Douglas Partners
Geotechnics • Environment • Groundwater

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JAW:sm
Project No: 39823.04
Doc Ref: P:\39823.04\Docs\39823.04.doc
21 May 2008

Johnson Property Group
PO Box 34
COORANBONG NSW 2265

Attention: Mr Bryan Garland

Dear Sir

ADDITIONAL GROUNDWATER SAMPLING AND TESTING
TRINITY POINT MARINA
MORISSET PARK

Further to your recent request, Douglas Partners (DP) has undertaken an additional round of groundwater sampling and testing at the Trinity Point Marina Project.

Douglas Partners has previously undertaken geotechnical investigations at the site, which included the installation of groundwater monitoring wells, along with sampling and laboratory testing (Ref 1).

On 15 May 2008, an environmental engineer from DP visited the site and confirmed that the previously installed groundwater wells were still intact. An additional round of sampling was undertaken for the purpose of providing background water quality data. Prior to sampling, the groundwater level was measured in each of the wells and each of the wells was purged.

Bore 105, which was installed to a depth of about 5 m below the ground surface, was dry both during the recent and previous rounds of testing.

The groundwater levels that were measured during the recent visit, are summarised in the table below, which also includes the previously reported data from earlier testing at the site.

Table 1 – Summary of Groundwater Measurements in Wells

Project Component	Bore	Approximate Surface Level (AHD)	Depth to Groundwater Below Ground Surface (m) and date					Range of Groundwater Levels Observed (AHD)
			5/10/07	9&10/10/07	16/10/07	24/10/07	15/5/08	
Marina Village	101	1.27	1.2	1.2	1.2	NM	1.04	0.0 to 0.2
	101A	1.27	NM	NM	1.15	1.22	0.87	0.0 to 0.4
	102	0.89	NM	0.61	0.88	NM	0.57	0.0 to 0.3
	102A	0.89	NM	NM	0.83	0.94	0.64	-0.1 to 0.2
Blocks E to G	103	2.47	1.51	1.57	1.63	NM	1.37	0.8 to 1.1
	104	3.82	2.83	2.85	2.93	NM	2.86	0.9 to 1.0
	105	6.62	Dry	Dry	Dry	Dry	Dry	-

It should be noted that groundwater levels are affected by factors such as climatic conditions and soil permeability and will therefore vary with time.

Groundwater pH and electrical conductivity (EC) were also measured in the wells during the recent sampling, using a portable meter. The results are summarised in Table 2, below, along with comparative values recorded during previous sampling in October 2007:

Table 2 – Summary of Groundwater Properties in Bores

Bore No	Date	Range of pH values	Range of EC values (mS/cm)
101	Oct 2007	7.1 to 7.3	1.7 to 3.8
	15/5/2008	7.0	0.27 – 0.35
101A	Oct 2007	7.2 to 7.7	0.6 to 0.8
	15/5/2008	NM	NM
102	Oct 2007	6.8 to 7.3	8.7 to 21.1
	15/5/2008	6.6 to 7.1	0.9 to 2.6
102A	Oct 2007	7.4 to 7.7	1.2 to 2.1
	15/5/2008	7.2 to 7.6	1.0 to 2.7
103	Oct 2007	5.0	0.6
	15/5/2008	4.7 to 5.0	0.4 to 0.5
104	Oct 2007	4.1 to 4.2	5.6 to 6.8
	15/5/2008	3.5 to 3.7	7.1 to 7.4
105	Oct 2007	dry	Dry
	15/5/2008	dry	Dry

Notes to Table 2:
EC – Electrical Conductivity
DO – Dissolved Oxygen
NM – Not measured

Groundwater samples were collected from each of the wells to obtain an additional set of background water quality data. The well in Bore 105 was dry, and hence no sample was collected. Groundwater was tested for the following:

- Metals: Arsenic (As); Antimony (Sb); Barium (Ba); Beryllium (Be); Boron (B); Cadmium (Cd); Chromium (Cr); Copper (Cu); Cobalt (Co); Lead (Pb); Manganese (Mn); Molybdenum (Mo); Nickel (Ni); Selenium (Se), Tin (Sn); Zinc (Zn); and Mercury (Hg);
- Nitrite, Nitrate, Chloride, Sulphate;
- Total Phosphorous; Total Nitrogen;
- Total Iron.

