



Water Treatment Solutions

ANNUAL REPORT

Recycled Water Quality Management Plan (RWQMP) Parry House/Hostel Recycling Scheme

Date: 30st September 2017

1. Introduction

Following Appendix K from RWQMP, this report corresponds to the immediately preceding financial year and contains detailed information on sampling results from Parry House-Hostel scheme.

Table 1: Summary of the Parry House-Hostel general information

Name of Scheme	Parry House and Parry Hostel Recycled Water Scheme
Local Government	Shire of Kalamunda
Address of Scheme Owner	74 Warlingham Drive, Lesmurdie
Scheme Information	Reuse treated wastewater as process water in carwash
Location	Parry House - 74 Warlingham Drive, Lesmurdie
Source of recycled water	Waste water from retire village
Volumes of recycled water produced per year	Approx 5,500Klt /year
End uses of the recycled water	Subsurface irrigation
% of recycled water used in each one of the proposed end uses	100% reuse on irrigation
Type of treatment system	Waste Water Treatment Plant – Aerobic Treatment Unit
Location of the WWTP	Coordinates 31° 59'58.21"S; 116° 2'51.85"E
Minimum, average and maximum flows per day	12Klt/d – 15Klt/d – 17Klt/d
Peak inflow of the plant	17Klt/d
Number of people using the recycled water	45
Irrigation area in m ²	3,300m ²
Risk exposure level	Low

Table 2: Approval Record

	Approval Number	Date of Approval	Average WW Volume
Parry House	F-AA 09325	23 rd November 2012	9 Klt/d
Parry House + Hostel (upgrade)	C48/00000	16 th June 2014	15 Klt/d

2. Quality of recycled water

2.1. Guidelines and continual monitoring

Table 3: Guidelines limits

Exposure Risk Level	Continual Monitoring Frequency		
	Parameter	Guideline Limit	Frequency
Low	E. Coli	<1000cfu/100ml	Monthly
	BOD	< 20 mg/L	Monthly
	TSS	< 30 mg/L	Monthly
	pH	6.5 - 8.5	Continual
	Disinfection	Cl: 0.2-2.0 mg/L residual	Continual

2.2 Recycled water quality sampling

Table 4: Summary of laboratory recycled water quality results

Parameter	Units	Frequency of sampling	Total No of samples	Min	Max	Median	Complying
E.Coli	cfu/100ml	Monthly	12	0	0	0	Yes
BoD	mg/L	Monthly	12	5	9	5	Yes
TSS	mg/L	Monthly	12	5	130	42	Slightly over the average
pH		Continuously	12	6.5	8.3	7.4	Yes
Disinfection	mg/L	Continuously	12	0.1	1.1	0.8	Yes

2.3 Sampling Record

Table 5: Sampling summary

Sample Date	Parameter	Results	LAB	Report Number
2016/2017				
July 2016.	E.Coli	0 CFU/100ml	ARL	16-05440
	BOD	5 mg/L	ARL	16-05440
	TSS	84 mg/L	ARL	16-05440
	pH	8.3	AQ Online	
	Disinfection	1.1 mg/L	AQ Online	
August 2016.	E.Coli	0 CFU/100ml	ARL	16-06384
	BOD	9 mg/L	ARL	16-06384
	TSS	13 mg/L	ARL	16-06384
	pH	6.5	AQ Online	
	Disinfection	1.2 mg/L	AQ Online	
Sept 2016.	E.Coli	0 CFU/100ml	ARL	16-07349
	BOD	5 mg/L	ARL	16-07349
	TSS	130 mg/L	ARL	16-07349
	pH	7.1	AQ Online	
	Disinfection	0.5 mg/L	AQ Online	
Oct 2016.	E.Coli	0 CFU/100ml	ARL	16-08421
	BOD	5 mg/L	ARL	16-08421
	TSS	55 mg/L	ARL	16-08421
	pH	8.1	AQ Online	
	Disinfection	1.3 mg/L	AQ Online	
Nov 2016.	E.Coli	0 CFU/100ml	ARL	16-09285
	BOD	5 mg/L	ARL	16-09285
	TSS	97 mg/L	ARL	16-09285
	pH	7.3	AQ Online	
	Disinfection	1.2 mg/L	AQ Online	
Dec 2016.	E.Coli	0 CFU/100ml	ARL	16-10176
	BOD	5 mg/L	ARL	16-10176
	TSS	5 mg/L	ARL	16-10176
	pH	6.8	AQ Online	
	Disinfection	0.36 mg/L	AQ Online	
Jan 2017.	E.Coli	0 CFU/100ml	ARL	17-00818
	BOD	5 mg/L	ARL	17-00818
	TSS	5 mg/L	ARL	17-00818
	pH	7.3	AQ Online	
	Disinfection	0.8 mg/L	AQ Online	

Feb 2017.	E.Coli	0	CFU/100ml	ARL	17-011884
	BOD	5	mg/L	ARL	17-011884
	TSS	6	mg/L	ARL	17-011884
	pH	7.9		AQ Online	
	Disinfection	0.6	mg/L	AQ Online	
March 2017.	E.Coli	0	CFU/100ml	ARL	17-03755
	BOD	5	mg/L	ARL	17-03755
	TSS	21	mg/L	ARL	17-03755
	pH	7.4		AQ Online	
	Disinfection	1.1	mg/L	AQ Online	
April 2017.	E.Coli	0	CFU/100ml	ARL	17-05407
	BOD	5	mg/L	ARL	17-05407
	TSS	28	mg/L	ARL	17-05407
	pH	6.8		AQ Online	
	Disinfection	0.7	mg/L	AQ Online	
May 2017.	E.Coli	0	CFU/100ml	ARL	17-08205
	BOD	5	mg/L	ARL	17-08205
	TSS	20	mg/L	ARL	17-08205
	pH	8.3		AQ Online	
	Disinfection	0.3	mg/L	AQ Online	
June 2017.	E.Coli	0	CFU/100ml	ARL	17-09905
	BOD	5	mg/L	ARL	17-09905
	TSS	45	mg/L	ARL	17-09905
	pH	7.9		AQ Online	
	Disinfection	0.3	mg/L	AQ Online	

