### **ALS Laboratory Group**

**ANALYICAL CHEMISTRY & TESTING SERVICES** 



### **CERTIFICATE OF ANALYSIS**

Client : ERM HONG KONG Laboratory : ALS Technichem (HK) Pty Ltd Page : 1 of 4

Contact : MS KAREN LUI Contact : Alice Wong Work Order : HK0719037

Address : 21/F, LINCOLN HOUSE. Address : 11/F, Chung Shun Knitting Centre.

: 21/F, LINCOLN HOUSE, Address : 11/F., Chung Shun Knitting Centre, 979 KING'S ROAD, TAIKOO PLACE, 1 - 3 Wing Yip Street,

ISLAND EAST, HONG KONG Kwai Chung, N.T., Hong Kong

Telephone : 2271 3000 Telephone : +852 2610 1044
Facsimile : 2723 5660 Facsimile : +852 2610 2021

Project : EM&A FOR THE PERMANENT AVIATION FUEL Quote number : ---- Date received : 1 Jan 2008

FACILITY

Order number : ---- Date of issue : 7 Jan 2008

C-O-C number : ---- No. of samples - Received : 74

Site : ---- - Analysed : 74

#### Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK0719037 supersedes any previous reports with this reference. The completion date of analysis is 4 Jan 2008. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for process purposes. Abbreviations: CAS number = Chemical Abstract Services number. LOR = Limit of reporting.

Specific comments for Work Order HK0719037: Sample(s) were picked up from client by ALS Technichem (HK) staff in a chilled condition.

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

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

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

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Signatory Position Authorised results for:-

Client : ERM HONG KONG

Work Order HK0719037



## **Quality Control - Laboratory Duplicate (DUP) Results**

Matrix Type: WATER				Duplicate (DUP) Results							
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	LOR	Units	Original Result	Duplicate Result	RPD (%)			
EA/ED: Physical and A	ggregate Properties (QC Lot:	565644)									
HK0719037-001	MPSME	EA025: Suspended Solids (SS)		1	mg/L	4	4	0.0			
HK0719037-013	MPB2 S ME	EA025: Suspended Solids (SS)		1	mg/L	6	6	0.0			
EA/ED: Physical and A	ggregate Properties (QC Lot:	565645)									
HK0719037-023	IMO1 B ME	EA025: Suspended Solids (SS)		1	mg/L	4	5	0.0			
HK0719037-045	C2 (NM5) M ME	EA025: Suspended Solids (SS)		1	mg/L	6	5	21.9			
EA/ED: Physical and A	ggregate Properties (QC Lot:	565646)									
HK0719037-057	MPB1 M MF	EA025: Suspended Solids (SS)		1	mg/L	7	7	0.0			
HK0719037-067	IMO1 S MF	EA025: Suspended Solids (SS)		1	mg/L	4	5	0.0			
EA/ED: Physical and A	ggregate Properties (QC Lot:	565647)									
HK0719037-077	IMO2 B MF	EA025: Suspended Solids (SS)		1	mg/L	7	7	0.0			
HK0719037-099	C3 (NM6) M MF	EA025: Suspended Solids (SS)		1	mg/L	6	5	0.0			

Matrix Type: WATER		Method Blank (MB) Results			Single Control Spike (SCS) and Duplicate Control Spike (DCS) Results						
					Spike	Spike Re	covery (%)	Recovery	Limits (%)	RPL	Os (%)
Method: Analysis Description	CAS number	LOR	Units	Result	Concentration	scs	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Proper	rties (QCLot: 565644)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	98.5		85	115		
EA/ED: Physical and Aggregate Proper	rties (QCLot: 565645)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	88.5		85	115		
EA/ED: Physical and Aggregate Proper	rties (QCLot: 565646)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	98.5		85	115		
EA/ED: Physical and Aggregate Proper	rties (QCLot: 565647)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	94.0		85	115		

## **ALS Laboratory Group**

ANALYICAL CHEMISTRY & TESTING SERVICES



#### **CERTIFICATE OF ANALYSIS**

Client : ERM HONG KONG Laboratory : ALS Technichem (HK) Pty Ltd Page : 1 of 4

Contact : MS KAREN LUI Contact : Alice Wong Work Order : HK0719069

Address : 21/F, LINCOLN HOUSE. Address : 11/F, Chung Shun Knitting Centre.

979 KING'S ROAD, TAIKOO PLACE, 1 - 3 Wing Yip Street,

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Alice.Wong@alsenviro.com

E-mail : Karen.Lui@erm.com E-mail : Alice.Wong@alsenviro
Telephone : 2271 3000 Telephone : +852 2610 1044

Facsimile : 2723 5660 Facsimile : +852 2610 2021

Project : EM&A FOR THE PERMANENT AVIATION FUEL Quote number : --- Date received : 2 Jan 2008

FACILITY

Order number : ---- Date of issue : 7 Jan 2008

C-O-C number : --- No. of samples - Received : 74

Site : ---- - Analysed : 74

#### Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK0719069 supersedes any previous reports with this reference. The completion date of analysis is 5 Jan 2008. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for process purposes. Abbreviations: CAS number = Chemical Abstract Services number. LOR = Limit of reporting.

Specific comments for Work Order HK0719069 : Sample(s) were picked up from client by ALS Technichem (HK) staff in a chilled condition.

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

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Signatory Position Authorised results for:-

Client : ERM HONG KONG

Work Order HK0719069



## **Quality Control - Laboratory Duplicate (DUP) Results**

Matrix Type: WATER				Duplicate (DUP) Results						
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	LOR	Units	Original Result	Duplicate Result	RPD (%)		
EA/ED: Physical and Ag	gregate Properties (QC Lot: 56628	32)								
HK0719069-001	MP S ME	EA025: Suspended Solids (SS)		1	mg/L	3	3	0.0		
HK0719069-013	MPB2 S ME	EA025: Suspended Solids (SS)		1	mg/L	2	3	0.0		
EA/ED: Physical and Ag	gregate Properties (QC Lot: 56628	33)								
HK0719069-023	IMO1 B ME	EA025: Suspended Solids (SS)		1	mg/L	8	7	0.0		
HK0719069-045	C2 (NM5) M ME	EA025: Suspended Solids (SS)		1	mg/L	3	4	0.0		
EA/ED: Physical and Ag	gregate Properties (QC Lot: 56628	34)								
HK0719069-058	MPB1 M DUP MF	EA025: Suspended Solids (SS)		1	mg/L	4	4	0.0		
HK0719069-067	IMO1 S MF	EA025: Suspended Solids (SS)		1	mg/L	4	4	0.0		
EA/ED: Physical and Ag	gregate Properties (QC Lot: 56628	35)								
HK0719069-077	IMO2 B MF	EA025: Suspended Solids (SS)		1	mg/L	7	7	0.0		
HK0719069-099	C3 (NM6) M MF	EA025: Suspended Solids (SS)		1	mg/L	18	21	13.1		

Matrix Type: WATER		Method Blank (MB) Results			Single Control Spike (SCS) and Duplicate Control Spike (DCS) Results						
					Spike	Spike Red	covery (%)	Recovery	Limits (%)	RPL	Ds (%)
Method: Analysis Description	CAS number	LOR	Units	Result	Concentration	scs	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Proper	ties (QCLot: 566282)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	93.5		85	115		
EA/ED: Physical and Aggregate Proper	ties (QCLot: 566283)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	101		85	115		
EA/ED: Physical and Aggregate Proper	ties (QCLot: 566284)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	95.5		85	115		
EA/ED: Physical and Aggregate Proper	ties (QCLot: 566285)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	100		85	115		

## **ALS Laboratory Group**

**ANALYICAL CHEMISTRY & TESTING SERVICES** 



### **CERTIFICATE OF ANALYSIS**

Client : ERM HONG KONG Laboratory : ALS Technichem (HK) Pty Ltd Page : 1 of 4

Contact : MS KAREN LUI Contact : Alice Wong Work Order : HK0800028
Address : 21/F, LINCOLN HOUSE. Address : 11/F,. Chung Shun Knitting Centre.

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ISLAND EAST, HONG KONG

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Telephone : 2271 3000 Telephone : +852 2610 1044
Facsimile : 2723 5660 Facsimile : +852 2610 2021

Project : EM&A FOR THE PERMANENT AVIATION FUEL Quote number : ---- Date received : 3 Jan 2008

FACILITY

Order number : ---- Date of issue : 8 Jan 2008

C-O-C number : ---- No. of samples - Received : 74

Site : --- - Analysed : 74

### **Report Comments**

This report for ALS Technichem (HK) Pty Ltd work order reference HK0800028 supersedes any previous reports with this reference. The completion date of analysis is 7 Jan 2008. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for process purposes. Abbreviations: CAS number = Chemical Abstract Services number. LOR = Limit of reporting.

Specific comments for Work Order HK0800028 : Sample(s) were picked up from client by ALS Technichem (HK) staff in a chilled condition.

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

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Signatory Position Authorised results for:-

Fung Lim Chee, Richard General Manager Inorganics

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

Client : ERM HONG KONG

Work Order HK0800028



## **Quality Control - Laboratory Duplicate (DUP) Results**

Matrix Type: WATER				Duplicate (DUP) Results							
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	LOR	Units	Original Result	Duplicate Result	RPD (%)			
EA/ED: Physical and A	ggregate Properties (QC Lo	t: 566430)									
HK0800028-001	MP S ME	EA025: Suspended Solids (SS)		1	mg/L	3	3	0.0			
HK0800028-013	MPB2 S ME	EA025: Suspended Solids (SS)		1	mg/L	7	6	0.0			
EA/ED: Physical and A	ggregate Properties (QC Lo	t: 566431)									
HK0800028-023	IMO1 B ME	EA025: Suspended Solids (SS)		1	mg/L	8	8	0.0			
HK0800028-045	C2 (NM5) M ME	EA025: Suspended Solids (SS)		1	mg/L	6	5	0.0			
EA/ED: Physical and A	ggregate Properties (QC Lo	t: 566432)									
HK0800028-057	MPB1 M MF	EA025: Suspended Solids (SS)		1	mg/L	8	7	13.0			
HK0800028-067	IMO1 S MF	EA025: Suspended Solids (SS)		1	mg/L	6	5	0.0			
EA/ED: Physical and A	ggregate Properties (QC Lo	t: 566433)									
HK0800028-077	IMO2 B MF	EA025: Suspended Solids (SS)		1	mg/L	7	7	0.0			
HK0800028-099	C3 (NM6) M MF	EA025: Suspended Solids (SS)		1	mg/L	4	4	0.0			

Matrix Type: WATER		Method Blank (MB) Results			Single Control Spike (SCS) and Duplicate Control Spike (DCS) Results						
					Spike	Spike Red	covery (%)	Recovery	Limits (%)	RPL	Os (%)
Method: Analysis Description	CAS number	LOR	Units	Result	Concentration	scs	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Proper	rties (QCLot: 566430)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	94.0		85	115		
EA/ED: Physical and Aggregate Proper	rties (QCLot: 566431)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	103		85	115		
EA/ED: Physical and Aggregate Proper	rties (QCLot: 566432)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	99.5		85	115		
EA/ED: Physical and Aggregate Proper	rties (QCLot: 566433)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	100		85	115		

## **ALS Laboratory Group**

ANALYICAL CHEMISTRY & TESTING SERVICES



#### **CERTIFICATE OF ANALYSIS**

Client : ERM HONG KONG Laboratory : ALS Technichem (HK) Pty Ltd Page : 1 of 4

Contact : MS KAREN LUI Contact : Alice Wong Work Order : HK0800098
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Project : EM&A FOR THE PERMANENT AVIATION FUEL Quote number : ---- Date received : 4 Jan 2008

FACILITY

Order number : ---- Date of issue : 9 Jan 2008

C-O-C number : ---- No. of samples - Received : 74

Site : --- - Analysed : **74** 

### **Report Comments**

This report for ALS Technichem (HK) Pty Ltd work order reference HK0800098 supersedes any previous reports with this reference. The completion date of analysis is 7 Jan 2008. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for process purposes. Abbreviations: CAS number = Chemical Abstract Services number. LOR = Limit of reporting.

Specific comments for Work Order HK0800098: Sample(s) were picked up from client by ALS Technichem (HK) staff in a chilled condition.

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

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Signatory Position Authorised results for:-

Client : ERM HONG KONG

Work Order HK0800098



## **Quality Control - Laboratory Duplicate (DUP) Results**

Matrix Type: WATER						Duplicate (DUP)	Results	
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	LOR	Units	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and A	ggregate Properties (QC Lo	t: 566704)						
HK0800098-001	MP S ME	EA025: Suspended Solids (SS)		1	mg/L	7	6	17.5
HK0800098-013	MPB2 S ME	EA025: Suspended Solids (SS)		1	mg/L	4	4	0.0
EA/ED: Physical and A	ggregate Properties (QC Lo	t: 566705)						
HK0800098-023	IMO1 B ME	EA025: Suspended Solids (SS)		1	mg/L	8	8	0.0
HK0800098-045	C2 (NM5) M ME	EA025: Suspended Solids (SS)		1	mg/L	4	3	0.0
EA/ED: Physical and A	ggregate Properties (QC Lo	t: 566706)						
HK0800098-057	MPB1 M MF	EA025: Suspended Solids (SS)		1	mg/L	10	9	15.6
HK0800098-067	IMO1 S MF	EA025: Suspended Solids (SS)		1	mg/L	6	7	0.0
EA/ED: Physical and A	ggregate Properties (QC Lo	t: 566707)		•				
HK0800098-077	IMO2 B MF	EA025: Suspended Solids (SS)		1	mg/L	3	3	0.0
HK0800098-099	C3 (NM6) M MF	EA025: Suspended Solids (SS)		1	mg/L	4	6	22.4

Matrix Type: WATER		Method Blank (MB) Results			Single Control Spike (SCS) and Duplicate Control Spike (DCS) Results						
					Spike	Spike Re	covery (%)	Recovery	Limits (%)	RPL	Os (%)
Method: Analysis Description	CAS number	LOR	Units	Result	Concentration	scs	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Proper	rties (QCLot: 566704)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	97.0		85	115		
EA/ED: Physical and Aggregate Proper	ties (QCLot: 566705)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	106		85	115		
EA/ED: Physical and Aggregate Proper	ties (QCLot: 566706)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	96.5		85	115		
EA/ED: Physical and Aggregate Proper	ties (QCLot: 566707)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	104		85	115		

## **ALS Laboratory Group**

ANALYICAL CHEMISTRY & TESTING SERVICES



### **CERTIFICATE OF ANALYSIS**

Client : ERM HONG KONG Laboratory : ALS Technichem (HK) Pty Ltd Page : 1 of 4

Contact : MS KAREN LUI Contact : Alice Wong Work Order : HK0800099

Address : 21/F, LINCOLN HOUSE. Address : 11/F,, Chung Shun Knitting Centre.

