

Report Information
 Customer Sample Description Springview Bore - Untreated
 Sampling Point 97209-LT Green Energy
 Sampled Date 10/02/2010 12:00:00AM
 Sample Received Date 11/02/2010 12:17:42PM
 Sample ID 2010-001-1560

Analytical Results

	LOR	Before	After	
Inorganic Chemistry - Metals LOR Result				
Boron - Soluble	0.2	0.221 mg/L	0.222 mg/L	0%
Calcium	0.04	67 mg/L	0.42 mg/L	99%
Ion balance 2.31 %				
Langelier Index		0.13	-0.37	
Magnesium	0.04	79.6 mg/L	0.34 mg/L	100%
Potassium	0.04	14 mg/L	0 mg/L	100%
Sodium Adsorption Ratio - Calculation		7.79	0.93	88%
Sodium	0.04	398 mg/L	3.34 mg/L	99%
Sulphate	1.5	158 mg/L	1.5 mg/L	99%
Total Hardness as CaCO3	2	495 mg/L	2 mg/L	100%
Chloride	4	590 mg/L	96 mg/L	84%
Nitrate + Nitrite as N	0.005	0.298 mg/L	0.068 mg/L	77%
Nitrate as Nitrogen	0.005	0.266 mg/L	0.05 mg/L	81%
Nitrite as Nitrogen	0.005	0.032 mg/L	0.018 mg/L	44%
Phosphorus - Total	0.005	0.066 mg/L	0.015 mg/L	77%
Alkalinity as Calcium Carbonate		318 mg/L	41 mg/L	87%
Bicarbonate		388 mg/L	50 mg/L	87%
Carbonate		0 mg/L	0 mg/L	
Hydroxide		0 mg/L	0 mg/L	
Conductivity		2700 uscm	320 uscm	
Total Dissolved Solids (by EC)	1	1500 mg/L	180 mg/L	88%
pH		7.4 pH units	6.6 pH units	

LT Green Energy
ATTN: Brian Tilbrook
PO Box 419
Clare
SA 5453 AUSTRALIA

23/02/2010

Dear Brian

Please find attached the Preliminary Analytical Report for

Customer Service Request: 141516-2010-CSR-1
Account: 141516
Project: AWQC-39276 LT Green Energy - Non Routine 09/10

Sample Date Range: 10-February-2010 to 16-February-2010

Please note AWQC Sample Receipt hours are Monday to Friday 8.30am - 4.30pm.

Yours sincerely,



Sam Loveder
Senior Customer Service Officer
Sam.Loveder@sawater.com.au
1300653366

PRELIMINARY REPORT: 64486

Report Information

Project Name AWQC-39276
Customer LT Green Energy
CSR_ID 141516-2010-CSR-1

Analytical Results

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Sampling Point 97209-LT Green Energy
Sampled Date 10/02/2010 12:00:00AM
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Sample ID 2010-001-1560
Status Inprogress
Collection Type Customer Collected

Inorganic Chemistry - Metals

	LOR	Result
Boron - Soluble TIC-003 W09-023		
Boron - Soluble	0.020	0.221 mg/L
Calcium TIC-003 W09-023		
Calcium	0.04	67.0 mg/L
Dissolved Solids by Calculation W09-023		
Dissolved solids by calculation	0	1500 mg/L
Ion Balance W09-023		
Ion balance		2.31 %
Langelier Index W09-023		
Langelier Index		0.13
Magnesium TIC-003 W09-023		
Magnesium	0.04	79.6 mg/L
Potassium TIC-003 W09-023		
Potassium	0.040	14.0 mg/L
Sodium Adsorption Ratio W09-023		
Sodium Adsorption Ratio - Calculation		7.79
Sodium TIC-003 W09-023		
Sodium	0.04	398 mg/L
Sulphur TIC-004 W09-023		
Sulphate	1.5	158 mg/L
Total Hardness as CaCO3 W09-023		
Total Hardness as CaCO3	2.0	495 mg/L

Inorganic Chemistry - Nutrients

	LOR	Result
Chloride T0104-02 W09-023		
Chloride	4.0	590 mg/L
Nitrate + Nitrite as N T0161-01 W09-023		
Nitrate + Nitrite as N	0.005	0.298 mg/L
Nitrate as N W09-023		
Nitrate as Nitrogen	0.005	0.266 mg/L
Nitrite as N T0107-01 W09-023		



Corporate Accreditation No.1115
Chemical and Biological Testing
This document is issued in accordance
with NATA's accreditation requirements.