Comments on Sampling Summary

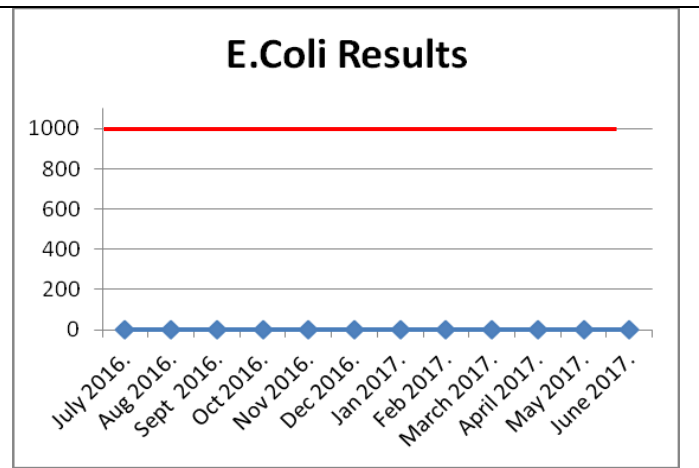
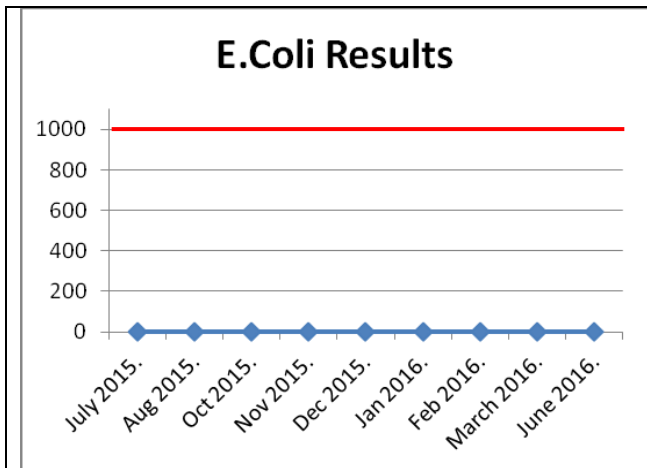
- It is noted that few TSS values are higher than the max allowable limit, this was due to the change of a filtration media, that didn't work as expected.

Although, no major problems encountered in the system due to this issue.

2.4 Comparison against guidelines and data from previous years (limits in red)

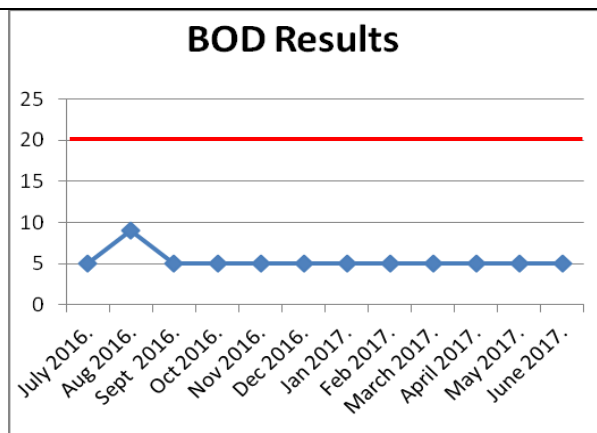
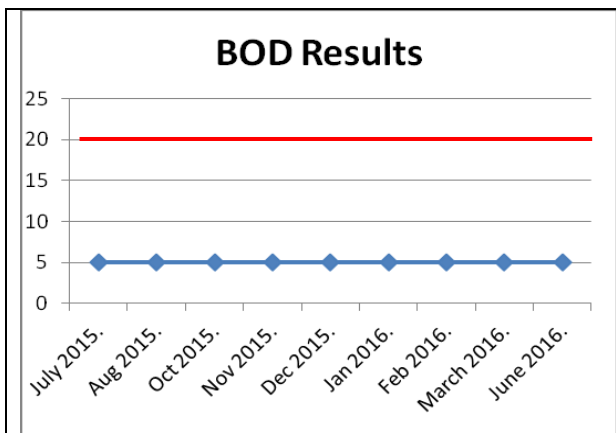
Previous Period

Current Period



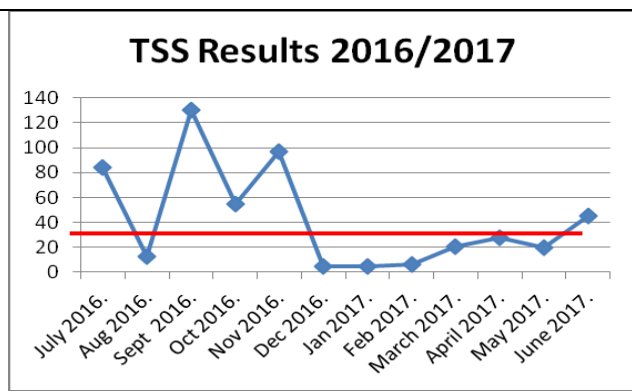
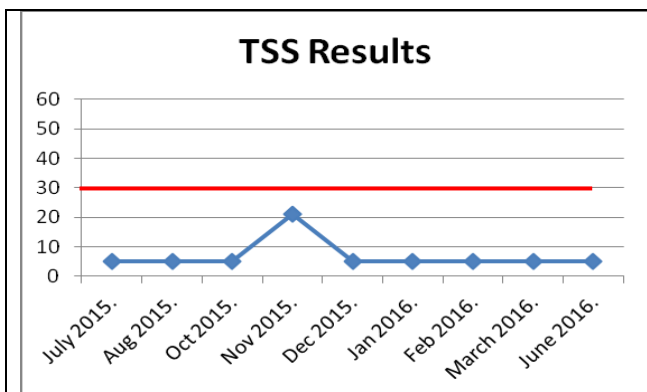
E. Coli results – July 2015 to June 2016