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Telephone : 2271 3000 Telephone : +852 2610 1044
Facsimile : 2723 5660 Facsimile : +852 2610 2021

Project : EM&A FOR THE PERMANENT AVIATION FUEL Quote number : ---- Date received : 5 Jan 2008

FACILITY

Order number : ---- Date of issue : 9 Jan 2008

C-O-C number : ---- No. of samples - Received : 74

Site --- - Analysed : 74

#### Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK0800099 supersedes any previous reports with this reference. The completion date of analysis is 9 Jan 2008. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for process purposes. Abbreviations: CAS number = Chemical Abstract Services number. LOR = Limit of reporting.

Specific comments for Work Order HK0800099: Sample(s) were picked up from client by ALS Technichem (HK) staff in a chilled condition.

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

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Signatory Position Authorised results for:-

Client : ERM HONG KONG

Work Order HK0800099



## **Quality Control - Laboratory Duplicate (DUP) Results**

Matrix Type: WATER						Duplicate (DUP)	Results	
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	LOR	Units	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and Ago	regate Properties (QC Lot: 56725	0)						
HK0800099-001	MP S ME	EA025: Suspended Solids (SS)		1	mg/L	4	5	22.1
HK0800099-013	MPB2 S ME	EA025: Suspended Solids (SS)		1	mg/L	6	6	0.0
EA/ED: Physical and Ago	regate Properties (QC Lot: 56725	1)						
HK0800099-024	IMO1 B DUP ME	EA025: Suspended Solids (SS)		1	mg/L	7	7	0.0
HK0800099-045	C2 (NM5) M ME	EA025: Suspended Solids (SS)		1	mg/L	6	7	17.4
EA/ED: Physical and Ago	regate Properties (QC Lot: 56725	2)						
HK0800099-057	MPB1 M MF	EA025: Suspended Solids (SS)		1	mg/L	5	6	0.0
HK0800099-067	IMO1 S MF	EA025: Suspended Solids (SS)		1	mg/L	6	6	0.0
EA/ED: Physical and Ago	regate Properties (QC Lot: 56725	3)						
HK0800099-077	IMO2 B MF	EA025: Suspended Solids (SS)		1	mg/L	5	5	0.0
HK0800099-099	C3 (NM6) M MF	EA025: Suspended Solids (SS)		1	mg/L	6	7	0.0

Matrix Type: WATER		Method Blank (MB) Results			Single Control Spike (SCS) and Duplicate Control Spike (DCS) Results						
					Spike	Spike Red	covery (%)	Recovery	Limits (%)	RPL	Os (%)
Method: Analysis Description	CAS number	LOR	Units	Result	Concentration	scs	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Property	ties (QCLot: 567250)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	97.5		85	115		
EA/ED: Physical and Aggregate Property	ties (QCLot: 567251)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	104		85	115		
EA/ED: Physical and Aggregate Property	ties (QCLot: 567252)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	96.5		85	115		
EA/ED: Physical and Aggregate Propert	ties (QCLot: 567253)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	95.0		85	115		

## **ALS Laboratory Group**

ANALYICAL CHEMISTRY & TESTING SERVICES



### **CERTIFICATE OF ANALYSIS**

Client : ERM HONG KONG Laboratory : ALS Technichem (HK) Pty Ltd Page : 1 of 4

Contact : MS KAREN LUI Contact : Alice Wong Work Order : HK0800174
Address : 21/F, LINCOLN HOUSE. Address : 11/F,. Chung Shun Knitting Centre.

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Facsimile : 2723 5660 Facsimile : +852 2610 2021

Project : EM&A FOR THE PERMANENT AVIATION FUEL Quote number : ---- Date received : 6 Jan 2008

FACILITY

Order number : ---- Date of issue : 9 Jan 2008

C-O-C number : ---- No. of samples - Received : 74

Site : ---- - Analysed : **74** 

#### Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK0800174 supersedes any previous reports with this reference. The completion date of analysis is 9 Jan 2008. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for process purposes. Abbreviations: CAS number = Chemical Abstract Services number. LOR = Limit of reporting.

Specific comments for Work Order HK0800174: Sample(s) were picked up from client by ALS Technichem (HK) staff in a chilled condition.

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

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Signatory Position Authorised results for:-

Fung Lim Chee, Richard General Manager Inorganics

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

Client : ERM HONG KONG

Work Order HK0800174



## **Quality Control - Laboratory Duplicate (DUP) Results**

Matrix Type: WATER				Duplicate (DUP) Results							
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	LOR	Units	Original Result	Duplicate Result	RPD (%)			
EA/ED: Physical and A	ggregate Properties (QC Lot: 56	7255)									
HK0800174-001	MP S ME	EA025: Suspended Solids (SS)		1	mg/L	6	6	0.0			
HK0800174-013	MPB2 S ME	EA025: Suspended Solids (SS)		1	mg/L	4	5	0.0			
EA/ED: Physical and A	ggregate Properties (QC Lot: 56	7256)									
HK0800174-023	IMO1 B ME	EA025: Suspended Solids (SS)		1	mg/L	6	6	0.0			
HK0800174-046	C2 (NM5) M DUP ME	EA025: Suspended Solids (SS)		1	mg/L	6	6	0.0			
EA/ED: Physical and A	ggregate Properties (QC Lot: 56	7257)									
HK0800174-057	MPB1 M MF	EA025: Suspended Solids (SS)		1	mg/L	6	5	0.0			
HK0800174-067	IMO1 S MF	EA025: Suspended Solids (SS)		1	mg/L	6	6	0.0			
EA/ED: Physical and A	ggregate Properties (QC Lot: 56	7259)		·							
HK0800174-077	IMO2 B MF	EA025: Suspended Solids (SS)		1	mg/L	11	10	0.0			
HK0800174-099	C3 (NM6) M MF	EA025: Suspended Solids (SS)		1	mg/L	6	7	0.0			

Matrix Type: WATER		Method Blank (MB) Results			Single Control Spike (SCS) and Duplicate Control Spike (DCS) Results						
					Spike	Spike Red	covery (%)	Recovery	Limits (%)	RPL	Os (%)
Method: Analysis Description	CAS number	LOR	Units	Result	Concentration	scs	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Proper	rties (QCLot: 567255)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	93.0		85	115		
EA/ED: Physical and Aggregate Proper	rties (QCLot: 567256)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	99.0		85	115		
EA/ED: Physical and Aggregate Proper	rties (QCLot: 567257)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	101		85	115		
EA/ED: Physical and Aggregate Proper	ties (QCLot: 567259)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	102		85	115		

## **ALS Laboratory Group**

**ANALYICAL CHEMISTRY & TESTING SERVICES** 



#### **CERTIFICATE OF ANALYSIS**

Client : ERM HONG KONG Laboratory : ALS Technichem (HK) Pty Ltd Page : 1 of 4

Contact : MS KAREN LUI Contact : Alice Wong Work Order : HK0800231

: 21/F, LINCOLN HOUSE, Address : 11/F., Chung Shun Knitting Centre, 979 KING'S ROAD, TAIKOO PLACE, 1 - 3 Wing Yip Street,

ISLAND EAST, HONG KONG Kwai Chung, N.T., Hong Kong

Telephone : 2271 3000 Telephone : +852 2610 1044
Facsimile : 2723 5660 Facsimile : +852 2610 2021

Project : EM&A FOR THE PERMANENT AVIATION FUEL Quote number : --- Date received : 7 Jan 2008

FACILITY

Order number : ---- Date of issue : 10 Jan 2008

C-O-C number : --- No. of samples - Received : 74

Site : ---- - Analysed : 74

#### Report Comments

Address

This report for ALS Technichem (HK) Pty Ltd work order reference HK0800231 supersedes any previous reports with this reference. The completion date of analysis is 9 Jan 2008. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for process purposes. Abbreviations: CAS number = Chemical Abstract Services number. LOR = Limit of reporting.

Specific comments for Work Order HK0800231: Sample(s) were picked up from client by ALS Technichem (HK) staff in a chilled condition.

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

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Signatory Position Authorised results for:-

Client : ERM HONG KONG

Work Order HK0800231



## **Quality Control - Laboratory Duplicate (DUP) Results**

Matrix Type: WATER						Duplicate (DUP)	Results	
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	LOR	Units	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and Ag	gregate Properties (QC Lot: 56803	0)						
HK0800231-001	MP S ME	EA025: Suspended Solids (SS)		1	mg/L	12	11	0.0
HK0800231-013	MPB2 S ME	EA025: Suspended Solids (SS)		1	mg/L	6	6	0.0
EA/ED: Physical and Ag	gregate Properties (QC Lot: 56803	1)						
HK0800231-023	IMO1 B ME	EA025: Suspended Solids (SS)		1	mg/L	11	11	0.0
HK0800231-045	C2 (NM5) M ME	EA025: Suspended Solids (SS)		1	mg/L	6	7	24.6
EA/ED: Physical and Ag	gregate Properties (QC Lot: 56803)	2)						
HK0800231-059	MPB1 B MF	EA025: Suspended Solids (SS)		1	mg/L	10	10	0.0
HK0800231-067	IMO1 S MF	EA025: Suspended Solids (SS)		1	mg/L	6	6	0.0
EA/ED: Physical and Ag	gregate Properties (QC Lot: 56803	3)						
HK0800231-077	IMO2 B MF	EA025: Suspended Solids (SS)		1	mg/L	5	6	0.0
HK0800231-098	C3 (NM6) S DUP MF	EA025: Suspended Solids (SS)		1	mg/L	6	7	16.0

Matrix Type: WATER		Method Blank (MB) Results			Single Control Spike (SCS) and Duplicate Control Spike (DCS) Results						
					Spike	Spike Red	covery (%)	Recovery	Limits (%)	RPL	Ds (%)
Method: Analysis Description	CAS number	LOR	Units	Result	Concentration	scs	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Property	ties (QCLot: 568030)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	100		85	115		
EA/ED: Physical and Aggregate Property	ties (QCLot: 568031)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	97.0		85	115		
EA/ED: Physical and Aggregate Property	ties (QCLot: 568032)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	100		85	115		
EA/ED: Physical and Aggregate Propert	ties (QCLot: 568033)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	101		85	115		

### **ALS Laboratory Group**

ANALYICAL CHEMISTRY & TESTING SERVICES



### **CERTIFICATE OF ANALYSIS**

Client : ERM HONG KONG Laboratory : ALS Technichem (HK) Pty Ltd Page : 1 of 4

Contact : MS KAREN LUI Contact : Alice Wong Work Order : HK0800232

: 21/F, LINCOLN HOUSE, Address : 11/F., Chung Shun Knitting Centre, 979 KING'S ROAD, TAIKOO PLACE, 1 - 3 Wing Yip Street,

ISLAND EAST, HONG KONG Kwai Chung, N.T., Hong Kong

Telephone : 2271 3000 Telephone : +852 2610 1044
Facsimile : 2723 5660 Facsimile : +852 2610 2021

Project : EM&A FOR THE PERMANENT AVIATION FUEL Quote number : ---- Date received : 8 Jan 2008

FACILITY

Order number : --- Date of issue : 11 Jan 2008

C-O-C number : ---- No. of samples - Received : 74

Site : --- - Analysed : **74** 

### **Report Comments**

Address

This report for ALS Technichem (HK) Pty Ltd work order reference HK0800232 supersedes any previous reports with this reference. The completion date of analysis is 11 Jan 2008. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for process purposes. Abbreviations: CAS number = Chemical Abstract Services number. LOR = Limit of reporting.

Specific comments for Work Order HK0800232 : Sample(s) were picked up from client by ALS Technichem (HK) staff in a chilled condition.

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

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Signatory Position Authorised results for:-

Client : ERM HONG KONG

Work Order HK0800232



## **Quality Control - Laboratory Duplicate (DUP) Results**

Matrix Type: WATER						Duplicate (DUP)	Results	
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	LOR	Units	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and A	ggregate Properties (QC Lo	t: 568948)						
HK0800232-001	MP S ME	EA025: Suspended Solids (SS)		1	mg/L	7	8	14.6
HK0800232-013	MPB2 S ME	EA025: Suspended Solids (SS)		1	mg/L	9	8	14.1
EA/ED: Physical and A	ggregate Properties (QC Lo	t: 568949)						
HK0800232-023	IMO1 B ME	EA025: Suspended Solids (SS)		1	mg/L	8	8	0.0
HK0800232-045	C2 (NM5) M ME	EA025: Suspended Solids (SS)		1	mg/L	5	6	0.0
EA/ED: Physical and A	ggregate Properties (QC Lo	t: 568950)						
HK0800232-057	MPB1 M MF	EA025: Suspended Solids (SS)		1	mg/L	11	12	0.0
HK0800232-067	IMO1 S MF	EA025: Suspended Solids (SS)		1	mg/L	11	10	12.0
EA/ED: Physical and A	ggregate Properties (QC Lo	t: 568951)						·
HK0800232-077	IMO2 B MF	EA025: Suspended Solids (SS)		1	mg/L	9	9	0.0
HK0800232-099	C3 (NM6) M MF	EA025: Suspended Solids (SS)		1	mg/L	10	11	12.2

Matrix Type: WATER		Method Blank (MB) Results			Single Control Spike (SCS) and Duplicate Control Spike (DCS) Results						
					Spike	Spike Red	covery (%)	Recovery	Limits (%)	RPL	Ds (%)
Method: Analysis Description	CAS number	LOR	Units	Result	Concentration	scs	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Proper	ties (QCLot: 568948)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	98.0		85	115		
EA/ED: Physical and Aggregate Proper	ties (QCLot: 568949)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	95.0		85	115		
EA/ED: Physical and Aggregate Proper	ties (QCLot: 568950)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	95.5		85	115		
EA/ED: Physical and Aggregate Proper	ties (QCLot: 568951)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	105		85	115		

## **ALS Laboratory Group**

ANALYICAL CHEMISTRY & TESTING SERVICES



#### **CERTIFICATE OF ANALYSIS**

Client : ERM HONG KONG Laboratory : ALS Technichem (HK) Pty Ltd Page : 1 of 4

Contact : MS KAREN LUI Contact : Alice Wong Work Order : HK0800273

Address : 21/F, LINCOLN HOUSE. Address : 11/F,. Chung Shun Knitting Centre.

