

ANALYSIS REPORT

Client: GEORGES CIA LTDA

QUITO 219 AND ESMERALDAS AND PORTOVIEJO
Open

Atna: Ing. Natalia Pontón

Draft: Shell Analysis

Sample Received: 25-Nov-20

Type of sample: 1 Shell Sample

Analysis Completed: 07-Dec-20

Gruentec report number: 2011537-PES001

Date of issue: 08-Dec-20

Sample identification:	HUAYLA M	Adapted Reference Method / Internal Method
Sampling date:	Nd	
Gruentec Report No.	2011537-PES001	
Metals in fish:		
Aluminum mg / kg * ^	<100 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Antimony mg / kg * ^	<0.2 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Arsenic mg / kg * ^	1.2 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Sulfur mg / kg * ^	2884 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Barium mg / kg * ^	<0.1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Beryllium mg / kg * ^ ^	<0.1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Boron mg / kg * ^	<20 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Cadmium mg / kg * ^	0.2 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Cadmium mg / kg * ^	0.2 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Calcium mg / kg * ^	640 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Cobalt mg / kg * ^	<0.1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Copper mg / kg * ^	0.8 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Chromium mg / kg * ^ ^	<0.2 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Tin mg / kg * ^ ^	<0.2 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Phosphorus% * ^	0.1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Iron% * ^	<0.05 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Lithium mg / kg * ^	<0.5 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Magnesium% * ^	0.1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Manganese mg / kg * ^	2.5 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Mercury mg / kg * ^	<0.1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Molybdenum mg / kg * ^ ^	<0.2 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Nickel mg / kg * ^ ^	<0.1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Silver mg / kg * ^	<0.2 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Lead mg / kg * ^	<0.1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Potassium% * ^	0.2 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Selenium mg / kg * ^	<1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Sodium% * ^	0.4 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Thallium mg / kg * ^	<0.1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Uranium mg / kg * ^	<0.1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Vanadium mg / kg * ^ ^	<0.1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Zinc mg / kg * ^	9.4 ^{o) p)}	EPA 6020 B / MM-AG / S-39

Registrations and Accreditations:

⁽¹⁾ Accreditation No. SAE LEN 05-008 SA / MDMQ Registration No. LEA-R-005

⁽³⁾ Accreditation A2LA Cert. No.4290.01

Analysis marked with (*) are not within the SAE scope of accreditation Analysis marked with (^) are not within the A2LA

scope of accreditation

n) d. - Not Determined

o) Reference values due to the state of the samples confirmed by the customer after 10 days of receipt of the same analysis, the laboratory will not be responsible for the compliance of the time most of analysis recommended by the methods of reference.

p) nd: sampling date not available, the laboratory is not responsible for compliance with the maximum analysis time recommended by the reference methods .

All the parameters presented were carried out at the Quito Main Laboratory, except those marked with the letters r), s) or t)

UNCERTAINTY (U):

Metals in fish = 28%

Calculation: C +/- (UxC / 100) where: C = measured value; U = uncertainty%.

Ing. Isabel Estrella

Operation Manager

Note 1: These analyzes, opinions and / or interpretations are based on the material and information provided by the client for whom This report has been made exclusively and confidentially. This information could affect the validity of the results, Gruentec Cia. Ltda. Is not responsible for such information.

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Note 3: The client can request the date of analysis of the parameters if required.

