsimile	: +852 2715 7572	Facsimile	: +852 2610 2021		
Project	: AGREEMENT NO CE 61_2007(CE) - NORTH EAST NEW TERRITORIES DEVELOPMENT AREAS	Quote number	: ----	Date Samples Received	: 30-APR-2011
Order number	: GE/2009/16.20	Issue Date	: 12-MAY-2011	No. of samples received	: 1
C-O-C number	: H009864	No. of samples analysed	: 1		
Site	: KWU TUNG TO MA TSO LUNG				

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Signatories

pp Fung Lim Chee, Richard

Position

General Manager

Authorised results for

Inorganics

ALS Laboratory Group

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

11F., 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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Page Number : 2 of 4
Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Work Order : HK1109986

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:

07-MAY-2011

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: **HK1109986**

Project Name: Agreement No. CE 61/2007(CE) - North East New Territories Development Areas, Planning and Engineering Study Ground Investigation Phase 2 and Laboratory Testing Service (Batch 2).

Sample(s) were received in a chilled condition.

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

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



Page Number : 3 of 4
 Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
 Work Order : HK1109986

Analytical Results

Sub-Matrix: SOIL

Compound	CAS Number	LOR	Client sample ID	
			Client sampling date / time	Unit
EA/ED: Physical and Aggregate Properties			KTN-BH22	
EA055: Moisture Content (dried @ 103°C)		0.1	11.15-11.60M	
EG: Metals and Major Cations			30-APR-2011 10:30	
EG020: Arsenic	7440-38-2	1	HK1109986-001	
				22.5
				89



Page Number : 4 of 4
 Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
 Work Order : HK1109986

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: 1774665)								
HK1109985-001	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	20.5	21.3	3.7

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

Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report										
Method: Compound	LOR	Unit	Result	Spike Concentration	LCS	Spike Recovery (%)	DCS	Recovery Limits (%)	Low	High	Value	RPD (%)	Control Limit
EG: Metals and Major Cations (QC Lot: 1772307)													
EG020: Arsenic	7440-38-2	1	mg/kg	<1	5 mg/kg	92.6			85	115			

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

Laboratory sample ID		Client sample ID	Method: Compound	CAS Number	Spike Concentration	MS	Spike Recovery (%)	MSD	Recovery Limits (%)	Low	High	Value	RPD (%)	Control Limit
EG: Metals and Major Cations (QC Lot: 1772307)														
HK1109985-001		Anonymous	EG020: Arsenic	7440-38-2	5 mg/kg	# Not Determined				75	125			

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Contact : IR POPHIL LAM
Address : GEOTECHNICAL PROJECTS DIVISION,
GEOTECHNICAL ENGINEERING OFFICE,
23/F., KWUN TONG VIEW,
410 KWUN TONG ROAD, KOWLOON, HONG KONG
E-mail : Pophiklam@cedd.gov.hk
Telephone : +852 2716 8609
Facsimile : +852 2715 7572
Project : AGREEMENT NO CE 61_2007(CE) - NORTH EAST NEW TERRITORIES DEVELOPMENT AREAS
Order number : GE/2009/16.20
C-O-C number : H009865
Site : KWU TUNG TO MA TSO LUNG

Laboratory : ALS Technichem HK Pty Ltd

Contact : Chan Kwok Fai, Godfrey

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

E-mail : Godfrey.Chan@alsenviro.com
Telephone : +852 2610 1044
Facsimile : +852 2610 2021
Quote number : ----

Page : 1 of 5

Work Order : HK1110110

Date Samples Received : 03-MAY-2011

Issue Date : 13-MAY-2011

No. of samples received : 6

No. of samples analysed : 6

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Signatories

Mr Fung Lim Chee, Richard

Position

General Manager

Authorised results for

Inorganics

ALS Laboratory Group

Trading Name: ALS Technichem (HK) Pty Ltd

1/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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Page Number : 2 of 5
Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Work Order : HK1110110

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: **HK1110110**

Project Name: Agreement No. CE 61/2007(CE) - North East New Territories Development Areas, Planning and Engineering Study Ground Investigation Phase 2 and Laboratory Testing Service (Batch 2).

Sample(s) were received in a chilled condition.

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

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

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

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



Page Number : 3 of 5
 Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
 Work Order : HK1110110

Analytical Results

Sub-Matrix: SOIL

Compound	CAS Number	LOR	Unit	Client sample ID	
				Client sampling date / time	Client sample ID
EA/ED: Physical and Aggregate Properties					
EA056: Moisture Content (dried @ 103°C)		0.1	%	03-MAY-2011 10:00 HK1110110-001	KTN-BH22 15.20-15.65M
EG: Metals and Major Cations					
EG020: Arsenic	7440-38-2	1	mg/kg	03-MAY-2011 11:00 HK1110110-002	KTN-BH25 0.40M
				03-MAY-2011 13:30 HK1110110-003	KTN-BH22 19.25-19.70M
				03-MAY-2011 13:30 HK1110110-004	KTN-BH22 19.25-19.70M DUPLICATE
					18.4
					20.5
					5.8
					13
					22.7
					57
					33
					41



Page Number : 4 of 5
 Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
 Work Order : HK1110110

Sub-Matrix: WATER	Client sample ID	Client sampling date / time	Unit	Result
Compound	CAS Number	LOR	Unit	
EG: Metals and Major Cations - Filtered	7440-38-2	10	µg/L	
EG020: Arsenic				
	KTN-BH22 19.25-19.70M (EQUIPMENT BLANK)	03-MAY-2011 15:10	HK1110110-005	<10
	KTN-BH22 19.25-19.70M (FIELD BLANK)	03-MAY-2011 15:00	HK1110110-006	<10



Page Number : 5 of 5
 Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
 Work Order : HK1110110

Laboratory Duplicate (DUP) Report

Matrix: SOIL		Laboratory Duplicate (DUP) Report	
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number
EAI/ED: Physical and Aggregate Properties (QC Lot: 1774665)			
HK1109985-001	Anonymous	EA055: Moisture Content (dried @ 103°C)	7440-38-2
			Original Result
			Duplicate Result
			RPD (%)
EG: Metals and Major Cations (QC Lot: 1774486)			
HK1110110-002	KTN-BH25 0.40M	EG020: Arsenic	7440-38-2
			Original Result
			Duplicate Result
			RPD (%)
Matrix: WATER			
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number
EG: Metals and Major Cations - Filtered (QC Lot: 1774761)			
HK1110045-002	Anonymous	EG020: Arsenic	7440-38-2
			Original Result
			Duplicate Result
			RPD (%)

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

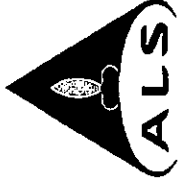
Matrix: SOIL		Method Blank (MB) Report		Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report	
Method: Compound	CAS Number	LOR	Unit	Concentration	Spike Concentration
EG: Metals and Major Cations (QC Lot: 1774486)					
EG020: Arsenic	7440-38-2	1	mg/kg	<1	5 mg/kg
					102
					85
					115
					Control Limit
Matrix: WATER					
Method: Compound	CAS Number	LOR	Unit	Concentration	Spike Concentration
EG: Metals and Major Cations - Filtered (QC Lot: 1774761)					
EG020: Arsenic	7440-38-2	10	µg/L	<10	94.3
					85
					115
					Control Limit

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
EG: Metals and Major Cations (QC Lot: 1774486)			
HK1110110-001	KTN-BH22 15.20-15.65M	EG020: Arsenic	7440-38-2
			Original Result
			Duplicate Result
			RPD (%)
Matrix: WATER			
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number
EG: Metals and Major Cations - Filtered (QC Lot: 1774761)			
HK1110045-001	Anonymous	EG020: Arsenic	7440-38-2
			Original Result
			Duplicate Result
			RPD (%)

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

Client	: CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT	Laboratory	: ALS Technichem HK Pty Ltd	Page	: 1 of 5
Contact	: IR POPHIL LAM	Contact	: Chan Kwok Fai, Godfrey	Work Order	: HK1110310
Address	: GEOTECHNICAL PROJECTS DIVISION, GEOTECHNICAL ENGINEERING OFFICE, 23/F., KWUN TONG VIEW, 410 KWUN TONG ROAD, KOWLOON, HONG KONG	Address	: 1/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail	: Pophilkiam@cedd.gov.hk	E-mail	: Godfrey.Chan@alsenviro.com		
Telephone	: +852 2716 8609	Telephone	: +852 2610 1044		
Facsimile	: +852 2715 7572	Facsimile	: +852 2610 2021		
Project	: AGREEMENT NO CE 61_2007(CE) - NORTH EAST NEW TERRITORIES DEVELOPMENT AREAS	Quote number	: ----	Date Samples Received	: 05-MAY-2011
Order number	: GE/2009/16.20			Issue Date	: 17-MAY-2011
C-O-C number	: H009866			No. of samples received	: 10
Site	: KWU TUNG TO MA TSO LUNG			No. of samples analysed	: 10

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Signatories

P Fung Lim Chee, Richard 

Position

General Manager

Authorised results for

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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Page Number : 2 of 5
Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Work Order : HK1110310

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: **HK11 10310**

Project Name: Agreement No. CE 61/2007(CE) - North East New Territories Development Areas, Planning and Engineering Study Ground Investigation Phase 2 and Laboratory Testing Service (Batch 2).

Sample(s) were received in a chilled condition.

