

## Certificate of Analysis

Lubor Hon  
Level 3, 2 Elizabeth Plaza  
North Sydney  
NSW 2060



NATA Accredited  
Accreditation Number 1261  
Site Number 1254

Accredited for compliance with ISO/IEC 17025.  
The results of the tests, calibrations and/or  
measurements included in this document are traceable  
to Australian/national standards.

Attention: Lubor Hon

Report 312506-A  
Client Reference SORBY HILLS  
Received Date Sep 19, 2011

Client Sample ID			DTS 1	DTS 2	DTS 3	DTS 4
Sample Matrix			Dust	Dust	Dust	Dust
mgt-LabMark Sample No.			Deposition	Deposition	Deposition	Deposition
Date Sampled			M11-Se09261	M11-Se09262	M11-Se09263	M11-Se09264
Test/Reference	LOR	Unit	Aug 31, 2011	Aug 31, 2011	Aug 31, 2011	Aug 31, 2011
Dust Deposition						
Soluble Solids	0.1	g/m2/mth	1.3	2.0	1.1	1.2
Total Solids	0.1	g/m2/mth	1.7	2.3	1.4	1.4
Ash	0.1	g/m2/mth	< 0.1	< 0.1	< 0.1	< 0.1
Insoluble Solids	0.1	g/m2/mth	0.4	0.3	0.3	0.2
Volume (total)	0.1	mL	200	200	200	200

<b>Client Sample ID</b>			<b>DTS 5</b>	<b>DTS 6</b>
<b>Sample Matrix</b>			<b>Dust</b>	<b>Dust</b>
<b>mgt-LabMark Sample No.</b>			<b>Deposition</b>	<b>Deposition</b>
<b>Date Sampled</b>			<b>M11-Se09265</b>	<b>M11-Se09266</b>
<b>Test/Reference</b>	LOR	Unit	<b>Aug 31, 2011</b>	<b>Aug 31, 2011</b>
<b>Dust Deposition</b>				
Soluble Solids	0.1	g/m2/mth	0.5	< 0.1
Total Solids	0.1	g/m2/mth	0.6	0.3
Ash	0.1	g/m2/mth	< 0.1	0.1
Insoluble Solids	0.1	g/m2/mth	0.1	0.3
Volume (total)	0.1	mL	200	200

**Company Name:** Kimberley Metals Limited  
**Address:** Level 3, 2 Elizabeth Plaza  
North Sydney  
NSW 2060

**Order No.:**  
**Report #:** 312506  
**Phone:**  
**Fax:** 0299272050

**Received:** Sep 19, 2011 8:42 AM  
**Due:** Oct 3, 2011 4:00 PM  
**Priority:** 10 Day  
**Contact name:** Lubor Hon

**Client Job No.:** SORBY HILLS

**mgt-LabMark Client Manager:** Natalie Krasselt

Sample Detail					Dust Deposition
Laboratory where analysis is conducted					
Melbourne Laboratory - NATA Site #1261					X
Sydney Laboratory - NATA Site #1645					
Sample ID	Sample Date	Sampling Time	Matrix	LAB ID	
DTS 1	Aug 31, 2011		Dust Deposition	M11-Se09261	X
DTS 2	Aug 31, 2011		Dust Deposition	M11-Se09262	X
DTS 3	Aug 31, 2011		Dust Deposition	M11-Se09263	X
DTS 4	Aug 31, 2011		Dust Deposition	M11-Se09264	X
DTS 5	Aug 31, 2011		Dust Deposition	M11-Se09265	X
DTS 6	Aug 31, 2011		Dust Deposition	M11-Se09266	X

## mgt-LabMark Internal Quality Control Review

### General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Actual PQLs are matrix dependant. Quoted PQLs may be raised where sample extracts are diluted due to interferences.
4. Results are uncorrected for matrix spikes or surrogate recoveries.
5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
6. Samples were analysed on an 'as received' basis.
7. This report replaces any interim results previously issued.

### Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001)

For samples received on the last day of holding time, notification of testing requirements should have been received at least

6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgment

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

**\*\*NOTE:** pH duplicates are reported as a range NOT as an RPD

### UNITS

**mg/kg:** milligrams per Kilogram

**mg/L:** milligrams per litre

**µg/L:** micrograms per litre

**ppm:** Parts per million

**ppb:** Parts per billion

**%:** Percentage

**org/100mL:** Organisms per 100 millilitres

**NTU:** Nephelometric Turbidity Units

### TERMS

<b>Dry:</b>	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
<b>LOR:</b>	Limit Of Reporting.
<b>SPIKE:</b>	Addition of the analyte to the sample and reported as percentage recovery.
<b>RPD:</b>	Relative Percent Difference between two Duplicate pieces of analysis.
<b>LCS:</b>	Laboratory Control Sample - reported as percent recovery.
<b>CRM:</b>	Certified Reference Material - reported as percent recovery.
<b>Method Blank:</b>	In the case of solid samples these are performed on laboratory certified clean sands. In the case of water samples these are performed on de-ionised water.
<b>Surr - Surrogate:</b>	The addition of a like compound to the analyte target and reported as percentage recovery.
<b>Duplicate:</b>	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
<b>Batch Duplicate:</b>	A second piece of analysis from a sample outside of the client's batch of samples but run within the laboratory batch of analysis.
<b>Batch SPIKE:</b>	Spike recovery reported on a sample from outside of the client's batch of samples but run within the laboratory batch of analysis.
<b>USEPA:</b>	U.S Environmental Protection Agency
<b>APHA:</b>	American Public Health Association
<b>ASLP:</b>	Australian Standard Leaching Procedure (AS4439.3)
<b>TCLP:</b>	Toxicity Characteristic Leaching Procedure
<b>COC:</b>	Chain Of Custody
<b>SRA:</b>	Sample Receipt Advice
<b>CP:</b>	Client Parent - QC was performed on samples pertaining to this report
<b>NCP:</b>	Non-Client Parent - QC was performed on samples not pertaining to this report, however QC is representative of the sequence or batch that client samples were analysed within

### QC - ACCEPTANCE CRITERIA

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries : Recoveries must lie between 50-150% - Phenols 20-130%.