: 21/F, LINCOLN HOUSE, Address : 11/F., Chung Shun Knitting Centre, 979 KING'S ROAD, TAIKOO PLACE, 1 - 3 Wing Yip Street,

ISLAND EAST, HONG KONG Kwai Chung, N.T., Hong Kong

Telephone : 2271 3000 Telephone : +852 2610 1044
Facsimile : 2723 5660 Facsimile : +852 2610 2021

Project : EM&A FOR THE PERMANENT AVIATION FUEL Quote number : --- Date received : 9 Jan 2008

FACILITY

Order number : --- Date of issue : 14 Jan 2008

C-O-C number : --- No. of samples - Received : 74

Site : ---- - Analysed : 74

### **Report Comments**

This report for ALS Technichem (HK) Pty Ltd work order reference HK0800273 supersedes any previous reports with this reference. The completion date of analysis is 11 Jan 2008. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for process purposes. Abbreviations: CAS number = Chemical Abstract Services number. LOR = Limit of reporting.

Specific comments for Work Order HK0800273: Sample(s) were picked up from client by ALS Technichem (HK) staff in a chilled condition.

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

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Signatory Position Authorised results for:-

Client : ERM HONG KONG

Work Order HK0800273



## **Quality Control - Laboratory Duplicate (DUP) Results**

Matrix Type: WATER						Duplicate (DUP)	Results	
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	LOR	Units	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and Ag	gregate Properties (QC Lot: 5701	62)						
HK0800273-001	MPSME	EA025: Suspended Solids (SS)		1	mg/L	8	7	0.0
HK0800273-013	MPB2 S ME	EA025: Suspended Solids (SS)		1	mg/L	8	7	0.0
EA/ED: Physical and Ag	gregate Properties (QC Lot: 5701	63)						
HK0800273-023	IMO1 B ME	EA025: Suspended Solids (SS)		1	mg/L	9	10	11.8
HK0800273-045	C2 (NM5) M ME	EA025: Suspended Solids (SS)		1	mg/L	9	8	12.8
EA/ED: Physical and Ag	gregate Properties (QC Lot: 5701	64)						
HK0800273-058	MPB1 M DUP MF	EA025: Suspended Solids (SS)		1	mg/L	14	12	16.8
HK0800273-067	IMO1 S MF	EA025: Suspended Solids (SS)		1	mg/L	9	9	0.0
EA/ED: Physical and Ag	gregate Properties (QC Lot: 5701	65)		,				
HK0800273-077	IMO2 B MF	EA025: Suspended Solids (SS)		1	mg/L	14	12	13.9
HK0800273-099	C3 (NM6) M MF	EA025: Suspended Solids (SS)		1	mg/L	12	14	15.4

Matrix Type: WATER		Method Blank (MB) Results			Single Control Spike (SCS) and Duplicate Control Spike (DCS) Results						
					Spike	Spike Red	covery (%)	Recovery	Limits (%)	RPL	Ds (%)
Method: Analysis Description	CAS number	LOR	Units	Result	Concentration	scs	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Proper	ties (QCLot: 570162)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	102		85	115		
EA/ED: Physical and Aggregate Proper	ties (QCLot: 570163)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	94.0		85	115		
EA/ED: Physical and Aggregate Proper	ties (QCLot: 570164)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	95.5		85	115		
EA/ED: Physical and Aggregate Proper	ties (QCLot: 570165)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	97.0		85	115		

## **ALS Laboratory Group**

ANALYICAL CHEMISTRY & TESTING SERVICES



### **CERTIFICATE OF ANALYSIS**

Client : ERM HONG KONG Laboratory : ALS Technichem (HK) Pty Ltd Page : 1 of 4

Contact : MS KAREN LUI Contact : Alice Wong Work Order : HK0800331

Address : 21/F, LINCOLN HOUSE. Address : 11/F,. Chung Shun Knitting Centre.

: 21/F, LINCOLN HOUSE, Address : 11/F., Chung Shun Knitting Centre, 979 KING'S ROAD, TAIKOO PLACE, 1 - 3 Wing Yip Street,

ISLAND EAST, HONG KONG Kwai Chung, N.T., Hong Kong

Telephone : 2271 3000 Telephone : +852 2610 1044
Facsimile : 2723 5660 Facsimile : +852 2610 2021

Project : EM&A FOR THE PERMANENT AVIATION FUEL Quote number : --- Date received : 10 Jan 2008

FACILITY

Order number : ---- Date of issue : 15 Jan 2008

C-O-C number : --- No. of samples - Received : 74

Site : ---- - Analysed : **74** 

#### **Report Comments**

This report for ALS Technichem (HK) Pty Ltd work order reference HK0800331 supersedes any previous reports with this reference. The completion date of analysis is 14 Jan 2008. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for process purposes. Abbreviations: CAS number = Chemical Abstract Services number. LOR = Limit of reporting.

Specific comments for Work Order HK0800331: Sample(s) were picked up from client by ALS Technichem (HK) staff in a chilled condition.

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

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Signatory Position Authorised results for:-

Client : ERM HONG KONG

Work Order HK0800331



## **Quality Control - Laboratory Duplicate (DUP) Results**

Matrix Type: WATER						Duplicate (DUP)	Results	
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	LOR	Units	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and Ag	gregate Properties (QC Lot: 57082	8)						
HK0800331-001	MP S ME	EA025: Suspended Solids (SS)		1	mg/L	9	10	14.3
HK0800331-014	MPB2 S DUP ME	EA025: Suspended Solids (SS)		1	mg/L	15	14	11.7
EA/ED: Physical and Ag	gregate Properties (QC Lot: 57082	9)						
HK0800331-023	IMO1 B ME	EA025: Suspended Solids (SS)		1	mg/L	16	15	9.2
HK0800331-045	C2 (NM5) M ME	EA025: Suspended Solids (SS)		1	mg/L	8	8	0.0
EA/ED: Physical and Ag	gregate Properties (QC Lot: 57083	0)						
HK0800331-057	MPB1 M MF	EA025: Suspended Solids (SS)		1	mg/L	23	24	0.0
HK0800331-067	IMO1 S MF	EA025: Suspended Solids (SS)		1	mg/L	13	12	0.0
EA/ED: Physical and Ag	gregate Properties (QC Lot: 57083	1)						
HK0800331-077	IMO2 B MF	EA025: Suspended Solids (SS)		1	mg/L	14	12	0.0
HK0800331-100	C3 (NM6) M DUP MF	EA025: Suspended Solids (SS)		1	mg/L	17	18	0.0

Matrix Type: WATER		Method Blank (MB) Results			Single Control Spike (SCS) and Duplicate Control Spike (DCS) Results						
					Spike	Spike Red	covery (%)	Recovery	Limits (%)	RPL	Os (%)
Method: Analysis Description	CAS number	LOR	Units	Result	Concentration	scs	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Propert	ies (QCLot: 570828)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	94.5		85	115		
EA/ED: Physical and Aggregate Propert	ies (QCLot: 570829)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	98.0		85	115		
EA/ED: Physical and Aggregate Propert	ies (QCLot: 570830)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	95.5		85	115		
EA/ED: Physical and Aggregate Propert	ies (QCLot: 570831)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	105		85	115		

### **ALS Laboratory Group**

**ANALYICAL CHEMISTRY & TESTING SERVICES** 



### **CERTIFICATE OF ANALYSIS**

Client : ERM HONG KONG Laboratory : ALS Technichem (HK) Pty Ltd Page : 1 of 5

Contact : MS KAREN LUI Contact : Alice Wong Work Order : HK0800367

Address : 21/F, LINCOLN HOUSE. Address : 11/F, Chung Shun Knitting Centre.

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Project : EM&A FOR THE PERMANENT AVIATION FUEL Quote number : --- Date received : 11 Jan 2008

FACILITY

Order number : ---- Date of issue : 16 Jan 2008

C-O-C number : --- No. of samples - Received : 74

Site : --- - Analysed : 74

#### Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK0800367 supersedes any previous reports with this reference. The completion date of analysis is 16 Jan 2008. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for process purposes. Abbreviations: CAS number = Chemical Abstract Services number. LOR = Limit of reporting.

Specific comments for Work Order HK0800367: Sample(s) were picked up from client by ALS Technichem (HK) staff in a chilled condition.

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

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

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

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Signatory Position Authorised results for:-

Client : ERM HONG KONG

Work Order HK0800367



## **Quality Control - Laboratory Duplicate (DUP) Results**

Matrix Type: WATER						Duplicate (DUP)	Results	
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	LOR	Units	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and Ag	gregate Properties (QC Lot: 5733	67)						
HK0800367-001	MP S ME	EA025: Suspended Solids (SS)		1	mg/L	8	7	0.0
HK0800367-013	MPB2 S ME	EA025: Suspended Solids (SS)		1	mg/L	9	10	0.0
EA/ED: Physical and Ag	gregate Properties (QC Lot: 5733	68)						
HK0800367-028	IMO2 M DUP ME	EA025: Suspended Solids (SS)		1	mg/L	9	9	0.0
HK0800367-049	MP S MF	EA025: Suspended Solids (SS)		1	mg/L	24	23	0.0
EA/ED: Physical and Ag	gregate Properties (QC Lot: 5733	69)						
HK0800367-060	MPB1 B DUP MF	EA025: Suspended Solids (SS)		1	mg/L	11	9	25.1
HK0800367-067	IMO1 S MF	EA025: Suspended Solids (SS)		1	mg/L	18	19	0.0
EA/ED: Physical and Ag	gregate Properties (QC Lot: 5733	70)						
HK0800367-077	IMO2 B MF	EA025: Suspended Solids (SS)		1	mg/L	9	11	20.9
HK0800367-099	C3 (NM6) M MF	EA025: Suspended Solids (SS)		1	mg/L	14	15	8.3

Matrix Type: WATER		Method Blank (MB) Results			Single Control Spike (SCS) and Duplicate Control Spike (DCS) Results						
					Spike	Spike Red	covery (%)	Recovery	Limits (%)	RPL	Os (%)
Method: Analysis Description	CAS number	LOR	Units	Result	Concentration	scs	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Proper	rties (QCLot: 573367)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	94.5		85	115		
EA/ED: Physical and Aggregate Proper	rties (QCLot: 573368)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	91.5		85	115		
EA/ED: Physical and Aggregate Proper	rties (QCLot: 573369)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	88.5		85	115		
EA/ED: Physical and Aggregate Proper	ties (QCLot: 573370)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	97.5		85	115		

### **ALS Laboratory Group**

ANALYICAL CHEMISTRY & TESTING SERVICES



### **CERTIFICATE OF ANALYSIS**

Client : ERM HONG KONG Laboratory : ALS Technichem (HK) Pty Ltd Page : 1 of 4

Contact : MS KAREN LUI Contact : Alice Wong Work Order : HK0800370
Address : 21/F, LINCOLN HOUSE. Address : 11/F,. Chung Shun Knitting Centre.

: 21/F, LINCOLN HOUSE, Address : 11/F., Chung Shun Knitting Centre, 979 KING'S ROAD, TAIKOO PLACE, 1 - 3 Wing Yip Street,

ISLAND EAST, HONG KONG Kwai Chung, N.T., Hong Kong

Telephone : 2271 3000 Telephone : +852 2610 1044
Facsimile : 2723 5660 Facsimile : +852 2610 2021

Project : EM&A FOR THE PERMANENT AVIATION FUEL Quote number : --- Date received : 12 Jan 2008

FACILITY

Order number : ---- Date of issue : 16 Jan 2008

C-O-C number : --- No. of samples - Received : 74

Site : ---- - Analysed : **74** 

### **Report Comments**

This report for ALS Technichem (HK) Pty Ltd work order reference HK0800370 supersedes any previous reports with this reference. The completion date of analysis is 14 Jan 2008. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for process purposes. Abbreviations: CAS number = Chemical Abstract Services number. LOR = Limit of reporting.

Specific comments for Work Order HK0800370 : Sample(s) were picked up from client by ALS Technichem (HK) staff in a chilled condition.