Table 3 – Summary of Laboratory Results for Groundwater Chemistry - Metals

Date of Sampling	Project Component	Location	Analyte (µg/L)															Analyte (mg/L)						
			Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Chromium	Copper	Cobalt	Lead	Manganese	Molybdenum	Nickel	Selenium	Zinc	Tin	Total Iron	Nitrate as N	Chloride, Cl	Sulphate, SO4	Total Phosphorus	Total Nitrogen	Mercury
October 2007	Marina village	101	<PQL	<PQL	33	<PQL	470	<PQL	1.2	<PQL	<PQL	<PQL	260	2.5	<PQL	<PQL	12	<PQL	2.4	<PQL	850	110	0.40	4.6	<PQL
		102	<PQL	6.4	190	<PQL	1500	<PQL	6.3	1.3	22	<PQL	1300	2.6	11	23	120	0.03	250	<1	8400	1300	<0.5	3.3	<PQL
	Blocks E to G	103	<PQL	<PQL	40	<PQL	53	<PQL	<PQL	1.1	2.1	5.4	77	<PQL	3.4	<PQL	33	<PQL	0.25	<PQL	190	44	0.13	<PQL	<PQL
		104	<PQL	<PQL	140	3.6	120	0.64	15	3.9	16	40	300	<PQL	13	<PQL	110	<PQL	15	<0.1	2600	180	<PQL	1.0	<PQL
	QA Sample	D1	<PQL	<PQL	34	<PQL	480	<PQL	<PQL	<PQL	<PQL	<PQL	250	2.5	<PQL	<PQL	14	<PQL	NT	NT	NT	NT	NT	NT	<PQL
15 May 2008	Marina village	101	2.8	8.0	7.1	<PQL	110	<PQL	1.1	1.4	<PQL	1.7	44	4.4	2.1	<PQL	58	<PQL	5.7	0.08	18	4.5	1.7	3.2	<PQL
		102	2.9	1.4	15	<PQL	600	<PQL	1.0	2.0	<PQL	<PQL	57	12	1.3	<PQL	22	<PQL	4.6	0.05	550	72	0.28	0.79	<PQL
	Blocks E to G	103	1.0	<PQL	46	<PQL	59	<PQL	1.1	6.9	<PQL	15	30	1.1	2.4	<PQL	35	<PQL	0.8	0.06	150	52	<PQL	<PQL	<PQL
		104	<PQL	<PQL	78	4.4	120	0.16	4.3	4.8	2.9	29	30	<1.0	8.4	<PQL	210	<PQL	12	0.03	3000	170	0.47	0.8	<PQL
Laboratory PQL			1	1	1	1	1	0.1	1	1	1	1	1	1	1	2	1	0.03[1]/ 0.05[2]	0.01	0.05[1]/ 0.02[2]	1[1]/ 0.1[2]	1[1]/ 0.4[2]	0.1[1]/ 0.05[2]	1[1]/ 0.2[2]	5E-4[1]/ 1E-4[2]

Notes to Table 3:
PQL – Practical quantification limit
1 – PQL for October 2007 Testing
2 – PQL for May 2008 Testing
Sample D1 is a duplicate of Sample 101 during the October 2007 sampling
NT – Not tested

We trust this meets with your current requirements. Please do not hesitate to contact the undersigned if you require additional information.

Yours faithfully
DOUGLAS PARTNERS PTY LTD

Reviewed by:

Julie Wharton
Associate

John Harvey
Principal

References

1. Douglas Partners Pty Ltd, "Report on Geotechnical Investigation, Proposed Trinity Point Marina and Tourist Development, 49 Lakeview Road, Morisset Park", Report No 39823, 5 December 2007.