ANALYSIS REPORT

Client: GEOGES CIA LTDA

QUITO 219 AND ESMERALDAS AND PORTOVIEJO
Open

Atna: Ing. Natalia Pontón

Draft: Shell Analysis

Sample Received: 25-Nov-20

Type of sample: 1 Shell Sample

Analysis Completed: 07-Dec-20

Gruentec report number: 2011537-PES002

Date of issue: 08-Dec-20

Sample identification:	GUAJABAL G	Adapted Reference Method / Internal Method
Sampling date:	nd	
Gruentec Report No.	2011537-PES002	
Metals in fish:		
Aluminum mg / kg * ^	<100 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Antimony mg / kg * ^	<0.2 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Arsenic mg / kg * ^	1.2 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Sulfur mg / kg * ^	2910 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Barium mg / kg * ^	0.1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Beryllium mg / kg * ^ ^	<0.1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Boron mg / kg * ^	<20 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Cadmium mg / kg * ^	0.06 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Cadmium mg / kg * ^	0.06 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Calcium mg / kg * ^	<500 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Cobalt mg / kg * ^	<0.1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Copper mg / kg * ^	0.4 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Chromium mg / kg * ^ ^	<0.2 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Tin mg / kg * ^ ^	<0.2 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Phosphorus% * ^	0.1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Iron% * ^	<0.05 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Lithium mg / kg * ^	<0.5 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Magnesium% * ^	0.1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Manganese mg / kg * ^	5.2 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Mercury mg / kg * ^	<0.1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Molybdenum mg / kg * ^ ^	<0.2 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Nickel mg / kg * ^ ^	<0.1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Silver mg / kg * ^	<0.2 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Lead mg / kg * ^	<0.1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Potassium% * ^	0.2 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Selenium mg / kg * ^	<1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Sodium% * ^	0.4 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Thallium mg / kg * ^	<0.1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Uranium mg / kg * ^	<0.1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Vanadium mg / kg * ^ ^	<0.1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Zinc mg / kg * ^	9.0 ^{o) p)}	EPA 6020 B / MM-AG / S-39

Registrations and Accreditations:

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UNCERTAINTY (U):

Metals in fish = 28%

Calculation: C +/- (UxC / 100) where: C = measured value; U = uncertainty%.

Ing. Isabel Estrella

Operation Manager

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ANALYSIS REPORT

Client: GEOGES CIA LTDA

QUITO 219 AND ESMERALDAS AND PORTOVIEJO
Open

Atna: Ing. Natalia Pontón

Draft: Shell Analysis

Sample Received: 25-Nov-20

Type of sample: 1 Shell Sample

Analysis Completed: 07-Dec-20

Gruentec report number: 2011537-PES003

Date of issue: 08-Dec-20

Sample identification:	GUAJABAL M	Adapted Reference Method / Internal Method
Sampling date:	nd	
Gruentec Report No.	2011537-PES003	
Metals in fish:		
Aluminum mg / kg * ^	<100 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Antimony mg / kg * ^	<0.2 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Arsenic mg / kg * ^	1.1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Sulfur mg / kg * ^	2420 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Barium mg / kg * ^	<0.1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Beryllium mg / kg * ^ ^	<0.1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Boron mg / kg * ^	<20 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Cadmium mg / kg * ^	0.13 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Cadmium mg / kg * ^	0.13 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Calcium mg / kg * ^	660 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Cobalt mg / kg * ^	<0.1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Copper mg / kg * ^	0.8 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Chromium mg / kg * ^ ^	<0.2 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Tin mg / kg * ^ ^	<0.2 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Phosphorus% * ^	0.1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Iron% * ^	<0.05 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Lithium mg / kg * ^	<0.5 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Magnesium% * ^	0.1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Manganese mg / kg * ^	1.7 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Mercury mg / kg * ^	<0.1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Molybdenum mg / kg * ^ ^	<0.2 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Nickel mg / kg * ^ ^	<0.1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Silver mg / kg * ^	<0.2 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Lead mg / kg * ^	<0.1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Potassium% * ^	0.2 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Selenium mg / kg * ^	<1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Sodium% * ^	0.4 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Thallium mg / kg * ^	<0.1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Uranium mg / kg * ^	<0.1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Vanadium mg / kg * ^ ^	<0.1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Zinc mg / kg * ^	7.7 ^{o) p)}	EPA 6020 B / MM-AG / S-39

Registrations and Accreditations:

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UNCERTAINTY (U):

Metals in fish = 28%

Calculation: C +/- (UxC / 100) where: C = measured value; U = uncertainty%.