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

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



Page Number : 3 of 5
 Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
 Work Order : HK1110310

Analytical Results

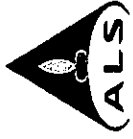
Sub-Matrix: SOIL

Compound	CAS Number	LOR	Unit	Client sample ID				
				Client sampling date / time	KTN-BH24 0.5M 05-MAY-2011 08:45 HK1110310-001	KTN-BH24 1.0M 05-MAY-2011 09:00 HK1110310-002	KTN-BH24 1.5M 05-MAY-2011 09:15 HK1110310-003	KTN-BH24 2.0M 05-MAY-2011 09:30 HK1110310-004
EA055: Moisture Content (dried @ 103°C)		---	%	9.8	9.4	10.6	11.4	8.8
EG: Metals and Major Cations	7440-38-2	1	mg/kg	8	9	17	14	11
EG020: Arsenic								



Page Number : 4 of 5
 Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
 Work Order : HK1110310

Compound	Client sample ID		CAS Number	LOR	Unit	Client sampling date / time	KTN-BH23 1.0M 05-MAY-2011 13:30 HK1110310-006	KTN-BH23 1.5M 05-MAY-2011 14:00 HK1110310-007	KTN-BH26 0.5M 05-MAY-2011 10:00 HK1110310-008	KTN-BH26 1.0M 05-MAY-2011 10:40 HK1110310-009	KTN-BH26 1.5M 05-MAY-2011 10:50 HK1110310-010
	EA/ED: Physical and Aggregate Properties	EG: Metals and Major Cations									
EA055: Moisture Content (dried @ 103°C)	0.1	%				13.3	13.6	11.4	12.8	12.7	
EG020: Arsenic	7440-38-2	1	mg/kg			20	15	76	83	68	



Page Number : 5 of 5
 Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
 Work Order : HK1110310

Laboratory Duplicate (DUP) Report

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
EA/IED: Physical and Aggregate Properties (QC Lot: 1782951)								
HK1108516-001	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	51.6	51.2	0.7
HK1110310-002	KTN-BH24 1.0M	EA055: Moisture Content (dried @ 103°C)		0.1	%	9.4	8.6	9.2
EG: Metals and Major Cations (QC Lot: 1778819)								
HK1110301-001	Anonymous	EG020: Arsenic	7440-38-2	1	mg/kg	<1	<1	0.0
HK1110310-010	KTN-BH26 1.5M	EG020: Arsenic	7440-38-2	1	mg/kg	68	65	4.9

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

Method Blank (MB) Report				Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report								
Method: Compound	CAS Number	LOR	Unit	Spike Concentration	LCS	Spike Recovery (%)	DCS	Recovery Limits (%)	Low	High	Value	Control Limit
EG020: Arsenic	7440-38-2	1	mg/kg	5 mg/kg	99.6				85	115		

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

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Spike Concentration	MS	Spike Recovery (%)	MSD	Recovery Limits (%)	Low	High	Value	Control Limit
EG020: Arsenic	Anonymous	EG020: Arsenic	7440-38-2	5 mg/kg	95.6				75	125		

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

Client	: CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT	Laboratory	: ALS Technichem HK Pty Ltd	Page	: 1 of 4
Contact	: IR POPHIL LAM	Contact	: Chan Kwok Fai, Godfrey	Work Order	: HK1110465
Address	: GEOTECHNICAL PROJECTS DIVISION, GEOTECHNICAL ENGINEERING OFFICE, 23/F., KWUN TONG VIEW, 410 KWUN TONG ROAD, KOWLOON, HONG KONG	Address	: 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail	: Pophilkiam@cedd.gov.hk	E-mail	: Godfrey.Chan@alsenviro.com		
Telephone	: +852 2716 8609	Telephone	: +852 2610 1044		
Facsimile	: +852 2715 7572	Facsimile	: +852 2610 2021		
Project	: AGREEMENT NO CE 61_2007(CE) - NORTH EAST NEW TERRITORIES DEVELOPMENT AREAS	Quote number	: ----	Date Samples Received	: 06-MAY-2011
Order number	: GEI2009/16.20	Issue Date	: 18-MAY-2011	No. of samples received	: 5
C-O-C number	: H009868	No. of samples analysed	: 5		
Site	: KWU TUNG TO MA TSO LUNG				

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Signatories

FF Fung Lim Chee, Richard

Position

General Manager

Authorised results for

Inorganics

ALS Laboratory Group

Trading Name: ALS Technichem (HK) Pty Ltd
1/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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Page Number : 2 of 4
Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Work Order : HK1110465

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: 12-MAY-2011

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: **HK1110465**

Project Name: Agreement No. CE 61/2007(CE) - North East New Territories Development Areas, Planning and Engineering Study Ground Investigation Phase 2 and Laboratory Testing Service (Batch 2).

Sample(s) were received in a chilled condition.

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

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



Page Number : 4 of 4
 Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
 Work Order : HK1110465

Laboratory Duplicate (DUP) Report

Laboratory sample ID		Client sample ID		Method: Compound		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: 1782951)								
HK1108516-001	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	51.6	51.2	0.7
HK1110310-002	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	9.4	8.6	9.2
EA/ED: Physical and Aggregate Properties (QC Lot: 1782952)								
HK1110465-002	KTN-BH23 7.10-7.55M	EA055: Moisture Content (dried @ 103°C)		0.1	%	26.9	26.9	0.0
EG: Metals and Major Cations (QC Lot: 1783214)								
HK1110465-002	KTN-BH23 7.10-7.55M	EG020: Arsenic	7440-38-2	1	mg/kg	13	14	0.0

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

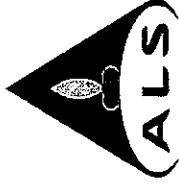
Method Blank (MB) Report				Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report								
Method: Compound	CAS Number	LOR	Unit	Spike Concentration	Spike Recovery (%)	LCS	DCS	Recovery Limits (%)	High	Low	Value	Control Limit
EG: Metals and Major Cations (QC Lot: 1783214)	7440-38-2	1	mg/kg	5 mg/kg	95.0	95.0	—	85	115	—	—	—
EG020: Arsenic												

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

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report												
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Spike Concentration	MS	MSD	Spike Recovery (%)	Recovery Limits (%)	Low	High	Value	Control Limit
EG: Metals and Major Cations (QC Lot: 1783214)												
HK1110465-001	KTN-BH23 3.05-3.50M	EG020: Arsenic	7440-38-2	5 mg/kg	78.5	—	—	75	125	—	—	—

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

Client	: CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT	Laboratory	: ALS Technichem HK Pty Ltd	Page	: 1 of 4
Contact	: IR POPHIL LAM	Contact	: Chan Kwok Fai, Godfrey	Work Order	: HK1110468
Address	: GEOTECHNICAL PROJECTS DIVISION, GEOTECHNICAL ENGINEERING OFFICE, 23/F., KWUN TONG VIEW, 410 KWUN TONG ROAD, KOWLOON, HONG KONG	Address	: 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail	: Pophilkiam@cedd.gov.hk	E-mail	: Godfrey.Chan@alsenviro.com		
Telephone	: +852 2716 8609	Telephone	: +852 2610 1044		
Facsimile	: +852 2715 7572	Facsimile	: +852 2610 2021		
Project	: AGREEMENT NO CE 61_2007(GE) - NORTH EAST NEW TERRITORIES DEVELOPMENT AREAS	Quote number	: ----	Date Samples Received	: 07-MAY-2011
Order number	: GE/2009/16.20			Issue Date	: 18-MAY-2011
C-O-C number	: H009869			No. of samples received	: 1
Site	: KWU TUNG TO MA TSO LUNG			No. of samples analysed	: 1

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Signatories

P P Fung Lim Chee, Richard

Position

General Manager

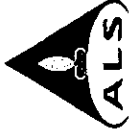
Authorised results for

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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Page Number : 2 of 4
Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Work Order : HK1110468

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: HK1110468

Project Name: Agreement No. CE 61/2007(CE) - North East New Territories Development Areas, Planning and Engineering Study Ground Investigation Phase 2 and Laboratory Testing Service (Batch 2).

Sample(s) were received in a chilled condition.

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

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

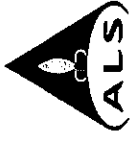


Page Number : 3 of 4
 Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
 Work Order : HK1110468

Analytical Results

Sub-Matrix: SOIL

Compound	CAS Number	LOR	Client sample ID	
			Client sampling date / time	Unit
EA/ED: Physical and Aggregate Properties			KTN-BH24	
EA055: Moisture Content (dried @ 103°C)		0.1	7.60-8.05M	
EG: Metals and Major Cations			07 MAY 2011 10:00	
EG020: Arsenic	7440-38-2	1	HK1110468-001	
				33.0
				4
				mg/kg



Laboratory Duplicate (DUP) Report

Laboratory sample ID	Client sample ID	Method: Compound	LOR	Unit	Laboratory Duplicate (DUP) Report		RPD (%)
					Original Result	Duplicate Result	
EA/ED: Physical and Aggregate Properties (QC Lot: 1782952)							
HK1110465-002	Anonymous	EA055: Moisture Content (dried @ 103°C)	0.1	%	26.9	26.9	0.0
EG: Metals and Major Cations (QC Lot: 1786915)							
HK1110510-002	Anonymous	EG020: Arsenic	1	mg/kg	54	55	2.5
HK1110621-002	Anonymous	EG020: Arsenic	1	mg/kg	<1	<1	0.0

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

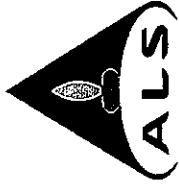
Method: Compound	CAS Number	Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report					
		LOR	Unit	Result	Spike Concentration	Spike Recovery (%)	DCS	Recovery Limits (%)	Value	Control Limit
EG: Metals and Major Cations (QC Lot: 1786915)	7440-38-2	1	mg/kg	<1	5 mg/kg	90.2	85	115	---	---
EG020: Arsenic										

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

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Spike Concentration	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report			RPD (%)	
					Spike Recovery (%)	MSD	Recovery Limits (%)		
EG: Metals and Major Cations (QC Lot: 1786915)	7440-38-2	EG020: Arsenic	7440-38-2	5 mg/kg	79.5	---	75	125	---
HK1110510-001	Anonymous								