Attachments

Laboratory Test Results
Chain of Custody Sheets
Drawing 2 – Test Location Plan from Ref 1

Copy to:
Mr Dan Messiter - Worley Parsons (by email)

20 May 2008 **TEST REPORT**

Douglas Partners Pty Ltd
Box 324
Hunter Region Mail Centre
NSW 2310

Your Reference: 39823.04, Morisset
Report Number: 60994

Attention: Julie Wharton

Dear Julie
The following samples were received from you on the date indicated.

Samples: Qty.	5 Waters
Date of Receipt of Samples:	16/5/08
Date of Receipt of Instructions:	16/5/08
Date Preliminary Report Emailed:	Not Issued

These samples were analysed in accordance with your written instructions.
A copy of the instructions is attached with the analytical report.

The results and associated quality control are contained in the following pages of this report. Unless otherwise stated, solid samples are expressed on a dry weight basis (moisture has been supplied for your information only), air and liquid samples as received.

Should you have any queries regarding this report please contact the undersigned.

Yours faithfully
SGS ENVIRONMENTAL SERVICES

Edward Ibrahim
Lab Manager

SGS Australia Pty Ltd
ABN 44 000 964 278
Environmental Services Unit 16, 33 Maddox Street, Alexandria Australia
t (02) 8594 0400 f (02) 8594 0499
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Member of the SGS Group

Inorganics Our Reference: Your Reference Sample Type Date Sampled	UNITS ---------- ----------	60994-1 101 Water 15/05/2008	60994-2 102 Water 15/05/2008	60994-3 103 Water 15/05/2008	60994-4 104 Water 15/05/2008
Date Extracted		20/05/2008	20/05/2008	20/05/2008	20/05/2008
Date Analysed		20/05/2008	20/05/2008	20/05/2008	20/05/2008
Nitrite as N	mg/L	0.010	<0.010	<0.010	<0.010
Nitrate as N	mg/L	0.080	0.050	0.060	0.030
Date Extracted (Total P)		20/05/2008	20/05/2008	20/05/2008	20/05/2008
Date Analysed (Total P)		20/05/2008	20/05/2008	20/05/2008	20/05/2008
Total Phosphorus	mg/L	1.7	0.28	<0.05	0.47
Date Extracted (TKN)		20/05/2008 20/05/2008	20/05/2008 20/05/2008	20/05/2008 20/05/2008	20/05/2008 20/05/2008
Date Analysed (TKN)		20/05/2008	20/05/2008	20/05/2008	20/05/2008
Total Kjeldahl Nitrogen	mg/L	3.2	0.8	<0.2	0.8
Total Nitrogen	mg/L	3.2	0.79	<0.20	0.85

Anions in water Our Reference: Your Reference Sample Type Date Sampled	UNITS ---------- ----------	60994-1 101 Water 15/05/2008	60994-2 102 Water 15/05/2008	60994-3 103 Water 15/05/2008	60994-4 104 Water 15/05/2008
Date Extracted		19/05/2008	19/05/2008	19/05/2008	19/05/2008
Date Analysed		19/05/2008	19/05/2008	19/05/2008	19/05/2008
Chloride, Cl	mg/L	18	550	150	3,000
Sulphate, SO4	mg/L	4.5	72	52	170

Trace HM (ICP-MS)-Dissolved Our Reference: Your Reference Sample Type Date Sampled	UNITS ---------- ----------	60994-1 101 Water 15/05/2008	60994-2 102 Water 15/05/2008	60994-3 103 Water 15/05/2008	60994-4 104 Water 15/05/2008
Date Extracted (Metals-ICPMS)		16/05/2008	16/05/2008	16/05/2008	16/05/2008
Date Analysed (Metals-ICPMS)		16/05/2008	16/05/2008	16/05/2008	16/05/2008
Arsenic	µg/L	8.0	1.4	<1.0	<1.0
Cadmium	µg/L	<0.10	<0.10	<0.10	0.16
Chromium	µg/L	1.1	1.0	1.1	4.3
Copper	µg/L	1.4	2.0	6.9	4.8
Lead	µg/L	1.7	<1.0	15	29
Zinc	µg/L	58	22	35	210
Nickel	µg/L	2.1	1.3	2.4	8.4
Cobalt	µg/L	<1.0	<1.0	<1.0	2.9
Beryllium	µg/L	<1.0	<1.0	<1.0	4.4
Boron	µg/L	110	600	59	120
Barium	µg/L	7.1	15	46	78
Antimony	µg/L	2.8	2.9	1.0	<1.0
Manganese	µg/L	44	57	30	30
Molybdenum	µg/L	4.4	12	1.1	<1.0
Selenium	µg/L	<2.0	<2.0	<2.0	<2.0

