# ALS Technichem (HK) Pty Ltd

#### ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



#### **CERTIFICATE OF ANALYSIS**

Client : LAM GEOTECHNICS LIMITED

: MR C M YEE

Laboratory Contact

: ALS Technichem HK Pty Ltd : Chan Kwok Fai, Godfrey

Page Work Order : 1 of 3

Address : 11/F., CENTRE POINT,

181-185 GLOUCESTER ROAD.

Address

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Facsimile

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Contact

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E-mail Telephone : Godfrey.Chan@alsenviro.com

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: +852 2610 1044

: ----

Facsimile Quote number : +852 2610 2021

**Date Samples Received** 

: 16-NOV-2009

: HK1000486

Project Order number : LG29024 : CV/2009/13

C-O-C number

: H006237

: S1-2

: HK/1797/2009\*\*

Issue Date No. of samples received

: 23-JAN-2010 : 2

No. of samples analysed : 2

#### General Comments

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for processing purposes. If the sampling time is displayed as 0:00 the information was not provided by client. The completion date of analysis is: 20-JAN-2010 Key: LOR = Limit of reporting, CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society. Specific comments for Work Order: HK1000486

Project Name: Kwai Tsing Container Basin - Marine Ground Investigation.

Sample(s) were received in an ambient condition.

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

Sample(s) were arrived in the laboratory at 09:00. Sample(s), in vibrocores, were received in an ambient condition. Testing period: 08/01/2010 (11:00) - 10/01/2010.

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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 Fung Lim Chee, Richard Leung Sai Ho, Ivan

Position General Manager Supervisor

Authorised results for Inorganics Microbiology

ALS Laboratory Group Trading Name: ALS Technichem (HK) Pty Ltd

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Page Number Client

∴ 2 of 3 : ^LAM GEOTECHNICS LIMITED

Work Order

HK1000486



Analytical Results								
Sub-Matrix: SEDIMENT		Clier	nt sample ID	)	S1-2	S1-2		1
				-	0-0.9M	0.9-1.9M	; •	i
	Clien	t samplin	g date / time		[14-NOV-2009]	[14-NOV-2009]		 • •
Compound	CAS Number	LOR	Unit	į	HK1000486-001	HK1000486-002		
EA/ED: Physical and Aggregate Properties								 
EA055: Moisture Content (dried @ 103°C	<del></del> -	0.1	%		51.0	43.3		 · · · · · · · · · · · · · · · · · · ·
ED/EK: Inorganic Nonmetallic Parameters								 · · · · · · · · · · · · · · · · · · ·
EK067A: Total Phosphorus as P		20	mg/kg	,	626	315		 · · · · · · · · · · · · · · · · · · ·
EK082: Acid Volatile Sulphides (as S)		10	mg/kg		48	<10		 
EK085S: Sulphide as S2-	18496-25-8	1	mg/kg		<1	<1		: · · · · · · ·
EM: Microbiological Testing								 
EM102: Escherichia coli		3	MPN/g	1 ga	<3	<3		· · · · · · · · · · · · · · · · · · ·

; 3 of 3

Client

: LAM GEOTECHNICS LIMITED

Work Order

HK1000486



#### Laboratory Duplicate (DUP) Report

Matrix: SOIL				**************************************	Labo	ratory Duplicate (DUP)	Report	
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical a	nd Aggregate Properti	es (QC Lot: 1215681)						
HK1000483-002	Anonymous	EA055: Moisture Content (dried @ 103°C)	}	0.1	%	29.1	28.5	2.0
HK1000489-002	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	41.9	41.9	0.0
ED/EK: Inorganic	Nonmetallic Parameter	's (QC Lot: 1219505)					;	
HK1000485-001	Anonymous	EK082: Acid Volatile Sulphides (as S)		10	mg/kg	<10	<10	0.0
ED/EK: Inorganic	Nonmetallic Parameter	's (QC Lot: 1224086)						
HK1000485-001	Anonymous	EK067A: Total Phosphorus as P		20	mg/kg	179	207	14.7

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

Matrix: SOIL	Ī		Metho	od Blank (l	MB) Rep	ort	Labor	ratory Contro	Spike (LCS) and La	boratory Contr	ol Spike Duplica	ate (DCS) R	S) Report	
							Spike	Spike	Recovery (%)	Recovery	Limits (%)	F	PD (%)	
Method: Compound	CAS Number	LOR		Unit		Result	Concentration	LCS	DCS	Low	High	Value	Control Limit	
ED/EK: Inorganic Nonmetallic Para	meters (QC Lot: 12	219505)			-								•	
EK082: Acid Volatile Sulphides (as S)		1		mg/kg	:	<1	5 mg/kg	88.0	:	85	115		<u></u>	
ED/EK: Inorganic Nonmetallic Para	meters (QC Lot: 12	221503)											· • · · · · · · · · · · · · · · · · · ·	
EK085S: Sulphide as S2-	18496-25-8	1		mg/kg	:	<1								
ED/EK: Inorganic Nonmetallic Para	meters (QC Lot: 12	224086)							1					
EK067A: Total Phosphorus as P		20		mg/kg		<20	775 mg/kg	97.2		85	115			

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

# ALS Technichem (HK) Pty Ltd

#### ALS Laboratory Group

**ANALYTICAL CHEMISTRY & TESTING SERVICES** 



#### CERTIFICATE OF ANALYSIS

: ALS Technichem HK Ptv Ltd

: 11/F., Chung Shun Knitting Centre,

Kwai Chung, N.T., Hong Kong

: Godfrey.Chan@alsenviro.com

: Chan Kwok Fai, Godfrey

1 - 3 Wing Yip Street,

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: MR C M YEE

: 11/F., CENTRE POINT.

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WANCHAI, HONG KONG

E-mail : Samuel@Lamconstruct.com.hk

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Contact

Address

Project : LG29024 Order number

: CV/2009/13 C-O-C number : H006237

Site : S1-3

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Telephone Facsimile

E-mail

Laboratory

Contact

Address

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: +852 2610 1044

Quote number : HK/1797/2009\*\* Date Samples Received

Issue Date

Page

Work Order

: 24-NOV-2009 : 23-JAN-2010

: 1 of 3

· HK1000474

No. of samples received : 1 : 1

No. of samples analysed

#### General Comments

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for processing purposes. If the sampling time is displayed as 0:00 the information was not provided by client. The completion date of analysis is: 21-JAN-2010 Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society. Specific comments for Work Order: HK1000474

Project Name: Kwai Tsing Container Basin - Marine Ground Investigation.

Sample(s) were received in an ambient condition.

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

Sample(s) were arrived in the laboratory at 18:15. Sample(s), in plastic bags, were received in an ambient condition. Testing period: 08/01/2010 (11:00) - 10/01/2010.

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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 Fung Lim Chee, Richard Leung Sai Ho, Ivan⇔

Position

Authorised results for

General Manager Supervisor

Inorganics Microbiology

ALS Laboratoru Group Trading Name: ALS Technichem (HK) Pty Ltd

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Page Numb*ê*r Client`

: 2 of 3 : LAM GEOTECHNICS LIMITED

Work Order HK1000474



								(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Analytical Results				· <del>-</del>				
Sub-Matrix: SEDIMENT		Clier	nt sample ID	S1-3	····		***	
				GRAB		:		
,—,—	Clien	t samplin	g date / time	[24-NOV-2009]				
Compound	CAS Number	LOR	Unit	HK1000474-001			•	
EA/ED: Physical and Aggregate Properties							-	
EA055: Moisture Content (dried @ 103°C)		0.1	%	53.8				
ED/EK: Inorganic Nonmetallic Parameters								
EK067A: Total Phosphorus as P		20	mg/kg	635				
EK082: Acid Volatile Sulphides (as S)		10	mg/kg	312	<u> </u>		•	
EK085S: Sulphide as S2-	18496-25-8	1	mg/kg	<1		i i		
EM: Microbiological Testing						'		
EM102: Escherichia coli		3	MPN/g	<3				
								Contract to the contract of th

: 3 of 3

Client`

: LAM GEOTECHNICS LIMITED

Work Order

HK1000474



#### Laboratory Duplicate (DUP) Report

Matrix: SOIL					Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)		
EA/ED: Physical a	ınd Aggregate Prop	erties (QC Lot: 1215680)					<del>-</del> "			
HK1000461-001	Anonymous	EA055: Moisture Content (dried @ 103°C)	1	0.1	%	54.5	55.0	0.9		
HK1000472-001	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	61.3	60.7	1.0		
ED/EK: Inorganic	Nonmetallic Parame	eters (QC Lot: 1217625)								
HK1000464-001	Anonymous	EK082: Acid Volatile Sulphides (as S)		10	mg/kg	559	496	11.9		
ED/EK: Inorganic	Nonmetallic Parame	eters (QC Lot: 1224738)			- +					
HK1001124-001	Anonymous	EK067A: Total Phosphorus as P		20	mg/kg	622	538	14,4		

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

Matrix: SOIL			Method Blank (MB)	Report	Labo	ratory Control Sp	ike (LCS) and La	boratory Contro	ol Spike Duplic	ate (DCS) R	eport
					Spike	Spike Red	overy (%)	Recovery	Limits (%)	RPD (%)	
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	DCS	Low	High	Value	Control Limit
ED/EK: Inorganic Nonmetallic Para	meters (QC Lot: 12	217625)						•			
EK082: Acid Volatile Sulphides (as S)		1	mg/kg	<1	5 mg/kg	94.3	:	85	115		
ED/EK: Inorganic Nonmetallic Para	meters (QC Lot: 12	21502)					· <u>-</u>		• • • • • • •		
EK085S: Sulphide as S2-	18496-25-8	1	mg/kg	<1			· · ·	:			<del></del>
ED/EK: Inorganic Nonmetallic Para	meters (QC Lot: 12	24738)									
EK067A: Total Phosphorus as P		20	mg/kg	<20	775 mg/kg	97.2		85	115		

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

# ALS Technichem (HK) Pty Ltd

#### ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



#### CERTIFICATE OF ANALYSIS

Client

: LAM GEOTECHNICS LIMITED

Laboratory Contact

: ALS Technichem HK Ptv Ltd : Chan Kwok Fai, Godfrev

Page

Work Order

: 1 of 3

Contact : MR C M YEE

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Facsimile : +852 2610 2021

> **Date Samples Received** Issue Date

02-DEC-2009

· HK1000472

: CV/2009/13

: H006237

: D1-2

Quote number

: HK/1797/2009\*\*

: 23-JAN-2010

No. of samples received No. of samples analysed

: 1 : 1

#### General Comments

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for processing purposes. If the sampling time is displayed as 0:00 the information was not provided by client. The completion date of analysis is: 20-JAN-2010 Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society. Specific comments for Work Order: HK1000472

Project Name: Kwai Tsing Container Basin - Marine Ground Investigation.

Sample(s) were received in an ambient condition.

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

Sample(s) were arrived in the laboratory at 18:15. Sample(s), in plastic bags, were received in an ambient condition. Testing period: 08/01/2010 (11:00) - 10/01/2010,

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Signatories Fung Lim Chee, Richard Leung Sai Ho, IvanƳ

Position

Authorised results for

General Manager Supervisor

Inorganics Microbiology

ALS Laboratory Group Trading Name: ALS Technichem (HK) Pty Ltd

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: LG29024 Project

Order number

Address

E-mail

Telephone

C-O-C number Site

Page Number \_: 2 of 3

Client

: LAM GEOTECHNICS LIMITED

Work Order

HK1000472



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	Clier	nt sample ID 📑	D1-2		:	:	!
			GRAB		•		
Clien	t sampling	g date / time 🤺	[02-DEC-2009]				
CAS Number	LOR	Unit	HK1000472-001	î 			
s			<u></u> -				· · · · · · · · · · · · · · · · · · ·
	0.1	%	61.3		en e		
}		•					
	20	mg/kg	541	:			
	10	mg/kg	538	-j			
18496-25-8	<sup>'</sup> 1	mg/kg	<1		:		
						→	
	3	MPN/g	<3			1	-
	CAS Number s C)	Client sampling  CAS Number LOR  S  C) 0.1  S  20  10  18496-25-8 1	s 0.1 %  20 mg/kg 10 mg/kg 18496-25-8 1 mg/kg	GRAB   Client sampling date / time   [02-DEC-2009]     CAS Number   LOR   Unit   HK1000472-001     SC     0.1   %   61.3     S     20   mg/kg   541     S     10   mg/kg   538     18496-25-8   1   mg/kg   <1     S     3   MPN/g   <3	GRAB  Client sampling date / time [02-DEC-2009]  CAS Number LOR Unit HK1000472-001  S C) 0.1 % 61.3  20 mg/kg 541  10 mg/kg 538  18496-25-8 1 mg/kg <1	GRAB  Client sampling date / time [02-DEC-2009]  CAS Number LOR Unit HK1000472-001  S  C) 0.1 % 61.3  20 mg/kg 541  10 mg/kg 538  18496-25-8 1 mg/kg <1  3 MPN/g <3	GRAB Client sampling date / time [02-DEC-2009]  CAS Number LOR Unit HK1000472-001  S C) 0.1 % 61.3  20 mg/kg 541  10 mg/kg 538 18496-25-8 1 mg/kg <1  3 MPN/g <3

್∴: 3 of 3

Client

: LAM GEOTECHNICS LIMITED

Work Order\*

HK1000472



#### Laboratory Duplicate (DUP) Report

Matrix: SOIL					Labo	ratory Duplicate (DUP)	Report	
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical a	nd Aggregate Properti	es (QC Lot: 1215680)						
HK1000461-001	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	54.5	55.0	0.9
HK1000472-001	D1-2 GRAB	EA055: Moisture Content (dried @ 103°C)		0.1	%	61.3	60.7	1.0
ED/EK: Inorganic	Nonmetallic Paramete	rs (QC Lot: 1217625)						
HK1000464-001	Anonymous	EK082: Acid Volatile Sulphides (as S)		10	mg/kg	559	496	11.9
ED/EK: Inorganic	Nonmetallic Paramete	rs (QC Lot: 1224085)			- +			
HK1000482-001	Anonymous	EK067A: Total Phosphorus as P		20	mg/kg	200	227	12.8

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

Matrix: SOIL			Method Blank (ME	) Report	Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report								
					Spike	Spike Rec	overy (%)	Recovery	Limits (%)	R	PD (%)		
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	DCS	Low	High	Value	Control Limit		
ED/EK: Inorganic Nonmetallic Para	ameters (QC Lot: 12	17625)			···			·					
EK082: Acid Volatile Sulphides (as S)		1	mg/kg	<1	5 mg/kg	94.3		85	115				
ED/EK: Inorganic Nonmetallic Para	ameters (QC Lot: 12	21502)											
EK085S: Sulphide as S2-	18496-25-8	1	mg/kg	<1									
ED/EK: Inorganic Nonmetallic Para	ameters (QC Lot: 12	24085)											
EK067A: Total Phosphorus as P		20	mg/kg	<20	695 mg/kg	85.6		85	115				

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

# ALS Technichem (HK) Pty Ltd

#### ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



#### CERTIFICATE OF ANALYSIS

Client : LAM GEOTECHNICS LIMITED

: MR C M YEE

Laboratory Contact

: ALS Technichem HK Ptv Ltd : Chan Kwok Fai, Godfrey

Page Work Order : 1 of 3

Contact

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: LG29024

Order number : CV/2009/13

C-O-C number : H006237 Site : D1-3

Quote number

: HK/1797/2009\*\*

Date Samples Received

: 02-DEC-2009

HK1000471

Issue Date

: 23-JAN-2010 : 1

: 1

No. of samples received No. of samples analysed

#### General Comments

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for processing purposes. If the sampling time is displayed as 0:00 the information was not provided by client. The completion date of analysis is: 20-JAN-2010 Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society. Specific comments for Work Order: HK1000471

Project Name: Kwai Tsing Container Basin - Marine Ground Investigation.