E. Coli results – July 2016 to June 2017



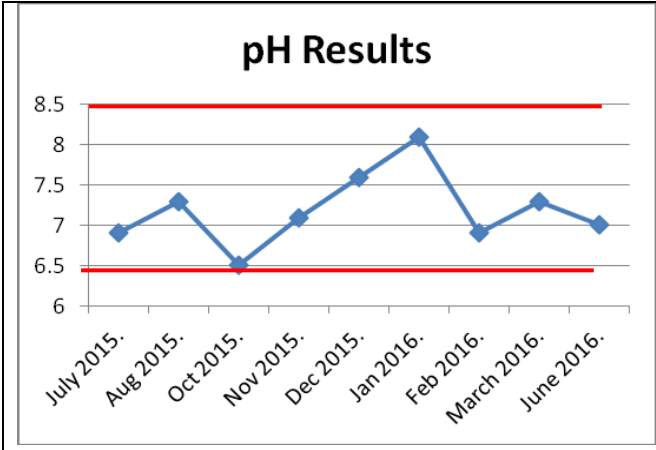
BOD results – July 2015 to June 2016

BOD results - July 2016 to June 2017

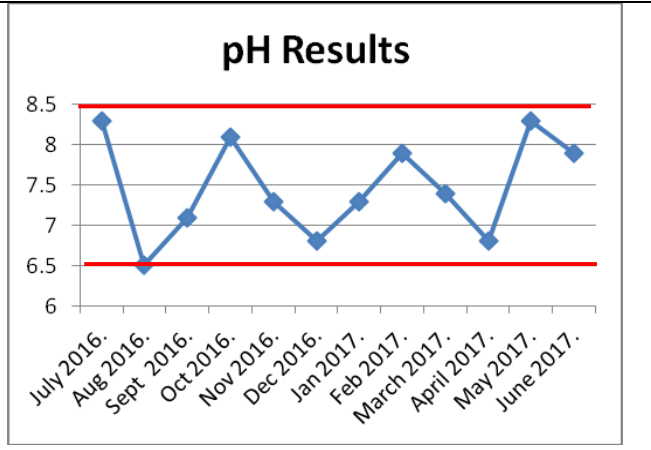


TSS results – July 2015 to June 2016

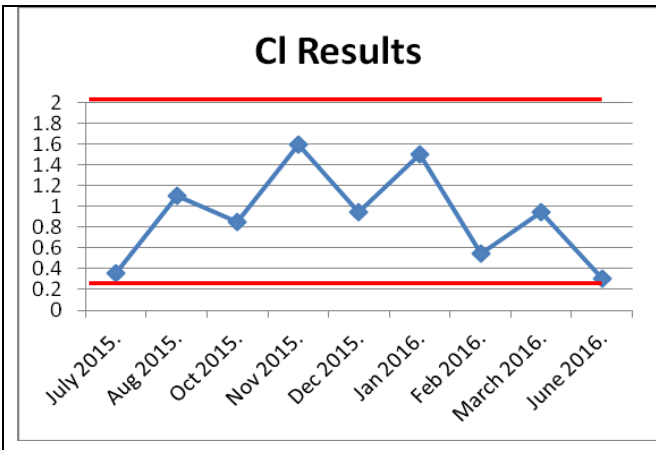
TSS results - July 2016 to June 2017



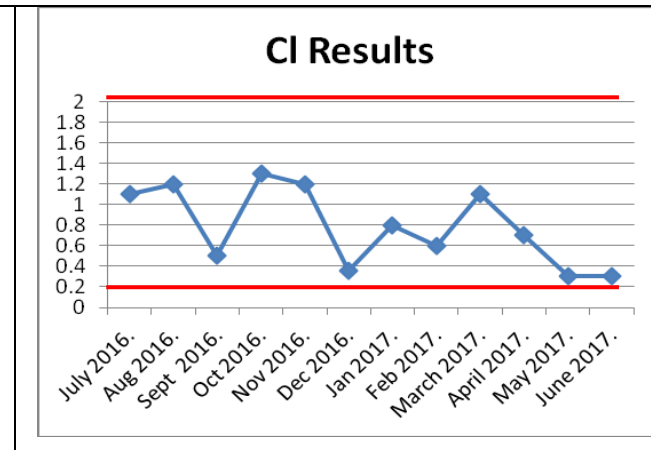
pH results - July 2015 to June 2016



pH results - July 2016 to June 2017



Disinfection results - July 2015 to June 2016



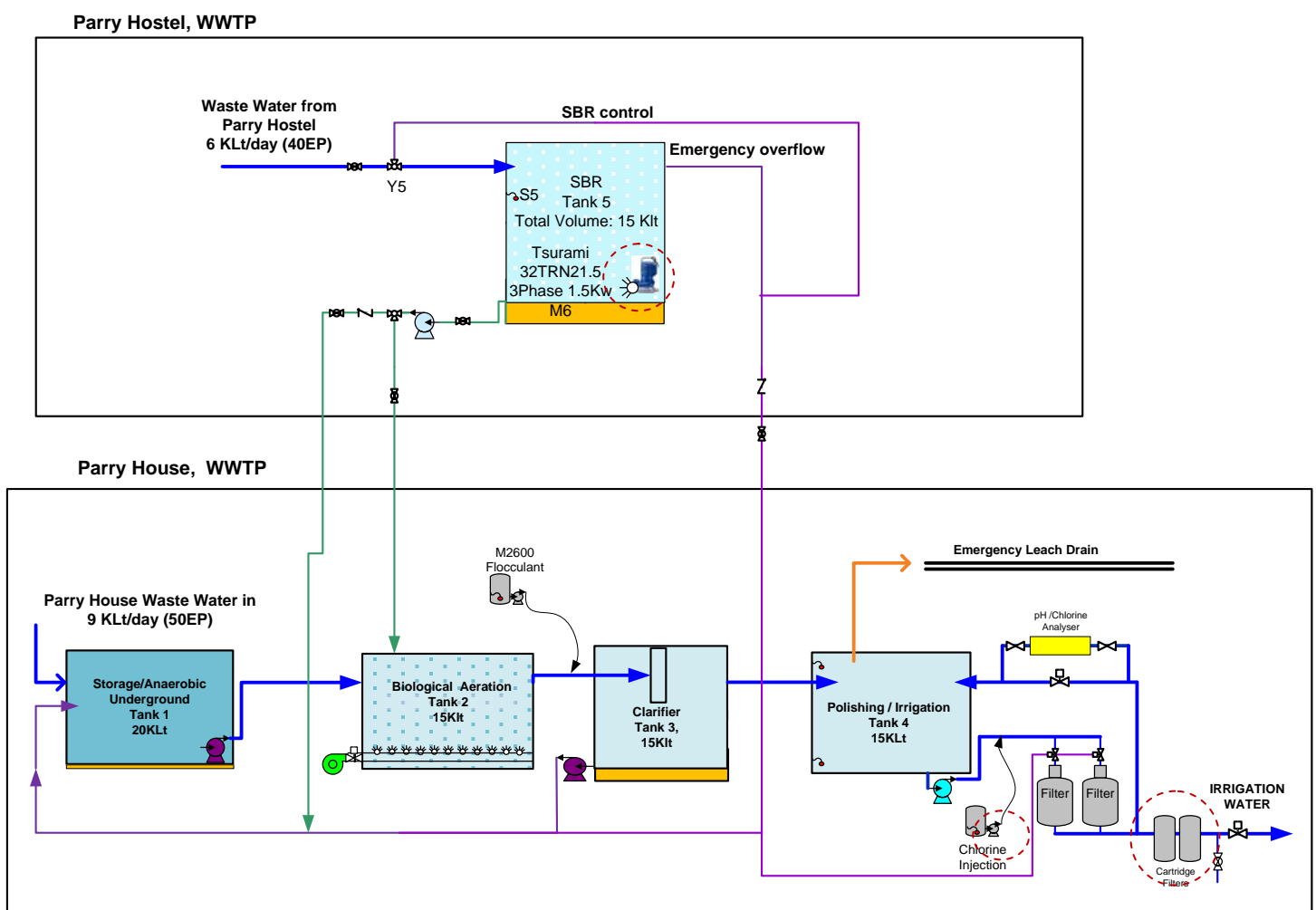
Disinfection results - July 2016 to June 2017

3. Details of Replaced Equipments

As a general maintenance, and to keep system in good running conditions, few equipment were replaced in this period.

List of equipments replaced are detailed below and marked red in drawing.

- Cartridge filter bags
- 1 x sludge pump
- 1 x chemical dose pump (chlorine injection)
- Air Compressor
- Solenoid Coil



4. Emergency and Incident Management

No emergency events were registered in existing Parry House/Hostel WWTP.

5. Complaints

No complaints received during this period.

6. Audit

Refer to Audit package 2016/2017

I trust this information demonstrates that Aquasol has maintained and carried out sampling program as required by the Authority.

In the meantime, should you have any queries regarding the information contained in this report, please do not hesitate to contact Ms Francisca Haro or myself at Aquasol.

Yours Faithfully