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CERTIFICATE OF ANALYSIS

Client	: CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT	Laboratory	: ALS Technichem HK Pty Ltd	Page	: 1 of 4
Contact	: IR POPHIL LAM	Contact	: Chan Kwok Fai, Godfrey	Work Order	: HK1110518
Address	: GEOTECHNICAL PROJECTS DIVISION, GEOTECHNICAL ENGINEERING OFFICE, 23/F., KWUN TONG VIEW, 410 KWUN TONG ROAD, KOWLOON, HONG KONG	Address	: 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail	: Pophilkiam@cedd.gov.hk	E-mail	: Godfrey.Chan@alsenviro.com		
Telephone	: +852 2716 8609	Telephone	: +852 2610 1044		
Facsimile	: +852 2715 7572	Facsimile	: +852 2610 2021		
Project	: AGREEMENT NO CE 61_2007(CE) - NORTH EAST NEW TERRITORIES DEVELOPMENT AREAS	Quote number	: ----	Date Samples Received	: 09-MAY-2011
Order number	: GE/2009/16.20	Issue Date	: 19-MAY-2011	No. of samples received	: 3
C-O-C number	: H009870	No. of samples analysed	: 3		
Site	: KWU TUNG TO MA TSO LUNG				

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Signatories:  P P Fung Lim Chee, Richard 
Position: General Manager
Authorised results for: Inorganics



Page Number : 2 of 4
Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Work Order : HK1110518

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: **HK1110518**

Project Name: Agreement No. CE 61/2007(CE) - North East New Territories Development Areas, Planning and Engineering Study Ground Investigation Phase 2 and Laboratory Testing Service (Batch 2).

Sample(s) were received in a chilled condition.

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

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



Laboratory Duplicate (DUP) Report

Laboratory sample ID	Client sample ID	Method: Compound	LOR	Unit	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and Aggregate Properties (QC Lot: 1785152)							
HK1110484-001	Anonymous	EA055: Moisture Content (dried @ 103°C)	0.1	%	9.8	9.7	1.3
EG: Metals and Major Cations (QC Lot: 1786915)							
HK1110510-002	Anonymous	EG020: Arsenic	1	mg/kg	54	55	2.5
HK1110621-002	Anonymous	EG020: Arsenic	1	mg/kg	<1	<1	0.0

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

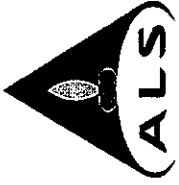
Method Blank (MB) Report				Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report			
Method: Compound	CAS Number	LOR	Unit	Spike Concentration	Spike Recovery (%)	DCS	Control Limit
EG: Metals and Major Cations (QC Lot: 1786915)	7440-38-2	1	mg/kg	90.2	85	115	---
EG020: Arsenic				5 mg/kg	<1		

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

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Spike Concentration	MS	MSD	Recovery Limits (%)	High	Low	Value	RPD (%)	Control Limit
EG: Metals and Major Cations (QC Lot: 1786915)	Anonymous	EG020: Arsenic	7440-38-2	5 mg/kg	79.5	---	75	125	---	---	---	---

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ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

Client	: CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT	Laboratory	: ALS Technichem HK Pty Ltd	Page	: 1 of 4
Contact	: IR POPHIL LAM	Contact	: Chan Kwok Fai, Godfrey	Work Order	: HK1110621
Address	: GEOTECHNICAL PROJECTS DIVISION, GEOTECHNICAL ENGINEERING OFFICE, 23F., KWUN TONG VIEW, 410 KWUN TONG ROAD, KOWLOON, HONG KONG	Address	: 11F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail	: Pophiklam@cedd.gov.hk	E-mail	: Godfrey.Chan@alsenviro.com		
Telephone	: +852 2716 8609	Telephone	: +852 2610 1044		
Facsimile	: +852 2715 7572	Facsimile	: +852 2610 2021		
Project	: AGREEMENT NO CE 61_2007(CE) - NORTH EAST NEW TERRITORIES DEVELOPMENT AREAS	Quote number	: ---	Date Samples Received	: 11-MAY-2011
Order number	: GE/2009/16.20			Issue Date	: 20-MAY-2011
C-O-C number	: H009871			No. of samples received	: 2
Site	: KWU TUNG TO MA TSO LUNG			No. of samples analysed	: 2

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Signatories

Fung Lim Chee, Richard

Position

General Manager

Authorised results for

Inorganics

ALS Laboratory Group

Trading Name: ALS Technichem (HK) Pty Ltd
11F., 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



Page Number : 2 of 4
Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Work Order : HK1110621

General Comments

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17-MAY-2011

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: HK1110621

Project Name: Agreement No. CE 61/2007(CE) - North East New Territories Development Areas, Planning and Engineering Study Ground Investigation Phase 2 and Laboratory Testing Service
(Batch 2).

Sample(s) were received in a chilled condition.

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

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



Laboratory Duplicate (DUP) Report

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Laboratory Duplicate (DUP) Report		RPD (%)
						Original Result	Duplicate Result	
EA/ED: Physical and Aggregate Properties (QC Lot: 1786970)								
HK1110510-001	: Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	0.2	0.2	0.0
EG: Metals and Major Cations (QC Lot: 1786915)								
HK1110510-002	: Anonymous	EG020: Arsenic	7440-38-2	1	mg/kg	54	55	2.5
HK1110621-002	KTN-BH24 16.75-17.00M	EG020: Arsenic	7440-38-2	1	mg/kg	<1	<1	0.0

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

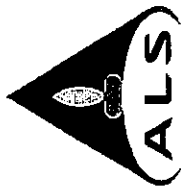
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report		Recovery Limits (%)	High	Low	Value	Control Limit
						Spike Recovery (%)	DCS					
Method Blank (MB) Report												
EG: Metals and Major Cations (QC Lot: 1786915)	7440-38-2	1	mg/kg	<1	5 mg/kg	90.2	85	115				
EG020: Arsenic												

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

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Spike Concentration	MS	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report		Recovery Limits (%)	High	Low	Value	Control Limit
						Spike Recovery (%)	MSD					
EG: Metals and Major Cations (QC Lot: 1786915)	7440-38-2	5 mg/kg	79.5	75	125							
HK1110510-001	: Anonymous	EG020: Arsenic										

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

Client	: CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT	Laboratory	: ALS Technichem HK Pty Ltd	Page	: 1 of 5
Contact	: IR POPHIL LAM	Contact	: Chan Kwok Fai, Godfrey	Work Order	: HK11111108
Address	: GEOTECHNICAL PROJECTS DIVISION, GEOTECHNICAL ENGINEERING OFFICE, 23/F., KWUN TONG VIEW, 410 KWUN TONG ROAD, KOWLOON, HONG KONG	Address	: 1/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail	: Pophilkiam@cedd.gov.hk	E-mail	: Godfrey.Chan@alsenviro.com		
Telephone	: +852 2716 8609	Telephone	: +852 2610 1044		
Facsimile	: +852 2715 7572	Facsimile	: +852 2610 2021		
Project	: AGREEMENT NO CE 61_2007(CE) - NORTH EAST NEW TERRITORIES DEVELOPMENT AREAS	Quote number	: ----	Date Samples Received	: 16-MAY-2011
Order number	: GE/2009/16.20			Issue Date	: 25-MAY-2011
C-O-C number	: H009875			No. of samples received	: 9
Site	: PING CHE, YIN KONG			No. of samples analysed	: 9

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Signatories
Fung Lim Chee, Richard

Position
General Manager

Authorised results for
Inorganics

ALS Laboratory Group

Trading Name: ALS Technichem (HK) Pty Ltd
1/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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Page Number : 2 of 5
Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Work Order : HK1111108

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: **HK1111108**

Project Name: Agreement No. CE 61/2007(CE) - North East New Territories Development Areas, Planning and Engineering Study Ground Investigation Phase 2 and Laboratory Testing Service (Batch 2).

Sample(s) were received in a chilled condition.

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

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



Page Number : 3 of 5
 Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
 Work Order : HK1111108

Analytical Results

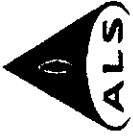
Sub-Matrix: SOIL

Compound	CAS Number	LOR	Unit	Client sample ID				
				PC/TKL-BH31 0.60M 16-MAY-2011 13:00 HK1111108-001	PC/TKL-BH31 1.10M 16-MAY-2011 13:30 HK1111108-002	PC/TKL-BH31 1.60M 16-MAY-2011 14:10 HK1111108-003	KTN-BH28 0.50M 16-MAY-2011 08:15 HK1111108-004	KTN-BH28 1.00M 16-MAY-2011 08:45 HK1111108-005
EA/ED: Physical and Aggregate Properties			%	18.4	19.6	14.6	49.6	24.9
EA055: Moisture Content (dried @ 103° C)		0.1	%					
EG: Metals and Major Cations			mg/kg	6	8	5	38	64
EG020: Arsenic	7440-38-2	1	mg/kg					



Page Number : 4 of 5
 Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
 Work Order : HK1111108

Compound	Client sample ID		KTN-BH28 1.50M 16-MAY-2011 09:30 HK1111108-006	KTN-BH28 3.05-3.50M 16-MAY-2011 11:00 HK1111108-007	PC/TKL-BH33 15.20-15.65M 16-MAY-2011 11:30 HK1111108-008	PC/TKL-BH33 19.25-19.70M 16-MAY-2011 15:00 HK1111108-009
	CAS Number	Unit				
EA055: Moisture Content (dried @ 103°C)	---	0.1 %	34.9	24.8	18.2	22.1
EG: Metals and Major Cations	7440-38-2	1 mg/kg	39	85	2	2
EG020: Arsenic						



Page Number : 5 of 5
 Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
 Work Order : HK1111108