Sample(s) were received in an ambient condition.

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

Sample(s) were arrived in the laboratory at 18:15. Sample(s), in plastic bags, were received in an ambient condition. Testing period: 08/01/2010 (11:00) - 10/01/2010.

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Signatories Fung Lim Chee, Richard Leung Sai Ho, Ivan ♥

Position General Manager Supervisor

Authorised results for Inorganics Microbiology

ALS Laboratory Group Trading Name: ALS Technichem (HK) Ptu Ltd

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Page Number 😅 2 of 3

Client : LAM GEOTECHNICS LIMITED

Work Order 'HK1000471



Analytical Results						 			
Sub-Matrix: SEDIMENT		Clier	nt sample ID 🦷	D1-3		 <u> </u>			
			1	GRAB		1			
	Client	t samplin	g date / time 📱	[02-DEC-2009]		 1	:		· :
Compound	CAS Number	LOR	Unit	HK1000471-001			:		
EA/ED: Physical and Aggregate Proper	ies					 	·	·····	· · · · · · · · · · · · · · · · · · ·
EA055: Moisture Content (dried @ 103		0.1	%	62.4		 ,			
ED/EK: Inorganic Nonmetallic Paramete						 			
EK067A: Total Phosphorus as P		20	mg/kg	676	*** v **	 	•		
EK082: Acid Volatile Sulphides (as S)		10	mg/kg	614					
EK085S: Sulphide as S2-	18496-25-8	1	mg/kg	<1		* * * * * * * * * * * * * * * * * * *	:		
EM: Microbiological Testing						 			
EM102: Escherichia coli		3	MPN/a	<3		 			

∴ 3 of 3

Client

: LAM GEOTECHNICS LIMITED

Work Order `

HK1000471



#### Laboratory Duplicate (DUP) Report

Matrix: SOIL					Lab	oratory Duplicate (DUP)	Report	The transfer of the second warrants of
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical a	nd Aggregate Prop	erties (QC Lot: 1215680)				-		
HK1000461-001	Anonymous	EA055: Moisture Content (dried @ 103°C)	}	0.1	%	54.5	55.0	0.9
HK1000472-001	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	61.3	60.7	1.0
ED/EK: Inorganic	Nonmetallic Parame	eters (QC Lot: 1217625)						
HK1000464-001	Anonymous	EK082: Acid Volatile Sulphides (as S)		10	mg/kg	559	496	11.9
ED/EK: Inorganic	Nonmetallic Parame	eters (QC Lot: 1224085)						
HK1000482-001	Anonymous	EK067A: Total Phosphorus as P		20	mg/kg	200	227	12.8

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

Matrix: SOIL	<b></b>		Method Blank (ME	) Report	Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report								
	•				Spike	Spike Red	overy (%)	Recovery Limits (%)		RPD (%)			
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	DCS	Low	High	Value	Control Limi		
ED/EK: Inorganic Nonmetallic Para	meters (QC Lot: 12	217625)			· ·				•				
EK082: Acid Volatile Sulphides (as S)		1	mg/kg	<1	5 mg/kg	94.3		85	115		******		
ED/EK: Inorganic Nonmetallic Para	meters (QC Lot: 12	21502)							•				
EK085S: Sulphide as S2-	18496-25-8	1	mg/kg	<1	<del></del>								
ED/EK: Inorganic Nonmetallic Para	meters (QC Lot: 12	24085)											
EK067A: Total Phosphorus as P		20	mg/kg	<20	695 mg/kg	85.6		85	115				

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

# ALS Technichem (HK) Pty Ltd

#### ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



#### CERTIFICATE OF ANALYSIS

Client : LAM GEOTECHNICS LIMITED

Contact : MR C M YEE

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Telephone : +852 2839 5633

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Address

Project

: LG29024

Order number : CV/2009/13

C-O-C number : H006237

Site : D6-1

Laboratory : ALS Technichem HK Ptv Ltd Contact

: Chan Kwok Fai, Godfrey

: 11/F., Chung Shun Knitting Centre,

1 - 3 Wing Yip Street.

Kwai Chung, N.T., Hong Kong : Godfrey.Chan@alsenviro.com

E-mail Telephone : +852 2610 1044

Address

Quote number

Facsimile : +852 2610 2021

: HK/1797/2009\*\*

**Date Samples Received** 

Page

Work Order

Issue Date

02-DEC-2009 : 23-JAN-2010

: 1 of 3

HK1000470

No. of samples received : 1 No. of samples analysed : 1

#### General Comments

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for processing purposes. If the sampling time is displayed as 0:00 the information was not provided by client. The completion date of analysis is: 20-JAN-2010 Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society. Specific comments for Work Order: HK1000470

Project Name: Kwai Tsing Container Basin - Marine Ground Investigation.

Sample(s) were received in an ambient condition.

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

Sample(s) were arrived in the laboratory at 18:15. Sample(s), in plastic bags, were received in an ambient condition. Testing period: 08/01/2010 (11:00) - 10/01/2010.

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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 Fung Lim Chee, Richard Leung Sai Ho, Ivan

Position General Manager Supervisor

Authorised results for Inorganics Microbiology

ALS Laboratory Group Trading Name: ALS Technichem (HK) Ptu Ltd

11/F., Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, N.T., Hong Kong Tet +852 2610 1044 Fax: +852 2610 2021 www.alsenviro.com

Page Number : ☆of 3

Client

**LAM GEOTECHNICS LIMITED** 

Work Order

HK1000470



Analytical Results					·			المحاربة				
Sub-Matrix: SEDIMENT		Clie	nt sample ID	)	D6-1	F		1		•		
				ì	GRAB			1		·		
	Clien	t samplin	ng date / time	,	[02-DEC-2009]			į		!		
Compound	CAS Number	LOR	Unit		HK1000470-001							
EA/ED: Physical and Aggregate Properties	3		•				-					·
EA055: Moisture Content (dried @ 103°C		0.1	%		58.4							The second secon
ED/EK: Inorganic Nonmetallic Parameters			,						•			* * * * * * * * * * * * * * * * * * *
EK067A: Total Phosphorus as P		20	mg/kg	:	522			1	•			
EK082: Acid Volatile Sulphides (as S)		10	mg/kg		190							
EK085S: Sulphide as S2-	18496-25-8	1	mg/kg		<1					:		
EM: Microbiological Testing												
EM102: Escherichia coli		3	MPN/g	- :	<3					. •	•	

: 2 of 3

Client

. : LAM GEOTECHNICS LIMITED

Work Order

HK1000470



#### Laboratory Duplicate (DUP) Report

Matrix: SOIL					Lab	oratory 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 Prope	erties (QC Lot: 1215680)						
HK1000461-001	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	54.5	55.0	0.9
HK1000472-001	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	61.3	60.7	1.0
ED/EK: Inorganio	Nonmetallic Parame	eters (QC Lot: 1217625)						
HK1000464-001	Anonymous	EK082: Acid Volatile Sulphides (as S)		10	mg/kg	559	496	11.9
ED/EK: Inorganio	Nonmetallic Parame	eters (QC Lot: 1224085)					•	
HK1000482-001	Anonymous	EK067A: Total Phosphorus as P		20	mg/kg	200	227	12.8

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

Matrix: SOIL	-		Method Blank (M	B) Report	Labo	ratory Control Sp	oike (LCS) and Lat	oratory Contro	ol Spike Duplica	ate (DCS) R	eport
					Spike	Spike Re	covery (%)	Recovery	Limits (%)	R	PD (%)
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	DCS	Low	High	Value	Control Limit
ED/EK: Inorganic Nonmetallic Para	meters (QC Lot: 12	17625)			· <u></u>		•				
EK082: Acid Volatile Sulphides (as S)		1	mg/kg	<1	5 mg/kg	94.3		85	115		
ED/EK: Inorganic Nonmetallic Para	meters (QC Lot: 12	21502)									
EK085S: Sulphide as S2-	18496-25-8	1	mg/kg	<1							······································
ED/EK: Inorganic Nonmetallic Para	meters (QC Lot: 12	24085)					•				
EK067A: Total Phosphorus as P		20	mg/kg	<20	695 mg/kg	85.6		85	115		

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

# ALS Technichem (HK) Pty Ltd

#### ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



#### CERTIFICATE OF ANALYSIS

Client : LAM GEOTECHNICS LIMITED

: MR C M YEE

: 11/F., CENTRE POINT.

181-185 GLOUCESTER ROAD,

WANCHAI, HONG KONG

: Samuel@Lamconstruct.com.hk

Telephone : +852 2839 5633

Facsimile

Contact

Address

E-mail

Project

: LG29024

Order number : CV/2009/13

C-O-C number : H006237

Site : D6-2

: ALS Technichem HK Pty Ltd

: Chan Kwok Fai, Godfrey

: 11/F., Chung Shun Knitting Centre.

1 - 3 Wing Yip Street,

Kwai Chung, N.T., Hong Kong

: Godfrey.Chan@alsenviro.com Telephone : +852 2610 1044

Laboratory

Contact

Address

E-mail

Facsimile : +852 2610 2021

Quote number : HK/1797/2009\*\*

**Date Samples Received** 

**Issue Date** 

Page

Work Order

: 28-DEC-2009 : 23-JAN-2010

: 1 of 3

· HK1000485

No. of samples received

: 2 No. of samples analysed : 2

#### General Comments

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for processing purposes. If the sampling time is displayed as 0:00 the information was not provided by client. The completion date of analysis is; 21-JAN-2010 Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society. Specific comments for Work Order: HK1000485

Project Name: Kwai Tsing Container Basin - Marine Ground Investigation.

Sample(s) were received in an ambient condition.

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

Sample(s) were arrived in the laboratory at 18:30. Sample(s), in vibrocores, were received in an ambient condition. Testing period: 08/01/2010 (11:00) - 10/01/2010.

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Leung Sai Ho, Ivan

Position

Authorised results for

General Manager Supervisor

Inorganics Microbiology

ALS Laboratoru Group Trading Name: ALS Technichem (HK) Pty Ltd

1 VF., Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, N.T., Hong Kong, Tet +852 2610 1044 Fax: +852 2610 2021 www.alsenviro.com

Page Number : 2 of 3

Client :.LAM GEOTECHNICS LIMITED
Work Order HK1000485

Analytical Results



Analytical Results Sub-Matrix: SEDIMENT	Clien		nt sample ID g date / time		D6-2 0-0.9M [28-DEC-2009]	D6-2 0.9-1.9M [28-DEC-2009]				· · · · · · · · · · · · · · · · · · ·	
Compound	CAS Number	LOR	Unit	1	HK1000485-001	HK1000485-002	f !		•		
EA/ED: Physical and Aggregate Properties	i .		•			·		-			
EA055: Moisture Content (dried @ 103°C	)	0.1	%	)	29.6	29.7	·- ·- ·	 			
ED/EK: Inorganic Nonmetallic Parameters						*		 			
EK067A: Total Phosphorus as P		20	mg/kg	· ·	179	191		 !			
EK082: Acid Volatile Sulphides (as S)		10	mg/kg	;	<10	<10					
EK085S: Sulphide as S2-	18496-25-8	1	mg/kg	1	<1	<1	İ	-			
EM: Microbiological Testing							4	 •			
EM102: Escherichia coli		3	MPN/g		<3	<3	1	 ;			

: 3 of 3

Client

**LAM GEOTECHNICS LIMITED** 

Work Order 🛫

HK1000485



#### Laboratory Duplicate (DUP) Report

Matrix: SOIL			[		Lab	oratory Duplicate (DUP)	Report	* - " ### , ,
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical a	ınd Aggregate Prop	erties (QC Lot: 1215681)			-			
HK1000483-002	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	29.1	28.5	2.0
HK1000489-002	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	41.9	41.9	0.0
ED/EK: Inorganic	Nonmetallic Parame	eters (QC Lot: 1219505)						
HK1000485-001	D6-2 0-0.9M	EK082: Acid Volatile Sulphides (as S)		10	mg/kg	<10	<10	0.0
ED/EK: Inorganic	Nonmetallic Parame	eters (QC Lot: 1224085)						
HK1000482-001	Anonymous	EK067A: Total Phosphorus as P	}	20	mg/kg	200	227	12.8
ED/EK: Inorganic	Nonmetallic Parame	eters (QC Lot: 1224738)						
HK1001124-001	Anonymous	EK067A: Total Phosphorus as P		20	mg/kg	622	538	14.4

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

Matrix: SOIL			Method Blank (M	B) Report	Labo	ratory Control Sp	ike (LCS) and Lat	(LCS) and Laboratory Control Spike Duplicate (DCS) Report				
					Spike	Spike Red	overy (%)	Recovery	Limits (%)	RPD (%)		
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	DCS	Low	High	Value	Control Limit	
ED/EK: Inorganic Nonmetallic Para	meters (QC Lot: 12	19505)						-				
EK082: Acid Volatile Sulphides (as S)		1	mg/kg	<1	5 mg/kg	88.0		85	115		! ====	
ED/EK: Inorganic Nonmetallic Para	meters (QC Lot: 12	21503)									_ L	
EK085S: Sulphide as S2-	18496-25-8	1	mg/kg	<1			and the second					
ED/EK: Inorganic Nonmetallic Para	meters (QC Lot: 12	24085)					=					
EK067A: Total Phosphorus as P	)	20	mg/kg	<20	695 mg/kg	85.6		85	115			
ED/EK: Inorganic Nonmetallic Para	meters (QC Lot: 12	24738)										
EK067A: Total Phosphorus as P		20	mg/kg	<20	775 mg/kg	97.2		85	115			

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

# ALS

: 1 of 3

#### ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES

#### **CERTIFICATE OF ANALYSIS**

Client : LAM GEOTECHNICS LIMITED Laboratory : ALS Technichem HK Pty Ltd Page

Contact : MR C M YEE Contact : Chan Kwok Fai, Godfrey Work Order : HK1000482

: 11/F., CENTRE POINT, Address : 11/F., Chung Shun Knitting Centre, 181-185 GLOUCESTER ROAD, 1 - 3 Wing Yip Street.

WANCHAI, HONG KONG Kwai Chung, N.T., Hong Kong

Telephone : +852 2839 5633 Telephone : +852 2610 1044

Facsimile : --- Facsimile : +852 2610 2021

Project : LG29024 Quote number : HK/1797/2009\*\* Date Samples Received : 28-DEC-2009
Order number : CV/2009/13 Issue Date : 23-JAN-2010

C-O-C number : H006237 : Siste Date : 23-JAN-20 : No. of samples received : 2

Site : D7-2 No. of samples analysed : 2

#### **General Comments**

Address

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for processing purposes. If the sampling time is displayed as 0:00 the information was not provided by client. The completion date of analysis is: 20-JAN-2010 Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society. Specific comments for Work Order: HK1000482

Project Name: Kwai Tsing Container Basin - Marine Ground Investigation.

Sample(s) were received in an ambient condition.

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

Sample(s) were arrived in the laboratory at 18:30. Sample(s), in vibrocores, were received in an ambient condition. Testing period: 08/01/2010 (11:00) - 10/01/2010.