Aquasol Pty Ltd



Paul Savage
Technical Director

LABORATORY REPORT

Job Number: 16-05440
Revision: 00
Date: 29 July 2016

ADDRESS: **Aquasol**
82-86 Beringarra Avenue
Malaga WA 6090

ATTENTION: Francisca Haro

DATE RECEIVED: 21/07/2016

YOUR REFERENCE: Parry House

PURCHASE ORDER:

APPROVALS:



Douglas Todd
Laboratory Manager



Sam Becker
Inorganics Manager

REPORT COMMENTS:

Samples are analysed on an as received basis unless otherwise noted.
Microbiological analysis was conducted by ARL Group laboratory ProMicro, Hillarys, NATA Accred No. 2561, Report Number P1616986

METHOD REFERENCES:

ARL No. 016	Total Suspended Solids
ARL No. 011	Biochemical Oxygen Demand
Subcontracting	See Report Comments section for more information.



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NATA Accreditation No. 2377

LABORATORY REPORT

Aquasol

ARL Job No: 16-05440

Revision: 00

Date: 29 July 2016

Physical Parameters Sample No: Sample Description:	LOR	UNITS	16-05440-1 Parry House
Total Suspended Solids	5	mg/L	84

Biochemical Oxygen Demand Sample No: Sample Description:	LOR	UNITS	16-05440-1 Parry House
Biochemical Oxygen Demand	5	mg/L	<5

Microbiology Sample No: Sample Description:	LOR	UNITS	16-05440-1 Parry House
E. Coli	0	CFU/100mL	0

Result Definitions

LOR Limit of Reporting

[NT] Not Tested

[ND] Not Detected at indicated Limit of Reporting

[NR] Analysis Not Requested

(SS) Surrogate Standard Compound - Used for QC purposes. Acceptance Criteria is 60-120%.