Trace HM (ICP-MS)-Totals Our Reference: Your Reference Sample Type Date Sampled	UNITS ---------- ----------	60994-1 101 Water 15/05/2008	60994-2 102 Water 15/05/2008	60994-3 103 Water 15/05/2008	60994-4 104 Water 15/05/2008
Date Extracted (Metals-ICPMS)		19/05/2008	19/05/2008	19/05/2008	19/05/2008
Date Analysed (Metals-ICPMS)		19/05/2008	19/05/2008	19/05/2008	19/05/2008
Iron (Total)*	µg/L	5,700	4,600	800	12,000

Metals in water by ICP-OES Our Reference: Your Reference Sample Type Date Sampled	UNITS --- ---	60994-1 101 Water 15/05/2008	60994-2 102 Water 15/05/2008	60994-3 103 Water 15/05/2008	60994-4 104 Water 15/05/2008
Date Extracted (Metals)		19/05/2008	19/05/2008	19/05/2008	19/05/2008
Date Analysed (Metals)		19/05/2008	19/05/2008	19/05/2008	19/05/2008
Tin (Dissolved)	mg/L	<0.05	<0.05	<0.05	<0.05

Mercury Cold Vapor/Hg Analyser Our Reference: Your Reference Sample Type Date Sampled	UNITS ---------- ----------	60994-1 101 Water 15/05/2008	60994-2 102 Water 15/05/2008	60994-3 103 Water 15/05/2008	60994-4 104 Water 15/05/2008
Date Extracted (Mercury)		19/05/2008	19/05/2008	19/05/2008	19/05/2008
Date Analysed (Mercury)		19/05/2008	19/05/2008	19/05/2008	19/05/2008
Mercury (Dissolved)	mg/L	<0.0001	<0.0001	<0.0001	<0.0001

Method ID	Methodology Summary
AN277	
AN276	
AN293	Determination of Total Phosphorus by discrete analyser following digestion with Sulphuric Acid, K2SO4 and HgSO4. Method based on APHA 4500-P E / USEPA 365.4.
AN292	Determination of Total Kjeldahl Nitrogen by discrete analyser following digestion with Sulphuric Acid, K2SO4 and HgSO4. Method based on APHA 4500-Norg D / USEPA 351.2.
SEI-033	Total Kjeldahl Nitrogen - determined titrimetrically, in accordance with APHA 20th ED, 4500-Norg B.
SEI-038	Anions - a range of Anions are determined by Ion Chromatography, in accordance with APHA 20th ED, 4110-B.
SEP-015	Water sample is digested with Nitric Acid at 105°C for total metals analysed by ICPMS.
AN318	Determination of elements at trace levels in waters by ICP-MS. Method based on USEPA 6020A
SEM-010	Metals - Determination of various metals by ICP-OES following appropriate sample preparation or digestion process.
SEM-005	Mercury - Determination of Mercury by Cold Vapour Generation Atomic Absorption Spectroscopy.