### QC DATA GENERAL COMMENTS

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2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxophene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxophene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Arochlor 1260 in Matrix Spikes and LCS's.
9. For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample
10. Duplicate RPD's are calculated from raw analytical data thus it is possible to have two sets of data below the LOR with a positive RPD - eg: LOR 0.1, Result A = <0.1 (raw data is 0.02) & Result B = <0.1 (raw data is 0.03) resulting in a RPD of 40% calculated from the raw data.

## Comments

### Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Organic samples had Teflon liners	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

### Authorised By

Natalie Krasselt Client Services

NATA Signatories:

Huong Le Senior Analyst-Inorganic (VIC)



**Michael Wright**

**National Technical Manager**

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

\* Indicates NATA accreditation does not cover the performance of this service

Uncertainty data is available on request

mgt-LabMark shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall mgt-LabMark be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.

Sorby Management Pty Ltd  
PO Box 2660  
Kununurra  
WA 6743

Attention: Lubor Hon

Report  
Client Reference  
Received Date

315719-A  
SORBY HILLS  
Oct 19, 2011

## Certificate of Analysis



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Accreditation Number 1261  
Site Number 1254

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The results of the tests, calibrations and/or  
measurements included in this document are traceable  
to Australian/national standards.

Client Sample ID			DTS 1	DTS 2	DTS 3	DTS 4
Sample Matrix			Dust	Dust	Dust	Dust
mgt-LabMark Sample No.			Deposition	Deposition	Deposition	Deposition
Date Sampled			M11-Oc09219	M11-Oc09220	M11-Oc09221	M11-Oc09222
Test/Reference	LOR	Unit	Oct 03, 2011	Oct 03, 2011	Oct 03, 2011	Oct 03, 2011
Dust Deposition						
Soluble Solids	0.1	g/m2/mth	1.3	1.9	1.8	< 0.1
Total Solids	0.1	g/m2/mth	1.3	2.0	1.9	0.7
Ash	0.1	g/m2/mth	1.8	2.4	11	83
Insoluble Solids	0.1	g/m2/mth	< 0.1	< 0.1	< 0.1	0.7
Volume (total)	0.1	mL	200	200	200	200

<b>Client Sample ID</b>			<b>DTS 5</b>	<b>DTS 6</b>
<b>Sample Matrix</b>			<b>Dust</b>	<b>Dust</b>
<b>mgt-LabMark Sample No.</b>			<b>Deposition</b>	<b>Deposition</b>
<b>Date Sampled</b>			<b>M11-Oc09223</b>	<b>M11-Oc09224</b>
<b>Test/Reference</b>	<b>LOR</b>	<b>Unit</b>	<b>Oct 03, 2011</b>	<b>Oct 03, 2011</b>
<b>Dust Deposition</b>				
Soluble Solids	0.1	g/m2/mth	2.1	1.7
Total Solids	0.1	g/m2/mth	2.1	1.8
Ash	0.1	g/m2/mth	4.7	0.6
Insoluble Solids	0.1	g/m2/mth	< 0.1	< 0.1
Volume (total)	0.1	mL	200	200

**Company Name:** Sorby Management Pty Ltd  
**Address:** PO Box 2660  
Kununurra  
WA 6743

**Order No.:**  
**Report #:** 315719  
**Phone:**  
**Fax:**

**Received:** Oct 19, 2011 8:51 AM  
**Due:** Nov 3, 2011 4:00 PM  
**Priority:** 10 Day  
**Contact name:** Lubor Hon

**Client Job No.:** SORBY HILLS

**mgt-LabMark Client Manager: Adrian**

Sample Detail					Ash	Insoluble Solids	Suspended Solids	Total Particulates
Laboratory where analysis is conducted								
Melbourne Laboratory - NATA Site #1261					X	X	X	X
Sydney Laboratory - NATA Site #1645								
Sample ID	Sample Date	Sampling Time	Matrix	LAB ID				
DTS 1	Oct 03, 2011		Dust Deposition	M11-Oc09219	X	X	X	X
DTS 2	Oct 03, 2011		Dust Deposition	M11-Oc09220	X	X	X	X
DTS 3	Oct 03, 2011		Dust Deposition	M11-Oc09221	X	X	X	X
DTS 4	Oct 03, 2011		Dust Deposition	M11-Oc09222	X	X	X	X
DTS 5	Oct 03, 2011		Dust Deposition	M11-Oc09223	X	X	X	X
DTS 6	Oct 03, 2011		Dust Deposition	M11-Oc09224	X	X	X	X



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9. For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample
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## Comments

### Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Organic samples had Teflon liners	No
Sample containers for volatile analysis received with minimal headspace	N/A
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

### Authorised By

Andrew Thexton                      Client Services

NATA Signatories:  
Huong Le                      Senior Analyst-Inorganic (VIC)



**Michael Wright**

**National Technical Manager**

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

\* Indicates NATA accreditation does not cover the performance of this service

Uncertainty data is available on request

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Sorby Management Pty Ltd  
PO Box 2660  
Kununurra  
WA 6743

Attention: Lubor Hon

Report  
Client Reference  
Received Date

318508-A  
SORBY HILLS  
Nov 15, 2011

## Certificate of Analysis



NATA Accredited  
Accreditation Number 1261  
Site Number 1254

Accredited for compliance with ISO/IEC 17025.  
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measurements included in this document are traceable  
to Australian/national standards.