* Denotes test not covered by NATA Accreditation

LABORATORY REPORT

Job Number: 16-06384
Revision: 00
Date: 31 August 2016

ADDRESS: **Aquasol**
82-86 Beringarra Avenue
Malaga WA 6090


ATTENTION: Francisca Haro


DATE RECEIVED: 22/08/2016

YOUR REFERENCE: N/A

PURCHASE ORDER:

APPROVALS:


Douglas Todd
Laboratory Manager


Sam Becker
Inorganics Manager

REPORT COMMENTS:

Samples are analysed on an as received basis unless otherwise noted.
Microbiological analysis was conducted by ARL Group laboratory ProMicro, Hillarys, NATA Accred No. 2561, Report Number P1619923

METHOD REFERENCES:

Subcontracting	See Report Comments section for more information.
ARL No. 011	Biochemical Oxygen Demand
ARL No. 016	Total Suspended Solids



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LABORATORY REPORT

Aquasol

ARL Job No: 16-06384

Revision: 00

Date: 31 August 2016

Microbiology Sample No: Sample Description:	LOR	UNITS	16-06384-1 Parry House
E. Coli	0	CFU/100mL	0

Biochemical Oxygen Demand Sample No: Sample Description:	LOR	UNITS	16-06384-1 Parry House
Biochemical Oxygen Demand	5	mg/L	9

Physical Parameters Sample No: Sample Description:	LOR	UNITS	16-06384-1 Parry House
Total Suspended Solids	5	mg/L	13

Result Definitions

LOR Limit of Reporting

[NT] Not Tested

[ND] Not Detected at indicated Limit of Reporting

[NR] Analysis Not Requested

(SS) Surrogate Standard Compound - Used for QC purposes. Acceptance Criteria is 60-120%.

* Denotes test not covered by NATA Accreditation

LABORATORY REPORT

Job Number: 16-07349
Revision: 00
Date: 30 September 2016

ADDRESS: **Aquasol**
82-86 Beringarra Avenue
Malaga WA 6090

ATTENTION: Francisca Haro

DATE RECEIVED: 21/09/2016

YOUR REFERENCE: Parry House

PURCHASE ORDER:

APPROVALS:



Douglas Todd
Laboratory Manager



Sam Becker
Inorganics Manager

REPORT COMMENTS:

Samples are analysed on an as received basis unless otherwise noted.
Microbiological analysis was conducted by ARL Group laboratory ProMicro, Hillarys, NATA Accred No. 2561, Report Number P1622851

METHOD REFERENCES:

ARL No. 016	Total Suspended Solids
ARL No. 011	Biochemical Oxygen Demand
Subcontracting	See Report Comments section for more information.



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LABORATORY REPORT

Aquasol

ARL Job No: 16-07349

Revision: 00

Date: 30 September 2016

Physical Parameters Sample No: Sample Description: Sample Date:	LOR	UNITS	16-07349-1 Parry House
Total Suspended Solids	5	mg/L	130

Biochemical Oxygen Demand Sample No: Sample Description: Sample Date:	LOR	UNITS	16-07349-1 Parry House
Biochemical Oxygen Demand	5	mg/L	<5

Microbiology Sample No: Sample Description: Sample Date:	LOR	UNITS	16-07349-1 Parry House
E. Coli	0	MPN/100mL	<1

Result Definitions

LOR Limit of Reporting

[ND] Not Detected at indicated Limit of Reporting

* Denotes test not covered by NATA Accreditation

[NT] Not Tested

[NR] Analysis Not Requested

LABORATORY REPORT

Job Number: 16-08421
Revision: 00
Date: 3 November 2016

ADDRESS: **Aquasol**
82-86 Beringarra Avenue
Malaga WA 6090


ATTENTION: Francisca Haro


DATE RECEIVED: 27/10/2016

YOUR REFERENCE: Parry House/Hostel Oct 2016

PURCHASE ORDER:

APPROVALS:


Douglas Todd
Laboratory Manager


Sam Becker
Inorganics Manager

REPORT COMMENTS:

Samples are analysed on an as received basis unless otherwise noted.
Microbiological analysis was conducted by ARL Group laboratory ProMicro, Hillarys, NATA Accred No. 2561, Report Number P1626126

METHOD REFERENCES:

ARL No. 016 Total Suspended Solids
ARL No. 011 Biochemical Oxygen Demand
Subcontracting See Report Comments section for more information.



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LABORATORY REPORT

Aquasol

ARL Job No: 16-08421

Revision: 00

Date: 3 November 2016

Physical Parameters Sample No: Sample Description: Sample Date:	LOR	UNITS	16-08421-1 Parry House 27/10/16
Total Suspended Solids	5	mg/L	55

Biochemical Oxygen Demand Sample No: Sample Description: Sample Date:	LOR	UNITS	16-08421-1 Parry House 27/10/16
Biochemical Oxygen Demand	5	mg/L	<5

Microbiology Sample No: Sample Description: Sample Date:	LOR	UNITS	16-08421-1 Parry House 27/10/16
E. Coli	0	MPN/100mL	0

Result Definitions

LOR Limit of Reporting

[ND] Not Detected at indicated Limit of Reporting

* Denotes test not covered by NATA Accreditation

[NT] Not Tested

[NR] Analysis Not Requested

LABORATORY REPORT

Job Number: 16-09285
Revision: 00
Date: 6 December 2016

ADDRESS: **Aquasol**
82-86 Beringarra Avenue
Malaga WA 6090


ATTENTION: Francisca Haro


DATE RECEIVED: 28/11/2016

YOUR REFERENCE: Parry House/Hostel - April 2016

PURCHASE ORDER:

APPROVALS:


Douglas Todd
Laboratory Manager


Sam Becker
Inorganics Manager

REPORT COMMENTS:

Samples are analysed on an as received basis unless otherwise noted.
Microbiological analysis was conducted by ARL Group laboratory ProMicro, Hillarys, NATA Accred No. 2561, Report Number P1628942

METHOD REFERENCES:

ARL No. 016	Total Suspended Solids
ARL No. 011	Biochemical Oxygen Demand
Subcontracting	See Report Comments section for more information.