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

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Signatory Position Authorised results for:-

Client : ERM HONG KONG

Work Order HK0800370



## **Quality Control - Laboratory Duplicate (DUP) Results**

Matrix Type: WATER				Duplicate (DUP) Results							
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	LOR	Units	Original Result	Duplicate Result	RPD (%)			
EA/ED: Physical and A	ggregate Properties (QC Lot:	571964)									
HK0800370-001	MP S ME	EA025: Suspended Solids (SS)		1	mg/L	9	9	0.0			
HK0800370-013	MPB2 S ME	EA025: Suspended Solids (SS)		1	mg/L	7	7	0.0			
EA/ED: Physical and A	ggregate Properties (QC Lot:	571965)									
HK0800370-023	IMO1 B ME	EA025: Suspended Solids (SS)		1	mg/L	10	9	0.0			
HK0800370-045	C2 (NM5) M ME	EA025: Suspended Solids (SS)		1	mg/L	8	10	21.1			
EA/ED: Physical and A	ggregate Properties (QC Lot:	571966)									
HK0800370-057	MPB1 M MF	EA025: Suspended Solids (SS)		1	mg/L	19	17	10.5			
HK0800370-067	IMO1 S MF	EA025: Suspended Solids (SS)		1	mg/L	9	7	21.6			
EA/ED: Physical and A	ggregate Properties (QC Lot:	571967)									
HK0800370-077	IMO2 B MF	EA025: Suspended Solids (SS)		1	mg/L	32	32	0.0			
HK0800370-099	C3 (NM6) M MF	EA025: Suspended Solids (SS)		1	mg/L	25	24	4.1			

Matrix Type: WATER		Method Blank (MB) Results			Single Control Spike (SCS) and Duplicate Control Spike (DCS) Results						
					Spike	Spike Red	covery (%)	Recovery	Limits (%)	RPL	Os (%)
Method: Analysis Description	CAS number	LOR	Units	Result	Concentration	scs	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Proper	ties (QCLot: 571964)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	95.5		85	115		
EA/ED: Physical and Aggregate Proper	ties (QCLot: 571965)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	87.0		85	115		
EA/ED: Physical and Aggregate Proper	ties (QCLot: 571966)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	108		85	115		
EA/ED: Physical and Aggregate Proper	ties (QCLot: 571967)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	93.0		85	115		

### **ALS Laboratory Group**

ANALYICAL CHEMISTRY & TESTING SERVICES



#### **CERTIFICATE OF ANALYSIS**

Client : ERM HONG KONG Laboratory : ALS Technichem (HK) Pty Ltd Page : 1 of 4

Contact : MS KAREN LUI Contact : Alice Wong Work Order : HK0800385

Address : 21/F, LINCOLN HOUSE. Address : 11/F,, Chung Shun Knitting Centre.

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E-mail : Karen.Lui@erm.com E-mail : Alice.Wong@alsenviro.com

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Project : EM&A FOR THE PERMANENT AVIATION FUEL Quote number : --- Date received : 13 Jan 2008

FACILITY

Order number : ---- Date of issue : 18 Jan 2008

C-O-C number : ---- No. of samples - Received : 74

Site : ---- - Analysed : 74

#### **Report Comments**

This report for ALS Technichem (HK) Pty Ltd work order reference HK0800385 supersedes any previous reports with this reference. The completion date of analysis is 17 Jan 2008. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for process purposes. Abbreviations: CAS number = Chemical Abstract Services number. LOR = Limit of reporting.

Specific comments for Work Order HK0800385: Sample(s) were picked up from client by ALS Technichem (HK) staff in a chilled condition.

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

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Signatory Position Authorised results for:-

Client : ERM HONG KONG

Work Order HK0800385



## **Quality Control - Laboratory Duplicate (DUP) Results**

Matrix Type: WATER				Duplicate (DUP) Results							
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	LOR	Units	Original Result	Duplicate Result	RPD (%)			
EA/ED: Physical and A	ggregate Properties (QC Lot: 57	72283)									
HK0800385-001	MPSME	EA025: Suspended Solids (SS)		1	mg/L	16	15	0.0			
HK0800385-013	MPB2 S ME	EA025: Suspended Solids (SS)		1	mg/L	15	14	9.5			
EA/ED: Physical and A	ggregate Properties (QC Lot: 57	72284)									
HK0800385-023	IMO1 B ME	EA025: Suspended Solids (SS)		1	mg/L	16	16	0.0			
HK0800385-046	C2 (NM5) M DUP ME	EA025: Suspended Solids (SS)		1	mg/L	12	11	0.0			
EA/ED: Physical and A	ggregate Properties (QC Lot: 57	72285)									
HK0800385-057	MPB1 M MF	EA025: Suspended Solids (SS)		1	mg/L	12	14	16.5			
HK0800385-067	IMO1 S MF	EA025: Suspended Solids (SS)		1	mg/L	10	12	21.5			
EA/ED: Physical and A	ggregate Properties (QC Lot: 57	72286)									
HK0800385-077	IMO2 B MF	EA025: Suspended Solids (SS)		1	mg/L	39	39	0.0			
HK0800385-099	C3 (NM6) M MF	EA025: Suspended Solids (SS)		1	mg/L	16	16	0.0			

Matrix Type: WATER		Method Blank (MB) Results			Single Control Spike (SCS) and Duplicate Control Spike (DCS) Results						
					Spike	Spike Red	covery (%)	Recovery	Limits (%)	RPD	Os (%)
Method: Analysis Description	CAS number	LOR	Units	Result	Concentration	scs	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Propert	ies (QCLot: 572283)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	93.5		85	115		
EA/ED: Physical and Aggregate Propert	ies (QCLot: 572284)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	92.0		85	115		
EA/ED: Physical and Aggregate Propert	ies (QCLot: 572285)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	101		85	115		
EA/ED: Physical and Aggregate Propert	ies (QCLot: 572286)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	94.5		85	115		

## **ALS Laboratory Group**

ANALYICAL CHEMISTRY & TESTING SERVICES



### **CERTIFICATE OF ANALYSIS**

Client : ERM HONG KONG Laboratory : ALS Technichem (HK) Pty Ltd Page : 1 of 5

Contact : MS KAREN LUI Contact : Alice Wong Work Order : HK0800641

Address : 21/F, LINCOLN HOUSE. Address : 11/F, Chung Shun Knitting Centre.

: 21/F, LINCOLN HOUSE, Address : 11/F., Chung Shun Knitting Centre, 979 KING'S ROAD, TAIKOO PLACE, 1 - 3 Wing Yip Street,

ISLAND EAST, HONG KONG Kwai Chung, N.T., Hong Kong

Telephone : 2271 3000 Telephone : +852 2610 1044
Facsimile : 2723 5660 Facsimile : +852 2610 2021

Project : EM&A FOR THE PERMANENT AVIATION FUEL Quote number : --- Date received : 14 Jan 2008

FACILITY

Order number : ---- Date of issue : 18 Jan 2008

C-O-C number : --- No. of samples - Received : 76

Site : ---- - Analysed : **76** 

#### **Report Comments**

This report for ALS Technichem (HK) Pty Ltd work order reference HK0800641 supersedes any previous reports with this reference. The completion date of analysis is 17 Jan 2008. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for process purposes. Abbreviations: CAS number = Chemical Abstract Services number. LOR = Limit of reporting.

Specific comments for Work Order HK0800641: Sample(s) were picked up from client by ALS Technichem (HK) staff in a chilled condition.

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

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Signatory Position Authorised results for:-

Fung Lim Chee, Richard General Manager Inorganics

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

Client : ERM HONG KONG

Work Order HK0800641



## **Quality Control - Laboratory Duplicate (DUP) Results**

Matrix Type: WATER						Duplicate (DUP)	Results	
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	LOR	Units	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and A	ggregate Properties (QC Lot	t: 574275)						
HK0800641-001	MPSME	EA025: Suspended Solids (SS)		1	mg/L	10	9	10.4
HK0800641-013	MPB2 S ME	EA025: Suspended Solids (SS)		1	mg/L	9	10	17.0
EA/ED: Physical and A	ggregate Properties (QC Lot	t: 574276)						
HK0800641-023	IMO1 B ME	EA025: Suspended Solids (SS)		1	mg/L	22	22	0.0
HK0800641-045	C2 (NM5) M ME	EA025: Suspended Solids (SS)		1	mg/L	8	7	0.0
EA/ED: Physical and A	ggregate Properties (QC Lot	t: 574277)						
HK0800641-057	MPB1 M MF	EA025: Suspended Solids (SS)		1	mg/L	10	10	0.0
HK0800641-067	IMO1 S MF	EA025: Suspended Solids (SS)		1	mg/L	10	11	14.3
EA/ED: Physical and A	ggregate Properties (QC Lot	t: 574278)						·
HK0800641-077	IMO2 B MF	EA025: Suspended Solids (SS)		1	mg/L	11	15	33.2
HK0800641-099	C3 (NM6) M MF	EA025: Suspended Solids (SS)		1	mg/L	8	7	20.0

Matrix Type: WATER		Method Blank (MB) Results			Single Control Spike (SCS) and Duplicate Control Spike (DCS) Results						
					Spike	Spike Red	covery (%)	Recovery	Limits (%)	RPL	Os (%)
Method: Analysis Description	CAS number	LOR	Units	Result	Concentration	scs	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Proper	rties (QCLot: 574275)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	95.0		85	115		
EA/ED: Physical and Aggregate Proper	rties (QCLot: 574276)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	95.5		85	115		
EA/ED: Physical and Aggregate Proper	ties (QCLot: 574277)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	90.5		85	115		
EA/ED: Physical and Aggregate Proper	ties (QCLot: 574278)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	96.0		85	115		

### **ALS Laboratory Group**

ANALYICAL CHEMISTRY & TESTING SERVICES



### **CERTIFICATE OF ANALYSIS**

Client : ERM HONG KONG Laboratory : ALS Technichem (HK) Pty Ltd Page : 1 of 4

Contact : MS KAREN LUI Contact : Alice Wong Work Order : HK0800640
Address : 21/F, LINCOLN HOUSE. Address : 11/F,, Chung Shun Knitting Centre.

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E-mail : Karen.Lui@erm.com E-mail : Alice.Wong@alsenviro.com

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Project : EM&A FOR THE PERMANENT AVIATION FUEL Quote number : --- Date received : 15 Jan 2008

FACILITY

Order number : ---- Date of issue : 19 Jan 2008

C-O-C number : --- No. of samples - Received : 74

Site : --- - Analysed : **74** 

### **Report Comments**

This report for ALS Technichem (HK) Pty Ltd work order reference HK0800640 supersedes any previous reports with this reference. The completion date of analysis is 18 Jan 2008. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for process purposes. Abbreviations: CAS number = Chemical Abstract Services number. LOR = Limit of reporting.

Specific comments for Work Order HK0800640: Sample(s) were picked up from client by ALS Technichem (HK) staff in a chilled condition.

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Signatory Position Authorised results for:-

. 4014

Client : ERM HONG KONG





## **Quality Control - Laboratory Duplicate (DUP) Results**

Matrix Type: WATER				Duplicate (DUP) Results					
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	LOR	Units	Original Result	Duplicate Result	RPD (%)	
EA/ED: Physical and Ago	regate Properties (QC Lot: 57428	8)							
HK0800640-001	MP S ME	EA025: Suspended Solids (SS)		1	mg/L	10	10	0.0	
HK0800640-014	MPB2 S DUP ME	EA025: Suspended Solids (SS)		1	mg/L	7	8	0.0	
EA/ED: Physical and Ago	regate Properties (QC Lot: 57428	9)							
HK0800640-023	IMO1 B ME	EA025: Suspended Solids (SS)		1	mg/L	9	9	0.0	
HK0800640-045	C2 (NM5) M ME	EA025: Suspended Solids (SS)		1	mg/L	7	7	0.0	
EA/ED: Physical and Ago	regate Properties (QC Lot: 57429	0)							
HK0800640-058	MPB1 M DUP MF	EA025: Suspended Solids (SS)		1	mg/L	6	8	0.0	
HK0800640-067	IMO1 S MF	EA025: Suspended Solids (SS)		1	mg/L	10	9	0.0	
EA/ED: Physical and Ago	gregate Properties (QC Lot: 57429	1)							
HK0800640-077	IMO2 B MF	EA025: Suspended Solids (SS)		1	mg/L	9	10	0.0	
HK0800640-100	C3 (NM6) M DUP MF	EA025: Suspended Solids (SS)		1	mg/L	6	7	0.0	

Matrix Type: WATER		Method Blank (MB) Results			Single Control Spike (SCS) and Duplicate Control Spike (DCS) Results						
					Spike	Spike Red	covery (%)	Recovery	Limits (%)	RPL	Ds (%)
Method: Analysis Description	CAS number	LOR	Units	Result	Concentration	scs	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Proper	ties (QCLot: 574288)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	102		85	115		
EA/ED: Physical and Aggregate Proper	ties (QCLot: 574289)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	100		85	115		
EA/ED: Physical and Aggregate Proper	ties (QCLot: 574290)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	98.0		85	115		
EA/ED: Physical and Aggregate Proper	ties (QCLot: 574291)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	97.5		85	115		

## **ALS Laboratory Group**

ANALYICAL CHEMISTRY & TESTING SERVICES



#### **CERTIFICATE OF ANALYSIS**

Client : ERM HONG KONG Laboratory : ALS Technichem (HK) Pty Ltd Page : 1 of 4

Contact: MS KAREN LUI Contact: Alice Wong Work Order: HK0800749

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Project : EM&A FOR THE PERMANENT AVIATION FUEL Quote number : ---- Date received : 16 Jan 2008

FACILITY

Order number : ---- Date of issue : 21 Jan 2008

C-O-C number : ---- No. of samples - Received : 74

Site : --- - Analysed : **74** 

#### **Report Comments**

Address

This report for ALS Technichem (HK) Pty Ltd work order reference HK0800749 supersedes any previous reports with this reference. The completion date of analysis is 18 Jan 2008. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for process purposes. Abbreviations: CAS number = Chemical Abstract Services number. LOR = Limit of reporting.

Specific comments for Work Order HK0800749: Sample(s) were picked up from client by ALS Technichem (HK) staff in a chilled condition.

