

# Certificate of Analysis



Certificate No.: 29698

Customer: Ing. Stefan Cachia

Sample Condition: Satisfactory

Customer Address: NORTH SEWAGE TREATMENT PLANT

Sampling done by: Customer

Sample Description: NSTP SCREEN

Date/ Time Sample Received: 06/12/2016 / 8.30

Lab Number: WW16-6256

Date/ Time Analysis started: 06/12/2016 / 9.30

## Results

TEST	Methodology	Units	Result
Liquid to Solid Ratio	2L/ Kg		
TDS	APAT CNR IRSA 2090 A Man 29 2003	mg/kg	21700
Sulfates	UNI EN ISO 10304:2009	mg/kg	1310
DOC	UNI EN 1484:1999	mg/kg	10390
Fluorides	UNI EN ISO 17294-02:2005	mg/kg	1.2
Chlorides	UNI EN ISO 10304:2009	mg/kg	3120
Arsenic	APAT CNR IRSA 4100 B Man 29 2003	mg/kg	0.06
Barium	UNI EN ISO 17294-02:2005	mg/kg	0.11
Cadmium	UNI EN ISO 17294-02:2005	mg/kg	<0.001
Chromium	UNI EN ISO 17294-02:2005	mg/kg	0.019

### General Comments:

Sample Condition: Satisfactory or Not Satisfactory

Sampling Done by: Laboratory, WSC Section or Customer

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**The above tests were carried out in a subcontracted lab.**

Date of Issue of Certificate: 17/01/2017

Checked By:

Djandra Caruana B.Sc (Hons)  
Senior Professional

Authorised By:

Matthew Vella B.Sc (Hons) MSc  
Senior Professional

# Certificate of Analysis



Certificate No.: 2969B

Customer: Ing. Stefan Cachia

Sample Condition: Satisfactory

Customer Address: NORTH SEWAGE TREATMENT  
PLANT

Sampling done by: Customer

Sample Description: NSTP SCREEN

Date/ Time Sample Received: 06/12/2016 / 08.30

Lab Number: WW16-6256

Date/ Time Analysis started: 06/12/2016 / 09.30

## Results

TEST	Methodology	Units	Result
Liquid to Solid Ratio	2L/ Kg		
Copper	UNI EN ISO 17294-02:2005	mg/kg	0.19
Molybdenum	UNI EN ISO 17294-02:2005	mg/kg	0.08
Nickel	UNI EN ISO 17294-02:2005	mg/kg	0.30
Lead	UNI EN ISO 17294-02:2005	mg/kg	0.021
Antimony	UNI EN ISO 17294-02:2005	mg/kg	0.040
Selenium	UNI EN ISO 17294-02:2005	mg/kg	0.024
Zinc	UNI EN ISO 17294-02:2005	mg/kg	0.7
Mercury	UNI EN ISO 17294-02:2005	mg/kg	<0.0005

### General Comments:

Sample Condition: Satisfactory or Not Satisfactory

Sampling Done by: Laboratory, WSC Section or Customer

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Date of Issue of Certificate: 17/01/2017

Checked By:

Diandra Caruana B.Sc (Hons)  
Senior Professional

Authorised By:

Matthew Vella B.Sc (Hons) MSc  
Senior Professional

# Certificate of Analysis



Certificate No.: 2969B

Customer: Ing. Stefan Cachia

Sample Condition: Satisfactory

Customer Address: NORTH SEWAGE TREATMENT PLANT

Sampling done by: Customer

Sample Description: NSTP SLUDGE

Date/ Time Sample Received: 06/12/2016 / 8.30

Lab Number: WW16-6257

Date/ Time Analysis started: 06/12/2016 / 9.30

## Results

TEST	Methodology	Units	Result
Liquid to Solid Ratio	2L/ Kg		
TDS	APAT CNR IRSA 2090 A Man 29 2003	mg/kg	45900
Sulfates	UNI EN ISO 10304:2009	mg/kg	790
DOC	UNI EN 1484:1999	mg/kg	16020
Fluorides	UNI EN ISO 17294- 02:2005	mg/kg	1.5
Chlorides	UNI EN ISO 10304:2009	mg/kg	3880
Arsenic	APAT CNR IRSA 4100 B Man 29 2003	mg/kg	0.55
Barium	UNI EN ISO 17294- 02:2005	mg/kg	0.08
Cadmium	UNI EN ISO 17294- 02:2005	mg/kg	<0.001
Chromium	UNI EN ISO 17294- 02:2005	mg/kg	0.031