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 (%)
EATED: Physical and Aggregate Properties (QC Lot: 1792848)								
HK111108-001	PC/TKL-BH31 0.60M	EA055: Moisture Content (dried @ 103°C)		0.1	%	18.4	18.6	1.2
EG: Metals and Major Cations (QC Lot: 1792871)								
HK111108-001	PC/TKL-BH31 0.60M	EG020: Arsenic	7440-38-2	1	mg/kg	6	6	0.0
HK111108-004	KTN-BH28 0.50M	EG020: Arsenic	7440-38-2	1	mg/kg	38	38	0.0

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

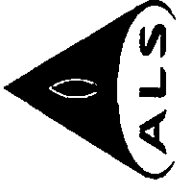
Matrix: SOIL		Method Blank (MB) Report		Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report									
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	Spike Recovery (%)	LCS	DCS	Recovery Limits (%)	Low	High	Value	Control Limit
EG: Metals and Major Cations (QC Lot: 1792871)	7440-38-2	1	mg/kg	<1	5 mg/kg	95.1	85	115					
EG020: Arsenic													

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 (%)	MS	MSD	Recovery Limits (%)	Low	High	Value	Control Limit
EG: Metals and Major Cations (QC Lot: 1792871)	Anonymous	EG020: Arsenic	7440-38-2	5 mg/kg	93.7	75	125					
HK1110887-001												

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

Client	: CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT	Laboratory	: ALS Technichem HK Pty Ltd	Page	: 1 of 5
Contact	: IR POPHIL LAM	Contact	: Chan Kwok Fai, Godfrey	Work Order	: HK1111185
Address	: GEOTECHNICAL PROJECTS DIVISION, GEOTECHNICAL ENGINEERING OFFICE, 23/F., KWUN TONG VIEW, 410 KWUN TONG ROAD, KOWLOON, HONG KONG	Address	: 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail	: Pophilkam@cedd.gov.hk	E-mail	: Godfrey.Chan@alsenviro.com		
Telephone	: +852 2716 8609	Telephone	: +852 2610 1044		
Facsimile	: +852 2715 7572	Facsimile	: +852 2610 2021		
Project	: AGREEMENT NO CE 61_2007(CE) - NORTH EAST NEW TERRITORIES DEVELOPMENT AREAS	Quote number	: ----	Date Samples Received	: 17-MAY-2011
Order number	: GE/2009/16.20			Issue Date	: 26-MAY-2011
C-O-C number	: H009876			No. of samples received	: 7
Site	: PING CHE, YIN KONG & FANLING			No. of samples analysed	: 7

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Signatories	Position	Authorised results for
Fung Lim Chee, Richard	General Manager	Inorganics



Page Number : 2 of 5
Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Work Order : HK1111185

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:

24-MAY-2011

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: **HK1111185**

Project Name: Agreement No. CE 61/2007(CE) - North East New Territories Development Areas, Planning and Engineering Study Ground Investigation Phase 2 and Laboratory Testing Service (Batch 2).

Sample(s) were received in a chilled condition.

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

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



Page Number : 3 of 5
 Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
 Work Order : HK1111185

Analytical Results

Sub-Matrix: SOIL

Compound	CAS Number	LOR	Unit	Client sample ID	Client sampling date / time
EA055: Physical and Aggregate Properties		0.1	%	KTN-BH28 7.60-8.05M 17-MAY-2011 09:30 HK1111185-001	23.4
EG: Metals and Major Cations				PC/TKL-BH31 3.15-3.60M 17-MAY-2011 11:00 HK1111185-002	14.2
EG020: Arsenic	7440-38-2	1	mg/kg	PC/TKL-BH33 23.30-23.75M 17-MAY-2011 13:30 HK1111185-003	21.6
				PC/TKL-BH31 7.20-7.65M 17-MAY-2011 16:30 HK1111185-004	11.9
				FLN-BH22 0.5M 17-MAY-2011 14:00 HK1111185-005	5.8
					<1
					3
					66
					7
					35



Compound	Client sample ID		Client sampling date / time	LOR	Unit
	CAS Number	FLN-BH22			
EA055: Moisture Content (dried @ 103°C)	7440-38-2	FLN-BH22 1.0M	17-MAY-2011 14:45	0.1	%
EG: Metals and Major Cations		FLN-BH22 1.5M	17-MAY-2011 15:30	2.2	
EG020: Arsenic		FLN-BH22 1.5M	17-MAY-2011 15:30	4	mg/kg



Laboratory Duplicate (DUP) Report

Matrix: SOIL		Method: Compound		Laboratory Duplicate (DUP) Report		
Laboratory sample ID	Client sample ID	LOR	Unit	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and Aggregate Properties (QC Lot: 1794803)						
HK1111185-002	PC/TKL-BH31 3.15-3.60M	0.1	%	14.2	15.7	9.6
HK1111185-001	KTN-BH28 7.60-8.05M	0.1	%	23.4	23.5	0.0
EG: Metals and Major Cations (QC Lot: 1799217)						
HK1111185-002	PC/TKL-BH31 3.15-3.60M	1	mg/kg	3	2	0.0
HK1111309-006	Anonymous	1	mg/kg	28	24	16.2

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

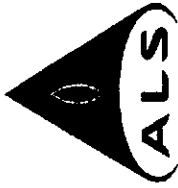
Matrix: SOIL		Method Blank (MB) Report		Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report									
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	Spike Recovery (%)	DCS	Recovery Limits (%)	Low	High	Value	RPD (%)	Control Limit
EG: Metals and Major Cations (QC Lot: 1799217)	7440-38-2	1	mg/kg	<1	5 mg/kg	89.2	85	115	85	115	---	---	---
EG020: Arsenic	7440-38-2	1	mg/kg	<1	5 mg/kg	89.2	85	115	85	115	---	---	---

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

Matrix: SOIL		Method: Compound		Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report				
Laboratory sample ID	Client sample ID	CAS Number	Spike Concentration	MS	MSD	Recovery Limits (%)	RPD (%)	Control Limit
EG: Metals and Major Cations (QC Lot: 1799217)	KTN-BH28 7.60-8.05M	7440-38-2	5 mg/kg	# Not Determined	---	75	125	---
HK1111185-001	KTN-BH28 7.60-8.05M	7440-38-2	5 mg/kg	# Not Determined	---	75	125	---

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

Client	: CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT	Laboratory	: ALS Technichem HK Pty Ltd	Page	: 1 of 6
Contact	: IR POPHIL LAM	Contact	: Chan Kwok Fai, Godfrey	Work Order	: HK1111309
Address	: GEOTECHNICAL PROJECTS DIVISION, GEOTECHNICAL ENGINEERING OFFICE, 23/F., KWUN TONG VIEW, 410 KWUN TONG ROAD, KOWLOON, HONG KONG	Address	: 1/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail	: Pophilllam@cedd.gov.hk	E-mail	: Godfrey.Chan@alsenviro.com		
Telephone	: +852 2716 8609	Telephone	: +852 2610 1044		
Facsimile	: +852 2715 7572	Facsimile	: +852 2610 2021		
Project	: AGREEMENT NO CE 61 2007(CE) - NORTH EAST NEW TERRITORIES DEVELOPMENT AREAS	Quote number	: ----	Date Samples Received	: 18-MAY-2011
Order number	: GE/2009/16.20			Issue Date	: 27-MAY-2011
C-O-C number	: H009877			No. of samples received	: 6
Site	: PING CHE, YIN KONG & FANLING			No. of samples analysed	: 6

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Signatories
Fung Lim Chee, Richard

Position
General Manager
Authorised results for
Inorganics



Page Number : 2 of 6
Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Work Order : HK1111309

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: 25-MAY-2011

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: **HK1111309**

Project Name: Agreement No. CE 61/2007(CE) - North East New Territories Development Areas, Planning and Engineering Study Ground Investigation Phase 2 and Laboratory Testing Service (Batch 2).

Sample(s) were received in a chilled condition.

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

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

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

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



Page Number : 3 of 6
 Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
 Work Order : HK1111309

Analytical Results

Sub-Matrix: SOIL

Compound	CAS Number	LOR	Unit	Client sample ID
EA/ED: Physical and Aggregate Properties				
EA055: Moisture Content (dried @ 103° C)		0.1	%	FLN-BH22 3.05-3.50M 18-MAY-2011 09:30 HK1111309-001
EG: Metals and Major Cations				
EG020: Arsenic	7440-38-2	1	mg/kg	FLN-BH22 3.05-3.50M 18-MAY-2011 09:30 HK1111309-002
				FLN-BH22 3.05-3.50M (DUPLICATE) 18-MAY-2011 09:30 HK1111309-005
				PC/TKL-BH33 27.35-27.80M 18-MAY-2011 11:00 HK1111309-006
				KTN-BH28 12.20-12.65M 18-MAY-2011 15:00 HK1111309-006



Page Number : 5 of 6
 Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
 Work Order : HK1111309

Laboratory Duplicate (DUP) Report

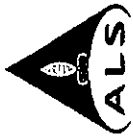
Matrix: SOIL		Laboratory Duplicate (DUP) Report	
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number
EA/ED: Physical and Aggregate Properties (QC Lot: 1799238)			
HK1111263-006	Anonymous	EA055: Moisture Content (dried @ 103°C)	
HK1111263-016	Anonymous	EA055: Moisture Content (dried @ 103°C)	
EA/ED: Physical and Aggregate Properties (QC Lot: 1799239)			
HK1111309-002	FLN-BH22 3.05-3.50M (DUPLICATE)	EA055: Moisture Content (dried @ 103°C)	
EG: Metals and Major Cations (QC Lot: 1799217)			
HK111185-002	Anonymous	EG020: Arsenic	7440-38-2
HK1111309-006	KTN-BH28 12.20-12.65M	EG020: Arsenic	7440-38-2
Matrix: WATER			
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number
EG: Metals and Major Cations - Filtered (QC Lot: 1802454)			
HK1111309-004	FLN-BH22 3.05-3.50M (FIELD BLANK)	EG020: Arsenic	7440-38-2