QUALITY CONTROL Inorganics	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted				20/05/2008	60994-1	20/05/2008 || 20/05/2008	LCS	20/05/2008%
Date Analysed				20/05/2008	60994-1	20/05/2008 || 20/05/2008	LCS	20/05/2008%
Nitrite as N	mg/L	0.01	AN277	<0.010	60994-1	0.010 || <0.010	LCS	95%
Nitrate as N	mg/L	0.01	AN276	<0.010	60994-1	0.080 || 0.070 || RPD: 13	LCS	94%
Date Extracted (Total P)				20/05/2008	60994-1	20/05/2008 || 20/05/2008	LCS	20/05/2008%
Date Analysed (Total P)				20/05/2008	60994-1	20/05/2008 || 20/05/2008	LCS	20/05/2008%
Total Phosphorus	mg/L	0.05	AN293	<0.05	60994-1	1.7 || 1.7 || RPD: 0	LCS	103%
Date Extracted (TKN)				20/05/2008	60994-1	20/05/200820/05/2008 || 20/05/200820/05/2008	LCS	20/05/2008%
Date Analysed (TKN)				20/05/2008	60994-1	20/05/2008 || 20/05/2008	LCS	20/05/2008%
Total Kjeldahl Nitrogen	mg/L	0.2	AN292	<0.2	60994-1	3.2 || 3.2 || RPD: 0	LCS	101%
Total Nitrogen	mg/L	0.2	SEI-033	<0.20	60994-1	3.2 || 3.2 || RPD: 0	[NR]	[NR]
QUALITY CONTROL Anions in water	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted				19/05/08	60994-1	19/05/2008 || 19/05/2008	LCS	19/05/08%
Date Analysed				19/05/08	60994-1	19/05/2008 || 19/05/2008	LCS	19/05/08%
Chloride, Cl	mg/L	0.1	SEI-038	<0.1	60994-1	18 || 17 || RPD: 6	LCS	110%
Sulphate, SO4	mg/L	0.4	SEI-038	<0.4	60994-1	4.5 || 4.5 || RPD: 0	LCS	108%
QUALITY CONTROL Trace HM (ICP-MS)-Dissolved	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted (Metals-ICPMS)			SEP-015	16/05/08	[NT]	[NT]	LCS	16/05/08%
Date Analysed (Metals-ICPMS)			SEP-015	16/05/08	[NT]	[NT]	LCS	16/05/08%
Arsenic	µg/L	1	AN318	<1.0	[NT]	[NT]	LCS	92%
Cadmium	µg/L	0.1	AN318	<0.10	[NT]	[NT]	LCS	94%
Chromium	µg/L	1	AN318	<1.0	[NT]	[NT]	LCS	91%
Copper	µg/L	1	AN318	<1.0	[NT]	[NT]	LCS	92%
Lead	µg/L	1	AN318	<1.0	[NT]	[NT]	LCS	99%
Zinc	µg/L	1	AN318	<1.0	[NT]	[NT]	LCS	94%
Nickel	µg/L	1	AN318	<1.0	[NT]	[NT]	LCS	89%

QUALITY CONTROL Trace HM (ICP-MS)-Dissolved	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Cobalt	µg/L	1	AN318	<1.0	[NT]	[NT]	LCS	98%
Beryllium	µg/L	1	AN318	<1.0	[NT]	[NT]	LCS	93%
Boron	µg/L	1	AN318	<1.0	[NT]	[NT]	LCS	92%
Barium	µg/L	1	AN318	<1.0	[NT]	[NT]	LCS	94%
Antimony	µg/L	1	AN318	<1.0	[NT]	[NT]	LCS	112%
Manganese	µg/L	1	AN318	<1.0	[NT]	[NT]	LCS	95%
Molybdenum	µg/L	1	AN318	<1.0	[NT]	[NT]	LCS	85%
Selenium	µg/L	2	AN318	<2.0	[NT]	[NT]	LCS	92%
QUALITY CONTROL Trace HM (ICP-MS)-Totals	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted (Metals-ICPMS)			SEP-015	19/05/08	[NT]	[NT]	LCS	19/05/08%
Date Analysed (Metals-ICPMS)			SEP-015	19/05/08	[NT]	[NT]	LCS	19/05/08%
Iron (Total)*	µg/L	5	AN318	<5.0	[NT]	[NT]	LCS	99%
QUALITY CONTROL Metals in water by ICP-OES	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted (Metals)				19/05/08	[NT]	[NT]	LCS	19/05/08%
Date Analysed (Metals)				19/05/08	[NT]	[NT]	LCS	19/05/08%
Tin (Dissolved)	mg/L	0.05	SEM-010	<0.05	[NT]	[NT]	LCS	96%
QUALITY CONTROL Mercury Cold Vapor/Hg Analyser	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted (Mercury)				19/05/08	[NT]	[NT]	LCS	19/05/08%
Date Analysed (Mercury)				19/05/08	[NT]	[NT]	LCS	19/05/08%
Mercury (Dissolved)	mg/L	0.0001	SEM-005	<0.0001	[NT]	[NT]	LCS	88%