### General Comments:

Sample Condition: Satisfactory or Not Satisfactory

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Senior Professional

Authorised By:

Matthew Vella B.Sc (Hons) MSc  
Senior Professional

# Certificate of Analysis



Certificate No.: 29698

Customer: Ing. Stefan Cachia

Sample Condition: Satisfactory

Customer Address: NORTH SEWAGE TREATMENT PLANT

Sampling done by: Customer

Sample Description: NSTP SLUDGE

Date/ Time Sample Received: 06/12/2016 / 08.30

Lab Number: WW16-6257

Date/ Time Analysis started: 06/12/2016 / 09.30

## Results

TEST	Methodology	Units	Result
Liquid to Solid Ratio	2L/ Kg		
Copper	UNI EN ISO 17294-02:2005	mg/kg	0.41
Molybdenum	UNI EN ISO 17294-02:2005	mg/kg	0.12
Nickel	UNI EN ISO 17294-02:2005	mg/kg	0.60
Lead	UNI EN ISO 17294-02:2005	mg/kg	0.016
Antimony	UNI EN ISO 17294-02:2005	mg/kg	0.020
Selenium	UNI EN ISO 17294-02:2005	mg/kg	0.23
Zinc	UNI EN ISO 17294-02:2005	mg/kg	1.0
Mercury	UNI EN ISO 17294-02:2005	mg/kg	0.002

### General Comments:

Sample Condition: Satisfactory or Not Satisfactory

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# Certificate of Analysis



Certificate No.: 2969C

Customer: Ing. Stefan Cachia

Sample Condition: Satisfactory

Customer Address: GOZO SEWAGE TREATMENT PLANT

Sampling done by: Customer

Sample Description: GSTP SLUDGE

Date/ Time Sample Received: 09/12/2016 / 8.30

Lab Number: WW16-6274

Date/ Time Analysis started: 09/12/2016 / 9.30

## Results

TEST	Methodology	Units	Result
Liquid to Solid Ratio	2L/ Kg		
TDS	APAT CNR IRSA 2090 A Man 29 2003	mg/kg	23000
Sulfates	UNI EN ISO 10304:2009	mg/kg	1270
DOC	UNI EN 1484:1999	mg/kg	7580
Fluorides	UNI EN ISO 17294- 02:2005	mg/kg	2.9
Chlorides	UNI EN ISO 10304:2009	mg/kg	2360
Arsenic	APAT CNR IRSA 4100 B Man 29 2003	mg/kg	0.28
Barium	UNI EN ISO 17294- 02:2005	mg/kg	0.13
Cadmium	UNI EN ISO 17294- 02:2005	mg/kg	<0.001
Chromium	UNI EN ISO 17294- 02:2005	mg/kg	0.010

### General Comments:

Sample Condition: Satisfactory or Not Satisfactory

Sampling Done by: Laboratory, WSC Section or Customer

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Senior Professional

Authorised By:

Matthew Vella B.Sc (Hons) MSc  
Senior Professional

# Certificate of Analysis



Certificate No.: 2969C

Customer: Ing. Stefan Cachia

Sample Condition: Satisfactory

Customer Address: NORTH SEWAGE TREATMENT PLANT

Sampling done by: Customer

Sample Description: GSTP SLUDGE

Date/ Time Sample Received: 09/12/2016 / 08.30

Lab Number: WW16-6274

Date/ Time Analysis started: 09/12/2016 / 09.30

## Results

TEST	Methodology	Units	Result
Liquid to Solid Ratio	2L/ Kg		
Copper	UNI EN ISO 17294-02:2005	mg/kg	0.14
Molybdenum	UNI EN ISO 17294-02:2005	mg/kg	0.022
Nickel	UNI EN ISO 17294-02:2005	mg/kg	0.27
Lead	UNI EN ISO 17294-02:2005	mg/kg	0.010
Antimony	UNI EN ISO 17294-02:2005	mg/kg	0.027
Selenium	UNI EN ISO 17294-02:2005	mg/kg	0.06
Zinc	UNI EN ISO 17294-02:2005	mg/kg	0.8
Mercury	UNI EN ISO 17294-02:2005	mg/kg	<0.0005

