

Environmental Division

CERTIFICATE OF ANALYSIS

Work Order	: EB1321071	Page	: 1 of 6
Client	: MAGNESIUM OXIDE BOARD CORP	Laboratory	: Environmental Division Brisbane
Contact	: MR STEVE MARSKELL (coc/srn)	Contact	: Customer Services
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Project	: VOC TEST	QC Level	: NEPM 2013 Schedule B(3) and ALS QCS3 requirement
Order number	: MgO CORP VOC8/13	Date Samples Received	: 29-AUG-2013
C-O-C number	: ----	Issue Date	: 04-SEP-2013
Sampler	: ----	No. of samples received	: 1
Site	: ----	No. of samples analysed	: 1
Quote number	: ----		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been checked and approved for release.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits



NATA Accredited Laboratory 825

Accredited for compliance with
ISO/IEC 17025.

Signatories

This document has been electronically signed by the authorized signatories indicated below. Electronic signing has been carried out in compliance with procedures specified in 21 CFR Part 11.

<i>Signatories</i>	<i>Position</i>	<i>Accreditation Category</i>
Matt Frost	Senior Organic Chemist	Brisbane Inorganics
Matt Frost	Senior Organic Chemist	Brisbane Organics



General Comments

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

LOR = Limit of reporting

^ = This result is computed from individual analyte detections at or above the level of reporting



Analytical Results

Sub-Matrix: **SOLID** (Matrix: **SOIL**)

Client sample ID

CMA - CM40009

Client sampling date / time

29-AUG-2013 11:00

Compound	CAS Number	LOR	Unit	EB1321071-001	---	---	---	---
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EA055: Moisture Content

Moisture Content (dried @ 103°C)	---	1.0	%	14.2	---	---	---	---
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EP074A: Monocyclic Aromatic Hydrocarbons

Benzene	71-43-2	0.2	mg/kg	<0.2	---	---	---	---
Toluene	108-88-3	0.5	mg/kg	<0.5	---	---	---	---
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	---	---	---	---
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	---	---	---	---
Styrene	100-42-5	0.5	mg/kg	<0.5	---	---	---	---
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	---	---	---	---
Isopropylbenzene	98-82-8	0.5	mg/kg	<0.5	---	---	---	---
n-Propylbenzene	103-65-1	0.5	mg/kg	<0.5	---	---	---	---
1,3,5-Trimethylbenzene	108-67-8	0.5	mg/kg	<0.5	---	---	---	---
sec-Butylbenzene	135-98-8	0.5	mg/kg	<0.5	---	---	---	---
1,2,4-Trimethylbenzene	95-63-6	0.5	mg/kg	<0.5	---	---	---	---
tert-Butylbenzene	98-06-6	0.5	mg/kg	<0.5	---	---	---	---
p-Isopropyltoluene	99-87-6	0.5	mg/kg	<0.5	---	---	---	---
n-Butylbenzene	104-51-8	0.5	mg/kg	<0.5	---	---	---	---

EP074B: Oxygenated Compounds

Vinyl Acetate	108-05-4	5	mg/kg	<5	---	---	---	---
2-Butanone (MEK)	78-93-3	5	mg/kg	<5	---	---	---	---
4-Methyl-2-pentanone (MIBK)	108-10-1	5	mg/kg	<5	---	---	---	---
2-Hexanone (MBK)	591-78-6	5	mg/kg	<5	---	---	---	---

EP074C: Sulfonated Compounds

Carbon disulfide	75-15-0	0.5	mg/kg	<0.5	---	---	---	---
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EP074D: Fumigants

2,2-Dichloropropane	594-20-7	0.5	mg/kg	<0.5	---	---	---	---
1,2-Dichloropropane	78-87-5	0.5	mg/kg	<0.5	---	---	---	---
cis-1,3-Dichloropropylene	10061-01-5	0.5	mg/kg	<0.5	---	---	---	---
trans-1,3-Dichloropropylene	10061-02-6	0.5	mg/kg	<0.5	---	---	---	---
1,2-Dibromoethane (EDB)	106-93-4	0.5	mg/kg	<0.5	---	---	---	---

EP074E: Halogenated Aliphatic Compounds

Dichlorodifluoromethane	75-71-8	5	mg/kg	<5	---	---	---	---
Chloromethane	74-87-3	5	mg/kg	<5	---	---	---	---
Vinyl chloride	75-01-4	5	mg/kg	<5	---	---	---	---



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Compound	CAS Number	LOR	Unit	EB1321071-001	---	---	---	---
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EP074E: Halogenated Aliphatic Compounds - Continued