QUALITY CONTROL Hold sample-NO test required	UNITS	LOR	METHOD	Blank
Sample on HOLD				[NT]

Result Codes

[INS]	:	Insufficient Sample for this test	[RPD]	:	Relative Percentage Difference
[NR]	:	Not Requested	*	:	Not part of NATA Accreditation
[NT]	:	Not tested	[N/A]	:	Not Applicable

Report Comments

Date Organics extraction commenced:
NATA Corporate Accreditation No. 2562, Site No 4354
Note: Test results are not corrected for recovery (excluding Dioxins/Furans* and PAH in XAD and PUF).
This document is issued, on the Client's behalf, by the Company under its General Conditions of Service available on request and accessible at http://www.sgs.com/terms_and_conditions.htm. The Client's attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

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Quality Control Protocol

Method Blank: An analyte free matrix to which all reagents are added in the same volume or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. A method blank is prepared every 20 samples.
Duplicate: A separate portion of a sample being analysed that is treated the same as the other samples in the batch. One duplicate is processed at least every 10 samples.
Surrogate Spike: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are added to samples before extraction to monitor extraction efficiency and percent recovery in each sample.
Internal Standard: Added to all samples requiring analysis for organics (where relevant) or metals by ICP after the extraction/digestion process; the compounds/elements serve to give a standard of retention time and/or response, which is invariant from run-to-run with the instruments.
Laboratory Control Sample: A known matrix spiked with compound(s) representative of the target analytes. It is used to document laboratory performance. When the results of the matrix spike analysis indicates a potential problem due to the sample matrix itself, the LCS results are used to verify that the laboratory can perform the analysis in a clean matrix.
Matrix Spike: An aliquot of sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Quality Acceptance Criteria

Unless otherwise specified in the test method, the following general acceptance criteria apply:

Method Blanks:	<LOR
Duplicates:	<5 x LOR: No RPD criteria applied.
	>5 x LOR: 0-30% RPD is accepted.
LCS's:	Determined by Control Charts.
	Where control charts have not been developed, the Matrix Spikes criteria apply.
Matrix Spikes:	70-130% recovery is accepted for metals / inorganics.
	60-140% is accepted for organics.
Surrogates:	60-130% recovery is accepted for BTEX.
	70-130% recovery is accepted for other organics.

W017 - W019

Temp - 9°C

Douglas Partners
Geotechnics · Environment · Groundwater

CHAIN OF CUSTODY DESPATCH SHEET

Project Name: Morisset
Project No: 39823.04 DP Order No: 75236
DP Contact Person: Julie Wharton / Dana Wilson
Prior Storage: (esky) fridge / shelved (circle)

To: SGS Australia PTY LTD
Unit 16/33 Maddox Street
ALEXANDRIA NSW 2015
Ph: (02) 8594 0400
Attn: Matt Hill

Sample ID	Date Sampled	Sample Type S-soil W-water	Lab ID	Analytes: Nitrite Nitrate	Total Iron	Total P	Total N	Chloride	Sulphide	ANZECC 17 Metals						TCLP	Notes
101	15-5-08	W	1	✓	✓	✓	✓	✓	✓	✓							Analysis to ANZECC 2000 levels.
102	↓	↓	2	↓	↓	↓	↓	↓	↓	↓							
103			3														
104			4														
0101			5														please hold duplicate sample
PQL (S)		mg/kg															
PQL (W)		mg/L								Hg 0.1 µg/L							

Received 16/5
By D
Time 9 am
Sample Intact (Y)
Cooler Pack (Y) No
Comments: 60994