### General Comments:

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# Certificate of Analysis



Certificate No.: 2969C

Customer: Ing. Stefan Cachia

Sample Condition: Satisfactory

Customer Address: GOZO SEWAGE TREATMENT PLANT

Sampling done by: Customer

Sample Description: GSTP SCREEN

Date/ Time Sample Received: 09/12/2016 / 8.30

Lab Number: WW16-6275

Date/ Time Analysis started: 09/12/2016 / 9.30

## Results

TEST	Methodology	Units	Result
Liquid to Solid Ratio	2L/ Kg		
TDS	APAT CNR IRSA 2090 A Man 29 2003	mg/kg	19000
Sulfates	UNI EN ISO 10304:2009	mg/kg	1690
DOC	UNI EN 1484:1999	mg/kg	5570
Fluorides	UNI EN ISO 17294- 02:2005	mg/kg	1.2
Chlorides	UNI EN ISO 10304:2009	mg/kg	3380
Arsenic	APAT CNR IRSA 4100 B Man 29 2003	mg/kg	0.06
Barium	UNI EN ISO 17294- 02:2005	mg/kg	0.19
Cadmium	UNI EN ISO 17294- 02:2005	mg/kg	<0.001
Chromium	UNI EN ISO 17294- 02:2005	mg/kg	0.010

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Authorised By:

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# Certificate of Analysis



Certificate No.: 2969C

Customer: Ing. Stefan Cachia

Sample Condition: Satisfactory

Customer Address: GOZO SEWAGE TREATMENT PLANT

Sampling done by: Customer

Sample Description: GSTP SCREEN

Date/ Time Sample Received: 09/12/2016 / 08.30

Lab Number: WW16-6275

Date/ Time Analysis started: 09/12/2016 / 09.30

## Results

TEST	Methodology	Units	Result
Liquid to Solid Ratio	2L/ Kg		
Copper	UNI EN ISO 17294-02:2005	mg/kg	0.20
Molybdenum	UNI EN ISO 17294-02:2005	mg/kg	0.12
Nickel	UNI EN ISO 17294-02:2005	mg/kg	0.20
Lead	UNI EN ISO 17294-02:2005	mg/kg	0.029
Antimony	UNI EN ISO 17294-02:2005	mg/kg	0.026
Selenium	UNI EN ISO 17294-02:2005	mg/kg	<0.001
Zinc	UNI EN ISO 17294-02:2005	mg/kg	0.8
Mercury	UNI EN ISO 17294-02:2005	mg/kg	<0.0005

### General Comments:

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Senior Professional.



# Certificate of Analysis



Certificate No.: 2969C

Customer: Ing. Stefan Cachia

Sample Condition: Satisfactory

Customer Address: GOZO SEWAGE TREATMENT PLANT

Sampling done by: Customer

Sample Description: GSTP GRIT

Date/ Time Sample Received: 09/12/2016 / 8.30

Lab Number: WW16-6276

Date/ Time Analysis started: 09/12/2016 / 9.30

## Results

TEST	Methodology	Units	Result
Liquid to Solid Ratio	2L/ Kg		
TDS	APAT CNR IRSA 2090 A Man 29 2003	mg/kg	26900
Sulfates	UNI EN ISO 10304:2009	mg/kg	1500
DOC	UNI EN 1484:1999	mg/kg	11620
Fluorides	UNI EN ISO 17294- 02:2005	mg/kg	1.3
Chlorides	UNI EN ISO 10304:2009	mg/kg	3830
Arsenic	APAT CNR IRSA 4100 B Man 29 2003	mg/kg	0.06
Barium	UNI EN ISO 17294- 02:2005	mg/kg	0.08
Cadmium	UNI EN ISO 17294- 02:2005	mg/kg	<0.001
Chromium	UNI EN ISO 17294- 02:2005	mg/kg	0.011

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Senior Professional

# Certificate of Analysis



Certificate No.: 2969C

Customer: Ing. Stefan Cachia

Sample Condition: Satisfactory

Customer Address: GOZO SEWAGE TREATMENT PLANT

Sampling done by: Customer

Sample Description: GSTP GRIT

Date/ Time Sample Received: 09/12/2016 / 08.30

Lab Number: WW16-6276

Date/ Time Analysis started: 09/12/2016 / 09.30

## Results

TEST	Methodology	Units	Result
Liquid to Solid Ratio	2L/ Kg		
Copper	UNI EN ISO 17294-02:2005	mg/kg	0.11
Molybdenum	UNI EN ISO 17294-02:2005	mg/kg	0.033
Nickel	UNI EN ISO 17294-02:2005	mg/kg	0.7
Lead	UNI EN ISO 17294-02:2005	mg/kg	0.011
Antimony	UNI EN ISO 17294-02:2005	mg/kg	0.025
Selenium	UNI EN ISO 17294-02:2005	mg/kg	0.030
Zinc	UNI EN ISO 17294-02:2005	mg/kg	0.6
Mercury	UNI EN ISO 17294-02:2005	mg/kg	<0.0005