Bromomethane	74-83-9	5	mg/kg	<5	---	---	---	---
Chloroethane	75-00-3	5	mg/kg	<5	---	---	---	---
Trichlorofluoromethane	75-69-4	5	mg/kg	<5	---	---	---	---
1,1-Dichloroethene	75-35-4	0.5	mg/kg	<0.5	---	---	---	---
Iodomethane	74-88-4	0.5	mg/kg	<0.5	---	---	---	---
trans-1,2-Dichloroethene	156-60-5	0.5	mg/kg	<0.5	---	---	---	---
1,1-Dichloroethane	75-34-3	0.5	mg/kg	<0.5	---	---	---	---
cis-1,2-Dichloroethene	156-59-2	0.5	mg/kg	<0.5	---	---	---	---
1,1,1-Trichloroethane	71-55-6	0.5	mg/kg	<0.5	---	---	---	---
1,1-Dichloropropylene	563-58-6	0.5	mg/kg	<0.5	---	---	---	---
Carbon Tetrachloride	56-23-5	0.5	mg/kg	<0.5	---	---	---	---
1,2-Dichloroethane	107-06-2	0.5	mg/kg	<0.5	---	---	---	---
Trichloroethene	79-01-6	0.5	mg/kg	<0.5	---	---	---	---
Dibromomethane	74-95-3	0.5	mg/kg	<0.5	---	---	---	---
1,1,2-Trichloroethane	79-00-5	0.5	mg/kg	<0.5	---	---	---	---
1,3-Dichloropropane	142-28-9	0.5	mg/kg	<0.5	---	---	---	---
Tetrachloroethene	127-18-4	0.5	mg/kg	<0.5	---	---	---	---
1,1,1,2-Tetrachloroethane	630-20-6	0.5	mg/kg	<0.5	---	---	---	---
trans-1,4-Dichloro-2-butene	110-57-6	0.5	mg/kg	<0.5	---	---	---	---
cis-1,4-Dichloro-2-butene	1476-11-5	0.5	mg/kg	<0.5	---	---	---	---
1,1,2,2-Tetrachloroethane	79-34-5	0.5	mg/kg	<0.5	---	---	---	---
1,2,3-Trichloropropane	96-18-4	0.5	mg/kg	<0.5	---	---	---	---
Pentachloroethane	76-01-7	0.5	mg/kg	<0.5	---	---	---	---
1,2-Dibromo-3-chloropropane	96-12-8	0.5	mg/kg	<0.5	---	---	---	---
Hexachlorobutadiene	87-68-3	0.5	mg/kg	<0.5	---	---	---	---

EP074F: Halogenated Aromatic Compounds

Chlorobenzene	108-90-7	0.5	mg/kg	<0.5	---	---	---	---
Bromobenzene	108-86-1	0.5	mg/kg	<0.5	---	---	---	---
2-Chlorotoluene	95-49-8	0.5	mg/kg	<0.5	---	---	---	---
4-Chlorotoluene	106-43-4	0.5	mg/kg	<0.5	---	---	---	---
1,3-Dichlorobenzene	541-73-1	0.5	mg/kg	<0.5	---	---	---	---
1,4-Dichlorobenzene	106-46-7	0.5	mg/kg	<0.5	---	---	---	---
1,2-Dichlorobenzene	95-50-1	0.5	mg/kg	<0.5	---	---	---	---
1,2,4-Trichlorobenzene	120-82-1	0.5	mg/kg	<0.5	---	---	---	---



Analytical Results

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CMA - CM40009

Client sampling date / time

29-AUG-2013 11:00

Compound	CAS Number	LOR	Unit	EB1321071-001	----	----	----	----
EP074F: Halogenated Aromatic Compounds - Continued								
1,2,3-Trichlorobenzene	87-61-6	0.5	mg/kg	<0.5	----	----	----	----
EP074G: Trihalomethanes								
Chloroform	67-66-3	0.5	mg/kg	<0.5	----	----	----	----
Bromodichloromethane	75-27-4	0.5	mg/kg	<0.5	----	----	----	----
Dibromochloromethane	124-48-1	0.5	mg/kg	<0.5	----	----	----	----
Bromoform	75-25-2	0.5	mg/kg	<0.5	----	----	----	----
EP074H: Naphthalene								
Naphthalene	91-20-3	5	mg/kg	<5	----	----	----	----
EP074S: VOC Surrogates								
1,2-Dichloroethane-D4	17060-07-0	0.1	%	116	----	----	----	----
Toluene-D8	2037-26-5	0.1	%	101	----	----	----	----
4-Bromofluorobenzene	460-00-4	0.1	%	89.2	----	----	----	----



Surrogate Control Limits

Sub-Matrix: SOLID		Recovery Limits (%)	
<i>Compound</i>	<i>CAS Number</i>	<i>Low</i>	<i>High</i>
EP074S: VOC Surrogates			
1,2-Dichloroethane-D4	17060-07-0	52.7	133.7
Toluene-D8	2037-26-5	60.3	131.1
4-Bromofluorobenzene	460-00-4	59.2	126.6