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

Signatories	Position	Authorised results for
Fung Lim Chee, Richard	General Manager	Inorganics
Leung Sai Ho, Ivan	Supervisor	Microbiology

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 Tet +852 2610 1044 Fax: +852 2610 2021 www.alsenviro.com Page Number Client

: 2 of 3

: LAM GEOTECHNICS LIMITED

Work Order

HK1000482



<u> </u>	· · · · · · · · · · · · · · · · · · ·				·										
Analytical Results															
Sub-Matrix: SEDIMENT		Clien	t sample ID		D7-2	D.	7-2	]						 ···	
				1	0-0.9M	0.9-	1.9M								Ì
	Client	sampling	date / time		[28-DEC-2009]	[28-DE	C-2009]				1		:	 	··· · · i
Compound	CAS Number	LOR	Unit		HK1000482-001	HK1000	1482-002			•				 	
EA/ED: Physical and Aggregate Properties	3								•					 	
EA055: Moisture Content (dried @ 103°C	·)	0.1	%		29.6	3:	2.6				1	*		 	
ED/EK: Inorganic Nonmetallic Parameters														 •	
EK067A: Total Phosphorus as P		20	mg/kg		200	1.	26							 	
EK082: Acid Volatile Sulphides (as S)		10	mg/kg		<10	<	10				:		-:	 	
EK085S: Sulphide as S2-	18496-25-8	1	mg/kg		<1	<	<1				i				
EM: Microbiological Testing														 	
EM102: Escherichia coli		3	MPN/g	-	<3	;	:3	1			7			 	1

: 3 of 3

Client

: LAM GEOTECHNICS LIMITED

Work Order

HK1000482



#### Laboratory Duplicate (DUP) Report

Matrix: SOIL					Labora	tory Duplicate (DUP)	Report	
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical a	nd Aggregate Propert	ies (QC Lot: 1215680)					·	
HK1000461-001	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	54.5	55.0	0.9
HK1000472-001	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	61.3	60.7	1.0
ED/EK: Inorganic	Nonmetallic Paramete	rs (QC Lot: 1217625)						
HK1000464-001	Anonymous	EK082: Acid Volatile Sulphides (as S)		10	mg/kg	559	496	11.9
ED/EK: Inorganic	Nonmetallic Paramete	rs (QC Lot: 1224085)						
HK1000482-001	D7-2 0-0.9M	EK067A: Total Phosphorus as P		20	mg/kg	200	227	12.8

#### 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									
					Spike	Spike Red	overy (%)	Recovery	Limits (%)	F	PD (%)			
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	DCS	Low	High	Value	Control Limit			
ED/EK: Inorganic Nonmetallic Pa	rameters (QC Lot: 12	217625)												
EK082: Acid Volatile Sulphides (as S)		1	mg/kg	<1	5 mg/kg	94.3		85	115					
ED/EK: Inorganic Nonmetallic Pa	rameters (QC Lot: 12	221502)												
EK085S: Sulphide as S2-	18496-25-8	1	mg/kg	<1			· · · · · · · · · · · · · · · · · · ·	NO	······································					
ED/EK: Inorganic Nonmetallic Pa	rameters (QC Lot: 12	224085)												
EK067A: Total Phosphorus as P		20	mg/kg	<20	695 mg/kg	85.6		85	115					

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

# ALS: Technichem (HK) Pty Ltd

#### ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



#### CERTIFICATE OF ANALYSIS

Client : LAM GEOTECHNICS LIMITED

: MR C M YEE

Laboratory Contact

: ALS Technichem HK Pty Ltd : Chan Kwok Fai, Godfrey

Page

Work Order

: 1 of 3

Contact

: 11/F., CENTRE POINT, 181-185 GLOUCESTER ROAD.

WANCHAI, HONG KONG

Address

E-mail

: 11/F., Chung Shun Knitting Centre.

Kwai Chung, N.T., Hong Kong

E-mail Telephone

Address

Project

: Samuel@Lamconstruct.com.hk

: +852 2839 5633

Facsimile

: LG29024 : CV/2009/13

Order number C-O-C number : H006237

Site : D7-3

1 - 3 Wing Yip Street.

: Godfrey.Chan@alsenviro.com

Telephone : +852 2610 1044 Facsimile : +852 2610 2021

Quote number : HK/1797/2009\*\*

**Date Samples Received** 

: 28-DEC-2009 : 23-JAN-2010

Microbiology

: HK1000483

Issue Date

: 2

No. of samples received No. of samples analysed : 2

#### General Comments

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for processing purposes. If the sampling time is displayed as 0:00 the information was not provided by client. The completion date of analysis is: 20-JAN-2010 Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society. Specific comments for Work Order: HK1000483

Project Name: Kwai Tsing Container Basin - Marine Ground Investigation.

Sample(s) were received in an ambient condition.

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

Sample(s) were arrived in the laboratory at 18:30. Sample(s), in vibrocores, were received in an ambient condition. Testing period: 08/01/2010 (11:00) - 10/01/2010.

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Supervisor

Signatories Fung Lim Chee, Richard Leung Sai Ho, IvanQ

Position Authorised results for 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

Page Number : 2 of 3

Client

ı, h

: I≥AM GEOTECHNICS LIMITED

Work Order

HK1000483



Analytical Populto							<u></u>			
Analytical Results Sub-Matrix: SEDIMENT		Clie	nt sample IE	) [	D7-3	D7-3				:
	Clien	t samplin	g date / time	9	<b>0-0.9M</b> [28-DEC-2009]	<b>0.9-1.9M</b> [28-DEC-2009]		!		·
Compound	CAS Number	LOR	Unit	····	HK1000483-001	HK1000483-002			•	
EA/ED: Physical and Aggregate Properties	3						•			
EA055: Moisture Content (dried @ 103°C	;)	0.1	%	- 'y'	31.0	29.1				,
ED/EK: Inorganic Nonmetallic Parameters									• •	
EK067A: Total Phosphorus as P		20	mg/kg	[	303	317		.=		
EK082: Acid Volatile Sulphides (as S)		10	mg/kg	7	<10	<10		1		; · · · · · · · · · · · · · · · · · · ·
EK085S: Sulphide as S2-	18496-25-8	1	mg/kg		<1	<1	1	:		•
EM: Microbiological Testing									•	
EM102: Escherichia coli		3	MPN/g	)	<3	<3		T T T T T T T T T T T T T T T T T T T		· · · · · · · · · · · · · · · · · · ·

: 3 of 3

Client

: LAM GEOTECHNICS LIMITED

Work Order

HK1000483



#### Laboratory Duplicate (DUP) Report

Matrix: SOIL					Lab	oratory Duplicate (DUP)	Report	
Laboratory sample ID	Client sample ID	: Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical a	nd Aggregate Prope	erties (QC Lot: 1215680)						
HK1000461-001	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	54.5	55.0	0.9
HK1000472-001	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	61.3	60.7	1.0
EA/ED: Physical a	nd Aggregate Prope	erties (QC Lot: 1215681)	·					
HK1000483-002	D7-3 0.9-1.9M	EA055: Moisture Content (dried @ 103°C)		0.1	%	29.1	28.5	2.0
HK1000489-002	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	41.9	41.9	0.0
ED/EK: Inorganic	Nonmetallic Parame	eters (QC Lot: 1217625)					ı	
HK1000464-001	Anonymous	EK082: Acid Volatile Sulphides (as S)		10	mg/kg	559	496	11.9
ED/EK: Inorganic	Nonmetallic Parame	eters (QC Lot: 1224085)	•				"	
HK1000482-001	Anonymous	EK067A: Total Phosphorus as P		20	mg/kg	200	227	12.8

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

Matrix: SOIL	Į.	Method Blank (MB) Report				Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report							
						Spike	Spike Recovery (%)		Recovery Limits (%)		RPD (%)		
Method: Compound	CAS Number	LOR	Unit		Result	Concentration	LCS	DCS	Low	High	Value	Control Limit	
ED/EK: Inorganic Nonmetallic Para	meters (QC Lot: 12	217625)		-		· · · · · · · · · · · · · · · · · · ·	· · · · · ·			•		· ·	
EK082: Acid Volatile Sulphides (as S)		1	mg/kg	:	<1	5 mg/kg	94.3	·	85	115			
ED/EK: Inorganic Nonmetallic Para	meters (QC Lot: 12	21502)											
EK085S: Sulphide as S2-	18496-25-8	1	mg/kg		<1			· · · · · · · · · · · · · · · · · · ·					
ED/EK: Inorganic Nonmetallic Para	meters (QC Lot: 12	21503)											
EK085S: Sulphide as S2-	18496-25-8	1	mg/kg	419	<1								
ED/EK: Inorganic Nonmetallic Para	meters (QC Lot: 12	24085)										· · · · · · · · · · · · · · · · · · ·	
EK067A: Total Phosphorus as P	)	20	mg/kg	:	<20	695 mg/kg	85.6		85	115			

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

# ALS Technichem (HK) Pty Ltd

#### ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



#### CERTIFICATE OF ANALYSIS

Client : LAM GEOTECHNICS LIMITED Laboratory : ALS Technichem HK Ptv Ltd Page : 1 of 3

Contact : MR C M YEE Contact : Chan Kwok Fai, Godfrey Work Order HK1000465

> : 11/F., CENTRE POINT, Address : 11/F., Chung Shun Knitting Centre, 181-185 GLOUCESTER ROAD. 1 - 3 Wing Yip Street,

WANCHAI, HONG KONG Kwai Chung, N.T., Hong Kong

E-mail E-mail : Samuel@Lamconstruct.com.hk : Godfrey.Chan@alsenviro.com

Telephone : +852 2839 5633 Telephone : +852 2610 1044 **Facsimile Facsimile** : +852 2610 2021

Project : LG29024 Quote number : HK/1797/2009\*\* **Date Samples Received** : 24-NOV-2009 Order number : CV/2009/13 Issue Date : 23-JAN-2010

C-O-C number : H006238 No. of samples received : 1 Site

: S5-1 No. of samples analysed : 1

#### General Comments

Address

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for processing purposes. If the sampling time is displayed as 0:00 the information was not provided by client. The completion date of analysis is: 20-JAN-2010 Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society. Specific comments for Work Order: HK1000465

Project Name: Kwai Tsing Container Basin - Marine Ground Investigation.

Sample(s) were received in an ambient condition.

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

Sample(s) were arrived in the laboratory at 18:15. Sample(s), in plastic bags, were received in an ambient condition. Testing period: 08/01/2010 (11:00) - 10/01/2010.

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Supervisor

Signatories Fung Lim Chee, Richard Leung Sai Ho, IvanQ

Position Authorised results for General Manager Inorganics

Microbiology

ALS Laboratoru Group

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

Trading Name: ALS Technichem (HK) Ptu Ltd

Client

: 2 05 3 : LAM GEOTECHNICS LIMITED HK1000465

Work Order



Ana	lytical Results
Cub M	Asia, OCDINENT

Sub-Matrix: SEDIMENT		Clier	nt sample IE	)	S5-1		A. (	 	* *		 ::	 	
	Clien	t samplin	g date / time	9	<b>GRAB</b> [24-NOV-2009]								
Compound	CAS Number	LOR	Unit	4	HK1000465-001	i			:	•			- (
EA/ED: Physical and Aggregate Properties	;				<del>.</del>	· · · ·		 					
EA055: Moisture Content (dried @ 103°C		0.1	%		62.8	;							!
ED/EK: Inorganic Nonmetallic Parameters			•										
EK067A: Total Phosphorus as P		20	mg/kg		541			 •	•				
EK082: Acid Volatile Sulphides (as S)		10	mg/kg		641		• •						
EK085S: Sulphide as S2-	18496-25-8	1	mg/kg		<1								
EM: Microbiological Testing							•						
EM102: Escherichia coli		3	MPN/g		<3	i						 	

: 3 of 3

Client

: LAM GEOTECHNICS LIMITED

Work Order

HK1000465



#### Laboratory Duplicate (DUP) Report

Matrix: SOIL			f		Lab	oratory Duplicate (DUP)	Report	
Laboratory sample ID	Client sample ID	Method; Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical a	ınd Aggregate Propei	ties (QC Lot: 1215680)						•
HK1000461-001	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	54.5	55.0	0.9
HK1000472-001	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	61.3	60.7	1.0
ED/EK: Inorganic	Nonmetallic Paramet	ers (QC Lot: 1217625)					,	
HK1000464-001	Anonymous	EK082: Acid Volatile Sulphides (as S)	:	10	mg/kg	559	496	11.9
ED/EK: Inorganic	Nonmetallic Paramet	ers (QC Lot: 1224085)						
HK1000482-001	Anonymous	EK067A: Total Phosphorus as P		20	mg/kg	200	227	12.8

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

Matrix: SOIL	,		Method Blank (MB,	) Report	Labo	Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report								
					Spike	Spike Recovery (%)		Recovery Limits (%)		RPD (%)				
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	DCS	Low	High	Value	Control Limi			
ED/EK: Inorganic Nonmetallic Para	meters (QC Lot: 12	217625)												
EK082: Acid Volatile Sulphides (as S)		1	mg/kg	<1	5 mg/kg	94.3		85	115					
ED/EK: Inorganic Nonmetallic Para	meters (QC Lot: 12	21502)												
EK085S: Sulphide as S2-	18496-25-8	1	mg/kg	<1				· · · <u>· · · · · · · · · · · · · · · · </u>			· · · · · · · · · · · · · · · · · · ·			
ED/EK: Inorganic Nonmetallic Para	meters (QC Lot: 12	24085)						1 00 000 1 1						
EK067A: Total Phosphorus as P		20	mg/kg	<20	695 mg/kg	85.6		85	115					

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

# ALS Technichem (HK) Ptu Ltd

#### ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



#### CERTIFICATE OF ANALYSIS

Client Contact

Address

: LAM GEOTECHNICS LIMITED

: MR C M YEE

: 11/F., CENTRE POINT.

181-185 GLOUCESTER ROAD.

WANCHAI, HONG KONG

F-mail Telephone

: Samuel@Lamconstruct.com.hk

: +852 2839 5633

Facsimile

Project : LG29024

Order number : CV/2009/13

C-O-C number : H006238

Site : S5-2

Laboratory : ALS Technichem HK Pty Ltd Contact

: Chan Kwok Fai, Godfrev

: 11/F., Chung Shun Knitting Centre,

1 - 3 Wing Yip Street,

Kwai Chung, N.T., Hong Kong

E-mail : Godfrey.Chan@alsenviro.com

Telephone : +852 2610 1044 Facsimile : +852 2610 2021

Address

Quote number : HK/1797/2009\*\*

**Date Samples Received** : 20-NOV-2009

Page

Work Order

Issue Date : 23-JAN-2010

: 1 of 3

: HK1000481

No. of samples received : 2 No. of samples analysed : 2

#### General Comments

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for processing purposes. If the sampling time is displayed as 0:00 the information was not provided by client. The completion date of analysis is: 20-JAN-2010 Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society. Specific comments for Work Order: HK1000481

Project Name: Kwai Tsing Container Basin - Marine Ground Investigation.

Sample(s) were received in an ambient condition.

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

Sample(s) were arrived in the laboratory at 17:30. Sample(s), in vibrocores, were received in an ambient condition. Testing period: 08/01/2010 (11:00) - 10/01/2010.