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

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Signatory Position Authorised results for:-

Client : ERM HONG KONG

Work Order HK0800749



## **Quality Control - Laboratory Duplicate (DUP) Results**

Matrix Type: WATER				Duplicate (DUP) Results					
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	LOR	Units	Original Result	Duplicate Result	RPD (%)	
EA/ED: Physical and Ag	gregate Properties (QC Lot: 5752	12)							
HK0800749-001	MP S ME	EA025: Suspended Solids (SS)		1	mg/L	9	9	0.0	
HK0800749-013	MPB2 S ME	EA025: Suspended Solids (SS)		1	mg/L	8	9	16.4	
EA/ED: Physical and Ag	gregate Properties (QC Lot: 5752	13)							
HK0800749-024	IMO1 B DUP ME	EA025: Suspended Solids (SS)		1	mg/L	6	6	0.0	
HK0800749-045	C2 (NM5) M ME	EA025: Suspended Solids (SS)		1	mg/L	6	6	0.0	
EA/ED: Physical and Ag	gregate Properties (QC Lot: 5752	14)							
HK0800749-057	MPB1 M MF	EA025: Suspended Solids (SS)		1	mg/L	8	9	13.2	
HK0800749-067	IMO1 S MF	EA025: Suspended Solids (SS)		1	mg/L	11	10	0.0	
EA/ED: Physical and Ag	gregate Properties (QC Lot: 5752	15)							
HK0800749-077	IMO2 B MF	EA025: Suspended Solids (SS)		1	mg/L	9	8	12.6	
HK0800749-099	C3 (NM6) M MF	EA025: Suspended Solids (SS)		1	mg/L	8	9	0.0	

Matrix Type: WATER		Method Blank (MB) Results			Single Control Spike (SCS) and Duplicate Control Spike (DCS) Results						
					Spike	Spike Red	covery (%)	Recovery	Limits (%)	RPL	Ds (%)
Method: Analysis Description	CAS number	LOR	Units	Result	Concentration	scs	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Proper	ties (QCLot: 575212)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	99.0		85	115		
EA/ED: Physical and Aggregate Proper	ties (QCLot: 575213)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	102		85	115		
EA/ED: Physical and Aggregate Proper	ties (QCLot: 575214)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	97.0		85	115		
EA/ED: Physical and Aggregate Proper	ties (QCLot: 575215)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	102		85	115		

## **ALS Laboratory Group**

ANALYICAL CHEMISTRY & TESTING SERVICES



### **CERTIFICATE OF ANALYSIS**

Client **ERM HONG KONG** : ALS Technichem (HK) Pty Ltd Laboratory Page : 1 of 4

MS KAREN LUI Work Order Contact Contact : Alice Wong HK0800814 Address

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2723 5660 +852 2610 2021 Facsimile Facsimile

: EM&A FOR THE PERMANENT AVIATION FUEL : 17 Jan 2008 Project Quote number Date received

**FACILITY** 

: 21 Jan 2008 Date of issue Order number

74 C-O-C number No. of samples Received

74 Site Analysed

#### **Report Comments**

This report for ALS Technichem (HK) Pty Ltd work order reference HK0800814 supersedes any previous reports with this reference. The completion date of analysis is 19 Jan 2008. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for process purposes. Abbreviations: CAS number = Chemical Abstract Services number. LOR = Limit of reporting.

Specific comments for Work Order HK0800814: Sample(s) were picked up from client by ALS Technichem (HK) staff in a chilled condition.

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

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Signatory Position Authorised results for:-

Client : ERM HONG KONG

Work Order HK0800814



## **Quality Control - Laboratory Duplicate (DUP) Results**

Matrix Type: WATER				Duplicate (DUP) Results					
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	LOR	Units	Original Result	Duplicate Result	RPD (%)	
EA/ED: Physical and Ago	regate Properties (QC Lot: 57619	5)							
HK0800814-001	MP S ME	EA025: Suspended Solids (SS)		1	mg/L	4	3	0.0	
HK0800814-013	MPB2 S ME	EA025: Suspended Solids (SS)		1	mg/L	4	5	0.0	
EA/ED: Physical and Ago	regate Properties (QC Lot: 57619	6)							
HK0800814-023	IMO1 B ME	EA025: Suspended Solids (SS)		1	mg/L	4	5	0.0	
HK0800814-045	C2 (NM5) M ME	EA025: Suspended Solids (SS)		1	mg/L	4	4	0.0	
EA/ED: Physical and Ago	regate Properties (QC Lot: 57619	7)							
HK0800814-058	MPB1 M DUP MF	EA025: Suspended Solids (SS)		1	mg/L	5	5	0.0	
HK0800814-067	IMO1 S MF	EA025: Suspended Solids (SS)		1	mg/L	5	4	0.0	
EA/ED: Physical and Ago	regate Properties (QC Lot: 57619	B)							
HK0800814-077	IMO2 B MF	EA025: Suspended Solids (SS)		1	mg/L	4	4	0.0	
HK0800814-099	C3 (NM6) M MF	EA025: Suspended Solids (SS)		1	mg/L	5	4	0.0	

Matrix Type: WATER		Method Blank (MB) Results			Single Control Spike (SCS) and Duplicate Control Spike (DCS) Results						
					Spike	Spike Red	covery (%)	Recovery	Limits (%)	RPL	Ds (%)
Method: Analysis Description	CAS number	LOR	Units	Result	Concentration	scs	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Proper	ties (QCLot: 576195)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	106		85	115		
EA/ED: Physical and Aggregate Proper	ties (QCLot: 576196)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	97.0		85	115		
EA/ED: Physical and Aggregate Proper	ties (QCLot: 576197)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	99.0		85	115		
EA/ED: Physical and Aggregate Proper	ties (QCLot: 576198)							·			
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	108		85	115		

### **ALS Laboratory Group**

ANALYICAL CHEMISTRY & TESTING SERVICES



### **CERTIFICATE OF ANALYSIS**

Client : ERM HONG KONG Laboratory : ALS Technichem (HK) Pty Ltd Page : 1 of 4

Contact : MS KAREN LUI Contact : Alice Wong Work Order : HK0800813

Address : 21/F, LINCOLN HOUSE. Address : 11/F, Chung Shun Knitting Centre.

979 KING'S ROAD, 1 - 3 Wing Yip Street,

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Project : EM&A FOR THE PERMANENT AVIATION FUEL Quote number : --- Date received : 18 Jan 2008

FACILITY

Order number : --- Date of issue : 23 Jan 2008

C-O-C number : ---- No. of samples - Received : 74

Site : ---- - Analysed : 74

### **Report Comments**

This report for ALS Technichem (HK) Pty Ltd work order reference HK0800813 supersedes any previous reports with this reference. The completion date of analysis is 21 Jan 2008. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for process purposes. Abbreviations: CAS number = Chemical Abstract Services number. LOR = Limit of reporting.

Specific comments for Work Order HK0800813: Sample(s) were picked up from client by ALS Technichem (HK) staff in a chilled condition.

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

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Signatory Position Authorised results for:-

Client : ERM HONG KONG

Work Order HK0800813



## **Quality Control - Laboratory Duplicate (DUP) Results**

Matrix Type: WATER						Duplicate (DUP)	Results	
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	LOR	Units	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and A	ggregate Properties (QC Lot:	: 577113)						
HK0800813-001	MP S ME	EA025: Suspended Solids (SS)		1	mg/L	4	4	0.0
HK0800813-014	MPB2 S DUP ME	EA025: Suspended Solids (SS)		1	mg/L	6	5	0.0
EA/ED: Physical and A	ggregate Properties (QC Lot:	: 577114)						
HK0800813-023	IMO1 B ME	EA025: Suspended Solids (SS)		1	mg/L	7	6	0.0
HK0800813-045	C2 (NM5) M ME	EA025: Suspended Solids (SS)		1	mg/L	4	5	0.0
EA/ED: Physical and A	ggregate Properties (QC Lot	: 577115)						
HK0800813-057	MPB1 M MF	EA025: Suspended Solids (SS)		1	mg/L	3	3	0.0
HK0800813-067	IMO1 S MF	EA025: Suspended Solids (SS)		1	mg/L	6	5	0.0
EA/ED: Physical and A	ggregate Properties (QC Lot:	: 577116)						
HK0800813-077	IMO2 B MF	EA025: Suspended Solids (SS)		1	mg/L	4	4	0.0
HK0800813-099	C3 (NM6) M MF	EA025: Suspended Solids (SS)		1	mg/L	4	5	0.0

Matrix Type: WATER		Method Blank (MB) Results			Single Control Spike (SCS) and Duplicate Control Spike (DCS) Results						
					Spike	Spike Red	covery (%)	Recovery	Limits (%)	RPL	Os (%)
Method: Analysis Description	CAS number	LOR	Units	Result	Concentration	scs	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Proper	ties (QCLot: 577113)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	104		85	115		
EA/ED: Physical and Aggregate Proper	ties (QCLot: 577114)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	97.0		85	115		
EA/ED: Physical and Aggregate Proper	ties (QCLot: 577115)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	95.0		85	115		
EA/ED: Physical and Aggregate Proper	ties (QCLot: 577116)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	104		85	115		

### **ALS Laboratory Group**

**ANALYICAL CHEMISTRY & TESTING SERVICES** 



#### **CERTIFICATE OF ANALYSIS**

Client : ERM HONG KONG Laboratory : ALS Technichem (HK) Pty Ltd Page : 1 of 4

Contact : MS KAREN LUI Contact : Alice Wong Work Order : HK0800920
Address : 21/F, LINCOLN HOUSE. Address : 11/F,. Chung Shun Knitting Centre.

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Project : EM&A FOR THE PERMANENT AVIATION FUEL Quote number : ---- Date received : 19 Jan 2008

FACILITY

Order number : ---- Date of issue : 23 Jan 2008

C-O-C number : --- No. of samples - Received : 74

Site : ---- - Analysed : 74

#### **Report Comments**

This report for ALS Technichem (HK) Pty Ltd work order reference HK0800920 supersedes any previous reports with this reference. The completion date of analysis is 23 Jan 2008. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for process purposes. Abbreviations: CAS number = Chemical Abstract Services number. LOR = Limit of reporting.

Specific comments for Work Order HK0800920 : Sample(s) were picked up from client by ALS Technichem (HK) staff in a chilled condition.

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

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Signatory Position Authorised results for:-

Client

: ERM HONG KONG

Work Order HK0800920



# **Quality Control - Laboratory Duplicate (DUP) Results**

Matrix Type: WATER								
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	LOR	Units	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and Ag	gregate Properties (QC Lot: 57754	0)						
HK0800920-001	MP S ME	EA025: Suspended Solids (SS)		1	mg/L	9	9	0.0
HK0800920-013	MPB2 S ME	EA025: Suspended Solids (SS)		1	mg/L	5	5	0.0
EA/ED: Physical and Ag	gregate Properties (QC Lot: 57754	1)						
HK0800920-023	IMO1 B ME	EA025: Suspended Solids (SS)		1	mg/L	3	4	0.0
HK0800920-045	C2 (NM5) M ME	EA025: Suspended Solids (SS)		1	mg/L	8	8	0.0
EA/ED: Physical and Ag	gregate Properties (QC Lot: 57754	2)						
HK0800920-057	MPB1 M MF	EA025: Suspended Solids (SS)		1	mg/L	3	4	0.0
HK0800920-068	IMO1 S DUP MF	EA025: Suspended Solids (SS)		1	mg/L	9	8	0.0
EA/ED: Physical and Ag	gregate Properties (QC Lot: 57754	3)						
HK0800920-077	IMO2 B MF	EA025: Suspended Solids (SS)		1	mg/L	7	6	18.2
HK0800920-099	C3 (NM6) M MF	EA025: Suspended Solids (SS)		1	mg/L	4	4	0.0

Matrix Type: WATER		Method Blank (MB) Results			Single Control Spike (SCS) and Duplicate Control Spike (DCS) Results						
					Spike	Spike Red	covery (%)	Recovery	Limits (%)	RPL	Ds (%)
Method: Analysis Description	CAS number	LOR	Units	Result	Concentration	scs	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Proper	rties (QCLot: 577540)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	102		85	115		
EA/ED: Physical and Aggregate Proper	ties (QCLot: 577541)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	106		85	115		
EA/ED: Physical and Aggregate Proper	rties (QCLot: 577542)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	102		85	115		
EA/ED: Physical and Aggregate Proper	rties (QCLot: 577543)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	92.5		85	115		

### **ALS Laboratory Group**

ANALYICAL CHEMISTRY & TESTING SERVICES



#### **CERTIFICATE OF ANALYSIS**

Client **ERM HONG KONG** : ALS Technichem (HK) Pty Ltd Laboratory Page : 1 of 5

MS KAREN LUI Work Order Contact Contact : Alice Wong HK0800935 Address

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: EM&A FOR THE PERMANENT AVIATION FUEL · 20 Jan 2008 Project Quote number Date received

**FACILITY** 

: 23 Jan 2008 Date of issue Order number

100 C-O-C number No. of samples Received

100 Site Analysed

### **Report Comments**

E-mail

This report for ALS Technichem (HK) Pty Ltd work order reference HK0800935 supersedes any previous reports with this reference. The completion date of analysis is 21 Jan 2008. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for process purposes. Abbreviations: CAS number = Chemical Abstract Services number. LOR = Limit of reporting.

Specific comments for Work Order HK0800935: Sample(s) were picked up from client by ALS Technichem (HK) staff in a chilled condition.