Client Sample ID			DTS1	DTS2	DTS3	DTS4
Sample Matrix			Dust	Dust	Dust	Dust
mgt-LabMark Sample No.			Deposition	Deposition	Deposition	Deposition
Date Sampled			M11-No08405	M11-No08406	M11-No08407	M11-No08408
Test/Reference	LOR	Unit	Nov 04, 2011	Nov 04, 2011	Nov 04, 2011	Nov 04, 2011
Dust Deposition						
Soluble Solids	0.1	g/m2/mth	< 0.1	130	310	160
Total Solids	0.1	g/m2/mth	250	590	620	1000
Ash	0.1	g/m2/mth	53	280	180	660
Insoluble Solids	0.1	g/m2/mth	250	470	310	870
Volume (total)	0.1	mL	1800	1700	1900	1600

<b>Client Sample ID</b>			<b>DTS5</b>	<b>DTS6</b>
<b>Sample Matrix</b>			<b>Dust</b>	<b>Dust</b>
<b>mgt-LabMark Sample No.</b>			<b>Deposition</b>	<b>Deposition</b>
<b>Date Sampled</b>			<b>M11-No08409</b>	<b>M11-No08410</b>
<b>Test/Reference</b>	<b>LOR</b>	<b>Unit</b>	<b>Nov 04, 2011</b>	<b>Nov 04, 2011</b>
<b>Dust Deposition</b>				
Soluble Solids	0.1	g/m2/mth	200	290
Total Solids	0.1	g/m2/mth	910	530
Ash	0.1	g/m2/mth	560	120
Insoluble Solids	0.1	g/m2/mth	700	240
Volume (total)	0.1	mL	1600	980

**Company Name:** Sorby Management Pty Ltd  
**Address:** PO Box 2660  
Kununurra  
WA 6743

**Order No.:**  
**Report #:** 318508  
**Phone:**  
**Fax:**

**Received:** Nov 15, 2011 8:53 AM  
**Due:** Nov 29, 2011 4:00 PM  
**Priority:** 10 Day  
**Contact name:** Lubor Hon

**Client Job No.:** SORBY HILLS

**mgt-LabMark Client Manager:** Andrew Thexton

Sample Detail					Dust Deposition
Laboratory where analysis is conducted					
Melbourne Laboratory - NATA Site #1261					X
Sydney Laboratory - NATA Site #1645					
Sample ID	Sample Date	Sampling Time	Matrix	LAB ID	
DTS1	Nov 04, 2011		Dust Deposition	M11-No08405	X
DTS2	Nov 04, 2011		Dust Deposition	M11-No08406	X
DTS3	Nov 04, 2011		Dust Deposition	M11-No08407	X
DTS4	Nov 04, 2011		Dust Deposition	M11-No08408	X
DTS5	Nov 04, 2011		Dust Deposition	M11-No08409	X
DTS6	Nov 04, 2011		Dust Deposition	M11-No08410	X

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6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Arochlor 1260 in Matrix Spikes and LCS's.
9. For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample
10. Duplicate RPD's are calculated from raw analytical data thus it is possible to have two sets of data below the LOR with a positive RPD - eg: LOR 0.1, Result A = <0.1 (raw data is 0.02) & Result B = <0.1 (raw data is 0.03) resulting in a RPD of 40% calculated from the raw data.

## Comments

### Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	No
Sample correctly preserved	Yes
Organic samples had Teflon liners	No
Sample containers for volatile analysis received with minimal headspace	N/A
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

### Authorised By

Andrew Thexton Client Services

NATA Signatories:

Huong Le Senior Analyst-Inorganic (VIC)



**Michael Wright**

**National Technical Manager**

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

\* Indicates NATA accreditation does not cover the performance of this service

Uncertainty data is available on request

mgt-LabMark shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall mgt-LabMark be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.

Sorby Management Pty Ltd  
PO Box 2660  
Kununurra  
WA 6743

Attention: Lubor Hon

Report 322513-A  
Client Reference SORBY HILLS  
Received Date Dec 20, 2011

## Certificate of Analysis



NATA Accredited  
Accreditation Number 1261  
Site Number 1254

Accredited for compliance with ISO/IEC 17025.  
The results of the tests, calibrations and/or  
measurements included in this document are traceable  
to Australian/national standards.

Client Sample ID			DTS 1	DTS 2	DTS 3	DTS 4
Sample Matrix			Dust	Dust	Dust	Dust
mgt-LabMark Sample No.			Deposition	Deposition	Deposition	Deposition
Date Sampled			M11-De11338	M11-De11339	M11-De11340	M11-De11341
Test/Reference	LOR	Unit	Dec 06, 2011	Dec 06, 2011	Dec 06, 2011	Dec 06, 2011
Dust Deposition						
Soluble Solids	0.1	g/m2/mth	16	1.4	2.2	1.1
Total Solids	0.1	g/m2/mth	33	6.6	5.4	3.3
Ash	0.1	g/m2/mth	1.7	0.3	0.1	0.3
Insoluble Solids	0.1	g/m2/mth	17	5.2	3.3	2.2
Volume (total)	0.1	mL	3600	3800	4100	4300



<b>Client Sample ID</b>			<b>DTS 5</b>	<b>DTS 6</b>
<b>Sample Matrix</b>			<b>Dust</b>	<b>Dust</b>
<b>mgt-LabMark Sample No.</b>			<b>Deposition</b>	<b>Deposition</b>
<b>Date Sampled</b>			<b>M11-De11342</b>	<b>M11-De11343</b>
<b>Test/Reference</b>	<b>LOR</b>	<b>Unit</b>	<b>Dec 06, 2011</b>	<b>Dec 06, 2011</b>
<b>Dust Deposition</b>				
Soluble Solids	0.1	g/m2/mth	< 0.1	0.4
Total Solids	0.1	g/m2/mth	3.4	2.0
Ash	0.1	g/m2/mth	0.1	0.1
Insoluble Solids	0.1	g/m2/mth	3.4	1.6
Volume (total)	0.1	mL	4200	3900

## mgt-LabMark Internal Quality Control Review

### General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Actual PQLs are matrix dependant. Quoted PQLs may be raised where sample extracts are diluted due to interferences.
4. Results are uncorrected for matrix spikes or surrogate recoveries.
5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
6. Samples were analysed on an 'as received' basis.
7. This report replaces any interim results previously issued.

### Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001)

For samples received on the last day of holding time, notification of testing requirements should have been received at least

6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgment

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### UNITS

**mg/kg:** milligrams per Kilogram

**mg/L:** milligrams per litre

**µg/L:** micrograms per litre

**ppm:** Parts per million

**ppb:** Parts per billion

**%:** Percentage

**org/100mL:** Organisms per 100 millilitres

**NTU:** Nephelometric Turbidity Units

### TERMS

<b>Dry:</b>	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
<b>LOR:</b>	Limit Of Reporting.
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<b>RPD:</b>	Relative Percent Difference between two Duplicate pieces of analysis.
<b>LCS:</b>	Laboratory Control Sample - reported as percent recovery.
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<b>Duplicate:</b>	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
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<b>COC:</b>	Chain Of Custody
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RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

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Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries : Recoveries must lie between 50-150% - Phenols 20-130%.

### QC DATA GENERAL COMMENTS

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxophene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxophene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
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## Comments

### Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	No
Sample correctly preserved	Yes
Organic samples had Teflon liners	No
Sample containers for volatile analysis received with minimal headspace	N/A
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

### Authorised By

Andrew Thexton                      Client Services

NATA Signatories:  
Huong Le                      Senior Analyst-Inorganic (VIC)



**Michael Wright**

**National Technical Manager**

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

\* Indicates NATA accreditation does not cover the performance of this service

Uncertainty data is available on request

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Sorby Management Pty Ltd  
PO Box 2660  
Kununurra  
WA 6743

Attention: Lubor Hon

Report  
Client Reference  
Received Date

325501-A  
SORBY HILLS  
Jan 31, 2012

## Certificate of Analysis



NATA Accredited  
Accreditation Number 1261  
Site Number 1254

Accredited for compliance with ISO/IEC 17025.  
The results of the tests, calibrations and/or  
measurements included in this document are traceable  
to Australian/national standards.

Client Sample ID			DST 1	DST 2	DST 3	DST 4
Sample Matrix			Dust	Dust	Dust	Dust
mgt-LabMark Sample No.			Deposition	Deposition	Deposition	Deposition
Date Sampled			M12-Ja13769	M12-Ja13770	M12-Ja13771	M12-Ja13772
Test/Reference	LOR	Unit	Jan 20, 2012	Jan 20, 2012	Jan 20, 2012	Jan 20, 2012
Dust Deposition						
Soluble Solids	0.1	g/m2/mth	< 0.1	< 0.1	6.0	1.3
Total Solids	0.1	g/m2/mth	0.9	1.1	18	1.9
Volatile Solids (550°C)	0.1	g/m2/mth	0.7	0.8	8.3	< 0.1
Ash	0.1	g/m2/mth	0.3	0.3	3.3	0.6
Insoluble Solids	0.1	g/m2/mth	0.9	1.1	12	0.6
Volume (total)	0.1	mL	1600	1500	1800	1700

<b>Client Sample ID</b>			<b>DST 5</b>	<b>DST 6</b>
<b>Sample Matrix</b>			<b>Dust</b>	<b>Dust</b>
<b>mgt-LabMark Sample No.</b>			<b>Deposition</b>	<b>Deposition</b>
<b>Date Sampled</b>			<b>M12-Ja13773</b>	<b>M12-Ja13774</b>
<b>Test/Reference</b>	<b>LOR</b>	<b>Unit</b>	<b>Jan 20, 2012</b>	<b>Jan 20, 2012</b>
<b>Dust Deposition</b>				
Soluble Solids	0.1	g/m2/mth	1.8	3.9
Total Solids	0.1	g/m2/mth	3.0	9.5
Volatile Solids (550øC)	0.1	g/m2/mth	< 0.1	< 0.1
Ash	0.1	g/m2/mth	1.3	5.7
Insoluble Solids	0.1	g/m2/mth	1.3	5.7
Volume (total)	0.1	mL	1700	1900

## mgt-LabMark Internal Quality Control Review

### General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
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### Holding Times

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### TERMS

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Surrogate Recoveries : Recoveries must lie between 50-150% - Phenols 20-130%.