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
EG: Metals and Major Cations (QC Lot: 1799217)	7440-38-2	1	mg/kg	<1	5 mg/kg
EG020: Arsenic					89.2
Matrix: WATER					
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration
EG: Metals and Major Cations - Filtered (QC Lot: 1802454)	7440-38-2	10	µg/L	<10	100 µg/L
EG020: Arsenic					90.7

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
EG: Metals and Major Cations (QC Lot: 1799217)			
HK111185-001	Anonymous	EG020: Arsenic	7440-38-2
Matrix: WATER			
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number
EG: Metals and Major Cations (QC Lot: 1799217)			
HK111185-001	Anonymous	EG020: Arsenic	7440-38-2



Page Number : 6 of 6
 Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
 Work Order : HK1111309

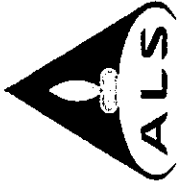
Matrix: WATER

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

EG: Metals and Major Cations - Filtered (QC Lot: 1802454)					91.8	----	75	125	----	---
HK1111309-003	FLN-BH22 3.05-3.50M (EQUIPMENT BLANK)	EG020: Arsenic	7440-38-2	100 µg/L		----				

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Contact : IR POPHIL LAM
Address : GEOTECHNICAL PROJECTS DIVISION, GEOTECHNICAL ENGINEERING OFFICE, 23/F., KWUN TONG VIEW, 410 KWUN TONG ROAD, KOWLOON, HONG KONG
E-mail : Pophilllam@cedd.gov.hk
Telephone : +852 2716 8609
Facsimile : +852 2715 7572
Project : AGREEMENT NO CE 61 2007(CE) - NORTH EAST NEW TERRITORIES DEVELOPMENT AREAS
Order number : GE/2009/16.20
C-O-C number : H009878
Site : YIN KONG

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

Page : 1 of 4
Work Order : HK1111547

Date Samples Received : 19-MAY-2011
Issue Date : 30-MAY-2011
No. of samples received : 1
No. of samples analysed : 1

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Signatories

Fung Lim Chee, Richard

Position

General Manager

Authorised results for

Inorganics

ALS Laboratory Group
Trading Name: ALS Technichem (HK) Pty Ltd
1/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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Page Number : 2 of 4
Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Work Order : HK1111547

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: HK1111547

Project Name: Agreement No. CE 61/2007(CE) - North East New Territories Development Areas, Planning and Engineering Study Ground Investigation Phase 2 and Laboratory Testing Service (Batch 2).

Sample(s) were received in a chilled condition.

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

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



Page Number : 3 of 4
 Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
 Work Order : HK1111547

Analytical Results

Sub-Matrix: SOIL

Compound	CAS Number	LOR	Client sample ID	
			Client sampling date / time	Unit
EA1ED: Physical and Aggregate Properties			KTN-BH28	
EA055: Moisture Content (dried @ 103° C)		0.1	16.25-16.70M	
EG: Metals and Major Cations			19-MAY-2011 13:10	
EG020: Arsenic	7440-38-2	1	HK1111547-001	
				21.4
				23



Page Number : 4 of 4
 Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
 Work Order : HK1111547

Laboratory Duplicate (DUP) Report

Laboratory sample ID		Client sample ID	Method: Compound	CAS Number	LOR	Unit	Laboratory Duplicate (DUP) Report		RPD (%)
							Original Result	Duplicate Result	
EA/ED: Physical and Aggregate Properties (QC Lot: 1801317)									
HK1111497-001	Anonymous		EA055: Moisture Content (dried @ 103°C)		0.1	%	18.9	17.4	8.2
EG: Metals and Major Cations (QC Lot: 1801361)									
HK1111501-001	Anonymous	7440-38-2	EG020: Arsenic		1	mg/kg	53	53	0.0

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

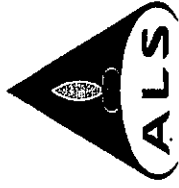
Method Blank (MB) Report				Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report									
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	LCS	Spike Recovery (%)	DCS	Recovery Limits (%)	Low	High	Value	Control Limit
EG: Metals and Major Cations (QC Lot: 1801361)	7440-38-2	1	mg/kg	<1	5 mg/kg	86.7	85	115					
EG020: Arsenic													

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

Laboratory sample ID		Client sample ID	Method: Compound	CAS Number	Spike Concentration	MS	Spike Recovery (%)	MSD	Recovery Limits (%)	Low	High	Value	Control Limit
EG: Metals and Major Cations (QC Lot: 1801361)													
HK1111497-001	Anonymous	7440-38-2	EG020: Arsenic		5 mg/kg	86.7	75	125					

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ALS Laboratory Group ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

Client	: CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT	Laboratory	: ALS Technichem HK Pty Ltd	Page	: 1 of 4
Contact	: IR POPHIL LAM	Contact	: Chan Kwok Fai, Godfrey	Work Order	: HK1111669
Address	: GEOTECHNICAL PROJECTS DIVISION, GEOTECHNICAL ENGINEERING OFFICE, 23/F., KWUN TONG VIEW, 410 KWUN TONG ROAD, KOWLOON, HONG KONG	Address	: 1/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail	: Pophilkiam@cedd.gov.hk	E-mail	: Godfrey.Chan@alsenviro.com		
Telephone	: +852 2716 8609	Telephone	: +852 2610 1044		
Facsimile	: +852 2715 7572	Facsimile	: +852 2610 2021		
Project	: AGREEMENT NO CE 61_2007(CE) - NORTH EAST NEW TERRITORIES DEVELOPMENT AREAS	Quote number	: ----	Date Samples Received	: 23-MAY-2011
Order number	: GE/2009/16.20			Issue Date	: 01-JUN-2011
C-O-C number	: H009879			No. of samples received	: 4
Site	: HO SHEUNG HEUNG			No. of samples analysed	: 4

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Signatories

Fung Lim Chee, Richard

Position

General Manager

Authorised results for

Inorganics

ALS Laboratory Group

Trading Name: ALS Technichem (HK) Pty Ltd

1/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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Page Number : 2 of 4
Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Work Order : HK1111669



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-MAY-2011

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: **HK1111669**

Project Name: Agreement No. CE 61/2007(CE) - North East New Territories Development Areas, Planning and Engineering Study Ground Investigation Phase 2 and Laboratory Testing Service (Batch 2).

Sample(s) were received in a chilled condition.

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

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



Page Number : 3 of 4
 Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
 Work Order : HK1111669

Analytical Results

Sub-Matrix: SOIL

Compound	CAS Number	LOR	Client sample ID			
			Client sampling date / time	Unit	Value	Reference
EAJED: Physical and Aggregate Properties						
EA055: Moisture Content (dried @ 103°C)		0.1	%	17.6	18.6	14.7
EG: Metals and Major Cations						
EG020: Arsenic	7440-38-2	1	mg/kg	38	40	38



Page Number : 4 of 4
 Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
 Work Order : HK1111669

Laboratory Duplicate (DUP) Report

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report		
				LOR	Unit	RPD (%)
EA/ED: Physical and Aggregate Properties (QC Lot: 1805328)						
HK1111613-001	Anonymous	EA055: Moisture Content (dried @ 103°C)	---	0.1	%	1.6
HK1111670-002	Anonymous	EA055: Moisture Content (dried @ 103°C)	---	0.1	%	9.9
EG: Metals and Major Cations (QC Lot: 1805266)						
HK1111669-001	KTN-BH25 0.5M	EG020: Arsenic	7440-38-2	1	mg/kg	13.5

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

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 (%)	Value	Control Limit
EG: Metals and Major Cations (QC Lot: 1805266)									
EG020: Arsenic	7440-38-2	1	mg/kg	<1	5 mg/kg	100	85 - 115	---	---

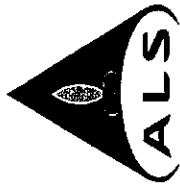
Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report			
				Spike Concentration	Spike Recovery (%)	Recovery Limits (%)	RPD (%)
EG: Metals and Major Cations (QC Lot: 1805266)							
HK1111628-001	Anonymous	EG020: Arsenic	7440-38-2	5 mg/kg	103	75 - 125	---

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

Client	: CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT	Laboratory	: ALS Technichem HK Pty Ltd	Page	: 1 of 4
Contact	: IR POPHIL LAM	Contact	: Chan Kwok Fai, Godfrey	Work Order	: HK1111680
Address	: GEOTECHNICAL PROJECTS DIVISION, GEOTECHNICAL ENGINEERING OFFICE, 23/F., KWUN TONG VIEW, 410 KWUN TONG ROAD, KOWLOON, HONG KONG	Address	: 1/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail	: Pophilkiam@cedd.gov.hk	E-mail	: Godfrey.Chan@alsenviro.com		
Telephone	: +852 2716 8609	Telephone	: +852 2610 1044		
Facsimile	: +852 2715 7572	Facsimile	: +852 2610 2021		
Project	: AGREEMENT NO CE 61_2007(CE) - NORTH EAST NEW TERRITORIES DEVELOPMENT AREAS	Quote number	: ----	Date Samples Received	: 24-MAY-2011
Order number	: GE/2009/16.20			Issue Date	: 02-JUN-2011
C-O-C number	: H009880			No. of samples received	: 2
Site	: HO SHEUNG HEUNG			No. of samples analysed	: 2

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Signatories

Fung Lim Chee, Richard

Position

General Manager

Authorised results for

Inorganics

ALS Laboratory Group

Trading Name: ALS Technichem (HK) Pty Ltd
1/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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Page Number : 2 of 4
Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Work Order : HK1111680

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: **HK1111680**

Project Name: Agreement No. CE 61/2007(CE) - North East New Territories Development Areas, Planning and Engineering Study Ground Investigation Phase 2 and Laboratory Testing Service (Batch 2).