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

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Signatory Position Authorised results for:-

Client : ERM HONG KONG

Work Order HK0800935



# **Quality Control - Laboratory Duplicate (DUP) Results**

Matrix Type: WATER						Duplicate (DUP)	Results	
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	LOR	Units	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and A	ggregate Properties (QC Lot:	: 577117)						
HK0800935-001	MP S ME	EA025: Suspended Solids (SS)		1	mg/L	6	7	16.5
HK0800935-011	MPB1 B ME	EA025: Suspended Solids (SS)		1	mg/L	9	10	0.0
EA/ED: Physical and A	ggregate Properties (QC Lot:	: 577118)						
HK0800935-021	IMO1 M ME	EA025: Suspended Solids (SS)		1	mg/L	5	5	0.0
HK0800935-031	IMO3 S ME	EA025: Suspended Solids (SS)		1	mg/L	6	6	0.0
EA/ED: Physical and A	ggregate Properties (QC Lot:	577119)						
HK0800935-041	IMO4 B ME	EA025: Suspended Solids (SS)		1	mg/L	11	10	0.0
HK0800935-051	MP M MF	EA025: Suspended Solids (SS)		1	mg/L	4	5	0.0
EA/ED: Physical and A	ggregate Properties (QC Lot:	577120)						
HK0800935-061	MPB2 S MF	EA025: Suspended Solids (SS)		1	mg/L	4	5	0.0
HK0800935-072	IMO1 B DUP MF	EA025: Suspended Solids (SS)		1	mg/L	8	7	0.0
EA/ED: Physical and A	ggregate Properties (QC Lot:	: 577121)						
HK0800935-081	IMO3 M MF	EA025: Suspended Solids (SS)		1	mg/L	6	6	0.0
HK0800935-091	C1 (NM3) S MF	EA025: Suspended Solids (SS)		1	mg/L	4	6	19.7

Matrix Type: WATER		Method Blank (MB) Results			Single Control Spike (SCS) and Duplicate Control Spike (DCS) Results						
					Spike	Spike Red	covery (%)	Recovery	Limits (%)	RPL	Os (%)
Method: Analysis Description	CAS number	LOR	Units	Result	Concentration	scs	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Prope	rties (QCLot: 577117)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	98.5		85	115		
EA/ED: Physical and Aggregate Prope	rties (QCLot: 577118)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	93.5		85	115		
EA/ED: Physical and Aggregate Prope	rties (QCLot: 577119)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	94.0		85	115		
EA/ED: Physical and Aggregate Prope	rties (QCLot: 577120)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	104		85	115		
EA/ED: Physical and Aggregate Prope	rties (QCLot: 577121)				<u> </u>					<u> </u>	
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	92.5		85	115		

### **ALS Laboratory Group**

ANALYICAL CHEMISTRY & TESTING SERVICES



#### **CERTIFICATE OF ANALYSIS**

Client : ERM HONG KONG Laboratory : ALS Technichem (HK) Pty Ltd Page : 1 of 4

Contact : MS KAREN LUI Contact : Alice Wong Work Order : HK0801011

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Project : EM&A FOR THE PERMANENT AVIATION FUEL Quote number : --- Date received : 21 Jan 2008

FACILITY

Order number : ---- Date of issue : 24 Jan 2008

C-O-C number : ---- No. of samples - Received : 74

Site : ---- - Analysed : 74

### **Report Comments**

Address

This report for ALS Technichem (HK) Pty Ltd work order reference HK0801011 supersedes any previous reports with this reference. The completion date of analysis is 24 Jan 2008. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for process purposes. Abbreviations: CAS number = Chemical Abstract Services number. LOR = Limit of reporting.

of Hong Kong. Chapter 553. Section 6.

Specific comments for Work Order HK0801011: Sample(s) were picked up from client by ALS Technichem (HK) staff in a chilled condition.

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

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Signatory Position Authorised results for:-

Client : ERM HONG KONG

Work Order HK0801011



# **Quality Control - Laboratory Duplicate (DUP) Results**

Matrix Type: WATER				Duplicate (DUP) Results					
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	LOR	Units	Original Result	Duplicate Result	RPD (%)	
EA/ED: Physical and Ago	regate Properties (QC Lot: 57841	3)							
HK0801011-001	MP S ME	EA025: Suspended Solids (SS)		1	mg/L	8	9	0.0	
HK0801011-011	MPB1 B ME	EA025: Suspended Solids (SS)		1	mg/L	8	8	0.0	
EA/ED: Physical and Ago	gregate Properties (QC Lot: 57841	4)							
HK0801011-014	MPB2 S DUP ME	EA025: Suspended Solids (SS)		1	mg/L	7	7	0.0	
HK0801011-045	C2 (NM5) M ME	EA025: Suspended Solids (SS)		1	mg/L	10	9	10.8	
EA/ED: Physical and Ago	regate Properties (QC Lot: 57841	5)							
HK0801011-057	MPB1 M MF	EA025: Suspended Solids (SS)		1	mg/L	8	7	0.0	
HK0801011-067	IMO1 S MF	EA025: Suspended Solids (SS)		1	mg/L	6	7	0.0	
EA/ED: Physical and Ago	gregate Properties (QC Lot: 57841	6)							
HK0801011-077	IMO2 B MF	EA025: Suspended Solids (SS)		1	mg/L	10	11	0.0	
HK0801011-099	C3 (NM6) M MF	EA025: Suspended Solids (SS)		1	mg/L	9	8	19.1	

Matrix Type: WATER		Method Blank (MB) Results			Single Control Spike (SCS) and Duplicate Control Spike (DCS) Results						
					Spike	Spike Red	covery (%)	Recovery	Limits (%)	RPL	Os (%)
Method: Analysis Description	CAS number	LOR	Units	Result	Concentration	scs	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Proper	ties (QCLot: 578413)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	98.0		85	115		
EA/ED: Physical and Aggregate Proper	ties (QCLot: 578414)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	96.5		85	115		
EA/ED: Physical and Aggregate Proper	ties (QCLot: 578415)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	102		85	115		
EA/ED: Physical and Aggregate Proper	ties (QCLot: 578416)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	100		85	115		

### **ALS Laboratory Group**

ANALYICAL CHEMISTRY & TESTING SERVICES



#### **CERTIFICATE OF ANALYSIS**

Client : ERM HONG KONG Laboratory : ALS Technichem (HK) Pty Ltd Page : 1 of 4

Contact : MS KAREN LUI Contact : Alice Wong Work Order : HK0801012
Address : 21/F, LINCOLN HOUSE. Address : 11/F,, Chung Shun Knitting Centre.

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Project : EM&A FOR THE PERMANENT AVIATION FUEL Quote number : --- Date received : 22 Jan 2008

FACILITY

Order number : ---- Date of issue : 25 Jan 2008

C-O-C number : ---- No. of samples - Received : 74

Site : ---- - Analysed : 74

### **Report Comments**

This report for ALS Technichem (HK) Pty Ltd work order reference HK0801012 supersedes any previous reports with this reference. The completion date of analysis is 24 Jan 2008. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for process purposes. Abbreviations: CAS number = Chemical Abstract Services number. LOR = Limit of reporting.

Specific comments for Work Order HK0801012: Sample(s) were picked up from client by ALS Technichem (HK) staff in a chilled condition.

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

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Signatory Position Authorised results for:-

Client : ERM HONG KONG

Work Order HK0801012



### **Quality Control - Laboratory Duplicate (DUP) Results**

Matrix Type: WATER				Duplicate (DUP) Results							
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	LOR	Units	Original Result	Duplicate Result	RPD (%)			
EA/ED: Physical and A	ggregate Properties (QC Lot:	579365)									
HK0801012-001	MPSME	EA025: Suspended Solids (SS)		1	mg/L	10	9	0.0			
HK0801012-013	MPB2 S ME	EA025: Suspended Solids (SS)		1	mg/L	8	9	0.0			
EA/ED: Physical and A	ggregate Properties (QC Lot:	579366)									
HK0801012-023	IMO1 B ME	EA025: Suspended Solids (SS)		1	mg/L	15	15	0.0			
HK0801012-045	C2 (NM5) M ME	EA025: Suspended Solids (SS)		1	mg/L	11	10	0.0			
EA/ED: Physical and A	ggregate Properties (QC Lot:	579367)									
HK0801012-057	MPB1 M MF	EA025: Suspended Solids (SS)		1	mg/L	9	8	14.2			
HK0801012-067	IMO1 S MF	EA025: Suspended Solids (SS)		1	mg/L	11	11	0.0			
EA/ED: Physical and A	ggregate Properties (QC Lot:	579368)									
HK0801012-077	IMO2 B MF	EA025: Suspended Solids (SS)		1	mg/L	9	10	14.5			
HK0801012-099	C3 (NM6) M MF	EA025: Suspended Solids (SS)		1	mg/L	10	9	0.0			

Matrix Type: WATER		Method Blank (MB) Results			Single Control Spike (SCS) and Duplicate Control Spike (DCS) Results						
••					Spike	Spike Re	covery (%)	Recovery	Limits (%)	RPL	Os (%)
Method: Analysis Description	CAS number	LOR	Units	Result	Concentration	scs	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Proper	ties (QCLot: 579365)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	107		85	115		
EA/ED: Physical and Aggregate Proper	ties (QCLot: 579366)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	99.5		85	115		
EA/ED: Physical and Aggregate Proper	ties (QCLot: 579367)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	97.0		85	115		
EA/ED: Physical and Aggregate Proper	ties (QCLot: 579368)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	96.0		85	115		

### **ALS Laboratory Group**

**ANALYICAL CHEMISTRY & TESTING SERVICES** 



#### **CERTIFICATE OF ANALYSIS**

Client : ERM HONG KONG Laboratory : ALS Technichem (HK) Pty Ltd Page : 1 of 4

Contact : MS KAREN LUI Contact : Alice Wong Work Order : HK0801057

Address : 21/F, LINCOLN HOUSE. Address : 11/F, Chung Shun Knitting Centre.

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HONG KONG

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Facsimile : 2723 5660 Facsimile : +852 2610 2021

Project : EM&A FOR THE PERMANENT AVIATION FUEL Quote number : --- Date received : 23 Jan 2008

FACILITY

Order number : ---- Date of issue : 28 Jan 2008

C-O-C number : --- No. of samples - Received : 74

Site : ---- - Analysed : **74** 

### **Report Comments**

This report for ALS Technichem (HK) Pty Ltd work order reference HK0801057 supersedes any previous reports with this reference. The completion date of analysis is 25 Jan 2008. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for process purposes. Abbreviations: CAS number = Chemical Abstract Services number. LOR = Limit of reporting.

Specific comments for Work Order HK0801057: Sample(s) were picked up from client by ALS Technichem (HK) staff in a chilled condition.

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

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Signatory Position Authorised results for:-

Client : ERM HONG KONG

Work Order HK0801057



### **Quality Control - Laboratory Duplicate (DUP) Results**

Matrix Type: WATER				Duplicate (DUP) Results							
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	LOR	Units	Original Result	Duplicate Result	RPD (%)			
EA/ED: Physical and A	ggregate Properties (QC Lot:	580390)									
HK0801057-001	MP S ME	EA025: Suspended Solids (SS)		1	mg/L	12	13	8.8			
HK0801057-013	MPB2 S ME	EA025: Suspended Solids (SS)		1	mg/L	13	12	7.8			
EA/ED: Physical and A	ggregate Properties (QC Lot:	580391)									
HK0801057-023	IMO1 B ME	EA025: Suspended Solids (SS)		1	mg/L	16	18	9.5			
HK0801057-045	C2 (NM5) M ME	EA025: Suspended Solids (SS)		1	mg/L	13	14	7.6			
EA/ED: Physical and A	ggregate Properties (QC Lot:	580392)									
HK0801057-057	MPB1 M MF	EA025: Suspended Solids (SS)		1	mg/L	11	12	0.0			
HK0801057-062	MPB2 S DUP MF	EA025: Suspended Solids (SS)		1	mg/L	10	11	0.0			
EA/ED: Physical and A	ggregate Properties (QC Lot:	580393)									
HK0801057-077	IMO2 B MF	EA025: Suspended Solids (SS)		1	mg/L	15	14	10.4			
HK0801057-099	C3 (NM6) M MF	EA025: Suspended Solids (SS)		1	mg/L	16	14	0.0			

Matrix Type: WATER		Method Blank (MB) Results			Single Control Spike (SCS) and Duplicate Control Spike (DCS) Results						
••					Spike	Spike Re	covery (%)	Recovery	Limits (%)	RPL	Os (%)
Method: Analysis Description	CAS number	LOR	Units	Result	Concentration	scs	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Proper	ties (QCLot: 580390)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	100		85	115		
EA/ED: Physical and Aggregate Proper	ties (QCLot: 580391)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	97.5		85	115		
EA/ED: Physical and Aggregate Proper	ties (QCLot: 580392)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	100		85	115		
EA/ED: Physical and Aggregate Proper	ties (QCLot: 580393)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	104		85	115		

### **ALS Laboratory Group**

ANALYICAL CHEMISTRY & TESTING SERVICES



#### **CERTIFICATE OF ANALYSIS**

Client : ERM HONG KONG Laboratory : ALS Technichem (HK) Pty Ltd Page : 1 of 4

Contact : MS KAREN LUI Contact : Alice Wong Work Order : HK0801058
Address : 21/F, LINCOLN HOUSE. Address : 11/F,, Chung Shun Knitting Centre.

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HONG KONG

E-mail : Karen.Lui@erm.com E-mail : Alice.Wong@alsenviro.com

Telephone : 2271 3000 Telephone : +852 2610 1044
Facsimile : 2723 5660 Facsimile : +852 2610 2021

Project : EM&A FOR THE PERMANENT AVIATION FUEL Quote number : ---- Date received : 24 Jan 2008

FACILITY

Order number : ---- Date of issue : 29 Jan 2008

C-O-C number : ---
No. of samples - Received : 74

Site : ---- - Analysed : 74

### **Report Comments**

This report for ALS Technichem (HK) Pty Ltd work order reference HK0801058 supersedes any previous reports with this reference. The completion date of analysis is 29 Jan 2008. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for process purposes. Abbreviations: CAS number = Chemical Abstract Services number. LOR = Limit of reporting.

Specific comments for Work Order HK0801058: Sample(s) were picked up from client by ALS Technichem (HK) staff in a chilled condition.

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

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Signatory Position Authorised results for:-

Client : ERM HONG KONG

Work Order HK0801058



# **Quality Control - Laboratory Duplicate (DUP) Results**

Matrix Type: WATER				Duplicate (DUP) Results							
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	LOR	Units	Original Result	Duplicate Result	RPD (%)			
EA/ED: Physical and A	ggregate Properties (QC Lot	: 580961)									
HK0801058-001	MP S ME	EA025: Suspended Solids (SS)		1	mg/L	17	16	0.0			
HK0801058-013	MPB2 S ME	EA025: Suspended Solids (SS)		1	mg/L	10	11	13.4			
EA/ED: Physical and A	ggregate Properties (QC Lot	: 580962)									
HK0801058-024	IMO1 B DUP ME	EA025: Suspended Solids (SS)		1	mg/L	14	13	8.6			
HK0801058-045	C2 (NM5) M ME	EA025: Suspended Solids (SS)		1	mg/L	13	14	9.6			
EA/ED: Physical and A	ggregate Properties (QC Lot	: 580963)									
HK0801058-057	MPB1 M MF	EA025: Suspended Solids (SS)		1	mg/L	10	9	0.0			
HK0801058-067	IMO1 S MF	EA025: Suspended Solids (SS)		1	mg/L	9	9	0.0			
EA/ED: Physical and A	ggregate Properties (QC Lot	: 580964)									
HK0801058-077	IMO2 B MF	EA025: Suspended Solids (SS)		1	mg/L	9	10	0.0			
HK0801058-099	C3 (NM6) M MF	EA025: Suspended Solids (SS)		1	mg/L	25	24	5.3			

Matrix Type: WATER		Method Blank (MB) Results			Single Control Spike (SCS) and Duplicate Control Spike (DCS) Results						
					Spike	Spike Red	covery (%)	Recovery	Limits (%)	RPI	Ds (%)
Method: Analysis Description	CAS number	LOR	Units	Result	Concentration	scs	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Proper	ties (QCLot: 580961)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	98.0		85	115		
EA/ED: Physical and Aggregate Proper	ties (QCLot: 580962)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	96.0		85	115		
EA/ED: Physical and Aggregate Proper	ties (QCLot: 580963)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	97.0		85	115		
EA/ED: Physical and Aggregate Proper	ties (QCLot: 580964)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	97.0		85	115		

### **ALS Laboratory Group**

ANALYICAL CHEMISTRY & TESTING SERVICES



#### **CERTIFICATE OF ANALYSIS**

Client : ERM HONG KONG Laboratory : ALS Technichem (HK) Pty Ltd Page : 1 of 4

Contact : MS KAREN LUI Contact : Alice Wong Work Order : HK0801155

Address : 21/F, LINCOLN HOUSE. Address : 11/F,, Chung Shun Knitting Centre.