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Signatories Fung Lim Chee, Richard Leung Sai Ho, Ivana

Position

Authorised results for

General Manager Supervisor

Inorganics Microbiology

ALS Laboratory Group Trading Name: ALS Technichem (HK) Ptu Ltd

11/F., Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, N.T., Hong Kong Tet +852 2610 1044 Fax: +852 2610 2021 www.alsenviro.com

2 of 3

Client

: LAM GEOTECHNICS LIMITED

Work Order

, HK1000481



Analytical Results Sub-Matrix: SEDIMENT	Clien		t sample ID ı date / time		\$5-2 0-0.9M [20-NOV-2009]	S5-2 0.9-1.9 <b>M</b> [20-NOV-2009]		 	 :	
Compound	CAS Number	LOR	Unit	:	HK1000481-001	HK1000481-002		 i i		
EA/ED: Physical and Aggregate Properties	1				• •			 	 	
EA055: Moisture Content (dried @ 103°C	)	0.1	%	7	31.6	38.2			 . 1 .	
ED/EK: Inorganic Nonmetallic Parameters								 		
EK067A: Total Phosphorus as P		20	mg/kg		789	177		 7	 	
EK082: Acid Volatile Sulphides (as S)		10	mg/kg	į.	<10	<10	7 7 1-			
EK085S: Sulphide as S2-	18496-25-8	1	mg/kg		<1	<1	į	1 1	:	• • • !
EM: Microbiological Testing								 	 	
EM102: Escherichia coli		3	MPN/g		<3	<3		 	 	

: 3 of 3

Client

: LAM GEOTECHNICS LIMITED

Work Order

, HK1000481



#### Laboratory Duplicate (DUP) Report

Matrix: SOIL		<u> </u>			Laboi	atory Duplicate (DUP)	Report	
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical a	nd Aggregate Propertie	s (QC Lot: 1215680)						
HK1000461-001	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	54.5	55.0	0.9
HK1000472-001	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	61.3	60.7	1.0
ED/EK: Inorganic	Nonmetallic Parameters	(QC Lot: 1217625)	_				•	
HK1000464-001	Anonymous	EK082: Acid Volatile Sulphides (as S)		10	mg/kg	559	496	11.9
ED/EK: Inorganic	Nonmetallic Parameters	(QC Lot: 1224085)	,					
HK1000482-001	Anonymous	EK067A: Total Phosphorus as P		20	mg/kg	200	227	12.8

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

Matrix: SOIL.		I	Method Blank (Mi	B) Report	Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report									
					Spike	Spike Recovery (%)		Recovery Limits (%)		RPD (%)				
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	DCS	Low	High	Value	Control Limit			
ED/EK: Inorganic Nonmetallic Para	meters (QC Lot: 12	17625)					•				··· · · · · · · · · · · · · · · · · ·			
EK082: Acid Volatile Sulphides (as S)		1	mg/kg	<1	5 mg/kg	94.3		85	115					
ED/EK: Inorganic Nonmetallic Para	meters (QC Lot: 12	21502)								• • • • • •				
EK085S: Sulphide as S2-	18496-25-8	1	mg/kg	<1				· · · · ·	·					
ED/EK: Inorganic Nonmetallic Para	meters (QC Lot: 12	24085)												
EK067A: Total Phosphorus as P		20	mg/kg	<20	695 mg/kg	85.6	<del></del>	85	115					

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

# ... ALS Technichem (HK) Pty Ltd

#### ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



#### CERTIFICATE OF ANALYSIS

Client : LAM GEOTECHNICS LIMITED Contact

: MR C M YEE

: 11/F., CENTRE POINT,

181-185 GLOUCESTER ROAD.

WANCHAI, HONG KONG

E-mail : Samuel@Lamconstruct.com.hk Telephone : +852 2839 5633

Facsimile

Address

Project : LG29024

Order number : CV/2009/13 C-O-C number : H006238

Site : S5-4

Laboratory : ALS Technichem HK Pty Ltd Contact : Chan Kwok Fai, Godfrey

: 11/F., Chung Shun Knitting Centre,

1 - 3 Wing Yip Street,

Kwai Chung, N.T., Hong Kong

E-mail : Godfrey.Chan@alsenviro.com Telephone : +852 2610 1044

Facsimile : +852 2610 2021

Address

Quote number

: HK/1797/2009\*\*

Date Samples Received

Page

Work Order

: 24-NOV-2009 Issue Date : 21-JAN-2010

: 1 of 3

: HK1000464

No. of samples received : 1 No. of samples analysed : 1

#### General Comments

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Project Name: Kwai Tsing Container Basin - Marine Ground Investigation.

Sample(s) were received in an ambient condition.

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

Sample(s) were arrived in the laboratory at 18:15. Sample(s), in plastic bags, were received in an ambient condition. Testing period: 08/01/2010 (11:00) - 10/01/2010.

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Signatories Trung Lim Chee, Richard Leung Sai Ho, Ivan

Position

Authorised results for

General Manager Supervisor

Inorganics Microbiology

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

Page Numb : 2 of 3
Client : LAM GEOTECHNICS LIMITED
Work Order : HK1000464



Analytical Results								
Sub-Matrix: SEDIMENT	Clion		ent sample ID	S5-4 GRAB		· · · · · · · · · · · · · · · · · · ·		
			ng date / time	[24-NOV-2009] HK1000464-001				
	CAS Number	LOR	Unit	(11/1000404-00)	1			i
EA/ED: Physical and Aggregate Properties								
EA055: Moisture Content (dried @ 103°C	)	0.1	%	61.8			:	
ED/EK: Inorganic Nonmetallic Parameters								
EK067A: Total Phosphorus as P		20	mg/kg	1080	· · · · · · · · · · · · · · · · · · ·			:
EK082: Acid Volatile Sulphides (as S)		10	mg/kg	559	!			
EK085S: Sulphide as S2-	18496-25-8	1	mg/kg	<1			•	
EM: Microbiological Testing								
EM102: Escherichia coli		3	MPN/g	<3	1			· · · · · · · · · · · · · · · · · · ·

: 3 of 3

Client

: LAM GEOTECHNICS LIMITED

Work Örder

HK1000464



#### Laboratory Duplicate (DUP) Report

Matrix: SOIL						Laboratory Duplicate (DUP)	Report	
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical	and Aggregate Prop	erties (QC Lot: 1215680)				· · · · · · · · · · · · · · · · · · ·	<u>-</u>	·
HK1000461-001	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	54.5	55.0	0.9
HK1000472-001	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	61.3	60.7	1.0
ED/EK: Inorganio	Nonmetallic Param	eters (QC Lot: 1217625)					ı	
HK1000464-001	S5-4 GRAB	EK082: Acid Volatile Sulphides (as S)		10	mg/kg	559	496	11.9
ED/EK: Inorganic	Nonmetallic Param	eters (QC Lot: 1224738)	·					
HK1001124-001	Anonymous	EK067A: Total Phosphorus as P		20	mg/kg	622	538	14.4

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

Matrix: SOIL			Method Blank (Mi	B) Report	Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report									
	İ				Spike	Spike Red	overy (%)	Recovery	Limits (%)	R	PD (%)			
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	DCS	Low	High	Value	Control Limit			
ED/EK: Inorganic Nonmetallic Para	meters (QC Lot: 12	217625)												
EK082: Acid Volatile Sulphides (as S)		1	mg/kg	<1	5 mg/kg	94.3		85	115					
ED/EK: Inorganic Nonmetallic Para	meters (QC Lot: 12	221502)									'			
EK085S: Sulphide as S2-	18496-25-8	1	mg/kg	<1	·				*,					
ED/EK: Inorganic Nonmetallic Para	meters (QC Lot: 12	224738)	· · · · · · · · · · · · · · · · · · ·											
EK067A: Total Phosphorus as P		20	mg/kg	<20	775 mg/kg	97.2		85	115					

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

# 'ALS Technichem (HK) Pty Ltd

#### ALS Laboratory Group

**ANALYTICAL CHEMISTRY & TESTING SERVICES** 



: 1 of 3

#### CERTIFICATE OF ANALYSIS

Client : LAM GEOTECHNICS LIMITED Laboratory : ALS Technichem HK Pty Ltd Page

Contact : MR C M YEE Contact : Chan Kwok Fai, Godfrey Work Order : HK1000469

Address : 11/F., CENTRE POINT, Address : 11/F., Chung Shun Knitting Centre.

181-185 GLOUCESTER ROAD, 1 - 3 Wing Yip Street,

WANCHAI, HONG KONG Kwai Chung, N.T., Hong Kong

Telephone : +852 2839 5633 Telephone : +852 2610 1044
Facsimile : ---- Facsimile : +852 2610 2021

Project : LG29024 Quote number : HK/1797/2009\*\* Date Samples Received : 31-DEC-2009

Order number : CV/2009/13 | Issue Date : 23-JAN-2010 |
C-O-C number : H006238 | No. of samples received : 1

C-O-C number : H006238

Site : D25-3

No. of samples received : 1

No. of samples analysed : 1

#### General Comments

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Project Name: Kwai Tsing Container Basin - Marine Ground Investigation.

Sample(s) were received in an ambient condition.

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

Sample(s) were arrived in the laboratory at 16:00. Sample(s), in plastic bags, were received in an ambient condition. Testing period: 08/01/2010 (11:00) - 17/01/2010.

Leung Sai Ho, Ivan

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Supervisor

Signatories Position Authorised results for 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 Tet +852 2610 1044 Fax: +852 2610 2021 www.alsenviro.com

A Campbell Brothers Limited Company

Microbiology

Page Number : 2 of 3
Client : LAM GEOTECHNICS LIMITED
Work Order HK1000469



Analytical Results								
Sub-Matrix: SEDIMENT		Cliei	nt sample ID	D25-3	1	i		
				GRAB	;			·
	Clien	t samplin	g date / time	[31-DEC-2009]		:	•	
Compound	CAS Number	LOR	Unit	HK1000469-001				
EA/ED: Physical and Aggregate Properties	l					•		
EA055: Moisture Content (dried @ 103°C	)	0.1	%	53.5	···, ···· · · · · · · · · · · · · · · ·			
ED/EK: Inorganic Nonmetallic Parameters								· · · · · · · · · · · · · · · · · · ·
EK067A: Total Phosphorus as P		20	mg/kg	243				
EK082: Acid Volatile Sulphides (as S)		10	mg/kg	66				
EK085S: Sulphide as S2-	18496-25-8	1	mg/kg	<1		:	•	
EM: Microbiological Testing								· · · · · · · · · · · · · · · · · · ·
EM102: Escherichia coli		3	MPN/g	9.2	1	:		

: 3 of 3

Client

: LAM GEOTECHNICS LIMITED

Work Order

HK1000469



#### Laboratory Duplicate (DUP) Report

Matrix: SOIL					Laboratory Duplicate (DUP) Report				
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	
EA/ED: Physical a	nd Aggregate Prope	erties (QC Lot: 1215680)							
HK1000461-001	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	54.5	55.0	0.9	
HK1000472-001	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	61.3	60.7	1.0	
ED/EK: Inorganic	Nonmetallic Parame	eters (QC Lot: 1217625)							
HK1000464-001	Anonymous	EK082: Acid Volatile Sulphides (as S)		10	mg/kg	559	496	11.9	
ED/EK: Inorganic	Nonmetallic Parame	eters (QC Lot: 1224085)							
HK1000482-001	Anonymous	EK067A: Total Phosphorus as P		20	mg/kg	200	227	12.8	

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

Matrix: SOIL		Method Blank (MB) Report		Labo	Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report							
					Spike	Spike Recovery (%)		Recovery Limits (%)		RPD (%)		
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	DCS	Low	High	Value	Control Limi	
ED/EK: Inorganic Nonmetallic Para	ameters (QC Lot: 12	217625)									· · · · · · · · · · · · · · · · · · ·	
EK082: Acid Volatile Sulphides (as S)		1 1	mg/kg	<1	5 mg/kg	94.3		85	115			
ED/EK: Inorganic Nonmetallic Para	meters (QC Lot: 12	221502)										
EK085S: Sulphide as S2-	18496-25-8	1	mg/kg	<1			······································		· · · · · · · · · · · · · · · · · ·			
ED/EK: Inorganic Nonmetallic Para	meters (QC Lot: 12	224085)										
EK067A: Total Phosphorus as P	[	20	mg/kg	<20	695 mg/kg	85.6	·	85	115		1	

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

#### **ALS Laboratory Group**

ANALYTICAL CHEMISTRY & TESTING SERVICES



#### CERTIFICATE OF ANALYSIS

Client : LAM GEOTECHNICS LIMITED

Laboratory Contact

: ALS Technichem HK Pty Ltd : Chan Kwok Fai, Godfrey

Page

: 1 of 2

Contact : MR C M YEE

Address

E-mail

Facsimile

Proiect

Site

: 11/F., CENTRE POINT,

Address

E-mail

: 11/F., Chung Shun Knitting Centre, 1 - 3 Wing

Work Order Amendment HK1003158

: 1

181-185 GLOUCESTER ROAD, WAN CHAI, HONG KONG

: Samuel@Lamconstruct.com.hk

Kwai Chung, N.T., Hong Kong

: Godfrey.Chan@alsenviro.com

Yip Street,

Telephone : +852 2839 5633 Telephone

: +852 2610 1044

Facsimile

: +852 2610 2021 : HK/1797/2009\*\*

**Date Samples Received** 

: 31-DEC-2009

: CV/2009/13

: D25-3

Quote number

Issue Date

: 10-MAY-2010

Order number C-O-C number

: H006238

: LG29024

No. of samples received : 1

No. of samples analysed : 1

#### General Comments

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for processing purposes. If the sampling time is displayed as 0:00 the information was not provided by client. The completion date of analysis is: 11-FEB-2010

Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society. Specific comments for Work Order: HK1003158

Project Name: Kwai Tsing Container Basin - Marine Ground Investigation.

Sample(s) were received in an ambient condition.

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

Sample(s) were arrived in the laboratory at 16:00. Sample(s), in plastic bag, were received in an ambient condition. Testing period: 11/02/2010 (17:00) - 14/02/2010.

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Signatories Position Authorised results for Leung Sai Ho, Ivan Supervisor Microbiology

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

Page Number : 2 of 2

Client : LAM GEOTECHNICS LIMITED
Work Order HK1003158, Amendment 1



Analytical Results

Sub-Matrix: SEDIMENT	Clien	t sample ID	D25-3		
	Client sampling	date / time	[31-DEC-2009]		
Compound	CAS Number LOR	Unit	HK1003158-001		
EM: Microbiological Testing					
EM102: Escherichia coli	3	MPN/g	<3		

#### ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



#### CERTIFICATE OF ANALYSIS

Client : LAM GEOTECHNICS LIMITED Contact

: MR C M YEE

Laboratory Contact

: ALS Technichem HK Ptv Ltd : Chan Kwok Fai, Godfrev

Page Work Order : 1 of 3

: 11/F., CENTRE POINT,

Address

: 11/F., Chung Shun Knitting Centre.

1 - 3 Wing Yip Street.

Kwai Chung, N.T., Hong Kong

E-mail Telephone Facsimile

Project

Site

Address

: Samuel@Lamconstruct.com.hk

181-185 GLOUCESTER ROAD.

WANCHAL HONG KONG

E-mail

: Godfrey.Chan@alsenviro.com

: +852 2839 5633

Telephone Facsimile

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Date Samples Received

: 03-DEC-2009 : 23-JAN-2010

HK1000467

Order number

: LG29024 : CV/2009/13

C-O-C number

: H006238

: D25-4

Quote number

: HK/1797/2009\*\*

Issue Date No. of samples received

: 1

No. of samples analysed : 1

#### General Comments

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for processing purposes. If the sampling time is displayed as 0:00 the information was not provided by client. The completion date of analysis is: 20-JAN-2010 Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society. Specific comments for Work Order: HK1000467

Project Name: Kwai Tsing Container Basin - Marine Ground Investigation.

Sample(s) were received in an ambient condition.

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

Sample(s) were arrived in the laboratory at 18:15. Sample(s), in plastic bags, were received in an ambient condition. Testing period: 08/01/2010 (11:00) - 10/01/2010.