Sample(s) were received in a chilled condition.

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

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



Page Number : 3 of 4
 Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
 Work Order : HK1111680

Analytical Results

Sub-Matrix: SOIL

Compound	CAS Number	LOR	Client sample ID	
			Client sampling date / time	Unit
EA055: Moisture Content (dried @ 103° C)	---	0.1	%	
EG: Metals and Major Cations	7440-38-2	1	mg/kg	
		2	mg/kg	

EA/ED: Physical and Aggregate Properties

EA055: Moisture Content (dried @ 103° C)

EG: Metals and Major Cations

EG020: Arsenic



Page Number : 4 of 4
 Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
 Work Order : HK1111680

Laboratory Duplicate (DUP) Report

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Laboratory Duplicate (DUP) Report		RPD (%)
						Original Result	Duplicate Result	
EAIED: Physical and Aggregate Properties (QC Lot: 1805326)								
HK1111613-001	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	14.2	13.9	1.6
HK1111670-002	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	14.7	13.3	9.9
EG: Metals and Major Cations (QC Lot: 1805266)								
HK1111669-001	Anonymous	EG020: Arsenic	7440-38-2	1	mg/kg	38	44	13.5

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

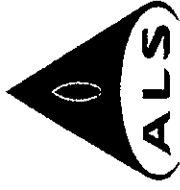
Method Blank (MB) Report				Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report									
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	LCS	Spike Recovery (%)	DCS	Recovery Limits (%)	Low	High	Value	Control Limit
EG: Metals and Major Cations (QC Lot: 1805266)	7440-38-2	1	mg/kg	<1	5 mg/kg	100				85	115		
EG020: Arsenic													

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

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Spike Concentration	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report			Control Limit
					MS	MSD	Recovery Limits (%)	
EG: Metals and Major Cations (QC Lot: 1805266)	Anonymous	EG020: Arsenic	7440-38-2	5 mg/kg	103	75	125	
HK1111628-001	Anonymous							

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

Client	: CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT	Laboratory	: ALS Technichem HK Pty Ltd	Page	: 1 of 4
Contact	: IR POPHIL LAM	Contact	: Chan Kwok Fai, Godfrey	Work Order	: HK1115949
Address	: GEOTECHNICAL PROJECTS DIVISION, GEOTECHNICAL ENGINEERING OFFICE, 23/F., KWUN TONG VIEW, 410 KWUN TONG ROAD, KOWLOON, HONG KONG	Address	: 1/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail	: Pophilkiam@cedd.gov.hk	E-mail	: Godfrey.Chan@alsenviro.com		
Telephone	: +852 2716 8609	Telephone	: +852 2610 1044		
Facsimile	: +852 2715 7572	Facsimile	: +852 2610 2021		
Project	: AGREEMENT NO CE 61_2007(CE) - NORTH EAST NEW TERRITORIES DEVELOPMENT AREAS	Quote number	: ----	Date Samples Received	: 11-JUL-2011
Order number	: GE/2009/16.20			Issue Date	: 20-JUL-2011
C-O-C number	: H009919			No. of samples received	: 4
Site	: MA TSO LUNG			No. of samples analysed	: 4

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Signatories

PP Fung Lim Chee, Richard

Position

General Manager

Authorised results for

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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Page Number : 2 of 4
Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Work Order : HK1115949

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:

16-JUL-2011

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: **HK1115949**

Project Name: Agreement No. CE 61/2007(CE) - North East New Territories Development Areas, Planning and Engineering Study Ground Investigation Phase 2 and Laboratory Testing Service (Batch 2).

Sample(s) were received in a chilled condition.

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

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



Page Number : 3 of 4
 Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
 Work Order : HK1115949

Analytical Results

Sub-Matrix: SOIL

Client sample ID	Client sample ID	Client sample ID	Client sample ID	Client sample ID
Client sampling date / time	Client sampling date / time	Client sampling date / time	Client sampling date / time	Client sampling date / time
CAS Number	LOR	Unit		
KTN-BH13 0.50M	11-JUL-2011 08:15	HK1115949-001	16.2	
KTN-BH13 1.00M	11-JUL-2011 09:00	HK1115949-002	16.5	
KTN-BH13 1.50M	11-JUL-2011 09:30	HK1115949-003	15.0	
KTN-BH13 3.05-3.50M	11-JUL-2011 13:00	HK1115949-004	12.7	
EA/ED: Physical and Aggregate Properties				
EA055: Moisture Content (dried @ 103° C)	0.1	%		
EG: Metals and Major Cations				
EG020: Arsenic	7440-382	1	mg/kg	75
				128
				50
				29



Page Number : 4 of 4
 Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
 Work Order : HK1115949

Laboratory Duplicate (DUP) Report

Matrix: SOIL	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: 1871078)	HK1115595-001	Anonymous	EA055: Moisture Content (dried @ 103°C)	7440-38-2	0.1	%	18.0	18.0	0.0
EG: Metals and Major Cations (QC Lot: 1872208)	HK1115788-002	Anonymous	EG020: Arsenic	7440-38-2	1	mg/kg	75	73	2.4

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	LOR	Unit	Result	Spike Concentration	LCS	Spike Recovery (%)	DCS	Recovery Limits (%)	Low	High	Value	Control Limit
EG: Metals and Major Cations (QC Lot: 1872208)	7440-38-2	1	mg/kg	<1	5 mg/kg	95.9	---	85	115	---	---	---
EG020: Arsenic												

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

Matrix: SOIL	Method: Compound	Spike Concentration	MS	MSD	Recovery Limits (%)	Low	High	Value	Control Limit
EG: Metals and Major Cations (QC Lot: 1872208)	EG020: Arsenic	5 mg/kg	87.4	---	75	125	---	---	---
HK1115788-001	Anonymous	7440-38-2	87.4	---	75	125	---	---	---

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Contact : IR POPHIL LAM
Address : GEOTECHNICAL PROJECTS DIVISION,
GEOTECHNICAL ENGINEERING OFFICE,
23/F., KWUN TONG VIEW,
410 KWUN TONG ROAD, KOWLOON, HONG KONG
E-mail : Pophilkiam@cedd.gov.hk
Telephone : +852 2716 8609
Facsimile : +852 2715 7572
Project : AGREEMENT NO CE 61_2007(CE) - NORTH EAST NEW TERRITORIES DEVELOPMENT AREAS
Order number : GE/2009/16.20
C-O-C number : H009920
Site : MA TSO LUNG (KTN)

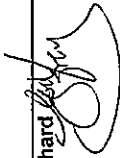
Laboratory : ALS Technichem HK Pty Ltd
Contact : Chan Kwok Fai, Godfrey
Address : 1/F., Chung Shun Knitting Centre, 1 -3 Wing Yip Street, Kwai Chung, N.T., Hong Kong
E-mail : Godfrey.Chan@alsenviro.com
Telephone : +852 2610 1044
Facsimile : +852 2610 2021
Quote number : ----

Page : 1 of 5
Work Order : HK1116373
Date Samples Received : 15-JUL-2011
Issue Date : 26-JUL-2011
No. of samples received : 6
No. of samples analysed : 6

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Signatories


Fung Lim Chee, Richard

Position

General Manager

Authorised results for

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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Page Number : 2 of 5
Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Work Order : HK1116373

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: **HK1116373**

As insufficient sample, the sample (HK1116373006) was reported on an as received basis.

Project Name: Agreement No. CE 61/2007(CE) - North East New Territories Development Areas, Planning and Engineering Study Ground Investigation Phase 2 and Laboratory Testing Service (Batch 2).

Sample(s) were received in a chilled condition.

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

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



Page Number : 3 of 5
 Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
 Work Order : HK1116373

Analytical Results

Sub-Matrix: SOIL

Compound	CAS Number	LOR	Unit	Client sample ID	Client sampling date / time	Value
EAJED: Physical and Aggregate Properties			%	KTN-BH13	15-JUL-2011 11:30	14.0
EA055: Moisture Content (dried @ 103°C)		0.1	%	KTN-BH13	15-JUL-2011 11:30	13.1
EG: Metals and Major Cations			mg/kg	KTN-BH13	15-JUL-2011 11:30	23
EG020: Arsenic	7440-38-2	1	mg/kg	KTN-BH13	15-JUL-2011 11:30	10
				KTN-BH13	15-JUL-2011 11:30	10.7
				KTN-BH13	15-JUL-2011 11:30	12.3
				KTN-BH13	15-JUL-2011 11:30	16.2
				KTN-BH13	15-JUL-2011 11:30	16
				KTN-BH13	15-JUL-2011 11:30	11



Page Number : 4 of 5
 Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
 Work Order : HK1116373

Compound	Client sample ID		Client sampling date / time	Unit
	CAS Number	LOR		
EG: Metals and Major Cations			15-JUL-2011 11:30	
EG020: Arsenic	7440-38-2	1	HK1116373-006	mg/kg
				17



Page Number : 5 of 5
 Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
 Work Order : HK1116373

Laboratory Duplicate (DUP) Report

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report				
				LOR	Unit	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and Aggregate Properties (QC Lot: 1876229)								
HK1116251-013	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	54.8	58.3	6.2
HK1116251-033	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	4.7	4.7	0.0
EA/ED: Physical and Aggregate Properties (QC Lot: 1876230)								
HK1116373-002	KTN-BH13 10.80M	EA055: Moisture Content (dried @ 103°C)		0.1	%	13.1	13.4	2.6
EG: Metals and Major Cations (QC Lot: 1882185)								
HK1116373-002	KTN-BH13 10.80M	EG020: Arsenic	7440-38-2	1	mg/kg	23	23	0.0