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HONG KONG

Telephone : 2271 3000 Telephone : +852 2610 1044
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Project : EM&A FOR THE PERMANENT AVIATION FUEL Quote number : --- Date received : 25 Jan 2008

FACILITY

Order number : ---- Date of issue : 30 Jan 2008

C-O-C number : ---- No. of samples - Received : 74

Site : ---- - Analysed : **74** 

### **Report Comments**

This report for ALS Technichem (HK) Pty Ltd work order reference HK0801155 supersedes any previous reports with this reference. The completion date of analysis is 29 Jan 2008. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for process purposes. Abbreviations: CAS number = Chemical Abstract Services number. LOR = Limit of reporting.

Specific comments for Work Order HK0801155: Sample(s) were picked up from client by ALS Technichem (HK) staff in a chilled condition.

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

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Signatory Position Authorised results for:-

Client : ERM HONG KONG

Work Order HK0801155



# **Quality Control - Laboratory Duplicate (DUP) Results**

Matrix Type: WATER				Duplicate (DUP) Results						
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	LOR	Units	Original Result	Duplicate Result	RPD (%)		
EA/ED: Physical and A	ggregate Properties (QC Lot: 5	80987)								
HK0801155-001	MP S ME	EA025: Suspended Solids (SS)		1	mg/L	14	15	8.1		
HK0801155-013	MPB2 S ME	EA025: Suspended Solids (SS)		1	mg/L	10	9	13.6		
EA/ED: Physical and A	ggregate Properties (QC Lot: 5	80988)								
HK0801155-024	IMO1 B DUP ME	EA025: Suspended Solids (SS)		1	mg/L	8	8	0.0		
HK0801155-046	C2 (NM5) M DUP ME	EA025: Suspended Solids (SS)		1	mg/L	8	9	0.0		
EA/ED: Physical and A	ggregate Properties (QC Lot: 5	80989)								
HK0801155-058	MPB1 M DUP MF	EA025: Suspended Solids (SS)		1	mg/L	9	10	10.3		
HK0801155-067	IMO1 S MF	EA025: Suspended Solids (SS)		1	mg/L	11	10	12.7		
EA/ED: Physical and A	ggregate Properties (QC Lot: 5	80990)								
HK0801155-077	IMO2 B MF	EA025: Suspended Solids (SS)		1	mg/L	11	10	12.8		
HK0801155-099	C3 (NM6) M MF	EA025: Suspended Solids (SS)		1	mg/L	12	13	0.0		

Matrix Type: WATER		Method Blank (MB) Results			Single Control Spike (SCS) and Duplicate Control Spike (DCS) Results						
					Spike	Spike Red	covery (%)	Recovery	Limits (%)	RPL	Os (%)
Method: Analysis Description	CAS number	LOR	Units	Result	Concentration	scs	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Proper	rties (QCLot: 580987)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	93.0		85	115		
EA/ED: Physical and Aggregate Proper	rties (QCLot: 580988)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	107		85	115		
EA/ED: Physical and Aggregate Proper	rties (QCLot: 580989)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	95.5		85	115		
EA/ED: Physical and Aggregate Proper	rties (QCLot: 580990)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	99.0		85	115		

### **ALS Laboratory Group**

ANALYICAL CHEMISTRY & TESTING SERVICES



### **CERTIFICATE OF ANALYSIS**

Client : ERM HONG KONG Laboratory : ALS Technichem (HK) Pty Ltd Page : 1 of 4

Contact : MS KAREN LUI Contact : Alice Wong Work Order : HK0801218
Address : 21/F, LINCOLN HOUSE. Address : 11/F,, Chung Shun Knitting Centre.

: 21/F, LINCOLN HOUSE, Address : 11/F., Chung Shun Knitting Centre, 979 KING`S ROAD, 1 - 3 Wing Yip Street,

TAIKOO PLACE, ISLAND EAST, QUARRY BAY Kwai Chung, N.T., Hong Kong

HONG KONG

Telephone : 2271 3000 Telephone : +852 2610 1044
Facsimile : 2723 5660 Facsimile : +852 2610 2021

Project : EM&A FOR THE PERMANENT AVIATION FUEL Quote number : ---- Date received : 26 Jan 2008

FACILITY

Order number : ---- Date of issue : 31 Jan 2008

C-O-C number : ---- No. of samples - Received : 74

Site : ---- - Analysed : 74

### **Report Comments**

This report for ALS Technichem (HK) Pty Ltd work order reference HK0801218 supersedes any previous reports with this reference. The completion date of analysis is 29 Jan 2008. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for process purposes. Abbreviations: CAS number = Chemical Abstract Services number. LOR = Limit of reporting.

Specific comments for Work Order HK0801218: Sample(s) were picked up from client by ALS Technichem (HK) staff in a chilled condition.

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

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of Hong Kong. Chapter 553. Section 6.

Signatory Position Authorised results for:-

Fung Lim Chee, Richard General Manager Inorganics

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

Client : ERM HONG KONG

Work Order HK0801218



# **Quality Control - Laboratory Duplicate (DUP) Results**

Matrix Type: WATER				Duplicate (DUP) Results					
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	LOR	Units	Original Result	Duplicate Result	RPD (%)	
EA/ED: Physical and A	ggregate Properties (QC Lo	t: 581652)							
HK0801218-001	MPSME	EA025: Suspended Solids (SS)		1	mg/L	18	15	15.3	
HK0801218-013	MPB2 S ME	EA025: Suspended Solids (SS)		1	mg/L	8	8	0.0	
EA/ED: Physical and A	ggregate Properties (QC Lo	t: 581653)							
HK0801218-023	IMO1 B ME	EA025: Suspended Solids (SS)		1	mg/L	21	22	4.9	
HK0801218-045	C2 (NM5) M ME	EA025: Suspended Solids (SS)		1	mg/L	24	28	17.3	
EA/ED: Physical and A	ggregate Properties (QC Lo	t: 581655)							
HK0801218-057	MPB1 M MF	EA025: Suspended Solids (SS)		1	mg/L	9	10	0.0	
HK0801218-067	IMO1 S MF	EA025: Suspended Solids (SS)		1	mg/L	17	15	12.9	
EA/ED: Physical and A	ggregate Properties (QC Lo	t: 581657)							
HK0801218-077	IMO2 B MF	EA025: Suspended Solids (SS)		1	mg/L	19	17	10.5	
HK0801218-099	C3 (NM6) M MF	EA025: Suspended Solids (SS)		1	mg/L	12	15	16.8	

Matrix Type: WATER		Method Blank (MB) Results			Single Control Spike (SCS) and Duplicate Control Spike (DCS) Results						
					Spike	Spike Red	covery (%)	Recovery	Limits (%)	RPL	Os (%)
Method: Analysis Description	CAS number	LOR	Units	Result	Concentration	scs	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Proper	ties (QCLot: 581652)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	93.5		85	115		
EA/ED: Physical and Aggregate Proper	ties (QCLot: 581653)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	104		85	115		
EA/ED: Physical and Aggregate Proper	ties (QCLot: 581655)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	105		85	115		
EA/ED: Physical and Aggregate Proper	ties (QCLot: 581657)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	94.0		85	115		

### **ALS Laboratory Group**

ANALYICAL CHEMISTRY & TESTING SERVICES



#### **CERTIFICATE OF ANALYSIS**

Client : ERM HONG KONG Laboratory : ALS Technichem (HK) Pty Ltd Page : 1 of 4

Contact : MS KAREN LUI Contact : Alice Wong Work Order : HK0801320
Address : 21/F, LINCOLN HOUSE. Address : 11/F,, Chung Shun Knitting Centre.

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HONG KONG

Telephone : 2271 3000 Telephone : +852 2610 1044
Facsimile : 2723 5660 Facsimile : +852 2610 2021

Project : EM&A FOR THE PERMANENT AVIATION FUEL Quote number : ---- Date received : 27 Jan 2008

FACILITY

Order number : ---- Date of issue : 1 Feb 2008

C-O-C number : ---- No. of samples - Received : 74

Site : ---- - Analysed : 74

### **Report Comments**

This report for ALS Technichem (HK) Pty Ltd work order reference HK0801320 supersedes any previous reports with this reference. The completion date of analysis is 30 Jan 2008. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for process purposes. Abbreviations: CAS number = Chemical Abstract Services number. LOR = Limit of reporting.

Specific comments for Work Order HK0801320: Sample(s) were picked up from client by ALS Technichem (HK) staff in a chilled condition.

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

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Signatory Position Authorised results for:-

Client : ERM HONG KONG

Work Order HK0801320



# **Quality Control - Laboratory Duplicate (DUP) Results**

Matrix Type: WATER				Duplicate (DUP) Results					
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	LOR	Units	Original Result	Duplicate Result	RPD (%)	
EA/ED: Physical and Ag	gregate Properties (QC Lot: 5830)	38)							
HK0801320-001	MP S ME	EA025: Suspended Solids (SS)		1	mg/L	12	10	25.3	
HK0801320-013	MPB2 S ME	EA025: Suspended Solids (SS)		1	mg/L	12	15	20.7	
EA/ED: Physical and Ag	gregate Properties (QC Lot: 5830	39)							
HK0801320-023	IMO1 B ME	EA025: Suspended Solids (SS)		1	mg/L	18	17	0.0	
HK0801320-046	C2 (NM5) M DUP ME	EA025: Suspended Solids (SS)		1	mg/L	6	7	19.5	
EA/ED: Physical and Ag	gregate Properties (QC Lot: 58304	10)							
HK0801320-057	MPB1 M MF	EA025: Suspended Solids (SS)		1	mg/L	8	8	0.0	
HK0801320-067	IMO1 S MF	EA025: Suspended Solids (SS)		1	mg/L	10	12	13.8	
EA/ED: Physical and Ag	gregate Properties (QC Lot: 58304	11)							
HK0801320-077	IMO2 B MF	EA025: Suspended Solids (SS)		1	mg/L	16	18	8.4	
HK0801320-099	C3 (NM6) M MF	EA025: Suspended Solids (SS)		1	mg/L	12	11	9.2	

Matrix Type: WATER		Method Blank (MB) Results			Single Control Spike (SCS) and Duplicate Control Spike (DCS) Results							
					Spike	Spike Red	overy (%)	Recovery	Limits (%)	RPD	Os (%)	
Method: Analysis Description	CAS number	LOR	Units	Result	Concentration	scs	DCS	Low	High	Value	Control Limit	
EA/ED: Physical and Aggregate Propert	ies (QCLot: 583038)											
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	93.0		85	115			
EA/ED: Physical and Aggregate Propert	ies (QCLot: 583039)											
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	101		85	115			
EA/ED: Physical and Aggregate Propert	ies (QCLot: 583040)											
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	101		85	115			
EA/ED: Physical and Aggregate Propert	ies (QCLot: 583041)											
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	107		85	115			

### **ALS Laboratory Group**

ANALYICAL CHEMISTRY & TESTING SERVICES



#### **CERTIFICATE OF ANALYSIS**

Client **ERM HONG KONG** : ALS Technichem (HK) Pty Ltd Laboratory Page : 1 of 5

MS KAREN LUI Work Order Contact Contact : Alice Wong HK0801321

: 21/F. LINCOLN HOUSE. Address : 11/F., Chung Shun Knitting Centre. 979 KING'S ROAD, 1 - 3 Wing Yip Street,

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HONG KONG

: Alice.Wong@alsenviro.com E-mail Karen.Lui@erm.com E-mail

2271 3000 +852 2610 1044 Telephone Telephone 2723 5660 Facsimile +852 2610 2021 Facsimile

Project : EM&A FOR THE PERMANENT AVIATION FUEL Quote number Date received · 28 Jan 2008

FACILITY

Date of issue : 1 Feb 2008 Order number

102 C-O-C number No. of samples Received Site

Analysed 102

### **Report Comments**

Address

This report for ALS Technichem (HK) Pty Ltd work order reference HK0801321 supersedes any previous reports with this reference. The completion date of analysis is 1 Feb 2008. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for process purposes. Abbreviations: CAS number = Chemical Abstract Services number. LOR = Limit of reporting.

of Hong Kong. Chapter 553. Section 6.