PQL = practical quantitation limit *As per Laboratory Method (Detection Limit)
# - Metals to Analyse (Please circle): As Cd Cr Cu Pb Zn Hg Ni (Other)
Co + Be + B + Ba + Sb + Mn + Mo + Se + Sn.
Date relinquished: 15/5/08
Total number of samples in container: 5
Results required by: within 36-48hrs.
TAT (Circle): Standard 72 hr (48hr) 24hr

SAMPLES RECEIVED
Please sign and date to acknowledge receipt of samples and return by fax
Signature:
Date: 16/5 Lab Ref: 60994

Send results to:
Douglas Partners Pty Ltd
Address:
BOX 324 Hunter Region Mail Centre
NSW 2310
Fax: (02) 4960 9601

SGS Environmental Services
Unit 16, 33 Maddox St. Alexandria NSW 2015
Telephone Number : (+61 2) 8594 0400
Fax Number : (+61 2) 8594 0499

SAMPLE RECEIPT CONFIRMATION

COMPANY	:	Douglas Partners Pty Ltd	FAX NO.	:	02 4960 9601
ATTENTION	:	Julie Wharton	PAGES	:	1
FROM	:	Sample Receipt	DATE	:	16/05/08

This is to confirm that samples for Project **39823.04, Morisset** were received on **16/5/08** the results are expected to be ready on **20/05/2008** . Please quote SGS Reference: **60994** when making enquiries regarding this project. Please refer to below which details information about the integrity of the samples and other useful information.

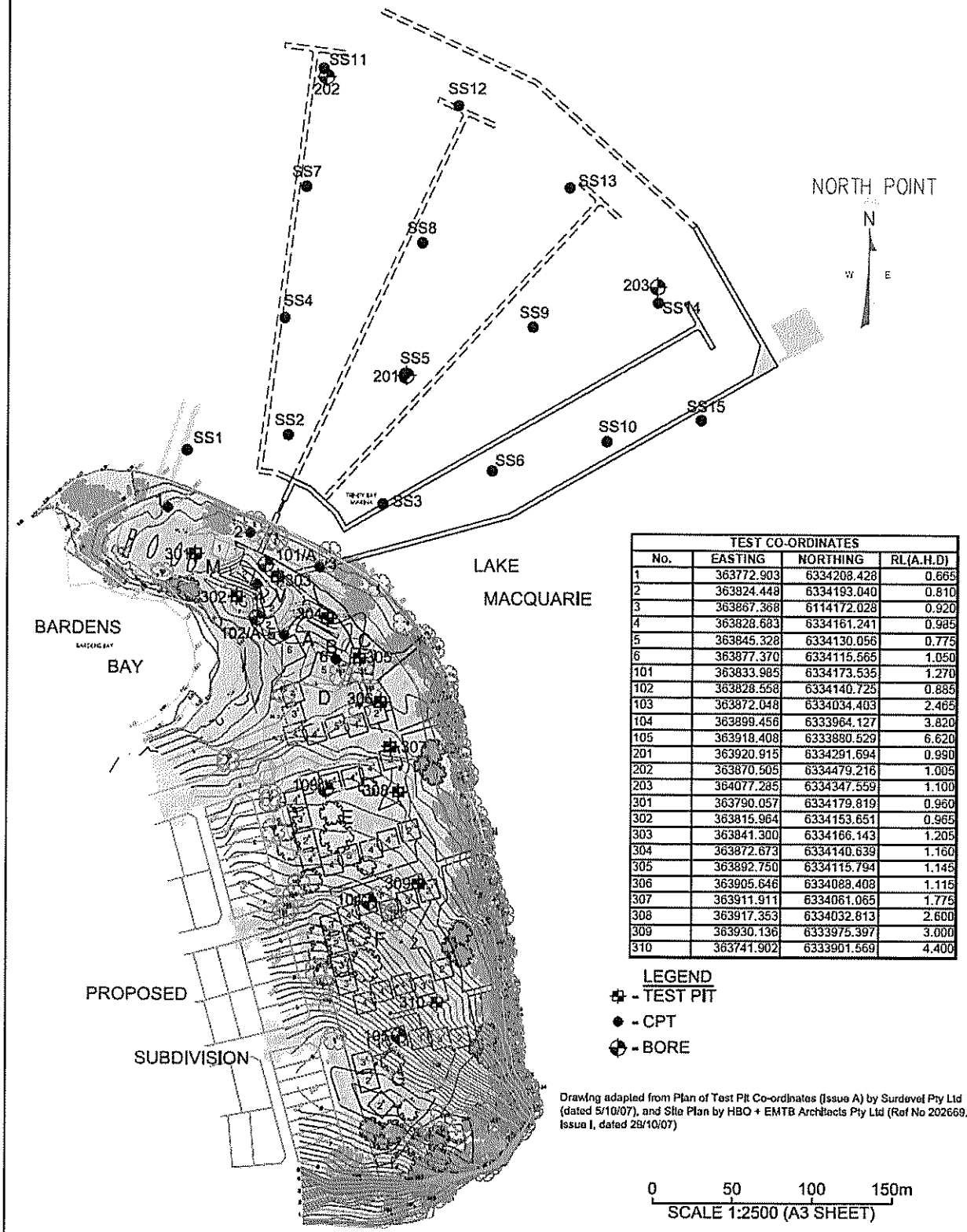
Samples will be held for 1 month for water samples and 2 months for soil samples from date of receipt of samples, unless otherwise instructed.