Notes

1. The last figure of the result value is a significant figure.
2. Samples are analysed as received.
3. # determination of the component is not covered by NATA Accreditation.
4. ^ indicates result is out of specification according to the reference Guideline. Refer to Report footer.
5. * indicates incident have been recorded against the sample. Refer to Report footer.
6. & Indicates the results have changed since the last issued report.
7. The Limit of Reporting (LOR) is the lowest concentration of analyte which is reported at the AWQC and is based on the LOQ rounded up to a more readily used value. The Limit of Quantitation (LOQ) is the lowest concentration of analyte for which quantitative results may be obtained within a specified degree of confidence.

PRELIMINARY REPORT: 64486

Analytical Results

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Status	Inprogress
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Nitrite as N T0107-01 W09-023

Nitrite as Nitrogen	0.005	0.032 mg/L
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Phosphorus - Total T0109-01 W09-023

Phosphorus - Total	0.005	0.066 mg/L
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Inorganic Chemistry - Physical

LOR	Result
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Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01 W09-023

Alkalinity as Calcium Carbonate	318 mg/L
Bicarbonate	388 mg/L
Carbonate	0 mg/L
Hydroxide	0 mg/L

Conductivity & Total Dissolved Solids T0016-01 W09-023

Conductivity	1	2700 µScm
Total Dissolved Solids (by EC)	1.0	1500 mg/L

pH T0010-01 W09-023

pH	7.4 pH units
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PRELIMINARY REPORT: 64486

Analytical Results

Customer Sample Description	Springview Bore - Treated
Sampling Point	97209-LT Green Energy
Sampled Date	10/02/2010 12:00:00AM
Sample Received Date	11/02/2010 12:17:36PM
Sample ID	2010-001-1561
Status	Inprogress
Collection Type	Customer Collected

Inorganic Chemistry - Metals

	LOR	Result
Boron - Soluble TIC-003 W09-023		
Boron - Soluble	0.020	0.222 mg/L
Calcium TIC-003 W09-023		
Calcium	0.04	0.42 mg/L
Dissolved Solids by Calculation W09-023		
Dissolved solids by calculation	0	- mg/L
Ion Balance W09-023		
Ion balance		- %
Langelier Index W09-023		
Langelier Index		-3.7
Magnesium TIC-003 W09-023		
Magnesium	0.04	0.34 mg/L
Potassium TIC-003 W09-023		
Potassium	0.040	- mg/L
Sodium Adsorption Ratio W09-023		
Sodium Adsorption Ratio - Calculation		0.93
Sodium TIC-003 W09-023		
Sodium	0.04	3.34 mg/L
Sulphur TIC-004 W09-023		
Sulphate	1.5	<1.5 mg/L
Total Hardness as CaCO3 W09-023		
Total Hardness as CaCO3	2.0	2 mg/L

Inorganic Chemistry - Nutrients

	LOR	Result
Chloride T0104-02 W09-023		
Chloride	4.0	96 mg/L
Nitrate + Nitrite as N T0161-01 W09-023		
Nitrate + Nitrite as N	0.005	0.068 mg/L
Nitrate as N W09-023		
Nitrate as Nitrogen	0.005	0.050 mg/L
Nitrite as N T0107-01 W09-023		
Nitrite as Nitrogen	0.005	0.018 mg/L
Phosphorus - Total T0109-01 W09-023		
Phosphorus - Total	0.005	0.015 mg/L



Corporate Accreditation No.1115
Chemical and Biological Testing
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PRELIMINARY REPORT: 64486

Analytical Results

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Collection Type	Customer Collected

Inorganic Chemistry - Physical

LOR

Result

Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01 W09-023

Alkalinity as Calcium Carbonate		41 mg/L
Bicarbonate		50 mg/L
Carbonate		0 mg/L
Hydroxide		0 mg/L

Conductivity & Total Dissolved Solids T0016-01 W09-023

Conductivity	1	320 µScm
Total Dissolved Solids (by EC)	1.0	180 mg/L

pH T0010-01 W09-023

pH		6.6 pH units
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PRELIMINARY REPORT: 64486

Analytical Method

Analytical Method Code	Description
T0010-01	Determination of pH
T0016-01	Determination of Conductivity
T0101-01	Alkalinity - Automated Acidimetric Titration
T0104-02	Chloride - Automated Flow Colorimetry
T0107-01	Nitrite - Automated Flow Colorimetry
T0109-01	Total Phosphorus - Automated Flow Colorimetry
T0161-01	Nitrate + Nitrate (NOx) - Automated Flow Colorimetry
TIC-003	Elemental Analysis - ICP Mass Spectrometry
TIC-004	Determination of Metals - ICP Spectrometry by ICP2
W-052	Preparation of Samples for Metal Analysis

Sampling Method

Sampling Method Code	Description
W09-023	Sampling Method for Chemical Analyses

Laboratory Information

Laboratory	NATA accreditation ID
Inorganic Chemistry - Metals	1115
Inorganic Chemistry - Nutrients	1115
Inorganic Chemistry - Physical	1115

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