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NATA Accreditation No. 2377

LABORATORY REPORT

Aquasol

ARL Job No: 16-09285

Revision: 00

Date: 6 December 2016

Physical Parameters	LOR	UNITS	16-09285-1
Sample No:			Treated
Sample Description:			Water
Sample Date:			28/11/16
Total Suspended Solids	5	mg/L	97

Biochemical Oxygen Demand	LOR	UNITS	16-09285-1
Sample No:			Treated
Sample Description:			Water
Sample Date:			28/11/16
Biochemical Oxygen Demand	5	mg/L	<5

Microbiology	LOR	UNITS	16-09285-1
Sample No:			Treated
Sample Description:			Water
Sample Date:			28/11/16
E. Coli	0	CFU/100mL	0

Result Definitions

LOR Limit of Reporting

[ND] Not Detected at indicated Limit of Reporting

* Denotes test not covered by NATA Accreditation

[NT] Not Tested

[NR] Analysis Not Requested

LABORATORY REPORT

Job Number: 16-10176
Revision: 00
Date: 10 January 2017

ADDRESS: **Aquasol**
82-86 Beringarra Avenue
Malaga WA 6090


ATTENTION: Francisca Haro


DATE RECEIVED: 29/12/2016

YOUR REFERENCE: Parry House

PURCHASE ORDER:

APPROVALS:


Douglas Todd
Laboratory Manager


Sam Becker
Inorganics Manager

REPORT COMMENTS:

Samples are analysed on an as received basis unless otherwise noted.
Microbiological analysis was conducted by ARL Group laboratory ProMicro, Hillarys, NATA Accred No. 2561, Report Number P1700071

METHOD REFERENCES:

ARL No. 016 Total Suspended Solids
ARL No. 011 Biochemical Oxygen Demand
Subcontracting See Report Comments section for more information.

LABORATORY REPORT

Aquasol

ARL Job No: 16-10176

Revision: 00

Date: 10 January 2017

Physical Parameters Sample No: Sample Description: Sample Date:	LOR	UNITS	16-10176-1 Parry House 29/12/16
Total Suspended Solids	5	mg/L	<5

Biochemical Oxygen Demand Sample No: Sample Description: Sample Date:	LOR	UNITS	16-10176-1 Parry House 29/12/16
Biochemical Oxygen Demand	5	mg/L	<5

Microbiology Sample No: Sample Description: Sample Date:	LOR	UNITS	16-10176-1 Parry House 29/12/16
E. Coli	0	CFU/100mL	0

Result Definitions

LOR Limit of Reporting

[ND] Not Detected at indicated Limit of Reporting

* Denotes test not covered by NATA Accreditation

[NT] Not Tested

[NR] Analysis Not Requested

LABORATORY REPORT

Job Number: 17-00818
Revision: 00
Date: 8 February 2017

ADDRESS: **Aquasol**
82-86 Beringarra Avenue
Malaga WA 6090

ATTENTION: Paul Savage

DATE RECEIVED: 25/01/2017

YOUR REFERENCE: Parry House

PURCHASE ORDER:

APPROVALS:



Sam Becker
Inorganics Manager



Wafa Hanna
Microbiologist

REPORT COMMENTS:

This report is issued by Analytical Reference Laboratory (WA) Pty Ltd
Samples are analysed on an as received basis unless otherwise noted.

METHOD REFERENCES:

Methods prefixed with "ARL" are covered under NATA Accreditation Number: 2377

Methods prefixed with "PM" are covered under NATA Accreditation Number: 2561

ARL No. 011 Biochemical Oxygen Demand

ARL No. 016 Total Suspended Solids

PM 4.3 Thermotolerant Coliforms and E. coli by Membrane Filtration



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Accredited for compliance with
ISO/IEC 17025 - Testing

ARL GROUP

46-48 Banksia Road, Welshpool, Western Australia 6106

Telephone: 08 6253 4444 Facsimile: 08 6253 4440 www.arlwa.com.au www.promicro.com.au

LABORATORY REPORT

Aquasol

ARL Job No: 17-00818

Revision: 00

Date: 8 February 2017

Biochemical Oxygen Demand Sample No: Sample Description: Sample Date:	LOR	UNITS	17-00818-1 Parry House 25/01/2017
Biochemical Oxygen Demand	5	mg/L	<5

Physical Parameters Sample No: Sample Description: Sample Date:	LOR	UNITS	17-00818-1 Parry House 25/01/2017
Total Suspended Solids	5	mg/L	<5

Potable Water Microbiology Sample No: Sample Description: Sample Date:	LOR	UNITS	17-00818-1 Parry House 25/01/2017
E. Coli	0	CFU/100mL	0

Result Definitions

LOR Limit of Reporting [NT] Not Tested [ND] Not Detected at indicated Limit of Reporting

* Denotes test not covered by NATA Accreditation

FOR MICROBIOLOGICAL TESTING - The data in this report may not be representative of a lot, batch or other samples and may not necessarily justify the acceptance or rejection of a lot or batch, a product recall or support legal proceedings. Tests are not routinely performed as duplicates unless specifically requested. Changes occur in the bacterial content of biological samples. Samples should be examined as soon as possible after collection, preferably within 6 hrs and must be stored at 4 degrees celcius or below. Samples tested after 24 hrs cannot be regarded as satisfactory because of temperature abuse and variations.