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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 Fung Lim Chee, Richard Leung Sai Ho, Ivan

Position General Manager Supervisor

Authorised results for Inorganics

Microbiology

ALS Laboratoru Group Trading Name: ALS Technichem (HK) Ptu Ltd

11/F., Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, N.T., Hong Kong Tet +852 2610 1044 Fax: +852 2610 2021 www.alsenviro.com

Page Number : 2 of 3
Client : LAM GEOTECHNICS LIMITED

Work Order HK1000467



Analytical Results												
Sub-Matrix: SEDIMENT		Clier	nt sample ID	)	D25-4	· ·						
				5	GRAB	<u>;</u>	1		:			
	Clien	t sampling	g date / time		[03-DEC-2009]					*		
Compound	CAS Number	LOR	Unit	1	HK1000467-001	1			÷ •			
EA/ED: Physical and Aggregate Properties	5			-		•						
EA055: Moisture Content (dried @ 103°C		0.1	%		54.8	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·					
ED/EK: Inorganic Nonmetallic Parameters							- "		•			
EK067A: Total Phosphorus as P	·	20	mg/kg	1	500	F	100			**		**
EK082: Acid Volatile Sulphides (as S)		10	mg/kg		600	1					\$ •	
EK085S: Sulphide as S2-	18496-25-8	1	mg/kg		<1				;			
EM: Microbiological Testing			_					- ' '				
EM102: Escherichia coli		3	MPN/g	:	<3	<del>y</del>						

: 3 of 3

Client

: LAM GEOTECHNICS LIMITED

Work Order

HK1000467



### Laboratory Duplicate (DUP) Report

Matrix: SOIL	my state of the second		; ;		Labo	ratory Duplicate (DUP)	Report	
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical a	nd Aggregate Prope	rties (QC Lot: 1215680)		-		· · · · · · · · · · · · · · · · · · ·		11.7
HK1000461-001	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	54.5	55.0	0.9
HK1000472-001	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	61.3	60.7	1.0
ED/EK: Inorganic	Nonmetallic Parame	ters (QC Lot: 1217625)	•					
HK1000464-001	Anonymous	EK082: Acid Volatile Sulphides (as S)	:	10	mg/kg	559	496	11.9
ED/EK: Inorganic I	Nonmetallic Parame	ters (QC Lot: 1224085)				000	400	11.5
HK1000482-001	Anonymous	EK067A: Total Phosphorus as P	i	20	mg/kg	200	227	12.8

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

Matrix: SOIL	1		Method Blank (	MB) Report	Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report							
					Spike		covery (%)	The second second	Limits (%)		RPD (%)	
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	DCS	Low	High	Value	Control Limit	
ED/EK: Inorganic Nonmetallic Para	meters (QC Lot: 12	217625)			•		· · · · · · · · · · · · · · · · · · ·					
EK082: Acid Volatile Sulphides (as S)	{	1	mg/kg	<1	5 mg/kg	94.3		85	115			
ED/EK: Inorganic Nonmetallic Para	meters (QC Lot: 12	21502)	- '	•	<del></del>		4	•				
EK085S: Sulphide as S2-	18496-25-8	1	mg/kg	<1							<u></u>	
ED/EK: Inorganic Nonmetallic Para	meters (QC Lot: 12	24085)										
EK067A: Total Phosphorus as P		20	mg/kg	<20	695 mg/kg	85.6		85	115			

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

#### ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



#### CERTIFICATE OF ANALYSIS

Client : LAM GEOTECHNICS LIMITED

: MR C M YEE

: 11/F., CENTRE POINT.

181-185 GLOUCESTER ROAD.

WANCHAI, HONG KONG

E-mail : Samuel@Lamconstruct.com.hk Telephone : +852 2839 5633

Facsimile

Contact

Address

Project : LG29024 Order number : CV/2009/13

C-O-C number : H006238

Site : D26-1

Laboratory : ALS Technichem HK Pty Ltd Contact : Chan Kwok Fai. Godfrev

: 11/F., Chung Shun Knitting Centre,

1 - 3 Wing Yip Street.

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: Godfrey.Chan@alsenviro.com Telephone : +852 2610 1044

Address

E-mail

Quote number

Facsimile : +852 2610 2021

: HK/1797/2009\*\*

Date Samples Received

Page

Work Order

Issue Date : 23-JAN-2010

: 1 of 3

: HK1000478

: 30-DEC-2009

No. of samples received : 2 No. of samples analysed : 2

#### General Comments

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for processing purposes. If the sampling time is displayed as 0:00 the information was not provided by client. The completion date of analysis is: 20-JAN-2010 Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society. Specific comments for Work Order: HK1000478

Project Name: Kwai Tsing Container Basin - Marine Ground Investigation.

Sample(s) were received in an ambient condition.

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

Sample(s) were arrived in the laboratory at 16:50. Sample(s), in vibrocores, were received in an ambient condition. Testing period: 08/01/2010 (11:00) - 10/01/2010.

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Signatories Fung Lim Chee, Richard Leung Sai Ho, Ivan

Position General Manager Supervisor

Authorised results for Inorganics Microbiology

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

Page Number : '2 of 3

1. ~

Client : LAM GEOTECHNICS LIMITED

Work Order HK1000478



						•				(-, -, -,
Analytical Results								· · · · · · · · · · · · · · · · · · ·		 
Sub-Matrix: SEDIMENT		Clier	nt sample ID 🧍	D26-1		D26-1		 		 
				0-0.9M		0.9-1.9M	÷	1		
	Clien	t sampling	g date / time	[30-DEC-2009]		[30-DEC-2009]		1		** * * * * * *
Compound	CAS Number	LOR	Unit	HK1000478-001		HK1000478-002				
EA/ED: Physical and Aggregate Properties						<del></del>		 		 
EA055: Moisture Content (dried @ 103°C)	) ———	0.1	%	35.6		41.9	1	 		
ED/EK: Inorganic Nonmetallic Parameters										
EK067A: Total Phosphorus as P		20	mg/kg	936	- !	1090		 · · · · · · · · · · · · · · · · · · ·		 
EK082: Acid Volatile Sulphides (as S)		10	mg/kg	<10		<10		 	•	
EK085S: Sulphide as S2-	18496-25-8	1	mg/kg	<1	Ť.	<1				•
EM: Microbiological Testing								 •	*	 
EM102: Escherichia coli		3	MPN/g	<3	747	<3		٠		

: 3 of 3

Client .

Work Order

HK1000478



### Laboratory Duplicate (DUP) Report

Matrix: SOIL					Lab	oratory Duplicate (DUP)	Report	- , men ver a green en
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical a	and Aggregate Prop	erties (QC Lot: 1215680)						
HK1000461-001	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	54.5	55.0	0.9
HK1000472-001	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	61.3	60.7	1.0
ED/EK: Inorganic	Nonmetallic Param	eters (QC Lot: 1217625)						
HK1000464-001	Anonymous	EK082: Acid Volatile Sulphides (as S)		10	mg/kg	559	496	11.9
ED/EK: Inorganic	Nonmetallic Param	eters (QC Lot: 1224085)						
HK1000482-001	Anonymous	EK067A: Total Phosphorus as P		20	mg/kg	200	227	12.8

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

Matrix: SOIL			Method Blank (ME	3) Report	Labo	Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report								
					Spike	Spike Red	overy (%)	Recovery Limits (%)		RPD (%)				
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	DCS	Low	High	Value	Control Limit			
ED/EK: Inorganic Nonmetallic Para	meters (QC Lot: 12	17625)				_								
EK082: Acid Volatile Sulphides (as S)		1	mg/kg	<1	5 mg/kg	94.3		85	115					
ED/EK: Inorganic Nonmetallic Para	meters (QC Lot: 12	21502)	<del></del>											
EK085S: Sulphide as S2-	18496-25-8	1	mg/kg	<1		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·							
ED/EK: Inorganic Nonmetallic Para	meters (QC Lot: 12	24085)												
EK067A: Total Phosphorus as P		20	mg/kg	<20	695 mg/kg	85.6	· · · · · · · · · · · · · · · · · · ·	85	115					

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

#### ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



#### **CERTIFICATE OF ANALYSIS**

Client Contact

: LAM GEOTECHNICS LIMITED

: MR C M YEE

Address : 11/F., CENTRE POINT,

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E-mail Telephone

: Samuel@Lamconstruct.com.hk

Facsimile

Project

: +852 2839 5633

: LG29024

Order number : CV/2009/13

C-O-C number Site

: H006238 : D26-2

Laboratory Contact

Address

E-mail

Quote number

: ALS Technichem HK Pty Ltd

: Chan Kwok Fai, Godfrey

: 11/F., Chung Shun Knitting Centre,

1 - 3 Wing Yip Street,

Kwai Chung, N.T., Hong Kong : Godfrey.Chan@alsenviro.com

Telephone : +852 2610 1044

Facsimile : +852 2610 2021

: HK/1797/2009\*\*

Date Samples Received

Page

Work Order

Issue Date

ved : 03-DEC-2009 : 23-JAN-2010

: 1 of 3

HK1000466

No. of samples received : 1
No. of samples analysed : 1

#### General Comments

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for processing purposes. If the sampling time is displayed as 0:00 the information was not provided by client. The completion date of analysis is: 20-JAN-2010 Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society. Specific comments for Work Order: HK1000466

Project Name: Kwai Tsing Container Basin - Marine Ground Investigation.

Sample(s) were received in an ambient condition.

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

Sample(s) were arrived in the laboratory at 18:15. Sample(s), in plastic bags, were received in an ambient condition. Testing period: 08/01/2010 (11:00) - 10/01/2010.

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Signatories
Fung Lim Chee, Richard
Leung Sai Ho, Ivan

Position
General Manager
Supervisor

Authorised results for Inorganics

Microbiology

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

W .

Page Number : 2 of 3
Client : LAM GEOTECHNICS LIMITED

Work Order

HK1000466



												(· · · – – /
<u></u> .::												
	Clien	nt sample ID	) }	D26-2	······································			*** - **				
				GRAB	} -		f		•			
Clien	t sampling	g date / time	)	[03-DEC-2009]			4.5 4.		•			
CAS Number	LOR	Unit		HK1000466-001	;				:			
									•			
	0.1	%		53.4	 į				•		-	
	20	mg/kg	:	472	1					• •		
	10	mg/kg	:	437					1	*		
18496-25-8	1	mg/kg		<1	1							
	3	MPN/g		<3								
	2AS Number	Client sempling CAS Number LOR  0.1  20  10 18496-25-8 1	Client sampling date / time  CAS Number LOR Unit  0.1 %  20 mg/kg 10 mg/kg 18496-25-8 1 mg/kg  3 MPN/g	0.1 %  20 mg/kg 10 mg/kg 18496-25-8 1 mg/kg  3 MPN/g	GRAB   [03-DEC-2009]	GRAB   [03-DEC-2009]	GRAB  Client sampling date / time [03-DEC-2009]  CAS Number LOR Unit HK1000466-001  0.1 % 53.4  20 mg/kg 472  10 mg/kg 437  18496-25-8 1 mg/kg <1  3 MPN/g <3	GRAB  Client sampling date / time [03-DEC-2009]  CAS Number LOR Unit HK1000466-001  0.1 % 53.4  20 mg/kg 472 10 mg/kg 437 18496-25-8 1 mg/kg <1  3 MPN/g <3	GRAB  Client sampling date / time [03-DEC-2009]  CAS Number LOR Unit HK1000466-001  0.1 % 53.4  20 mg/kg 472 10 mg/kg 437 18496-25-8 1 mg/kg <1  3 MPN/g <3	GRAB  Client sampling date / time [03-DEC-2009]  CAS Number LOR Unit HK1000466-001  0.1 % 53.4  20 mg/kg 472  10 mg/kg 437  18496-25-8 1 mg/kg <1  3 MPN/g <3	GRAB  Client sampling date / time [03-DEC-2009]  CAS Number LOR Unit HK1000466-001  0.1 % 53.4  20 mg/kg 472  10 mg/kg 437  18496-25-8 1 mg/kg <1  3 MPN/g <3	GRAB  Client sampling date / time [03-DEC-2009]  CAS Number LOR Unit HK1000466-001  0.1 % 53.4  20 mg/kg 472  10 mg/kg 437  18496-25-8 1 mg/kg <1  3 MPN/g <3

: 3 of 3

Client

LAM GEOTECHNICS LIMITED

Work Order

HK1000466



### Laboratory Duplicate (DUP) Report

Matrix: SOIL					Lab	oratory Duplicate (DUP)	Report	
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical a	and Aggregate Prope	rties (QC Lot: 1215680)	, , , , , , , , , , , , , , , , , , , ,	•				
HK1000461-001	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	54.5	55.0	0.9
HK1000472-001	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	61.3	60.7	1.0
D/EK: Inorganic	Nonmetallic Parame	ters (QC Lot: 1217625)						
HK1000464-001	Anonymous	EK082: Acid Volatile Sulphides (as S)		10	mg/kg	559	496	11.9
ED/EK: Inorganic	Nonmetallic Parame	ters (QC Lot: 1224085)			• •			
HK1000482-001	Anonymous	EK067A: Total Phosphorus as P	i	20	mg/kg	200	227	12.8

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

Matrix: SOIL	l l		Method Blank (MB	) Report	Labo	ratory Control Spi	ike (LCS) and La	boratory Contro	ol Spike Duplic	ate (DCS) Re	eport
					Spike	Spike Rec	overy (%)	Recovery Limits (%)		RPD (%)	
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	DCS	Low	High	Value	Control Limit
ED/EK: Inorganic Nonmetallic Para	ameters (QC Lot: 12	17625)	_	· <u>-</u> ,	, <del></del> ,			•			
EK082: Acid Volatile Sulphides (as S)		1	mg/kg	<1	5 mg/kg	94.3		85	115		
ED/EK: Inorganic Nonmetallic Para	ameters (QC Lot: 12	21502)									
EK085S: Sulphide as S2-	18496-25-8	1	mg/kg	<1							
ED/EK: Inorganic Nonmetallic Para	ameters (QC Lot: 12	24085)									
EK067A: Total Phosphorus as P		20	mg/kg	<20	695 mg/kg	85.6		85	115		

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

#### ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



#### CERTIFICATE OF ANALYSIS

Client Contact

: LAM GEOTECHNICS LIMITED

: MR C M YEE

: 11/F., CENTRE POINT.

181-185 GLOUCESTER ROAD,

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E-mail Telephone

**Facsimile** 

Address

Project : LG29024

Order number : CV/2009/13

C-O-C number : H006238 Site

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: +852 2839 5633

: D39-1

Laboratory : ALS Technichem HK Ptv Ltd Contact : Chan Kwok Fai. Godfrev

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E-mail : Godfrey.Chan@alsenviro.com Telephone : +852 2610 1044

Facsimile : +852 2610 2021

Address

Quote number : HK/1797/2009\*\* **Date Samples Received** : 03-DEC-2009

Issue Date : 23-JAN-2010

: 1 of 3

HK1000463

No. of samples received : 1 No. of samples analysed : 1

Page

Work Order

#### General Comments

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for processing purposes. If the sampling time is displayed as 0:00 the information was not provided by client. The completion date of analysis is: 20-JAN-2010 Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society. Specific comments for Work Order: HK1000463

Project Name: Kwai Tsing Container Basin - Marine Ground Investigation.

Sample(s) were received in an ambient condition.

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

Sample(s) were arrived in the laboratory at 18:15. Sample(s), in plastic bags, were received in an ambient condition. Testing period: 08/01/2010 (11:00) - 10/01/2010.