Sample(s) were picked up from client by ALS Technichem (HK) staff in a chilled condition. Specific comments for Work Order HK0801321:

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

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> Signatory Position Authorised results for:-

Client : ERM HONG KONG

Work Order HK0801321



# **Quality Control - Laboratory Duplicate (DUP) Results**

Matrix Type: WATER				Duplicate (DUP) Results					
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	LOR	Units	Original Result	Duplicate Result	RPD (%)	
EA/ED: Physical and Ag	gregate Properties (QC Lot: 58341	6)							
HK0801321-001	MP S ME	EA025: Suspended Solids (SS)		1	mg/L	9	8	0.0	
HK0801321-011	MPB1 B ME	EA025: Suspended Solids (SS)		1	mg/L	6	6	0.0	
EA/ED: Physical and Ag	gregate Properties (QC Lot: 58341	7)							
HK0801321-021	IMO1 M ME	EA025: Suspended Solids (SS)		1	mg/L	5	6	0.0	
HK0801321-031	IMO3 S ME	EA025: Suspended Solids (SS)		1	mg/L	12	13	0.0	
EA/ED: Physical and Ag	gregate Properties (QC Lot: 58341	В)							
HK0801321-041	IMO4 B ME	EA025: Suspended Solids (SS)		1	mg/L	9	8	0.0	
HK0801321-051	MP M MF	EA025: Suspended Solids (SS)		1	mg/L	9	9	0.0	
EA/ED: Physical and Ag	gregate Properties (QC Lot: 58341	9)							
HK0801321-061	MPB2 S MF	EA025: Suspended Solids (SS)		1	mg/L	5	5	0.0	
HK0801321-071	IMO1 B MF	EA025: Suspended Solids (SS)		1	mg/L	16	17	8.3	
EA/ED: Physical and Ag	gregate Properties (QC Lot: 58342	0)							
HK0801321-081	IMO3 M MF	EA025: Suspended Solids (SS)		1	mg/L	8	7	15.3	
HK0801321-091	C1 (NM3) S MF	EA025: Suspended Solids (SS)		1	mg/L	7	8	0.0	
EA/ED: Physical and Ag	gregate Properties (QC Lot: 58342	1)							
HK0801321-101	C3 (NM6) B MF	EA025: Suspended Solids (SS)		1	mg/L	9	9	0.0	

Matrix Type: WATER		Method Blank (MB) Results				Single Co	ntrol Spike (SCS) and Du	plicate Con	trol Spike (D	CS) Results	
					Spike	Spike Re	covery (%)	Recovery	Limits (%)	RPD	9s (%)
Method: Analysis Description	CAS number	LOR	Units	Result	Concentration	scs	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Propert	ties (QCLot: 583416)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	100		85	115		
EA/ED: Physical and Aggregate Propert	ties (QCLot: 583417)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	98.5		85	115		
EA/ED: Physical and Aggregate Propert	ties (QCLot: 583418)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	97.0		85	115		
EA/ED: Physical and Aggregate Propert	ties (QCLot: 583419)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	94.0		85	115		
EA/ED: Physical and Aggregate Propert	ties (QCLot: 583420)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	98.5		85	115		
EA/ED: Physical and Aggregate Propert	ties (QCLot: 583421)									·	·
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	106		85	115		

### **ALS Laboratory Group**

ANALYICAL CHEMISTRY & TESTING SERVICES



### **CERTIFICATE OF ANALYSIS**

Client **ERM HONG KONG** : ALS Technichem (HK) Pty Ltd Laboratory Page : 1 of 5

MS KAREN LUI Work Order Contact Contact : Alice Wong HK0801323 Address

: 21/F. LINCOLN HOUSE. Address : 11/F., Chung Shun Knitting Centre. 979 KING'S ROAD, 1 - 3 Wing Yip Street,

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HONG KONG

: Alice.Wong@alsenviro.com E-mail Karen.Lui@erm.com E-mail

2271 3000 +852 2610 1044 Telephone Telephone 2723 5660 Facsimile +852 2610 2021 Facsimile

Project : EM&A FOR THE PERMANENT AVIATION FUEL Quote number Date received · 29 Jan 2008

FACILITY

Date of issue : 1 Feb 2008 Order number

98 C-O-C number No. of samples Received Site

Analysed 98

### **Report Comments**

This report for ALS Technichem (HK) Pty Ltd work order reference HK0801323 supersedes any previous reports with this reference. The completion date of analysis is 31 Jan 2008. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for process purposes. Abbreviations: CAS number = Chemical Abstract Services number. LOR = Limit of reporting.

of Hong Kong. Chapter 553. Section 6.

Sample(s) were picked up from client by ALS Technichem (HK) staff in a chilled condition. Specific comments for Work Order HK0801323:

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

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> Signatory Position Authorised results for:-

Client : ERM HONG KONG

Work Order HK0801323



# **Quality Control - Laboratory Duplicate (DUP) Results**

Matrix Type: WATER						Duplicate (DUP)	Results	
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	LOR	Units	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and A	ggregate Properties (QC Lot:	583428)						
HK0801323-001	MP S ME	EA025: Suspended Solids (SS)		1	mg/L	9	9	0.0
HK0801323-013	MPB2 S ME	EA025: Suspended Solids (SS)		1	mg/L	10	9	18.0
EA/ED: Physical and A	ggregate Properties (QC Lot:	583429)						
HK0801323-023	IMO1 B ME	EA025: Suspended Solids (SS)		1	mg/L	10	9	0.0
HK0801323-033	IMO3 M ME	EA025: Suspended Solids (SS)		1	mg/L	10	8	14.8
EA/ED: Physical and A	ggregate Properties (QC Lot:	583430)						
HK0801323-043	C2 (NM5) S ME	EA025: Suspended Solids (SS)		1	mg/L	5	6	0.0
HK0801323-055	MPB1 S MF	EA025: Suspended Solids (SS)		1	mg/L	9	9	0.0
EA/ED: Physical and A	ggregate Properties (QC Lot:	583431)						
HK0801323-065	MPB2 B MF	EA025: Suspended Solids (SS)		1	mg/L	6	7	0.0
HK0801323-076	IMO2 M DUP MF	EA025: Suspended Solids (SS)		1	mg/L	8	9	16.1
EA/ED: Physical and A	ggregate Properties (QC Lot:	583432)						
HK0801323-085	IMO4 S MF	EA025: Suspended Solids (SS)		1	mg/L	7	8	0.0
HK0801323-096	C1 (NM3) B DUP MF	EA025: Suspended Solids (SS)		1	mg/L	8	9	13.6

Matrix Type: WATER		Method Blank (MB) Results			Single Control Spike (SCS) and Duplicate Control Spike (DCS) Results						
					Spike	Spike Red	covery (%)	Recovery	Limits (%)	RPL	Os (%)
Method: Analysis Description	CAS number	LOR	Units	Result	Concentration	scs	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Prope	rties (QCLot: 583428)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	98.5		85	115		
EA/ED: Physical and Aggregate Prope	rties (QCLot: 583429)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	106		85	115		
EA/ED: Physical and Aggregate Prope	rties (QCLot: 583430)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	100		85	115		
EA/ED: Physical and Aggregate Prope	rties (QCLot: 583431)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	97.0		85	115		
EA/ED: Physical and Aggregate Prope	rties (QCLot: 583432)				<u> </u>		<u> </u>				
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	97.5		85	115		

### **ALS Laboratory Group**

ANALYICAL CHEMISTRY & TESTING SERVICES



#### **CERTIFICATE OF ANALYSIS**

Client : ERM HONG KONG Laboratory : ALS Technichem (HK) Pty Ltd Page : 1 of 5

Contact : MS KAREN LUI Contact : Alice Wong Work Order : HK0801386

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Project : EM&A FOR THE PERMANENT AVIATION FUEL Quote number : ---- Date received : 30 Jan 2008

FACILITY

Order number : ---- Date of issue : 5 Feb 2008

C-O-C number : ---- No. of samples - Received : 98

Site : ---- - Analysed : 98

### **Report Comments**

Address

This report for ALS Technichem (HK) Pty Ltd work order reference HK0801386 supersedes any previous reports with this reference. The completion date of analysis is 1 Feb 2008. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for process purposes. Abbreviations: CAS number = Chemical Abstract Services number. LOR = Limit of reporting.

of Hong Kong. Chapter 553. Section 6.

Specific comments for Work Order HK0801386: Sample(s) were picked up from client by ALS Technichem (HK) staff in a chilled condition.

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

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Signatory Position Authorised results for:-

Fung Lim Chee, Richard General Manager Inorganics

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

Client : ERM HONG KONG

Work Order HK0801386



# **Quality Control - Laboratory Duplicate (DUP) Results**

Matrix Type: WATER						Duplicate (DUP)	Results	
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	LOR	Units	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and A	aggregate Properties (QC Lo	t: 584542)						
HK0801386-001	MP S ME	EA025: Suspended Solids (SS)		1	mg/L	6	7	20.0
HK0801386-013	MPB2 S ME	EA025: Suspended Solids (SS)		1	mg/L	8	8	0.0
EA/ED: Physical and A	aggregate Properties (QC Lo	t: 584544)						
HK0801386-023	IMO1 B ME	EA025: Suspended Solids (SS)		1	mg/L	6	5	0.0
HK0801386-033	IMO3 M ME	EA025: Suspended Solids (SS)		1	mg/L	7	7	0.0
EA/ED: Physical and A	aggregate Properties (QC Lo	t: 584546)						
HK0801386-041	IMO4 B ME	EA025: Suspended Solids (SS)		1	mg/L	8	7	0.0
HK0801386-055	MPB1 S MF	EA025: Suspended Solids (SS)		1	mg/L	8	8	0.0
EA/ED: Physical and A	aggregate Properties (QC Lot	t: 584547)						
HK0801386-065	MPB2 B MF	EA025: Suspended Solids (SS)		1	mg/L	8	7	0.0
HK0801386-075	IMO2 M MF	EA025: Suspended Solids (SS)		1	mg/L	8	7	17.9
EA/ED: Physical and A	aggregate Properties (QC Lo	t: 584548)						<u> </u>
HK0801386-085	IMO4 S MF	EA025: Suspended Solids (SS)		1	mg/L	5	6	0.0
HK0801386-095	C1 (NM3) B MF	EA025: Suspended Solids (SS)		1	mg/L	8	9	11.7

Matrix Type: WATER		Method Blank (MB) Results			Single Control Spike (SCS) and Duplicate Control Spike (DCS) Results						
					Spike	Spike Re	covery (%)	Recovery	Limits (%)	RPD	Os (%)
Method: Analysis Description	CAS number	LOR	Units	Result	Concentration	scs	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Proper	ties (QCLot: 584542)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	97.5		85	115		
EA/ED: Physical and Aggregate Proper	ties (QCLot: 584544)			,							
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	107		85	115		
EA/ED: Physical and Aggregate Proper	ties (QCLot: 584546)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	102		85	115		
EA/ED: Physical and Aggregate Proper	ties (QCLot: 584547)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	102		85	115		
EA/ED: Physical and Aggregate Proper	ties (QCLot: 584548)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	108		85	115		

### **ALS Laboratory Group**

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#### **CERTIFICATE OF ANALYSIS**

Client : ERM HONG KONG Laboratory : ALS Technichem (HK) Pty Ltd Page : 1 of 5

Contact : MS KAREN LUI Contact : Alice Wong Work Order : HK0801453
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Project : EM&A FOR THE PERMANENT AVIATION FUEL Quote number : ---- Date received : 31 Jan 2008

FACILITY

Order number : ---- Date of issue : 5 Feb 2008

C-O-C number : ---
No. of samples - Received : 98

Site : ---- - Analysed : 98

### **Report Comments**

This report for ALS Technichem (HK) Pty Ltd work order reference HK0801453 supersedes any previous reports with this reference. The completion date of analysis is 4 Feb 2008. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for process purposes. Abbreviations: CAS number = Chemical Abstract Services number. LOR = Limit of reporting.

of Hong Kong. Chapter 553. Section 6.

Specific comments for Work Order HK0801453: Sample(s) were picked up from client by ALS Technichem (HK) staff in a chilled condition.

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

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approval from ALS Technichem (HK) Pty Ltd.

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Signatory Position Authorised results for:-

Client : ERM HONG KONG

Work Order HK0801453



# **Quality Control - Laboratory Duplicate (DUP) Results**

Matrix Type: WATER					Duplicate (DUP) Results						
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	LOR	Units	Original Result	Duplicate Result	RPD (%)			
EA/ED: Physical and Aggregate Properties (QC Lot: 585016)											
HK0801453-001	MP S ME	EA025: Suspended Solids (SS)		1	mg/L	7	7	0.0			
HK0801453-013	MPB2 S ME	EA025: Suspended Solids (SS)		1	mg/L	3	3	0.0			
EA/ED: Physical and Ago	regate Properties (QC Lot:	585017)									
HK0801453-023	IMO1 B ME	EA025: Suspended Solids (SS)		1	mg/L	4	4	0.0			
HK0801453-035	IMO3 B ME	EA025: Suspended Solids (SS)		1	mg/L	6	6	0.0			
EA/ED: Physical and Ago	regate Properties (QC Lot:	585018)									
HK0801453-043	C2 (NM5) S ME	EA025: Suspended Solids (SS)		1	mg/L	5	5	0.0			
HK0801453-055	MPB1 S MF	EA025: Suspended Solids (SS)		1	mg/L	3	3	0.0			
EA/ED: Physical and Ago	regate Properties (QC Lot:	585019)									
HK0801453-068	IMO1 S DUP MF	EA025: Suspended Solids (SS)		1	mg/L	3	3	0.0			
HK0801453-075	IMO2 M MF	EA025: Suspended Solids (SS)		1	mg/L	14	13	7.2			
EA/ED: Physical and Age	gregate Properties (QC Lot:	585020)									
HK0801453-085	IMO4 S MF	EA025: Suspended Solids (SS)		1	mg/L	4	4	0.0			
HK0801453-095	C1 (NM3) B MF	EA025: Suspended Solids (SS)		1	mg/L	4	3	0.0			

Matrix Type: WATER		Method Blank (MB) Results			Single Control Spike (SCS) and Duplicate Control Spike (DCS) Results						
					Spike	Spike Re	covery (%)	Recovery	Limits (%)	RPD	)s (%)
Method: Analysis Description	CAS number	LOR	Units	Result	Concentration	scs	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Proper	rties (QCLot: 585016)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	106		85	115		
EA/ED: Physical and Aggregate Proper	rties (QCLot: 585017)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	98.5		85	115		
EA/ED: Physical and Aggregate Proper	rties (QCLot: 585018)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	93.5		85	115		
EA/ED: Physical and Aggregate Proper	rties (QCLot: 585019)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	100		85	115		
EA/ED: Physical and Aggregate Proper	rties (QCLot: 585020)									<u> </u>	<u> </u>
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	100		85	115		