LABORATORY REPORT

Job Number: 17-01884
Revision: 00
Date: 24 February 2017

ADDRESS: **Aquasol**
82-86 Beringarra Avenue
Malaga WA 6090

ATTENTION: Francisca Haro

DATE RECEIVED: 15/02/2017

YOUR REFERENCE: Parry House

PURCHASE ORDER:

APPROVALS:



Sam Becker
Inorganics Manager



Ed Reed
Consultant Microbiologist

REPORT COMMENTS:

This report is issued by Analytical Reference Laboratory (WA) Pty Ltd
Samples are analysed on an as received basis unless otherwise noted.

METHOD REFERENCES:

Methods prefixed with "ARL" are covered under NATA Accreditation Number: 2377

Methods prefixed with "PM" are covered under NATA Accreditation Number: 2561

ARL No. 016

Total Suspended Solids

ARL No. 011

Biochemical Oxygen Demand

PM 4.3

Thermotolerant Coliforms and E. coli by Membrane Filtration



WORLD RECOGNISED
ACCREDITATION

Accredited for compliance with
ISO/IEC 17025 - Testing

ARL GROUP

46-48 Banksia Road, Welshpool, Western Australia 6106

Telephone: 08 6253 4444 Facsimile: 08 6253 4440 www.arlwa.com.au www.promicro.com.au

LABORATORY REPORT

Aquasol

ARL Job No: 17-01884

Revision: 00

Date: 24 February 2017

Physical Parameters	LOR	UNITS	
Sample No:			17-01884-1
Sample Description:			Parry House
Sample Date:			15/02/2017
Total Suspended Solids	5	mg/L	6

Biochemical Oxygen Demand	LOR	UNITS	
Sample No:			17-01884-1
Sample Description:			Parry House
Sample Date:			15/02/2017
Biochemical Oxygen Demand	5	mg/L	<5

Water Microbiology	LOR	UNITS	
Sample No:			17-01884-1
Sample Description:			Parry House
Sample Date:			15/02/2017
E. Coli	0	CFU/100mL	0

Result Definitions

LOR Limit of Reporting

[NT] Not Tested

[ND] Not Detected at indicated Limit of Reporting

* Denotes test not covered by NATA Accreditation

FOR MICROBIOLOGICAL TESTING - The data in this report may not be representative of a lot, batch or other samples and may not necessarily justify the acceptance or rejection of a lot or batch, a product recall or support legal proceedings. Tests are not routinely performed as duplicates unless specifically requested. Changes occur in the bacterial content of biological samples. Samples should be examined as soon as possible after collection, preferably within 6 hrs and must be stored at 4 degrees celcius or below. Samples tested after 24 hrs cannot be regarded as satisfactory because of temperature abuse and variations.

LABORATORY REPORT

Job Number: 17-03755
Revision: 00
Date: 28 March 2017

ADDRESS: **Aquasol**
82-86 Beringarra Avenue
Malaga WA 6090

ATTENTION: Francisca Haro

DATE RECEIVED: 15/03/2017

YOUR REFERENCE: Parry House

PURCHASE ORDER:

APPROVALS:



Douglas Todd
Laboratory Manager



Sam Becker
Inorganics Manager



Ed Reed
Consultant Microbiologist

REPORT COMMENTS:

This report is issued by Analytical Reference Laboratory (WA) Pty Ltd
Samples are analysed on an as received basis unless otherwise noted.

METHOD REFERENCES:

Methods prefixed with "ARL" are covered under NATA Accreditation Number: 2377

Methods prefixed with "PM" are covered under NATA Accreditation Number: 2561

ARL No. 016

Total Suspended Solids

ARL No. 011

Biochemical Oxygen Demand

PM 4.3

Thermotolerant Coliforms and E. coli by Membrane Filtration



WORLD RECOGNISED
ACCREDITATION

Accredited for compliance with
ISO/IEC 17025 - Testing

ARL GROUP

46-48 Banksia Road, Welshpool, Western Australia 6106

Telephone: 08 6253 4444 Facsimile: 08 6253 4440 www.arlwa.com.au www.promicro.com.au

LABORATORY REPORT

Aquasol

ARL Job No: 17-03755

Revision: 00

Date: 28 March 2017

Physical Parameters	LOR	UNITS	17-03755-1 Parry House 15/03/17
Sample No:			
Sample Description:			
Sample Date:			
Total Suspended Solids	5	mg/L	21

Biochemical Oxygen Demand	LOR	UNITS	17-03755-1 Parry House 15/03/17
Sample No:			
Sample Description:			
Sample Date:			
Biochemical Oxygen Demand	5	mg/L	<5

Water Microbiology	LOR	UNITS	17-03755-1 Parry House 15/03/17
Sample No:			
Sample Description:			
Sample Date:			
E. Coli	0	CFU/50mL	0

Result Definitions

LOR Limit of Reporting

[NT] Not Tested

[ND] Not Detected at indicated Limit of Reporting

* Denotes test not covered by NATA Accreditation

FOR MICROBIOLOGICAL TESTING - The data in this report may not be representative of a lot, batch or other samples and may not necessarily justify the acceptance or rejection of a lot or batch, a product recall or support legal proceedings. Tests are not routinely performed as duplicates unless specifically requested. Changes occur in the bacterial content of biological samples. Samples should be examined as soon as possible after collection, preferably within 6 hrs and must be stored at 4 degrees Celsius or below. Samples tested after 24 hrs cannot be regarded as satisfactory because of temperature abuse and variations.