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Signatories Fung Lim Chee, Richard Leung Sai Ho, Ivan⊲

Position

Authorised results for

General Manager Supervisor

Inorganics Microbiology

ALS Laboratoru 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

Page Number : 2 of 3
Client : LAM GEOTECHNICS LIMITED
Work Order HK1000463



Analytical Results				, <u></u>						
Sub-Matrix: SEDIMENT		Clie	nt sample ID	. [	039-1	!				The second secon
	Clien	t samplin	ng date / time		SRAB DEC-2009]		•			
Compound	CAS Number	LOR	Unit	HK10	00463-001	1	-		•	
EA/ED: Physical and Aggregate Properties	}								<del></del>	
EA055: Moisture Content (dried @ 103°C	)	0.1	%		59.0		7.73		•	
ED/EK: Inorganic Nonmetallic Parameters			.,					A CALL		
EK067A: Total Phosphorus as P		20	mg/kg		510			* +		
EK082: Acid Volatile Sulphides (as S)		10	mg/kg		675		***			
EK085S: Sulphide as S2-	18496-25-8	11	mg/kg		<1		•			
EM: Microbiological Testing										
EM102: Escherichia coli		3	MPN/g	· · · · · · · · · · · · · · · · · · ·	<3		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		
* *************************************							the state of the s			

: 3 of 3

Client

: LAM GEOTECHNICS LIMITED

Work Order

HK1000463



#### Laboratory Duplicate (DUP) Report

Matrix: SOIL					Lat	oratory 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 Prope	erties (QC Lot: 1215680)	<del>-</del>					
HK1000461-001	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	54.5	55.0	0.9
HK1000472-001	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	61.3	60.7	1.0
ED/EK: Inorganic	Nonmetallic Parame	eters (QC Lot: 1217625)						
HK1000464-001	Anonymous	EK082: Acid Volatile Sulphides (as S)		10	mg/kg	559	496	11.9
ED/EK: Inorganic	Nonmetallic Parame	eters (QC Lot: 1224085)			• •			
HK1000482-001	Anonymous	EK067A: Total Phosphorus as P		20	mg/kg	200	227	12.8

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

Matrix: SOIL			Method Blank (MB	) Report	Labo	ratory Control Sp	ike (LCS) and La	boratory Contro	ol Spike Duplic	ate (DCS) Re	port:
					Spike	Spike Red	covery (%)	Recovery	Limits (%)	R	PD (%)
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	DCS	Low	High	Value	Control Limi
ED/EK: Inorganic Nonmetallic Para	meters (QC Lot: 12	17625)			· · · · · ·						
EK082: Acid Volatile Sulphides (as S)		1	mg/kg	<1	5 mg/kg	94.3	· · ·	85	115		
ED/EK: Inorganic Nonmetallic Para	meters (QC Lot: 12	21502)		···································							
EK085S: Sulphide as S2-	18496-25-8	1	mg/kg	<1							
ED/EK: Inorganic Nonmetallic Para	meters (QC Lot: 12	24085)									
EK067A: Total Phosphorus as P		20	mg/kg	<20	695 mg/kg	85.6		85	115		

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

#### ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



#### CERTIFICATE OF ANALYSIS

Client : LAM GEOTECHNICS LIMITED Laboratory : ALS Technichem HK Ptv Ltd

Page : 1 of 3 Contact : MR C M YEE Contact : Chan Kwok Fai, Godfrey Work Order

: HK1000461 Address

: 11/F., CENTRE POINT, Address : 11/F., Chung Shun Knitting Centre. 181-185 GLOUCESTER ROAD. 1 - 3 Wing Yip Street,

WANCHAI, HONG KONG Kwai Chung, N.T., Hong Kong

E-mail : Samuel@Lamconstruct.com.hk E-mail : Godfrey.Chan@alsenviro.com

Telephone : +852 2839 5633 Telephone : +852 2610 1044

Facsimile Facsimile : +852 2610 2021

Project Quote number : LG29024 : HK/1797/2009\*\* Date Samples Received : 03-DEC-2009 Order number : CV/2009/13 Issue Date : 23-JAN-2010

C-O-C number : H006238 No. of samples received : 1

Site : D39-2 No. of samples analysed : 1

#### General Comments

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for processing purposes. If the sampling time is displayed as 0:00 the information was not provided by client. The completion date of analysis is: 20-JAN-2010 Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society. Specific comments for Work Order: HK1000461

Project Name: Kwai Tsing Container Basin - Marine Ground Investigation.

Sample(s) were received in an ambient condition.

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

Sample(s) were arrived in the laboratory at 18:15. Sample(s), in plastic bags, were received in an ambient condition. Testing period: 08/01/2010 (11:00) - 10/01/2010.

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Signatories Position Authorised results for Fung Lim Chee, Richard General Manager Inorganics Leung Sai Ho, Ivan ∼ Supervisor

ALS Laboratory Group Trading Name: ALS Technichem (HK) Ptu Ltd

1 VF., Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, N.T., Hong Kong Tet +852 2610 1044 Fax: +852 2610 2021 www.alsenviro.com

A Campbell Brothers Limited Company

Microbiology



And C ID II			_				-		<del></del>			<u> </u>	
Analytical Results Sub-Matrix: SEDIMENT			nt sample ID		D39-2 GRAB					e e e			
	Clien	t samplin	g date / time	<del>)</del> .:	[03-DEC-2009]		:			;			
Compound	CAS Number	LOR	Unit	÷	HK1000461-001	<u> </u>	i					İ	
EA/ED: Physical and Aggregate Properties	<b>S</b>				<del></del> -				···				
EA055: Moisture Content (dried @ 103°C	;)	0.1	%		54.5	·		•		100			
ED/EK: Inorganic Nonmetallic Parameters						1							
EK067A: Total Phosphorus as P		20	mg/kg		516	1					-		
EK082: Acid Volatile Sulphides (as S)		10	mg/kg		378			•		•			
EK085S: Sulphide as S2-	18496-25-8	1	mg/kg		<1	Ì	;						
EM: Microbiological Testing													
EM102: Escherichia coli		3	MPN/g		<3	1			-				

Page Number : 3 of 3

Client

: LAM GEOTECHNICS LIMITED

Work Order

HK1000461



### Laboratory Duplicate (DUP) Report

Matrix: SOIL			i		Lab	oratory Duplicate (DUP)	Report	
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical a	ınd Aggregate Properti	es (QC Lot: 1215680)	<u>-</u>					
HK1000461-001	D39-2 GRAB	EA055: Moisture Content (dried @ 103°C)		0.1	%	54.5	55.0	0.9
HK1000472-001	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	61.3	60.7	1.0
ED/EK: Inorganic	<b>Nonmetallic Paramete</b>	rs (QC Lot: 1217625)						
HK1000464-001	Anonymous	EK082: Acid Volatile Sulphides (as S)		10	mg/kg	559	496	11.9
ED/EK: Inorganic	Nonmetallic Paramete	rs (QC Lot: 1224085)						
HK1000482-001	Anonymous	EK067A: Total Phosphorus as P		20	mg/kg	200	227	12.8

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

Matrix: SOIL	1		Method Blank (MB)	Report	Labo	ratory Control Sp	ike (LCS) and Lal	oratory Contro	ol Spike Duplic	ıplicate (DCS) Report		
					Spike	Spike Red	covery (%)	Recovery	Limits (%)	R	PD (%)	
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	DCS	Low	High	Value	Control Limit	
ED/EK: Inorganic Nonmetallic Para	ameters (QC Lot: 12	217625)					-				· · · · · · · · · · · · · · · · · · ·	
EK082: Acid Volatile Sulphides (as S)		1	mg/kg	<1	5 mg/kg	94.3		85	115			
ED/EK: Inorganic Nonmetallic Para	ameters (QC Lot: 12	221502)			- mf			** * * *				
EK085S: Sulphide as S2-	18496-25-8	1	mg/kg	<1			·			-		
ED/EK: Inorganic Nonmetallic Para	meters (QC Lot: 12	224085)										
EK067A: Total Phosphorus as P		20	mg/kg	<20	695 mg/kg	85.6		85	115			

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

#### ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



#### CERTIFICATE OF ANALYSIS

Client : LAM GEOTECHNICS LIMITED

: MR C M YEE

: 11/F., CENTRE POINT,

181-185 GLOUCESTER ROAD,

WANCHAL HONG KONG

E-mail : Samuel@Lamconstruct.com.hk Telephone : +852 2839 5633

Facsimile : ----

Contact

Address

Project : LG29024

Order number : CV/2009/13

C-O-C number : H006238 Site

: D45-1

Laboratory : ALS Technichem HK Pty Ltd Contact

: HK/1797/2009\*\*

: Chan Kwok Fai, Godfrey

: 11/F., Chung Shun Knitting Centre,

1 - 3 Wing Yip Street,

Kwai Chung, N.T., Hong Kong

: Godfrey.Chan@alsenviro.com Telephone : +852 2610 1044

Address

E-mail

Quote number

Facsimile : +852 2610 2021

Date Samples Received

Issue Date

Page

Work Order

: 14-DEC-2009 : 23-JAN-2010

: 1 of 3

: HK1000457

No. of samples received : 1

No. of samples analysed : 1

#### General Comments

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for processing purposes. If the sampling time is displayed as 0:00 the information was not provided by client. The completion date of analysis is: 20-JAN-2010 Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society. Specific comments for Work Order: HK1000457

Project Name: Kwai Tsing Container Basin - Marine Ground Investigation.

Sample(s) were received in an ambient condition.

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

Sample(s) were arrived in the laboratory at 17:15. Sample(s), in plastic bags, were received in an ambient condition. Testing period: 08/01/2010 (11:00) - 10/01/2010.

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Signatories Fung Lim Chee, Richard Leung Sai Ho, IvanQ

Position

Authorised results for

General Manager Supervisor

Inorganics Microbiology

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

Page Number : 2 of 3
Client : LAM G

: LAM GEOTECHNICS LIMITED

Work Order

HK1000457



Analytical Results													
Sub-Matrix: SEDIMENT		Clie	nt sample ID	D4	15-1	1	 				 	 p	
				GF	RAB	1							
province and approximation of the contract of	Clien	it samplin	g date / time	[14-DE	C-2009]		 			1		1 1	
Compound	CAS Number	LOR	Unit	HK1000	0457-001	1	1			i			
EA/ED: Physical and Aggregate Properties	;					_	 					 	
EA055: Moisture Content (dried @ 103°C	)	0.1	%	5	8.0					•		1	
ED/EK: Inorganic Nonmetallic Parameters		•					 						
EK067A: Total Phosphorus as P		20	mg/kg		26		 		•				
EK082: Acid Volatile Sulphides (as S)		10	mg/kg	. 1	96		 	-				N	
EK085S: Sulphide as S2-	18496-25-8	1	mg/kg		<1	*	 ,						
EM: Microbiological Testing							 			'			
EM102: Escherichia coli		3	MPN/g		<b>-3</b>		 :						

Page Number : 3 of 3

Client

: LAM GEOTECHNICS LIMITED

Work Order

HK1000457



### Laboratory Duplicate (DUP) Report

Matrix: SOIL					Labo	ratory Duplicate (DUP)	Report	
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical a	nd Aggregate Properties	(QC Lot: 1215680)		•				· · · · · · · · · · · · · · · · · · ·
HK1000461-001	Anonymous	EA055: Moisture Content (dried @ 103°C)	;	0.1	. %	54.5	55.0	0.9
HK1000472-001	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	61.3	60.7	1.0
ED/EK: Inorganic	Nonmetallic Parameters	(QC Lot: 1216545)					'	
HK0927374-012	Anonymous	EK082: Acid Volatile Sulphides (as S)		5	mg/kg	8	7	0.0
ED/EK: Inorganic	Nonmetallic Parameters	(QC Lot: 1224085)			•			
HK1000482-001	·Anonymous	EK067A: Total Phosphorus as P		20	mg/kg	200	227	12.8

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

Matrix: SOIL	!		Method Blank (M	B) Report	Labor	ratory Control Sp	ike (LCS) and La	boratory Contro	l Spike Duplic	ate (DCS) Re	∍port
The state of the s					Spike	Spike Red	overy (%)	Recovery	Limits (%)	R	PD (%)
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	DCS	Low	High	Value	Control Limit
ED/EK: Inorganic Nonmetallic Para	meters (QC Lot: 12	16545)									<u> </u>
EK082: Acid Volatile Sulphides (as S)		1	mg/kg	<1	5 mg/kg	94.6		85	115		
ED/EK: Inorganic Nonmetallic Para	meters (QC Lot: 12	21502)							•		
EK085S: Sulphide as S2-	18496-25-8	1	mg/kg	· · · · · · <1							
ED/EK: Inorganic Nonmetallic Para	meters (QC Lot: 12	24085)				•					
EK067A: Total Phosphorus as P		20	mg/kg	<20	695 mg/kg	85.6		85	115		

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

#### ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



#### CERTIFICATE OF ANALYSIS

Client : LAM GEOTECHNICS LIMITED

: MR C M YEE

Laboratory Contact

Address

: ALS Technichem HK Pty Ltd : Chan Kwok Fai, Godfrey

Page

Work Order

: 1 of 3

Contact

: 11/F., CENTRE POINT, 181-185 GLOUCESTER ROAD.

: 11/F., Chung Shun Knitting Centre,

1 - 3 Wing Yip Street,

Kwai Chung, N.T., Hong Kong

E-mail Telephone

: Samuel@Lamconstruct.com.hk : +852 2839 5633

WANCHAI, HONG KONG

E-mail Telephone : Godfrey.Chan@alsenviro.com

: +852 2610 1044 : +852 2610 2021

Facsimile Project

Address

: LG29024

Order number : CV/2009/13

C-O-C number Site

: H006239 : D45-2

Facsimile Quote number

: HK/1797/2009\*\*

Date Samples Received

: 14-DEC-2009

· HK1000475

Issue Date

: 23-JAN-2010

No. of samples received : 1

No. of samples analysed : 1

#### General Comments

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for processing purposes. If the sampling time is displayed as 0:00 the information was not provided by client. The completion date of analysis is: 20-JAN-2010 Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society. Specific comments for Work Order: HK1000475

Project Name: Kwai Tsing Container Basin - Marine Ground Investigation.

Sample(s) were received in an ambient condition.

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

Sample(s) were arrived in the laboratory at 17:15. Sample(s), in plastic bags, were received in an ambient condition. Testing period: 08/01/2010 (11:00) - 10/01/2010.

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Signatories Fung Lim Chee, Richard Leung Sai Ho, Ivanay

Position Authorised results for General Manager Inorganics Supervisor Microbiology

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 Tet +852 2610 1044 Fax; +852 2610 2021 www.alsenviro.com

2 of 3

: LAM GEOTECHNICS LIMITED

Work Order

HK1000475



Analytical Decults							 	 		 	LS
Analytical Results											
Sub-Matrix: SEDIMENT		Clie	nt sample i	ID 🦠	D45-2		 . 4	 			
					GRAB	į.					i
The second deliceration of the second	Clien	t samplin	ng date / tin	ne	[14-DEC-2009]		* · · · · · · · · · · · · · · · · · · ·				!
	CAS Number	LOR	Unit		HK1000475-001	1		•			
EA/ED: Physical and Aggregate Properties		_				<del>-</del>	 <u> </u>	 		 <u>:</u>	
EA055: Moisture Content (dried @ 103°C	)	0.1		7	58.1		 			 	
ED/EK: Inorganic Nonmetallic Parameters	· · · · · · · · · · · · · · · · · · ·						 1	 		 1	
EK067A: Total Phosphorus as P		20	mg/kg		721		 			 	
EK082: Acid Volatile Sulphides (as S)	···· - · · · · · · · · · · · · · · · ·	10	ma/ka	9	791		 - 1	 		·	
EK085S: Sulphide as S2-	18496-25-8	1	mg/kg	 	<1	4	1	;			į
EM: Microbiological Testing				. 4			 J	 	•	 	
EM102: Escherichia coli	<del></del>	3	MPN/q		<3	· · · · · · · · · · · · · · · · · · ·	 			 grade to the same of the same	
	•			' ·		·				<u>.</u>	1

Page Number 7 : 3 of 3

Client -

: LAM GEOTECHNICS LIMITED

Work Order

HK1000475



#### Laboratory Duplicate (DUP) Report

Matrix: SOIL	A. A. A. A. A. A. A. A. A. A. A. A. A. A				Lab	oratory Duplicate (DUP)	Report	
Laboratory sample II	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical	and Aggregate Prope	erties (QC Lot: 1215680)					-	
HK1000461-001	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	54.5	55.0	0.9
HK1000472-001	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	61.3	60.7	1.0
ED/EK: Inorganie	Nonmetallic Parame	eters (QC Lot: 1217625)						
HK1000464-001	Anonymous	EK082: Acid Volatile Sulphides (as S)		10	mg/kg	559	496	11.9
ED/EK: Inorgani	Nonmetallic Parame	eters (QC Lot: 1224085)						
HK1000482-001	Anonymous	EK067A: Total Phosphorus as P		20	mg/kg	200	227	12.8

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

Matrix: SOIL			Method Blank (Mi	3) Report	Labor	ratory Control Spi	ke (LCS) and Lai	boratory Contro	l Spike Duplic	ate (DCS) Re	eport
					Spike	Spike Rec	overy (%)	Recovery	Limits (%)	R	PD (%)
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	DCS	Low	High	Value	Control Limit
ED/EK: Inorganic Nonmetallic Par	ameters (QC Lot: 12	217625)				<u>-</u>					
EK082: Acid Volatile Sulphides (as S)	[	1 ·	mg/kg	<1	5 mg/kg	94.3		85	115		
ED/EK: Inorganic Nonmetallic Par	ameters (QC Lot: 12	21502)									4
EK085S: Sulphide as S2-	18496-25-8	1	mg/kg	<1							
ED/EK: Inorganic Nonmetallic Par	ameters (QC Lot: 12	24085)			***************************************						
EK067A: Total Phosphorus as P		20	mg/kg	<20	695 mg/kg	85.6		85	115		

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

#### ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



#### CERTIFICATE OF ANALYSIS

Client : LAM GEOTECHNICS LIMITED Laboratory : ALS Technichem HK Pty Ltd Page : 1 of 3

Contact : MR C M YEE Contact : Chan Kwok Fai Godfrey Work Order

Contact : MR C M YEE Contact : Chan Kwok Fai, Godfrey Work Order : HK1000863

: 11/F., CENTRE POINT, Address : 11/F., Chung Shun Knitting Centre, 181-185 GLOUCESTER ROAD, 1 - 3 Wing Yip Street,

WANCHAI, HONG KONG Kwai Chung, N.T., Hong Kong

Telephone : +852 2839 5633 Telephone : +852 2610 1044
Facsimile : ---- Facsimile : +852 2610 2021

Project : LG29024 Quote number : HK/1797/2009\*\* Date Samples Received : 09-JAN-2010
Order number : CV/2009/13 Issue Date : 26-IAN-2010

C-O-C number : CV/2009/13 Issue Date : 26-JAN-2010

No. of samples received : 1

No. of samples received : 1

No. of samples analysed : 1

#### General Comments

: S23

Address

Site

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for processing purposes. If the sampling time is displayed as 0:00 the information was not provided by client. The completion date of analysis is: 22-JAN-2010 Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society. Specific comments for Work Order: HK1000863

Project Name: Kwai Tsing Container Basin - Marine Ground Investigation.