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

Method: Compound	CAS Number	LOR	Unit	Result	Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report				
					Spike Concentration	Spike Recovery (%)	DCS	Recovery Limits (%)	Value
Matrix: SOIL									
EG: Metals and Major Cations (QC Lot: 1882185)									
EG020: Arsenic	7440-38-2	1	mg/kg	<1	5 mg/kg	98.5	85	115	---

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

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Spike Concentration	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report				
					Spike Recovery (%)	MSD	Recovery Limits (%)	Value	Control Limit
Matrix: SOIL									
EG: Metals and Major Cations (QC Lot: 1882185)									
HK1116373-001	KTN-BH13 6.20M	EG020: Arsenic	7440-38-2	5 mg/kg	85.8	---	75	125	---

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ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

Client	: CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT	Laboratory	: ALS Technichem HK Pty Ltd	Page	: 1 of 5
Contact	: IR POPHIL LAM	Contact	: Chan Kwok Fai, Godfrey	Work Order	: HK1116571
Address	: GEOTECHNICAL PROJECTS DIVISION, GEOTECHNICAL ENGINEERING OFFICE, 23/F., KWUN TONG VIEW, 410 KWUN TONG ROAD, KOWLOON, HONG KONG	Address	: 1/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street Kwai Chung, N.T., Hong Kong		
E-mail	: Pophilkiam@cedd.gov.hk	E-mail	: Godfrey.Chan@alsenviro.com		
Telephone	: +852 2716 8609	Telephone	: +852 2610 1044		
Facsimile	: +852 2715 7572	Facsimile	: +852 2610 2021		
Project	: AGREEMENT NO CE 61_2007(CE) - NORTH EAST NEW TERRITORIES DEVELOPMENT AREAS	Quote number	: ----	Date Samples Received	: 18-JUL-2011
Order number	: GE/2009/16.20			Issue Date	: 27-JUL-2011
C-O-C number	: H008501			No. of samples received	: 7
Site	: PING CHE & MA TSO LUNG			No. of samples analysed	: 7

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Signatories

P Fung Lim Chee, Richard 

General Manager

Authorised results for

Inorganics

ALS Laboratory Group
Trading Name: **ALS Technichem (HK) Pty Ltd**
1/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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Page Number : 2 of 5
Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Work Order : HK1116571



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: **HK1116571**

Project Name: Agreement No. CE 61/2007(CE) - North East New Territories Development Areas, Planning and Engineering Study Ground Investigation Phase 2 and Laboratory Testing Service (Batch 2).

Sample(s) were received in a chilled condition.

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

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

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

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



Page Number : 3 of 5
 Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
 Work Order : HK1116571

Analytical Results

Sub-Matrix: SOIL

Compound	CAS Number	LOR	Client sample ID		Unit
			Client sampling date / time	Client sample ID	
EA/ED: Physical and Aggregate Properties					
EA055: Moisture Content (dried @ 103°C)		0.1	%		
EG: Metals and Major Cations					
EG020: Arsenic	7440-38-2	1	mg/kg		
				PC/TKL-BH25 0.50M 18-JUL-2011 08:00 HK1116571-001	18.4
				PC/TKL-BH25 0.50M (DUPLICATE) 18-JUL-2011 08:00 HK1116571-002	17.5
				PC/TKL-BH25 1.00M 18-JUL-2011 08:15 HK1116571-005	20.5
				PC/TKL-BH25 1.50M 18-JUL-2011 08:45 HK1116571-006	14.3
				KTN-BH13 44.15-44.45M 18-JUL-2011 15:00 HK1116571-007	26.6



Laboratory Duplicate (DUP) Report

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report				
				LOR	Unit	Original Result	Duplicate Result	RPD (%)
EATED: Physical and Aggregate Properties (QC Lot: 1879617)								
HK1116562-007	Anonymous	EA055: Moisture Content (dried @ 103°C)	---	0.1	%	14.7	14.8	1.1
EG: Metals and Major Cations (QC Lot: 1883476)								
HK1116523-007	Anonymous	EG020: Arsenic	7440-38-2	1	mg/kg	2	2	0.0
HK1116523-016	Anonymous	EG020: Arsenic	7440-38-2	1	mg/kg	2	2	0.0
Matrix: WATER								
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
HK1116571-004		EG020: Arsenic	7440-38-2	10	µg/L	<10	<10	0.0

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

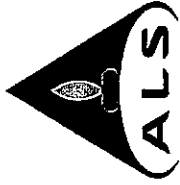
Method: Compound	CAS Number	LOR	Unit	Result	Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report								
					Spike Concentration	LCS	Spike Recovery (%)	DCS	Recovery Limits (%)	Low	High	Value	Control Limit
Method Blank (MB) Report													
EG020: Arsenic	7440-38-2	1	mg/kg	<1	5 mg/kg	89.2	85	115	---	---	---		
Method Blank (MB) Report													
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	LCS	Spike Recovery (%)	DCS	Recovery Limits (%)	Low	High	Value	Control Limit
EG020: Arsenic	7440-38-2	10	µg/L	<10	100 µg/L	102	85	115	---	---	---	---	---

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

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Spike Concentration	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report						
					MS	MSD	Recovery Limits (%)	Low	High	Value	Control Limit
Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report											
EG020: Arsenic	7440-38-2	5 mg/kg	92.2	75	125	---	---	---	---	---	---
Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report											
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Spike Concentration	MS	MSD	Recovery Limits (%)	Low	High	Value	Control Limit
EG020: Arsenic	7440-38-2	100 µg/L	98.2	75	125	---	---	---	---	---	---

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

Client	: CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT	Laboratory	: ALS Technichem HK Pty Ltd	Page	: 1 of 4
Contact	: IR POPHIL LAM	Contact	: Chan Kwok Fai, Godfrey	Work Order	: HK1116891
Address	: GEOTECHNICAL PROJECTS DIVISION, GEOTECHNICAL ENGINEERING OFFICE, 23/F., KWUN TONG VIEW, 410 KWUN TONG ROAD, KOWLOON, HONG KONG	Address	: 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street Kwai Chung, N.T., Hong Kong		
E-mail	: Pophiklam@cedd.gov.hk	E-mail	: Godfrey.Chan@alsenviro.com		
Telephone	: +852 2716 8609	Telephone	: +852 2610 1044		
Facsimile	: +852 2715 7572	Facsimile	: +852 2610 2021		
Project	: AGREEMENT NO CE 61 2007(CE) - NORTH EAST NEW TERRITORIES DEVELOPMENT AREAS	Quote number	: ----	Date Samples Received	: 20-JUL-2011
Order number	: GEI/2009/16.20			Issue Date	: 29-JUL-2011
C-O-C number	: H008502			No. of samples received	: 1
Site	: MA TSO LUNG			No. of samples analysed	: 1

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Authorised results for

Position

Signatories

Fung Lim Chee, Richard

General Manager

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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Page Number : 2 of 4
Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Work Order : HK1116891

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-JUL-2011

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: HK1116891

Project Name: Agreement No. CE 61/2007(CE) - North East New Territories Development Areas, Planning and Engineering Study Ground Investigation Phase 2 and Laboratory Testing Service (Batch 2).

Sample(s) were received in a chilled condition.

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

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



Page Number : 4 of 4
 Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
 Work Order : HK1116891

Laboratory Duplicate (DUP) Report

Laboratory sample ID	Client sample ID	Method: Compound	LOR	Unit	Laboratory Duplicate (DUP) Report		RPD (%)
					Original Result	Duplicate Result	
EATED: Physical and Aggregate Properties (QC Lot: 1885588)							
HK1116620-001	Anonymous	EA055: Moisture Content (dried @ 103°C)	0.1	%	28.7	28.4	1.0
HK1116843-007	Anonymous	EA055: Moisture Content (dried @ 103°C)	0.1	%	18.3	18.4	1.0
EG: Metals and Major Cations (QC Lot: 1887181)							
HK1116620-003	Anonymous	EG020: Arsenic	1	mg/kg	7	7	0.0

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

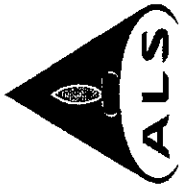
Method Blank (MB) Report				Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report			
Method: Compound	CAS Number	LOR	Unit	Spike Concentration	Spike Recovery (%)	DCS	RPD (%)
EG: Metals and Major Cations (QC Lot: 1887181)	7440-38-2	1	mg/kg	5 mg/kg	90.1	85	115
EG020: Arsenic							

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

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Spike Concentration	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report		RPD (%)
					MS	MSD	
EG: Metals and Major Cations (QC Lot: 1887181)	Anonymous	EG020: Arsenic	7440-38-2	5 mg/kg	90.9	75	125
HK1116620-001	Anonymous						

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

Client	: CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT	Laboratory	: ALS Technichem HK Pty Ltd	Page	: 1 of 4
Contact	: IR POPHIL LAM	Contact	: Chan Kwok Fai, Godfrey	Work Order	: HK1116996
Address	: GEOTECHNICAL PROJECTS DIVISION, GEOTECHNICAL ENGINEERING OFFICE, 23/F., KWUN TONG VIEW, 410 KWUN TONG ROAD, KOWLOON, HONG KONG	Address	: 1/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street Kwai Chung, N.T., Hong Kong		
E-mail	: Pophilkiam@cedd.gov.hk	E-mail	: Godfrey.Chan@alsenviro.com		
Telephone	: +852 2716 8609	Telephone	: +852 2610 1044		
Facsimile	: +852 2715 7572	Facsimile	: +852 2610 2021		
Project	: AGREEMENT NO CE 61 2007(CE) - NORTH EAST NEW TERRITORIES DEVELOPMENT AREAS	Quote number	: ----	Date Samples Received	: 22-JUL-2011
Order number	: GE/2009/16.20			Issue Date	: 01-AUG-2011
C-O-C number	: H008503			No. of samples received	: 3
Site	: MA TSO LUNG			No. of samples analysed	: 3

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Signatories

Fung Lim Chee, Richard

Position

General Manager

Authorised results for

Inorganics

ALS Laboratory Group

Trading Name: ALS Technichem (HK) Pty Ltd

1/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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Page Number : 2 of 4
Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Work Order : HK1116996

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: HK1116996

Project Name: Agreement No. CE 61/2007(CE) - North East New Territories Development Areas, Planning and Engineering Study Ground Investigation Phase 2 and Laboratory Testing Service (Batch 2).