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Sample Condition: Satisfactory or Not Satisfactory

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Date of Issue of Certificate: 17/01/2017

Checked By:

Diandra Capuana B.Sc (Hons)  
Senior Professional

Authorised By:

Matthew Vella B.Sc (Hons) MSc  
Senior Professional

# Certificate of Analysis



Certificate No.: 2969A

Customer: Ing. Stefan Cachia

Sample Condition: Satisfactory

Customer Address: SOUTH SEWAGE TREATMENT PLANT

Sampling done by: Customer

Sample Description: SSTP SLUDGE

Date/ Time Sample Received: 06/12/2016 / 8.30

Lab Number: WW16-6227

Date/ Time Analysis started: 06/12/2016 / 9.30

## Results

TEST	Methodology	Units	Result
Liquid to Solid Ratio	2L/ Kg		
TDS	APAT CNR IRSA 2090 A Man 29 2003	mg/kg	47200
Sulfates	UNI EN ISO 10304:2009	mg/kg	9160
DOC	UNI EN 1484:1999	mg/kg	9670
Fluorides	UNI EN ISO 17294- 02:2005	mg/kg	3.0
Chlorides	UNI EN ISO 10304:2009	mg/kg	9930
Arsenic	APAT CNR IRSA 4100 B Man 29 2003	mg/kg	0.40
Barium	UNI EN ISO 17294- 02:2005	mg/kg	0.16
Cadmium	UNI EN ISO 17294- 02:2005	mg/kg	<0.001
Chromium	UNI EN ISO 17294- 02:2005	mg/kg	0.030

### General Comments:

Sample Condition: Satisfactory or Not Satisfactory

Sampling Done by: Laboratory, WSC Section or Customer

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Date of Issue of Certificate: 17/01/2017

Checked By:

Diandra Caruana B.Sc (Hons)  
Senior Professional

Authorised By:

Matthew Vella B.Sc (Hons) MSc  
Senior Professional

# Certificate of Analysis



Certificate No.: 2969A

Customer: Ing. Stefan Cachia

Sample Condition: Satisfactory

Customer Address: SOUTH SEWAGE TREATMENT PLANT

Sampling done by: Customer

Sample Description: SSTP SLUDGE

Date/ Time Sample Received: 06/12/2016 / 08.30

Lab Number: WW16-6227

Date/ Time Analysis started: 06/12/2016 / 09.30

## Results

TEST	Methodology	Units	Result
Liquid to Solid Ratio	2L/ Kg		
Copper	UNI EN ISO 17294-02:2005	mg/kg	0.20
Molybdenum	UNI EN ISO 17294-02:2005	mg/kg	1.1
Nickel	UNI EN ISO 17294-02:2005	mg/kg	2.0
Lead	UNI EN ISO 17294-02:2005	mg/kg	0.017
Antimony	UNI EN ISO 17294-02:2005	mg/kg	0.07
Selenium	UNI EN ISO 17294-02:2005	mg/kg	0.05
Zinc	UNI EN ISO 17294-02:2005	mg/kg	0.8
Mercury	UNI EN ISO 17294-02:2005	mg/kg	<0.0005

### General Comments:

Sample Condition: Satisfactory or Not Satisfactory

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Senior Professional

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Matthew Vella B.Sc (Hons) MSc  
Senior Professional

# Certificate of Analysis



Certificate No.: 2969A

Customer: Ing. Stefan Cachia

Sample Condition: Satisfactory

Customer Address: SOUTH SEWAGE TREATMENT PLANT

Sampling done by: Customer

Sample Description: SSTP GRIT

Date/ Time Sample Received: 06/12/2016 / 8.30

Lab Number: WW16-6228

Date/ Time Analysis started: 06/12/2016 / 9.30

## Results

TEST	Methodology	Units	Result
Liquid to Solid Ratio	2L/ Kg		
TDS	APAT CNR IRSA 2090 A Man 29 2003	mg/kg	22300
Sulfates	UNI EN ISO 10304:2009	mg/kg	4110
DOC	UNI EN 1484:1999	mg/kg	2180
Fluorides	UNI EN ISO 17294- 02:2005	mg/kg	1.0
Chlorides	UNI EN ISO 10304:2009	mg/kg	6750
Arsenic	APAT CNR IRSA 4100 B Man 29 2003	mg/kg	0.05
Barium	UNI EN ISO 17294- 02:2005	mg/kg	0.10
Cadmium	UNI EN ISO 17294- 02:2005	mg/kg	<0.001
Chromium	UNI EN ISO 17294- 02:2005	mg/kg	0.010