Sample(s) were received in an ambient condition.

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

Sample(s) were arrived in the laboratory at 15:00. Sample(s), in plastic bags, were received in an ambient condition. Testing period: 12/01/2010 (16:00) - 19/01/2010.

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Signatories
Fung Lim Chee, Richard
Leung Sai Ho, Ivan

PositionAuthorised results forGeneral ManagerInorganicsSupervisorMicrobiology

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

2 of 3

Client

: AM GEOTECHNICS LIMITED



Analytical Results		·					······································		
Sub-Matrix: SEDIMENT		Cli	ent samp	le ID	S23				
	Clien	t sampli	ing date /	time	[09-JAN-2010]				
Compound	CAS Number	LOR	Un	it	HK1000863-001				
EA/ED: Physical and Aggregate Properties							···	·	<del>'                                    </del>
EA055: Moisture Content (dried @ 103°C	)	0.1	%	)	44.2				
ED/EK: Inorganic Nonmetallic Parameters									
EK067A: Total Phosphorus as P	!	20	mg/	kg	616	<u> </u>	7	}	147
EK082: Acid Volatile Sulphides (as S)		10	mg/	kg	12			. [	i
EK085S: Sulphide as S2-	18496-25-8	1	mg/	kg 💮	<1				]
EM: Microbiological Testing	THE RESERVE OF THE PROPERTY OF						1		
EM102: Escherichia coli		3	MPN		<3			······································	

: 3 of 3

Client

:-LAM GEOTECHNICS LIMITED

Work Order 4

HK1000863



## Laboratory Duplicate (DUP) Report

Matrix: SOIL Laboratory sample II	Client comple (D			L	aboratory Duplicate (DUP	) Report	
Laboratory Sample II	Client sample ID	Method: Compound	CAS Number LOR	Unit	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical	and Aggregate Prope	erties (QC Lot: 1219923)					11. 2 (70)
HK1000744-001	Anonymous	EA055: Moisture Content (dried @ 103°C)	0.1	%	28.3	28.6	
HK1000816-001	Anonymous	EA055: Moisture Content (dried @ 103°C)	0.1	%	35.9	37.2	3.7
ED/EK: Inorgani	Nonmetallic Parame	eters (QC Lot: 1219505)	,		00.5	37.2	3.7
HK1000485-001	Anonymous	EK082: Acid Volatile Sulphides (as S)	10	ma/ka	<10	-10	
ED/EK: Inorgani	Nonmetallic Parame	eters (QC Lot: 1227029)	,	mgmg	10	<10	0.0
HK1000188-005	Anonymous	EK067A: Total Phosphorus as P		mg/kg	373	414	10.6

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

Matrix: SOIL			Method Blank (Mi	B) Report	Labo	ratory Control S	pike (LCS) and La	boratory Contr	pratory Control Spike Duplicate (DCS) Report			
			,		Spike		covery (%)		/ Limits (%)	RPD (%)		
ethod: Compound CAS Numb		LOR	Unit	Result	Concentration	LCS	DCS	Low	High	Value	Control Limit	
ED/EK: Inorganic Nonmetallic Para	meters (QC Lot: 12	219505)					<del> </del>				TOTAL OF LEMME	
EK082: Acid Volatile Sulphides (as S)		1	mg/kg	<1	5 mg/kg	88.0		85	115			
ED/EK: Inorganic Nonmetallic Para	meters (QC Lot: 12	21503)				·	-		<u>l</u>			
EK085S: Sulphide as S2-	18496-25-8	1	mg/kg	<1								
ED/EK: Inorganic Nonmetallic Para	meters (QC Lot: 12	27029)	····									
EK067A: Total Phosphorus as P		20	mg/kg	<20	695 ma/ka	89.0	·	Ω5	115			

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

#### ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



: 1 of 3

#### CERTIFICATE OF ANALYSIS

Client : LAM GEOTECHNICS LIMITED Laboratory : ALS Technichem HK Pty Ltd Contact

: MR C M YEE Contact : Chan Kwok Fai, Godfrev Work Order · HK1001124

: 11/F., CENTRE POINT. Address : 11/F., Chung Shun Knitting Centre.

181-185 GLOUCESTER ROAD. 1 - 3 Wing Yip Street, WANCHAI, HONG KONG Kwai Chung, N.T., Hong Kong

: Samuel@Lamconstruct.com.hk E-mail : Godfrey.Chan@alsenviro.com

Telephone : +852 2839 5633 Telephone : +852 2610 1044 Facsimile : ----Facsimile : +852 2610 2021

Project : LG29024 Quote number : HK/1797/2009\*\* **Date Samples Received** : 14-JAN-2010 Order number : CV/2009/13 Issue Date : 28-JAN-2010

C-O-C number : H012181 No. of samples received : 1 Site : S25

No. of samples analysed : 1

Page

#### General Comments

Address

F-mail

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Project Name: Kwai Tsing Container Basin - Marine Ground Investigation.

Sample(s) were received in an ambient condition.

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

Sample(s) were arrived in the laboratory at 15:00. Sample(s), in plastic bags, were received in an ambient condition. Testing period: 15/01/2010 (16:00) - 21/01/2010.

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Signatories Fung Lim Chee, Richard Leung Sai Ho, Ivan

Position Authorised results for General Manager Inorganics Supervisor Microbiology

ALS Laboratoru Group Trading Name: ALS Technichem (HK) Ptu 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

Page Number > 2 of 3

Client : LAM GEOTECHNICS LIMITED Work Order HK1001124



Analytical Results					
Sub-Matrix: SEDIMENT		Clie	nt sample ID 🛭	S25	
	Clien	t samplin	g date / time	[14-JAN-2010]	
Compound	CAS Number	LOR	Unit	HK1001124-001	
EA/ED: Physical and Aggregate Properties	3				
EA055: Moisture Content (dried @ 103°C	;)	0.1	%	48.0	NAME OF TAXABLE AND ADDRESS OF TAXABLE AND AD
ED/EK: Inorganic Nonmetallic Parameters					
EK067A: Total Phosphorus as P		20	mg/kg	622	
EK082: Acid Volatile Sulphides (as S)		10	mg/kg	160	
EK085S: Sulphide as S2-	18496-25-8	1	mg/kg	<1	
EM: Microbiological Testing		B.71.10-111-1			
EM102: Escherichia coli		3	MPN/g	3	

... 3 of 3

Client

: LAM GEOTECHNICS LIMITED

Work Order

HK1001124



### Laboratory Duplicate (DUP) Report

Matrix: SOIL			-			Lal	oratory Duplicate (DUP)	Report	A- MIAP - A
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR		Unit	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical a	and Aggregate Propertie	s (QC Lot: 1221064)						<u> </u>	
HK1001124-001	S25	EA055: Moisture Content (dried @ 103°C)		0.1	·	%	48.0	47.7	0.7
ED/EK: Inorganic	Nonmetallic Parameters	s (QC Lot: 1224738)						*	
HK1001124-001	S25	EK067A: Total Phosphorus as P		20	i	mg/kg	622	538	14.4
ED/EK: Inorganic	Nonmetallic Parameter	s (QC Lot: 1228584)						,	
HK1001415-001	Anonymous	EK082: Acid Volatile Sulphides (as S)		5		mg/kg	<5	<5	0.0

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

Matrix: SOIL			Method Blank	MB) Report	Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report								
					Spike	Spike Recovery (%)		Recovery	Limits (%)	RPD (%)			
Method: Compound	CAS Number	LOR Unit R		Result	Concentration	LCS DCS		Low	High	Value	Control Limit		
ED/EK: Inorganic Nonmetallic Para	meters (QC Lot: 12	221503)	. ,_	• · · · •				· -			<del> </del>		
EK085S: Sulphide as S2-	18496-25-8	1	mg/kg	, <1									
ED/EK: Inorganic Nonmetallic Para	meters (QC Lot: 12	224738)									·		
EK067A: Total Phosphorus as P		20	mg/kg	<20	775 mg/kg	97.2		85	115	·			
ED/EK: Inorganic Nonmetallic Para	meters (QC Lot: 12	228584)		!									
EK082: Acid Volatile Sulphides		1	mg/kg	<1	5 mg/kg	95.8		85	115				
(as S)							1		!		!		

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

#### **ALS Laboratory Group**

ANALYTICAL CHEMISTRY & TESTING SERVICES



#### **CERTIFICATE OF ANALYSIS**

Client : LAM GEOTECHNICS LIMITED

: LG29024

: H012181

Laboratory

: ALS Technichem HK Pty Ltd

Page : 1 of 2

Contact : MR C M YEE

Contact

: Chan Kwok Fai, Godfrey

Work Order : HK1003157

Address : 11/F., CENTRE POINT,

Address

: 11/F., Chung Shun Knitting Centre,

1 - 3 Wing Yip Street,

Kwai Chung, N.T., Hong Kong

WANCHAI, HONG KONG

181-185 GLOUCESTER ROAD,

: Samuel@Lamconstruct.com.hk

E-mail

: Godfrey.Chan@alsenviro.com

Telephone : +852 2839 5633

Telephone

: +852 2610 1044

Facsimile : ----

E-mail

Proiect

C-O-C number

Facsimile

: +852 2610 2021

Date Samples Received

: 14-JAN-2010

Order number : CV/2009/13

Quote number

: HK/1797/2009\*\*

Issue Date : 24-FEB-2010
No. of samples received : 1

Site : **S25** 

No. of samples received : 1

No. of samples analysed : 1

#### General Comments

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for processing purposes. If the sampling time is displayed as 0:00 the information was not provided by client. The completion date of analysis is:

11-FEB-2010

Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society. Specific comments for Work Order: **HK1003157** 

Project Name: Kwai Tsing Container Basin - Marine Ground Investigation.

Sample(s) were received in an ambient condition.

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

Sample(s) were arrived in the laboratory at 14:00. Sample(s), in plastic bag, were received in an ambient condition. Testing period: 11/02/2010 (17:00) - 14/02/2010.

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Signatories Position Authorised results for
Leung Sai Ho, Ivan Supervisor Microbiology

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

Page Number : 2 of 2

Client : LAM GEOTECHNICS LIMITED

Work Order HK1003157



Analytical Results

•						
Sub-Matrix: SEDIMENT		Cli	ent sample ID	S25		
	CI	lient sampli	ng date / time	[14-JAN-2010]		
Compound	CAS Number	LOR	Unit	HK1003157-001		
EM: Microbiological Testing						
EM102: Escherichia coli		3	MPN/g	<3		

#### ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



#### CERTIFICATE OF ANALYSIS

Client : LAM GEOTECHNICS LIMITED

: MR C M YEE

: 11/F., CENTRE POINT,

181-185 GLOUCESTER ROAD.

WANCHAI, HONG KONG

E-mail : Samuel@Lamconstruct.com.hk Telephone

: +852 2839 5633 Facsimile : ....

Project : LG29024

Contact

Address

Order number : CV/2009/13

C-O-C number Site : S27

: H012199

Laboratory : ALS Technichem HK Ptv Ltd Contact : Chan Kwok Fai. Godfrev

: 11/F., Chung Shun Knitting Centre,

1 - 3 Wing Yip Street,

Kwai Chung, N.T., Hong Kong

: Godfrey.Chan@alsenviro.com Telephone : +852 2610 1044

**Facsimile** : +852 2610 2021

Quote number : HK/1797/2009\*\*

Date Samples Received

Page

Work Order

Issue Date

: 07-JAN-2010 : 21-JAN-2010

: 1 of 3

: HK1000536

No. of samples received : 2 No. of samples analysed : 2

#### General Comments

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for processing purposes. If the sampling time is displayed as 0:00 the information was not provided by client. The completion date of analysis is: 21-JAN-2010 Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society. Specific comments for Work Order: HK1000536

Project Name: Kwai Tsing Container Basin - Marine Ground Investigation.

Sample(s) were received in an ambient condition.

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

Sample(s) were arrived in the laboratory at 18:00. Sample(s), in vibrocore, were received in an ambient condition. Testing period: 08/01/2010 (11:00) - 10/01/2010.