### QC DATA GENERAL COMMENTS

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## Comments

### Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	No
Sample correctly preserved	Yes
Organic samples had Teflon liners	No
Sample containers for volatile analysis received with minimal headspace	N/A
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

### Authorised By

Andrew Thexton	Client Services
Huong Le	Senior Analyst-Inorganic (VIC)



### Michael Wright

#### National Technical Manager

Final report - this Report replaces any previously issued Report

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Sorby Management Pty Ltd  
PO Box 2660  
Kununurra  
WA 6743

Attention: Lubor Hon

Report  
Client Reference  
Received Date

328981-A  
SORBY HILLS  
Mar 02, 2012

## Certificate of Analysis



NATA Accredited  
Accreditation Number 1261  
Site Number 1254

Accredited for compliance with ISO/IEC 17025.  
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Client Sample ID			DST 1	DST 2	DST 3	DST 4
Sample Matrix			Dust	Dust	Dust	Dust
mgt-LabMark Sample No.			Deposition	Deposition	Deposition	Deposition
Date Sampled			B12-Ma01574	B12-Ma01575	B12-Ma01576	B12-Ma01577
Test/Reference	LOR	Unit	Feb 20, 2012	Feb 20, 2012	Feb 20, 2012	Feb 20, 2012
Dust Deposition						
Soluble Solids	0.1	g/m2/mth	3.9	1.6	< 0.1	0.9
Total Solids	0.1	g/m2/mth	6.9	2.9	1.1	3.1
Volatile Solids (550°C)	0.1	g/m2/mth	0.8	1.1	0.7	1.5
Ash	0.1	g/m2/mth	2.2	0.2	0.4	0.6
Insoluble Solids	0.1	g/m2/mth	2.9	1.3	1.1	2.1
Volume (total)	0.1	mL	3500	3100	3100	3500



<b>Client Sample ID</b>			<b>DST 5</b>	<b>DST 6</b>
<b>Sample Matrix</b>			<b>Dust</b>	<b>Dust</b>
<b>mgt-LabMark Sample No.</b>			<b>Deposition</b>	<b>Deposition</b>
<b>Date Sampled</b>			<b>B12-Ma01578</b>	<b>B12-Ma01579</b>
<b>Test/Reference</b>	<b>LOR</b>	<b>Unit</b>	<b>Feb 20, 2012</b>	<b>Feb 20, 2012</b>
<b>Dust Deposition</b>				
Soluble Solids	0.1	g/m2/mth	7.1	7.0
Total Solids	0.1	g/m2/mth	15	19
Volatile Solids (550°C)	0.1	g/m2/mth	5.1	8.8
Ash	0.1	g/m2/mth	2.5	2.9
Insoluble Solids	0.1	g/m2/mth	7.6	12
Volume (total)	0.1	mL	3700	2800

## mgt-LabMark Internal Quality Control Review

### General

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## Comments

### Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Organic samples had Teflon liners	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

### Authorised By

Andrew Thexton	Client Services
Huong Le	Senior Analyst-Inorganic (VIC)



**Glenn Jackson**

**National Technical Manager**

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

\* Indicates NATA accreditation does not cover the performance of this service

Uncertainty data is available on request

mgt-LabMark shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall mgt-LabMark be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.

Sorby Management Pty Ltd  
PO Box 2660  
Kununurra  
WA 6743

Attention: Lubor Hon

Report  
Client Reference  
Received Date

332260-A  
SORBY HILLS  
Mar 30, 2012

## Certificate of Analysis



NATA Accredited  
Accreditation Number 1261  
Site Number 1254

Accredited for compliance with ISO/IEC 17025.  
The results of the tests, calibrations and/or  
measurements included in this document are traceable  
to Australian/national standards.

Client Sample ID			DST1	DST2	DST3	DST4
Sample Matrix			Dust	Dust	Dust	Dust
mgt-LabMark Sample No.			Deposition	Deposition	Deposition	Deposition
Date Sampled			M12-Ma21357	M12-Ma21358	M12-Ma21359	M12-Ma21360
Test/Reference	LOR	Unit	Mar 21, 2012	Mar 21, 2012	Mar 21, 2012	Mar 21, 2012
Dust Deposition						
Soluble Solids	0.1	g/m2/mth	1.6	1.9	1.3	0.2
Total Solids	0.1	g/m2/mth	18	2.9	1.8	0.8
Volatile Solids (550°C)	0.1	g/m2/mth	1.9	0.7	0.5	0.6
Ash	0.1	g/m2/mth	14	0.4	< 0.1	< 0.1
Insoluble Solids	0.1	g/m2/mth	16	1.0	0.5	0.6
Volume (total)	0.1	mL	4300	3700	4000	4300

<b>Client Sample ID</b>			<b>DST5</b>	<b>DST6</b>
<b>Sample Matrix</b>			<b>Dust</b>	<b>Dust</b>
<b>mgt-LabMark Sample No.</b>			<b>Deposition</b>	<b>Deposition</b>
<b>Date Sampled</b>			<b>M12-Ma21361</b>	<b>M12-Ma21362</b>
<b>Test/Reference</b>	<b>LOR</b>	<b>Unit</b>	<b>Mar 21, 2012</b>	<b>Mar 21, 2012</b>
<b>Dust Deposition</b>				
Soluble Solids	0.1	g/m2/mth	< 0.1	< 0.1
Total Solids	0.1	g/m2/mth	0.7	0.5
Volatile Solids (550°C)	0.1	g/m2/mth	0.7	0.5
Ash	0.1	g/m2/mth	< 0.1	< 0.1
Insoluble Solids	0.1	g/m2/mth	0.7	0.5
Volume (total)	0.1	mL	4300	4300

## mgt-LabMark Internal Quality Control Review

### General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Actual PQLs are matrix dependant. Quoted PQLs may be raised where sample extracts are diluted due to interferences.
4. Results are uncorrected for matrix spikes or surrogate recoveries.
5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
6. Samples were analysed on an 'as received' basis.
7. This report replaces any interim results previously issued.

### Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001)

For samples received on the last day of holding time, notification of testing requirements should have been received at least

6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgment

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

**\*\*NOTE:** pH duplicates are reported as a range NOT as an RPD

### UNITS

**mg/kg:** milligrams per Kilogram

**mg/L:** milligrams per litre

**µg/L:** micrograms per litre

**ppm:** Parts per million

**ppb:** Parts per billion

**%:** Percentage

**org/100mL:** Organisms per 100 millilitres

**NTU:** Nephelometric Turbidity Units

**MPN/100mL:** Most Probable Number of organisms per 100 millilitres

### TERMS

<b>Dry:</b>	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
<b>LOR:</b>	Limit Of Reporting.
<b>SPIKE:</b>	Addition of the analyte to the sample and reported as percentage recovery.
<b>RPD:</b>	Relative Percent Difference between two Duplicate pieces of analysis.
<b>LCS:</b>	Laboratory Control Sample - reported as percent recovery.
<b>CRM:</b>	Certified Reference Material - reported as percent recovery.
<b>Method Blank:</b>	In the case of solid samples these are performed on laboratory certified clean sands. In the case of water samples these are performed on de-ionised water.
<b>Surr - Surrogate:</b>	The addition of a like compound to the analyte target and reported as percentage recovery.
<b>Duplicate:</b>	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
<b>Batch Duplicate:</b>	A second piece of analysis from a sample outside of the client's batch of samples but run within the laboratory batch of analysis.
<b>Batch SPIKE:</b>	Spike recovery reported on a sample from outside of the client's batch of samples but run within the laboratory batch of analysis.
<b>USEPA:</b>	U.S Environmental Protection Agency
<b>APHA:</b>	American Public Health Association
<b>ASLP:</b>	Australian Standard Leaching Procedure (AS4439.3)
<b>TCLP:</b>	Toxicity Characteristic Leaching Procedure
<b>COC:</b>	Chain Of Custody
<b>SRA:</b>	Sample Receipt Advice
<b>CP:</b>	Client Parent - QC was performed on samples pertaining to this report
<b>NCP:</b>	Non-Client Parent - QC was performed on samples not pertaining to this report, however QC is representative of the sequence or batch that client samples were analysed within

### QC - ACCEPTANCE CRITERIA

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries : Recoveries must lie between 50-150% - Phenols 20-130%.

### QC DATA GENERAL COMMENTS

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxophene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxophene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Arochlor 1260 in Matrix Spikes and LCS's.
9. For Matrix Spikes and LCS results a dash " - " in the report means that the specific analyte was not added to the QC sample>
10. Duplicate RPD's are calculated from raw analytical data thus it is possible to have two sets of data below the LOR with a positive RPD - eg: LOR 0.1, Result A = <0.1 (raw data is 0.02) & Result B = <0.1 (raw data is 0.03) resulting in a RPD of 40% calculated from the raw data.

## Comments

### Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	No
Sample correctly preserved	Yes
Organic samples had Teflon liners	No
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

### Authorised By

Andrew Thexton	Client Services
Huong Le	Senior Analyst-Inorganic (VIC)



**Michael Wright**

**National Technical Manager**

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

\* Indicates NATA accreditation does not cover the performance of this service

Uncertainty data is available on request

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Sorby Management Pty Ltd  
PO Box 2660  
Kununurra  
WA 6743

Attention: Lubor Hon

Report **344203-A**  
Client Reference SORBY HILLS  
Received Date Jul 11, 2012



## Certificate of Analysis

NATA Accredited  
Accreditation Number 1261  
Site Number 1254

Accredited for compliance with ISO/IEC 17025.  
The results of the tests, calibrations and/or  
measurements included in this document are traceable  
to Australian/national standards.

Client Sample ID			DST 1 Dust Deposition	DST 2 Dust Deposition	DST 3 Dust Deposition	DST 4 Dust Deposition
Sample Matrix						
mgt-LabMark Sample No.			M12-JI10250	M12-JI10251	M12-JI10252	M12-JI10253
Date Sampled			Jun 23, 2012	Jun 23, 2012	Jun 23, 2012	Jun 23, 2012
Test/Reference	LOR	Unit				
Dust Deposition						
Soluble Solids	0.1	g/m <sup>2</sup> /mt h	< 0.1	< 0.1	< 0.1	< 0.1
Total Solids	0.1	g/m <sup>2</sup> /mt h	1.1	0.4	0.4	0.3
Volatile Solids (550°C)	0.1	g/m <sup>2</sup> /mt h	0.6	0.3	0.3	0.3
Ash	0.1	g/m <sup>2</sup> /mt h	0.5	< 0.1	0.1	0.1
Insoluble Solids	0.1	g/m <sup>2</sup> /mt h	1.1	0.4	0.4	0.3
Volume (total)	0.1	mL	200	200	200	200



<b>Client Sample ID</b>			<b>DST 5</b>	<b>DST 6</b>
<b>Sample Matrix</b>			<b>Dust Deposition</b>	<b>Dust Deposition</b>
<b>mgt-LabMark Sample No.</b>			<b>M12-JI10254</b>	<b>M12-JI10255</b>
<b>Date Sampled</b>			<b>Jun 23, 2012</b>	<b>Jun 23, 2012</b>
Test/Reference	LOR	Unit		
<b>Dust Deposition</b>				
Soluble Solids	0.1	g/m <sup>2</sup> /mt h	< 0.1	< 0.1
Total Solids	0.1	g/m <sup>2</sup> /mt h	0.4	0.2
Volatile Solids (550°C)	0.1	g/m <sup>2</sup> /mt h	0.2	0.2
Ash	0.1	g/m <sup>2</sup> /mt h	0.2	< 0.1
Insoluble Solids	0.1	g/m <sup>2</sup> /mt h	0.4	0.2
Volume (total)	0.1	mL	200	200

## General

- Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
- All soil results are reported on a dry basis, unless otherwise stated.
- Actual PQLs are matrix dependant. Quoted PQLs may be raised where sample extracts are diluted due to interferences.
- Results are uncorrected for matrix spikes or surrogate recoveries.
- SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
- Samples were analysed on an 'as received' basis.
- This report replaces any interim results previously issued.

## Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001)

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6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgment

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**\*\*NOTE:** pH duplicates are reported as a range NOT as an RPD

## UNITS

**mg/kg:** milligrams per Kilogram

**µg/L:** micrograms per litre

**ppb:** Parts per billion

**org/100mL:** Organisms per 100 millilitres

**MPN/100mL:** Most Probable Number of organisms per 100 millilitres

**mg/L:** milligrams per litre

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**%:** Percentage

**NTU:** Nephelometric Turbidity Units

## TERMS

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<b>RPD:</b>	Relative Percent Difference between two Duplicate pieces of analysis.
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## QC - ACCEPTANCE CRITERIA

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

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Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries : Recoveries must lie between 50-150% - Phenols 20-130%.

## QC DATA GENERAL COMMENTS

- Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
- Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
- Organochlorine Pesticide analysis - where reporting LCS data, Toxophene & Chlordane are not added to the LCS.
- Organochlorine Pesticide analysis - where reporting Spike data, Toxophene is not added to the Spike.
- Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
- pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt
- Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
- Polychlorinated Biphenyls are spiked only using Aroclor 1260 in Matrix Spikes and LCS's.
- For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample
- Duplicate RPD's are calculated from raw analytical data thus it is possible to have two sets of data below the LOR with a positive RPD - eg: LOR 0.1, Result A = <0.1 (raw data is 0.02) & Result B = <0.1 (raw data is 0.03) resulting in a RPD of 40% calculated from the raw data.

## Comments

### Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	No
Sample correctly preserved	Yes
Organic samples had Teflon liners	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

### Authorised By

Andrew Thexton	Client Services
Mary Makarios	Senior Analyst-Inorganic (VIC)



**Glenn Jackson**

### Laboratory Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

\* Indicates NATA accreditation does not cover the performance of this service

Uncertainty data is available on request

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## Certificate of Analysis

Sorby Management Pty Ltd  
PO Box 2660  
Kununurra  
WA 6743



NATA Accredited  
Accreditation Number 1261  
Site Number 1254

Accredited for compliance with ISO/IEC 17025.  
The results of the tests, calibrations and/or  
measurements included in this document are traceable  
to Australian/national standards.

Attention: Lubor Hon

Report 354963-A  
Client Reference SORBY HILLS  
Received Date Oct 09, 2012

Client Sample ID			DST 1 Dust Deposition M12-Oc09085 Sep 19, 2012	DST 2 Dust Deposition M12-Oc09086 Sep 19, 2012	DST 3 Dust Deposition M12-Oc09087 Sep 19, 2012	DST 4 Dust Deposition M12-Oc09088 Sep 19, 2012
Sample Matrix mgt-LabMark Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
Dust Deposition						
Soluble Solids	0.1	g/m2/mt h	< 0.1	< 0.1	< 0.1	< 0.1
Total Solids	0.1	g/m2/mt h	0.2	0.7	0.4	0.2
Volatile Solids (550°C)	0.1	g/m2/mt h	0.2	0.5	0.4	0.2
Ash	0.1	g/m2/mt h	< 0.1	0.2	< 0.1	< 0.1
Insoluble Solids	0.1	g/m2/mt h	0.2	0.7	0.4	0.2
Volume (total)	0.1	mL	200	200	200	200

Client Sample ID			DST 5 Dust Deposition M12-Oc09089 Sep 19, 2012	DST 6 Dust Deposition M12-Oc09090 Sep 19, 2012
Sample Matrix mgt-LabMark Sample No.				
Date Sampled				
Test/Reference	LOR	Unit		
Dust Deposition				
Soluble Solids	0.1	g/m2/mt h	< 0.1	< 0.1
Total Solids	0.1	g/m2/mt h	1.8	0.5
Volatile Solids (550°C)	0.1	g/m2/mt h	1.0	0.5
Ash	0.1	g/m2/mt h	0.8	< 0.1
Insoluble Solids	0.1	g/m2/mt h	1.8	0.5
Volume (total)	0.1	mL	200	200

## mgt-LabMark Internal Quality Control Review

### General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
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### UNITS

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**org/100ml:** Organisms per 100 millilitres

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### TERMS

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Surrogate Recoveries : Recoveries must lie between 50-150% - Phenols 20-130%.

### QC DATA GENERAL COMMENTS

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
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7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Arochlor 1260 in Matrix Spikes and LCS's.
9. For Matrix Spikes and LCS results a dash " - " in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPD's are calculated from raw analytical data thus it is possible to have two sets of data.

## Comments

### Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	No
Sample correctly preserved	Yes
Organic samples had Teflon liners	No
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

### Authorised By

Andrew Thexton	Client Services
Mary Makarios	Senior Analyst-Inorganic (VIC)



### Glenn Jackson

#### Laboratory Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

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# Certificate of Analysis

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PO Box 2660  
Kununurra  
WA 6743



NATA Accredited  
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Site Number 1254

Accredited for compliance with ISO/IEC 17025.  
The results of the tests, calibrations and/or  
measurements included in this document are traceable  
to Australian/national standards.