Sample(s) were received in a chilled condition.

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

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



Page Number : 3 of 4
 Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
 Work Order : HK1116996

Analytical Results

Sub-Matrix: SOIL

Compound	CAS Number	LOR	Client sample ID	
			Client sampling date / time	Unit
EA/ED: Physical and Aggregate Properties			KTN-BH13 29.00M 22-JUL-2011 17:00 HK1116996-001	KTN-BH13 38.40M 22-JUL-2011 17:00 HK1116996-003
EA055: Moisture Content (dried @ 103°C)		0.1	11.1	8.1
EG: Metals and Major Cations				
EG020: Arsenic	7440-38-2	1	29	2
			mg/kg	



Laboratory Duplicate (DUP) Report

Laboratory sample ID	Client sample ID	Method: Compound	LOR	Laboratory Duplicate (DUP) Report		RPD (%)
				Original Result	Duplicate Result	
Matrix: SOIL						
EA/ED: Physical and Aggregate Properties (QC Lot: 1888933)						
HK1116996-001	KTN-BH13 29.00M	EA055: Moisture Content (dried @ 103°C)	0.1	11.1	11.0	1.3
HK1117146-002	Anonymous	EA055: Moisture Content (dried @ 103°C)	0.1	17.3	17.7	2.1
EG: Metals and Major Cations (QC Lot: 1887181)						
HK1116620-003	Anonymous	EG020: Arsenic	1	7	7	0.0

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

Method Blank (MB) Report				Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report			
Method: Compound	CAS Number	LOR	Unit	Spike Concentration	Spike Recovery (%)	DCS	RPD (%)
EG: Metals and Major Cations (QC Lot: 1887181)	7440-38-2	1	mg/kg	5 mg/kg	90.1	---	---
EG020: Arsenic					<1	85	115

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

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report		Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report	
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number
EG: Metals and Major Cations (QC Lot: 1887181)	Anonymous	EG020: Arsenic	7440-38-2
HK1116620-001	Anonymous		
		Spike Concentration	5 mg/kg
		MS	90.9
		MSD	---
		Recovery Limits (%)	Low 75 High 125
		Value	---
		Control Limit	---



Page Number : 4 of 4
 Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
 Work Order : HK1116996

Laboratory Duplicate (DUP) Report

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report				
				LOR	Unit	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and Aggregate Properties (QC Lot: 1888933)								
HK1116996-001	KTN-BH13 29.00M	EA055: Moisture Content (dried @ 103°C)		0.1	%	11.1	11.0	1.3
HK1117146-002	: Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	17.3	17.7	2.1
EG: Metals and Major Cations (QC Lot: 1887181)								
HK1116620-003	: Anonymous	EG020: Arsenic	7440-38-2	1	mg/kg	7	7	0.0

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

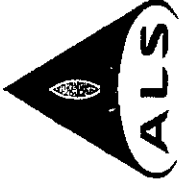
Method Blank (MB) Report				Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report								
Method: Compound	CAS Number	LOR	Unit	Spike Concentration	LCS	Spike Recovery (%)	DCS	Recovery Limits (%)	Low	High	Value	RPD (%)
EG: Metals and Major Cations (QC Lot: 1887181)	7440-38-2	1	mg/kg	5 mg/kg	90.1	<1			85	115		
EG020: Arsenic												

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

Matrix: SOIL		Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report										
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Spike Concentration	MS	Spike Recovery (%)	MSD	Recovery Limits (%)	Low	High	Value	RPD (%)
EG: Metals and Major Cations (QC Lot: 1887181)				5 mg/kg	90.9				75	125		
HK1116620-001	: Anonymous	EG020: Arsenic	7440-38-2	5 mg/kg	90.9				75	125		

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

Client	: CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT	Laboratory	: ALS Technichem HK Pty Ltd	Page	: 1 of 6
Contact	: IR POPHIL LAM	Contact	: Chan Kwok Fai, Godfrey	Work Order	: HK1118458
Address	: GEOTECHNICAL PROJECTS DIVISION, GEOTECHNICAL ENGINEERING OFFICE, 23/F., KWUN TONG VIEW, 410 KWUN TONG ROAD, KOWLOON, HONG KONG	Address	: 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail	: Pophilkiam@cedd.gov.hk	E-mail	: Godfrey.Chan@alsglobal.com	Date Samples Received	: 05-AUG-2011
Telephone	: +852 2716 8609	Telephone	: +852 2610 1044	Issue Date	: 18-AUG-2011
Facsimile	: +852 2715 7572	Facsimile	: +852 2610 2021	No. of samples received	: 3
Project	: AGREEMENT NO CE 61_2007(CE) - NORTH EAST NEW TERRITORIES DEVELOPMENT AREAS	Quote number	: ----	No. of samples analysed	: 3
Order number	: GE/2009/16.20				
C-O-C number	: H008506				
Site	: MA TSO LUNG				

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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

FP Fung Lim Chee, Richard

Position

General Manager

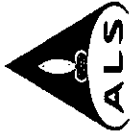
Authorised results for

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



Page Number : 2 of 6
Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Work Order : HK1118458

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:

11-AUG-2011

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: **HK1118458**

Project Name: Agreement No. CE 61/2007(CE) - North East New Territories Development Areas, Planning and Engineering Study Ground Investigation Phase 2 and Laboratory Testing Service (Batch 2).

Sample(s) were received in a chilled condition.

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

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

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

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



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 Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
 Work Order : HK1118458

Analytical Results

Sub-Matrix: SOIL

Compound	CAS Number	LOR	Client sample ID	
			Client sampling date / time	Unit
EA/ED: Physical and Aggregate Properties			KTN-BH13 54.50M	KTN-BH13 61.00M
EA055: Moisture Content (dried @ 103°C)		0.1	05-AUG-2011 09:30 HK1118458-001	05-AUG-2011 09:30 HK1118458-002
EG: Metals and Major Cations			2.7	8.9
EG020: Arsenic	7440-382	1	356	215



Sub-Matrix: WATER

Compound	Client sample ID		LOR	Unit	pH Unit
	CAS Number	Client sampling date / time			
EAJED: Physical and Aggregate Properties					
EA002: pH Value	----	0.1			7.0
EG: Metals and Major Cations - Filtered					
EG020: Arsenic	7440-38-2	10			<10



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 Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
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Laboratory Duplicate (DUP) Report

Matrix: SOIL		Laboratory Duplicate (DUP) Report	
Laboratory sample ID	Client sample ID	Method: Compound	Method: Compound
EA/ED: Physical and Aggregate Properties (QC Lot: 1907737)			
HK1118314-001	Anonymous	EA055: Moisture Content (dried @ 103°C)	EA055: Moisture Content (dried @ 103°C)
HK1118591-002	Anonymous	EA055: Moisture Content (dried @ 103°C)	EA055: Moisture Content (dried @ 103°C)
EG: Metals and Major Cations (QC Lot: 1909694)			
HK1118458-002	KTN-BH13 61.00M	EG020: Arsenic	EG020: Arsenic
LOR		Unit	RPD (%)
---	---	%	7.2
0.1	29.7	%	27.7
0.1	54.5	%	55.8
1	215	mg/kg	202
7440-38-2		215	6.1
Laboratory Duplicate (DUP) Report			
CAS Number	Original Result	Duplicate Result	RPD (%)
---	---	---	---
7440-38-2	215	202	6.1
Matrix: WATER			
Laboratory sample ID	Client sample ID	Method: Compound	Method: Compound
EA/ED: Physical and Aggregate Properties (QC Lot: 1908280)			
HK1118471-001	Anonymous	EA002: pH Value	EA002: pH Value
HK1118452-002	Anonymous	EA002: pH Value	EA002: pH Value
EG: Metals and Major Cations - Filtered (QC Lot: 1908011)			
HK1118449-013	Anonymous	EG020: Arsenic	EG020: Arsenic
LOR		Unit	RPD (%)
0.1	7.9	pH Unit	0.0
0.1	8.4	pH Unit	0.0
10	<10	µg/L	<10
7440-38-2		<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
EG: Metals and Major Cations (QC Lot: 1909694)					
EG020: Arsenic	7440-38-2	1	mg/kg	<1	5 mg/kg
7440-38-2		1	mg/kg	<1	91.3
7440-38-2		1	mg/kg	<1	85
7440-38-2		1	mg/kg	<1	115
Matrix: WATER					
Method Blank (MB) Report		Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report		Laboratory Control Spike Duplicate (DCS) Report	
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration
EG: Metals and Major Cations - Filtered (QC Lot: 1908011)					
EG020: Arsenic	7440-38-2	10	µg/L	<10	100 µg/L
7440-38-2		10	µg/L	<10	96.4
7440-38-2		10	µg/L	<10	85
7440-38-2		10	µg/L	<10	115

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	Method: Compound
EG: Metals and Major Cations (QC Lot: 1909694)			
HK1118458-001	KTN-BH13 54.50M	EG020: Arsenic	EG020: Arsenic
LOR		Unit	RPD (%)
---	---	# Not Determined	---
5 mg/kg	75	125	---
7440-38-2		75	125
Matrix: WATER			
Laboratory sample ID	Client sample ID	Method: Compound	Method: Compound
EG: Metals and Major Cations - Filtered (QC Lot: 1908011)			
HK1118449-012	Anonymous	EG020: Arsenic	EG020: Arsenic
LOR		Unit	RPD (%)
---	---	97.6	---
100 µg/L	75	125	---
7440-38-2		75	125

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