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Signatories

Address

E-mail

Fung Lim Chee, Richard Leung Sai Ho, Ivan

Position

Authorised results for

General Manager Supervisor

Inorganics Microbiology

ALS Laboratory Group Trading Name: ALS Technichem (HK) Ptu Ltd

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Page Number : 2 of 3

Client - LAM GEOTECHNICS LIMITED

Work Order

HK1000536



Analytical Results			-					
Sub-Matrix: SEDIMENT		Clien	t sample ID	S27	S27		· · · · · · · · · · · · · · · · · · ·	
				0-0.9M	0.9-1.9M	1		:
	Clien	t sampling	date / time	[07-JAN-2010]	[07-JAN-2010]		i .	
Compound	CAS Number	LOR	Unit	HK1000536-001	HK1000536-002			
EA/ED: Physical and Aggregate Properties	·		-		· · · · · · · · · · · · · · · · · · ·			
EA055: Moisture Content (dried @ 103°C	)	0.1	%	46.8	40.9	1		
ED/EK: Inorganic Nonmetallic Parameters								
EK067A: Total Phosphorus as P		20	mg/kg	404	478			
EK082: Acid Volatile Sulphides (as S)		10	mg/kg	<10	<10		4	
EK085S: Sulphide as S2-	18496-25-8	1	mg/kg	<1	<1	,	*	
EM: Microbiological Testing								*
EM102: Escherichia coli		3	MPN/g	<3	<3			<u> </u>

~ : 3 of 3

Client \*

: LAM GEOTECHNICS LIMITED

Work Order

HK1000536



### Laboratory Duplicate (DUP) Report

Matrix: SOIL			* *** 2		Labor	atory Duplicate (DUP)		
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical a	nd Aggregate Prope	erties (QC Lot: 1217702)						-
HK1000439-001	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	12.2	11.8	3.0
HK1000511-002	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	40.9	41.1	0.7
ED/EK: Inorganic	Nonmetallic Parame	ters (QC Lot: 1219505)						
HK1000485-001	Anonymous	EK082: Acid Volatile Sulphides (as S)		10	mg/kg	<10	<10	0.0
ED/EK: Inorganic	Nonmetallic Parame	ters (QC Lot: 1224738)	,				•	
HK1001124-001	Anonymous	EK067A: Total Phosphorus as P		20	mg/kg	622	538	14.4

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

Matrix: SOIL			Method Blank (ME	3) Report	Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report								
					Spike	Spike Rec	overy (%)	Recovery	Limits (%)	R	PD (%)		
Method: Compound			Unit	Result	Concentration	LCS	DCS	Low	Low High		Control Limit		
ED/EK: Inorganic Nonmetallic Para	ameters (QC Lot: 12	219505)							-				
EK082: Acid Volatile Sulphides (as S)		1	mg/kg	<1	5 mg/kg	88.0		85	115				
ED/EK: Inorganic Nonmetallic Para	ameters (QC Lot: 12	21503)	• • • • • • • • • • • • • • • • • • • •							* ****** * * *			
EK085S: Sulphide as S2-	18496-25-8	1	mg/kg	<1									
ED/EK: Inorganic Nonmetallic Para	ameters (QC Lot: 12	24738)								******			
EK067A: Total Phosphorus as P		20	mg/kg	<20	775 mg/kg	97.2		85	115				

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

#### ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



#### CERTIFICATE OF ANALYSIS

Client Contact : LAM GEOTECHNICS LIMITED

Contact

: ALS Technichem HK Ptv Ltd

Page Work Order : 1 of 3

HK1000489

Address

E-mail

Telephone

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WANCHAI, HONG KONG

: Samuel@Lamconstruct.com.hk : +852 2839 5633

: MR C M YEE

Facsimile

Project : LG29024 Order number : CV/2009/13

C-O-C number : H006239

Site

: S28

Laboratory

Address

E-mail

Quote number

: Chan Kwok Fai, Godfrey

: 11/F., Chung Shun Knitting Centre,

1 - 3 Wing Yip Street.

Kwai Chung, N.T., Hong Kong : Godfrev.Chan@alsenviro.com

Telephone : +852 2610 1044 Facsimile : +852 2610 2021

: HK/1797/2009\*\*

Date Samples Received

issue Date

: 26-NOV-2009 : 23-JAN-2010

No. of samples received : 2 : 2

No. of samples analysed

#### General Comments

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Project Name: Kwai Tsing Container Basin - Marine Ground Investigation.

Sample(s) were received in an ambient condition.

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

Sample(s) were arrived in the laboratory at 18:40. Sample(s), in vibrocores, were received in an ambient condition. Testing period: 08/01/2010 (11:00) - 10/01/2010.

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Signatories Fung Lim Chee, Richard Leung Sai Ho, Ivan♀

Position General Manager Supervisor

Inorganics Microbiology

Authorised results for

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

Page Number Client

∴ 2 of 3 ∴ LESS GEOTECHNICS LIMITED

Work Order , HK1000489



Analytical Results										
Sub-Matrix: SEDIMENT		Cli	ient sample ID	) [	S28	S28			1	
				1	0-0.9M	0.9-1.9M	İ	1	1	
	Clien	t sampl	ing date / time	2	[26-NOV-2009]	[26-NOV-2009]		į		
Compound	CAS Number	LOR	Unit	}	HK1000489-001	HK1000489-002				
EA/ED: Physical and Aggregate Properties	5									
EA055: Moisture Content (dried @ 103°C	·)	0.1	%	1	47.4	41.9			· · · · · · · · · · · · · · · · · · ·	
ED/EK: Inorganic Nonmetallic Parameters										
EK067A: Total Phosphorus as P		20	mg/kg	ļ.	345	295				
EK082: Acid Volatile Sulphides (as S)		10	mg/kg	2	<10	<10				
EK085S: Sulphide as S2-	18496-25-8	1	mg/kg	1	<1	<1				
EM: Microbiological Testing										
EM102: Escherichia coli		3	MPN/g		<3	<3	]			

: 3 of 3

Client

: LEM GEOTECHNICS LIMITED

Work Order

- HK1000489



### Laboratory Duplicate (DUP) Report

Matrix: SOIL					Labo	oratory Duplicate (DUP)		
Laboratory sample ID	Client sample ID	Method; Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical a	and Aggregate Prope	erties (QC Lot: 1215681)						
HK1000483-002	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	29.1	28.5	2.0
HK1000489-002	S28 0.9-1.9M	EA055: Moisture Content (dried @ 103°C)		0.1	%	41.9	41.9	0.0
ED/EK: Inorganic	Nonmetallic Parame	ters (QC Lot: 1219505)						
HK1000485-001	Anonymous	EK082: Acid Volatile Sulphides (as S)		10	mg/kg	<10	<10	0.0
ED/EK: Inorganic	Nonmetallic Parame	eters (QC Lot: 1224086)					•	
HK1000485-001	Anonymous	EK067A: Total Phosphorus as P		20	mg/kg	179	207	14.7

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

Matrix: SOIL		Method Blank (MB) Report					Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report								
							Spike	Spike Recovery (%)		Recovery Limits (%)			RPD (%)		
Method: Compound	CAS Number	LON OM Result		Concentration	LCS	DCS	:	Low	High	Value	Control Limit				
ED/EK: Inorganic Nonmetallic Par	ameters (QC Lot: 12	19505)													
EK082: Acid Volatile Sulphides (as S)		1		mg/kg		<1	5 mg/kg	88.0	·	:	85	115			
ED/EK: Inorganic Nonmetallic Para	ameters (QC Lot: 12	21503)										····· -··		······!	
EK085S: Sulphide as S2-	18496-25-8	1		mg/kg		<1			. · · · · · · · · · · · · · · · · · · ·			· ·			
ED/EK: Inorganic Nonmetallic Para	ameters (QC Lot: 12	24086)					***************************************							!	
EK067A: Total Phosphorus as P		20		mg/kg		<20	775 mg/kg	97.2			85	115			

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

#### ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



#### CERTIFICATE OF ANALYSIS

1 - 3 Wing Yip Street,

Client : LAM GEOTECHNICS LIMITED

: MR C M YEE

Laboratory Contact

Address

: ALS Technichem HK Ptv Ltd

: 11/F., Chung Shun Knitting Centre.

Kwai Chung, N.T., Hong Kong

: Godfrey.Chan@alsenviro.com

Page : Chan Kwok Fai, Godfrey

1 of 3 Work Order

HK1000488

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: Samuel@Lamconstruct.com.hk

Telephone : +852 2839 5633

Facsimile

Contact

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Project

: LG29024

Order number : CV/2009/13 C-O-C number : H006239

Site : D355 E-mail

Telephone Facsimile

: +852 2610 1044 : +852 2610 2021

Quote number : HK/1797/2009\*\*

**Date Samples Received** 

: 19-NOV-2009 : 23-JAN-2010

Issue Date No. of samples received

: 2 No. of samples analysed : 2

#### General Comments

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Project Name: Kwai Tsing Container Basin - Marine Ground Investigation.

Sample(s) were received in an ambient condition.

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

Sample(s) were arrived in the laboratory at 18:45. Sample(s), in vibrocores, were received in an ambient condition. Testing period: 08/01/2010 (11:00) - 10/01/2010.

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Signatories

Fung Lim Chee, Richard Leung Sai Ho, Ivan♥

Position

Authorised results for

General Manager Supervisor

Inorganics Microbiology

ALS Laboratory Group Trading Name: ALS Technichem (HK) Pty Ltd

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Page Number : 2 of 3

Client

\* LAM GEOTECHNICS LIMITED

Work Order HK1000488



Analytical Results			-		, ,				
Sub-Matrix: SEDIMENT		Clien	it sample ID	D355	D355				
			5 5 2	0-0.9M	0.9-1.9M	ĺ			
	Clien	t sampling	g date / time 🚶	[19-NOV-2009]	[19-NOV-2009]		1		
Compound	CAS Number	LOR	Unit	HK1000488-001	HK1000488-002		, ,		
EA/ED: Physical and Aggregate Properties					<del> </del>	<del>-                                    </del>			
EA055: Moisture Content (dried @ 103°C	)	0.1	% {	48.3	37.5	.			
ED/EK: Inorganic Nonmetallic Parameters				The state of the s				··· ·· ·· · · · · · · · · · · · · · ·	
EK067A: Total Phosphorus as P	'	20	mg/kg	363	277		··· · · · · · · · · · · · · · · · · ·		
EK082: Acid Volatile Sulphides (as S)		10	mg/kg	<10	<10				
EK085S: Sulphide as S2-	18496-25-8	1	mg/kg	<1	<1				
EM: Microbiological Testing	- Va And Flish dates								
EM102: Escherichia coli		3	MPN/q	<3	<3	1		· · · · · · · · · · · · · · · · · · ·	

. 3 ठ∱3

Client

**COLUMN SECUTION : LAM GEOTECHNICS LIMITED** 

Work Order

HK1000488



### Laboratory Duplicate (DUP) Report

Matrix: SOIL			j		Laboratory Duplicate (DUP) Report								
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)					
EA/ED: Physical a	and Aggregate Prope	rties (QC Lot: 1215681)	<u>,</u>	•									
HK1000483-002	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	29.1	28.5	2.0					
HK1000489-002	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	41.9	41.9	0.0					
ED/EK: Inorganic	Nonmetallic Parame	ters (QC Lot: 1219505)	·										
HK1000485-001	Anonymous	EK082: Acid Volatile Sulphides (as S)		10	mg/kg	<10	<10	0.0					
ED/EK: Inorganic	Nonmetallic Parame	ters (QC Lot: 1224086)	•		• •		•						
HK1000485-001	Anonymous	EK067A: Total Phosphorus as P		20	mg/kg	179	207	14.7					

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

Matrix: SOIL		Method Blank (MB) Report			Labo	Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report							
					Spike	Spike Recovery (%)		Recovery Limits (%)		RPD (%)			
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	DCS	Low	High	Value	Control Limit		
ED/EK: Inorganic Nonmetallic Para	meters (QC Lot: 12	19505)							•				
EK082: Acid Volatile Sulphides (as S)		1	mg/kg	<1	5 mg/kg	88.0		85	115				
ED/EK: Inorganic Nonmetallic Para	meters (QC Lot: 12	21503)											
EK085S: Sulphide as S2-	18496-25-8	1	mg/kg	<1				· · · · · · · · · · · · · · · · · · ·					
ED/EK: Inorganic Nonmetallic Para	meters (QC Lot: 12	24086)		The second secon									
EK067A: Total Phosphorus as P		20	mg/kg	<20	775 mg/kg	97.2		85	115				

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

#### ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



#### CERTIFICATE OF ANALYSIS

Client : LAM GEOTECHNICS LIMITED

: MR C M YEE Contact

: 11/F., CENTRE POINT.

181-185 GLOUCESTER ROAD,

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E-mail : Samuel@Lamconstruct.com.hk Telephone : +852 2839 5633

Facsimile Project

Address

: LG29024

Order number : CV/2009/13

C-O-C number : H006239

Site : D381

Laboratory : ALS Technichem HK Ptv Ltd Contact : Chan Kwok Fai, Godfrey

: 11/F., Chung Shun Knitting Centre,

1 - 3 Wing Yip Street.

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: Godfrey.Chan@alsenviro.com Telephone : +852 2610 1044

Address

F-mail

Quote number

Facsimile : +852 2610 2021

: HK/1797/2009\*\*

**Date Samples Received** : 23-NOV-2009

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Work Order

Issue Date : 23-JAN-2010

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HK1000487

No. of samples received : 2 No. of samples analysed : 2

#### General Comments

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for processing purposes. If the sampling time is displayed as 0:00 the information was not provided by client. The completion date of analysis is: 21-JAN-2010 Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society. Specific comments for Work Order: HK1000487

Project Name: Kwai Tsing Container Basin - Marine Ground Investigation.

Sample(s) were received in an ambient condition.

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

Sample(s) were arrived in the laboratory at 18:35. Sample(s), in vibrocores, were received in an ambient condition. Testing period: 08/01/2010 (11:00) - 10/01/2010.

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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 Fung Lim Chee, Richard Leung Sai Ho, Ivan♥

Position General Manager Supervisor

Inorganics Microbiology

Authorised results for

ALS Laboratory Group Trading Name: ALS Technichem (HK) Pty Ltd

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Client

; 2 of 3 : LAM GEOTECHNICS LIMITED

Work Order \*

HK1000487



Analytical Results										
Sub-Matrix: SEDIMENT		Clien	t sample ID	D381 0-0.9M	D381 0.9-1.9M					:
	Clien	t sampling	date / time	[23-NOV-2009]	[23-NOV-2009]					
Compound	CAS Number	LOR	Unit	HK1000487-001	HK1000487-002	i i				
EA/ED: Physical and Aggregate Properties	;									<del></del>
EA055: Moisture Content (dried @ 103°C		0.1	%	48.2	47.4			:		
ED/EK: Inorganic Nonmetallic Parameters				***************************************			-	:	•	· · · · · · · · · · · · · · · · · · ·
EK067A: Total Phosphorus as P		20	mg/kg	553	410					
EK082: Acid Volatile Sulphides (as S)		10	mg/kg	<10	<10			:		
EK085S: Sulphide as S2-	18496-25-8	1	mg/kg	<1	<1					
EM: Microbiological Testing								. 1		
EM102: Escherichia coli		3	MPN/g	· <3	<3					

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Client

LAM GEOTECHNICS LIMITED

Work Order

HK1000487



#### Laboratory Duplicate (DUP) Report

Matrix: SOIL				Lab	oratory Duplicate (DUP)	Report	A3 -> 1-1-1-1-1-1	
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical	and Aggregate Prop	erties (QC Lot: 1215681)					<u> </u>	
HK1000483-002	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	29.1	28.5	2.0
HK1000489-002	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	41.9	41.9	0.0
ED/EK: Inorganic	: Nonmetallic Parame	eters (QC Lot: 1219505)						
HK1000485-001	Anonymous	EK082: Acid Volatile Sulphides (as S)		10	mg/kg	<10	<10	0.0
ED/EK: Inorganio	: Nonmetallic Parame	eters (QC Lot: 1224086)						
HK1000485-001	Anonymous	EK067A: Total Phosphorus as P		20	mg/kg	179	207	14.7
ED/EK: Inorganio	Nonmetallic Parame	eters (QC Lot: 1224738)	•					
HK1001124-001	Anonymous	EK067A: Total Phosphorus as P		20	mg/kg	622	538	14.4

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

Matrix: SOIL		,	Method Blank (ME	3) Report	Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report							
					Spike	Spike Recovery (%)		Recovery Limits (%)		RPD (%)		
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	DCS	Low	High	Value	Control Limit	
ED/EK: Inorganic Nonmetallic Para	meters (QC Lot: 12	19505)							·			
EK082: Acid Volatile Sulphides (as S)		1	mg/kg	<1	5 mg/kg	88.0	·, -······	85	115			
ED/EK: Inorganic Nonmetallic Para	meters (QC Lot: 12	21503)										
EK085S: Sulphide as S2-	18496-25-8	1	mg/kg	<1								
ED/EK: Inorganic Nonmetallic Para	meters (QC Lot: 12	24086)										
EK067A: Total Phosphorus as P		20	mg/kg	<20	775 mg/kg	97.2		85	115		·	
ED/EK: Inorganic Nonmetallic Para	meters (QC Lot: 12	24738)						****				
EK067A: Total Phosphorus as P		20	mg/kg	<20	775 mg/kg	97.2		85	115			

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