Attention: Lubor Hon

Report 357036-A-V2  
Client Reference SORBY HILLS  
Received Date Oct 26, 2012

Client Sample ID			DST 1 Dust Deposition M12-Oc23579 Oct 22, 2012	DST 2 Dust Deposition M12-Oc23580 Oct 22, 2012	DST 3 Dust Deposition M12-Oc23581 Oct 22, 2012	DST 4 Dust Deposition M12-Oc23582 Oct 22, 2012
Sample Matrix						
mgt-LabMark Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
Ash	0.1	g/m2/mt h	1.9	0.8	3.1	0.9
Insoluble Solids	0.1	g/m2/mt h	4.4	1.7	4.6	1.5
Soluble Solids	0.1	g/m2/mt h	0.8	0.5	0.3	0.6
Total Solids	0.1	g/m2/mt h	5.2	2.3	4.9	2.1
Volatile Solids (550°C)	0.1	g/m2/mt h	2.6	0.9	1.5	0.6
Volume (total)	0.1	mL	320	600	500	340

Client Sample ID			DST 5 Dust Deposition M12-Oc23583 Oct 22, 2012	DST 6 Dust Deposition M12-Oc23584 Oct 22, 2012
Sample Matrix				
mgt-LabMark Sample No.				
Date Sampled				
Test/Reference	LOR	Unit		
Ash	0.1	g/m2/mt h	3.3	1.2
Insoluble Solids	0.1	g/m2/mt h	4.7	2.0
Soluble Solids	0.1	g/m2/mt h	0.3	0.6
Total Solids	0.1	g/m2/mt h	5.0	2.6
Volatile Solids (550°C)	0.1	g/m2/mt h	1.4	0.8
Volume (total)	0.1	mL	320	380

**Company Name:** Sorby Management Pty Ltd  
**Address:** PO Box 2660  
Kununurra  
WA 6743  
**Client Job No.:** SORBY HILLS

**Order No.:**  
**Report #:** 357036  
**Phone:**  
**Fax:**

**Received:** Oct 26, 2012 8:59 AM  
**Due:** Nov 7, 2012  
**Priority:** 7 Day  
**Contact Name:** Lubor Hon

**mgt-LabMark Client Manager: Andrew Thexton**

Sample Detail					Ash	Insoluble Solids	Total Solids
Laboratory where analysis is conducted							
Melbourne Laboratory - NATA Site # 1254 & 14271					X	X	X
Sydney Laboratory - NATA Site # 18217							
Brisbane Laboratory - NATA Site # 20794							
External Laboratory							
Sample ID	Sample Date	Sampling Time	Matrix	LAB ID			
ST 1	Oct 22, 2012		Dust Deposition	M12-Oc23579	X	X	X
ST 2	Oct 22, 2012		Dust Deposition	M12-Oc23580	X	X	X
ST 3	Oct 22, 2012		Dust Deposition	M12-Oc23581	X	X	X
ST 4	Oct 22, 2012		Dust Deposition	M12-Oc23582	X	X	X
ST 5	Oct 22, 2012		Dust Deposition	M12-Oc23583	X	X	X
ST 6	Oct 22, 2012		Dust Deposition	M12-Oc23584	X	X	X



## mgt-LabMark Internal Quality Control Review

### General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Actual PQLs are matrix dependant. Quoted PQLs may be raised where sample extracts are diluted due to interferences.
4. Results are uncorrected for matrix spikes or surrogate recoveries.
5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
6. Samples were analysed on an 'as received' basis. 7. This report replaces any interim results previously issued.

### Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgment.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

**\*\*NOTE:** pH duplicates are reported as a range NOT as RPD

### UNITS

**mg/kg:** milligrams per Kilogram

**ug/l:** micrograms per litre

**ppb:** Parts per billion

**org/100ml:** Organisms per 100 millilitres

**MPN/100mL:** Most Probable Number of organisms per 100 millilitres

**mg/l:** milligrams per litre

**ppm:** Parts per million

**%:** Percentage

**NTU:** Units

### TERMS

<b>Dry</b>	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
<b>LOR</b>	Limit of Reporting.
<b>SPIKE</b>	Addition of the analyte to the sample and reported as percentage recovery.
<b>RPD</b>	Relative Percent Difference between two Duplicate pieces of analysis.
<b>LCS</b>	Laboratory Control Sample - reported as percent recovery
<b>CRM</b>	Certified Reference Material - reported as percent recovery
<b>Method Blank</b>	In the case of solid samples these are performed on laboratory certified clean sands. In the case of water samples these are performed on de-ionised water.
<b>Surr - Surrogate</b>	The addition of a like compound to the analyte target and reported as percentage recovery.
<b>Duplicate</b>	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
<b>Batch Duplicate</b>	A second piece of analysis from a sample outside of the clients batch of samples but run within the laboratory batch of analysis.
<b>Batch SPIKE</b>	Spike recovery reported on a sample from outside of the clients batch of samples but run within the laboratory batch of analysis.
<b>USEPA</b>	United States Environment Protection Authority
<b>APHA</b>	American Public Health Association
<b>ASLP</b>	Australian Standard Leaching Procedure (AS4439.3)
<b>TCLP</b>	Toxicity Characteristic Leaching Procedure
<b>COC</b>	Chain of Custody
<b>SRA</b>	Sample Receipt Advice
<b>CP</b>	Client Parent - QC was performed on samples pertaining to this report
<b>NCP</b>	Non-Client Parent - QC was performed on samples not pertaining to this report, however QC is representative of the sequence or batch that client samples were analysed within

### QC - ACCEPTANCE CRITERIA

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries : Recoveries must lie between 50-150% - Phenols 20-130%.

### QC DATA GENERAL COMMENTS

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxophene & Chlordane are not added to the LCS.
3. Organochlorine Pesticide analysis - where reporting Spike data, Toxophene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Arochlor 1260 in Matrix Spikes and LCS's.
9. For Matrix Spikes and LCS results a dash " - " in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPD's are calculated from raw analytical data thus it is possible to have two sets of data.

## Comments

Please note: This report has been amended to add Soluble solids, Volatile solids and Volume.

## Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	No
Sample correctly preserved	Yes
Organic samples had Teflon liners	No
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

## Authorised By

Andrew Thexton	Client Services
Mary Makarios	Senior Analyst-Inorganic (VIC)



**Glenn Jackson**

## Laboratory Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

\* Indicates NATA accreditation does not cover the performance of this service

Uncertainty data is available on request

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