LABORATORY REPORT

Job Number: 17-05407
Revision: 00
Date: 26 April 2017

ADDRESS: **Aquasol**
82-86 Beringarra Avenue
Malaga WA 6090

ATTENTION: Paul Savage

DATE RECEIVED: 10/04/2017

YOUR REFERENCE: Parry House

PURCHASE ORDER:

APPROVALS:



Sam Becker
Inorganics Manager



Ed Reed
Consultant Microbiologist

REPORT COMMENTS:

This report is issued by Analytical Reference Laboratory (WA) Pty Ltd
Samples are analysed on an as received basis unless otherwise noted.

METHOD REFERENCES:

Methods prefixed with "ARL" are covered under NATA Accreditation Number: 2377

Methods prefixed with "PM" are covered under NATA Accreditation Number: 2561

ARL No. 016 Total Suspended Solids

ARL No. 011 Biochemical Oxygen Demand

PM 4.3 Thermotolerant Coliforms and E. coli by Membrane Filtration



LABORATORY REPORT

Aquasol

ARL Job No: 17-05407

Revision: 00

Date: 26 April 2017

Physical Parameters Sample No: Sample Description: Sample Date:	LOR	UNITS	17-05407-1 Parry House 10/04/2017
Total Suspended Solids	5	mg/L	28

Biochemical Oxygen Demand Sample No: Sample Description: Sample Date:	LOR	UNITS	17-05407-1 Parry House 10/04/2017
Biochemical Oxygen Demand	5	mg/L	<5

Water Microbiology Sample No: Sample Description: Sample Date:	LOR	UNITS	17-05407-1 Parry House 10/04/2017
E. Coli	0	CFU/50mL	0

Result Definitions

LOR Limit of Reporting

[NT] Not Tested

[ND] Not Detected at indicated Limit of Reporting

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LABORATORY REPORT

Job Number: 17-08205
Revision: 00
Date: 12 June 2017

ADDRESS: **Aquasol**
82-86 Beringarra Avenue
Malaga WA 6090

ATTENTION: Paul Savage

DATE RECEIVED: 29/05/2017

YOUR REFERENCE: Parry House

PURCHASE ORDER:

APPROVALS:



Sam Becker
Inorganics Manager



Ed Reed
Consultant Microbiologist

REPORT COMMENTS:

This report is issued by Analytical Reference Laboratory (WA) Pty Ltd
Samples are analysed on an as received basis unless otherwise noted.

METHOD REFERENCES:

Methods prefixed with "ARL" are covered under NATA Accreditation Number: 2377

Methods prefixed with "PM" are covered under NATA Accreditation Number: 2561

ARL No. 016	Total Suspended Solids
ARL No. 011	Biochemical Oxygen Demand
PM 4.3	Thermotolerant Coliforms and E. coli by Membrane Filtration



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ACCREDITATION**
Accredited for compliance with
ISO/IEC 17025 - Testing

LABORATORY REPORT

Aquasol

ARL Job No: 17-08205

Revision: 00

Date: 12 June 2017

Physical Parameters Sample No: Sample Description: Sample Date:	LOR	UNITS	17-08205-1 Parry House 29/05/17
Total Suspended Solids	5	mg/L	20

Biochemical Oxygen Demand Sample No: Sample Description: Sample Date:	LOR	UNITS	17-08205-1 Parry House 29/05/17
Biochemical Oxygen Demand	5	mg/L	<5

Water Microbiology Sample No: Sample Description: Sample Date:	LOR	UNITS	17-08205-1 Parry House 29/05/17
E. Coli	0	CFU/50mL	0

Result Definitions

LOR Limit of Reporting

[NT] Not Tested

[ND] Not Detected at indicated Limit of Reporting

* Denotes test not covered by NATA Accreditation

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LABORATORY REPORT

Job Number: 17-09905
Revision: 00
Date: 10 July 2017

ADDRESS: **Aquasol**
82-86 Beringarra Avenue
Malaga WA 6090


ATTENTION: Paul Savage


DATE RECEIVED: 28/06/2017

YOUR REFERENCE: Parry House/Hostel - June 2017 C48.0001E

PURCHASE ORDER:

APPROVALS:


Jenny Gould
Microbiology Manager


Sam Becker
Inorganics Manager

REPORT COMMENTS:

This report is issued by Analytical Reference Laboratory (WA) Pty Ltd
Samples are analysed on an as received basis unless otherwise noted.

METHOD REFERENCES:

Methods prefixed with "ARL" are covered under NATA Accreditation Number: 2377
Methods prefixed with "PM" are covered under NATA Accreditation Number: 2561

ARL No. 016	Total Suspended Solids
ARL No. 011	Biochemical Oxygen Demand
PM 4.3	Thermotolerant Coliforms and E. coli by Membrane Filtration



LABORATORY REPORT

Aquasol

ARL Job No: 17-09905

Revision: 00

Date: 10 July 2017

Physical Parameters Sample No: Sample Description: Sample Date:	LOR	UNITS	17-09905-1 Treated Water 28/06/17
Total Suspended Solids	5	mg/L	45

Biochemical Oxygen Demand Sample No: Sample Description: Sample Date:	LOR	UNITS	17-09905-1 Treated Water 28/06/17
Biochemical Oxygen Demand	5	mg/L	<5

Water Microbiology Sample No: Sample Description: Sample Date:	LOR	UNITS	17-09905-1 Treated Water 28/06/17
E. Coli	0	CFU/100mL	0

Result Definitions

LOR Limit of Reporting [NT] Not Tested [ND] Not Detected at indicated Limit of Reporting

* Denotes test not covered by NATA Accreditation

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