Samples received in good order:	YES
Samples received in correct containers:	YES
Samples received without headspace:	YES
Sufficient quantity supplied:	YES
Upon receipt sample temperature:	Cool
Cooling Method:	Ice
Sample containers provided by:	SGS
Samples Clearly Labelled:	YES
Turnaround time requested:	48hr
Completed documentation received:	YES

Comments:

Terms and conditions are available from www.au.sgs.com

The signed chain of custody will be returned to you with the original report.



TEST CO-ORDINATES			
No.	EASTING	NORTHING	RL(A.H.D)
1	363772.903	6334208.428	0.665
2	363824.448	6334193.040	0.810
3	363867.368	6114172.028	0.920
4	363828.683	6334161.241	0.985
5	363845.328	6334130.056	0.775
6	363877.370	6334115.565	1.050
101	363833.985	6334173.535	1.270
102	363828.558	6334140.725	0.885
103	363872.048	6334034.403	2.465
104	363899.456	6333964.127	3.820
105	363918.408	6333880.529	6.620
201	363920.915	6334291.694	0.990
202	363870.505	6334479.216	1.005
203	364077.285	6334347.559	1.100
301	363790.057	6334179.819	0.960
302	363815.964	6334153.651	0.965
303	363841.300	6334166.143	1.205
304	363872.673	6334140.639	1.160
305	363892.750	6334115.794	1.145
306	363905.646	6334088.408	1.115
307	363911.911	6334061.065	1.775
308	363917.353	6334032.813	2.600
309	363930.136	6333975.397	3.000
310	363741.902	6333901.569	4.400

Drawing adapted from Plan of Test Pit Co-ordinates (Issue A) by Surdevel Pty Ltd (dated 5/10/07), and Site Plan by HBO + EMTB Architects Pty Ltd (Ref No 202669, Issue I, dated 29/10/07)

0 50 100 150m
SCALE 1:2500 (A3 SHEET)

Douglas Partners
Geotechnics Environment Groundwater

Sydney, Newcastle, Brisbane, Melbourne, Perth, Wyong,

Wollongong, Campbelltown, Townsville, Cairns, Darwin

TITLE: TEST LOCATION PLAN - GEOTECHNICAL INVESTIGATION
PROPOSED TRINITY POINT MARINA AND TOURIST DEVELOPMENT
49 LAKEVIEW ROAD, MORISSET PARK

CLIENT: JOHNSON PROPERTY GROUP PTY LTD			OFFICE: NEWCASTLE
DRAWN BY: PLH	SCALE: 1:2500	PROJECT No. 39823	
APPROVED BY:		DATE:	DRAWING No: 2