### General Comments:

Sample Condition: Satisfactory or Not Satisfactory

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Senior Professional

# Certificate of Analysis



Certificate No.: 2969A

Customer: Ing. Stefan Cachia

Sample Condition: Satisfactory

Customer Address: SOUTH SEWAGE TREATMENT PLANT

Sampling done by: Customer

Sample Description: SSTP GRIT

Date/ Time Sample Received: 06/12/2016 / 08.30

Lab Number: WW16-6228

Date/ Time Analysis started: 06/12/2016 / 09.30

## Results

TEST	Methodology	Units	Result
Liquid to Solid Ratio	2L/ Kg		
Copper	UNI EN ISO 17294-02:2005	mg/kg	0.07
Molybdenum	UNI EN ISO 17294-02:2005	mg/kg	0.31
Nickel	UNI EN ISO 17294-02:2005	mg/kg	0.46
Lead	UNI EN ISO 17294-02:2005	mg/kg	0.040
Antimony	UNI EN ISO 17294-02:2005	mg/kg	0.026
Selenium	UNI EN ISO 17294-02:2005	mg/kg	<0.001
Zinc	UNI EN ISO 17294-02:2005	mg/kg	0.37
Mercury	UNI EN ISO 17294-02:2005	mg/kg	<0.0005

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Senior Professional.

# Certificate of Analysis



Certificate No.: 2969A

Customer: Ing. Stefan Cachia

Sample Condition: Satisfactory

Customer Address: SOUTH SEWAGE TREATMENT PLANT

Sampling done by: Customer

Sample Description: SSTP SCREEN

Date/ Time Sample Received: 06/12/2016 / 8.30

Lab Number: WW16-6229

Date/ Time Analysis started: 06/12/2016 / 9.30

## Results

TEST	Methodology	Units	Result
Liquid to Solid Ratio	2L/ Kg		
TDS	APAT CNR IRSA 2090 A Man 29 2003	mg/kg	60200
Sulfates	UNI EN ISO 10304:2009	mg/kg	4020
DOC	UNI EN 1484:1999	mg/kg	15130
Fluorides	UNI EN ISO 17294- 02:2005	mg/kg	1.1
Chlorides	UNI EN ISO 10304:2009	mg/kg	17530
Arsenic	APAT CNR IRSA 4100 B Man 29 2003	mg/kg	0.10
Barium	UNI EN ISO 17294- 02:2005	mg/kg	0.25
Cadmium	UNI EN ISO 17294- 02:2005	mg/kg	0.002
Chromium	UNI EN ISO 17294- 02:2005	mg/kg	0.043

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Senior Professional

# Certificate of Analysis



Certificate No.: 2969A

Customer: Ing. Stefan Cachia

Sample Condition: Satisfactory

Customer Address: SOUTH SEWAGE TREATMENT PLANT

Sampling done by: Customer

Sample Description: SSTP SCREEN

Date/ Time Sample Received: 06/12/2016 / 08.30

Lab Number: WW16-6229

Date/ Time Analysis started: 06/12/2016 / 09.30

## Results

TEST	Methodology	Units	Result
Liquid to Solid Ratio	2L/ Kg		
Copper	UNI EN ISO 17294-02:2005	mg/kg	0.41
Molybdenum	UNI EN ISO 17294-02:2005	mg/kg	0.035
Nickel	UNI EN ISO 17294-02:2005	mg/kg	0.42
Lead	UNI EN ISO 17294-02:2005	mg/kg	0.08
Antimony	UNI EN ISO 17294-02:2005	mg/kg	0.030
Selenium	UNI EN ISO 17294-02:2005	mg/kg	0.040
Zinc	UNI EN ISO 17294-02:2005	mg/kg	2.4
Mercury	UNI EN ISO 17294-02:2005	mg/kg	0.0009

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