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ANALYSIS REPORT

Client: GEORGES CIA LTDA

QUITO 219 AND ESMERALDAS AND PORTOVIEJO
Open

Atna: Ing. Natalia Pontón

Draft: Shell Analysis

Sample Received: 25-Nov-20

Type of sample: 1 Shell Sample

Analysis Completed: 07-Dec-20

Gruentec report number: 2011537-PES004

Date of issue: 08-Dec-20

Sample identification:	JAMBELÍ G	Adapted Reference Method / Internal Method
Sampling date:	nd	
Gruentec Report No.	2011537-PES004	
Metals in fish:		
Aluminum mg / kg * ^	<100 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Antimony mg / kg * ^	<0.2 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Arsenic mg / kg * ^	1.1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Sulfur mg / kg * ^	2887 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Barium mg / kg * ^	<0.1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Beryllium mg / kg * ^ ^	<0.1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Boron mg / kg * ^	<20 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Cadmium mg / kg * ^	0.12 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Cadmium mg / kg * ^	0.12 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Calcium mg / kg * ^	702 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Cobalt mg / kg * ^	<0.1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Copper mg / kg * ^	0.9 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Chromium mg / kg * ^ ^	<0.2 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Tin mg / kg * ^ ^	<0.2 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Phosphorus% * ^	0.1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Iron% * ^	<0.05 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Lithium mg / kg * ^	<0.5 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Magnesium% * ^	0.1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Manganese mg / kg * ^	0.4 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Mercury mg / kg * ^	<0.1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Molybdenum mg / kg * ^ ^	<0.2 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Nickel mg / kg * ^ ^	<0.1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Silver mg / kg * ^	<0.2 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Lead mg / kg * ^	<0.1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Potassium% * ^	0.2 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Selenium mg / kg * ^	<1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Sodium% * ^	0.6 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Thallium mg / kg * ^	<0.1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Uranium mg / kg * ^	<0.1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Vanadium mg / kg * ^ ^	<0.1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Zinc mg / kg * ^	15 ^{o) p)}	EPA 6020 B / MM-AG / S-39

Registrations and Accreditations:

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UNCERTAINTY (U):

Metals in fish = 28%

Calculation: C +/- (UxC / 100) where: C = measured value; U = uncertainty%.

Ing. Isabel Estrella

Operation Manager

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ANALYSIS REPORT

Client: GEOGES CIA LTDA

QUITO 219 AND ESMERALDAS AND PORTOVIEJO
Open

Atna: Ing. Natalia Pontón

Draft: Shell Analysis

Sample Received: 25-Nov-20

Type of sample: 1 Shell Sample

Analysis Completed: 07-Dec-20

Gruentec report number: 2011537-PES005

Date of issue: 08-Dec-20

Sample identification:	JAMBELÍ M	Adapted Reference Method / Internal Method
Sampling date:	nd	
Gruentec Report No.	2011537-PES005	
Metals in fish:		
Aluminum mg / kg * ^	<100 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Antimony mg / kg * ^	<0.2 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Arsenic mg / kg * ^	1.4 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Sulfur mg / kg * ^	2773 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Barium mg / kg * ^	<0.1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Beryllium mg / kg * ^ ^	<0.1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Boron mg / kg * ^	<20 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Cadmium mg / kg * ^	0.12 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Cadmium mg / kg * ^	0.12 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Calcium mg / kg * ^	695 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Cobalt mg / kg * ^	<0.1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Copper mg / kg * ^	0.6 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Chromium mg / kg * ^ ^	<0.2 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Tin mg / kg * ^ ^	<0.2 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Phosphorus% * ^	0.1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Iron% * ^	<0.05 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Lithium mg / kg * ^	<0.5 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Magnesium% * ^	0.1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Manganese mg / kg * ^	0.4 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Mercury mg / kg * ^	<0.1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Molybdenum mg / kg * ^ ^	<0.2 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Nickel mg / kg * ^ ^	<0.1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Silver mg / kg * ^	<0.2 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Lead mg / kg * ^	<0.1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Potassium% * ^	0.2 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Selenium mg / kg * ^	<1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Sodium% * ^	0.4 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Thallium mg / kg * ^	<0.1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Uranium mg / kg * ^	<0.1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Vanadium mg / kg * ^ ^	<0.1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Zinc mg / kg * ^	9.5 ^{o) p)}	EPA 6020 B / MM-AG / S-39

Registrations and Accreditations:

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UNCERTAINTY (U):

Metals in fish = 28%

Calculation: C +/- (UxC / 100) where: C = measured value; U = uncertainty%.

Ing. Isabel Estrella

Operation Manager

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ANALYSIS REPORT

Client: GEORGES CIA LTDA

QUITO 219 AND ESMERALDAS AND PORTOVIEJO
Open

Atna: Ing. Natalia Pontón

Draft: Shell Analysis

Sample Received: 25-Nov-20

Type of sample: 1 Shell Sample

Analysis Completed: 07-Dec-20

Gruentec report number: 2011537-PES006

Date of issue: 08-Dec-20

Sample identification:	ISLA AMOR G	Adapted Reference Method / Internal Method
Sampling date:	nd	
Gruentec Report No.	2011537-PES006	
Metals in fish:		
Aluminum mg / kg * ^	<100 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Antimony mg / kg * ^	<0.2 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Arsenic mg / kg * ^	0.7 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Sulfur mg / kg * ^	2763 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Barium mg / kg * ^	<0.1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Beryllium mg / kg * ^ ^	<0.1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Boron mg / kg * ^	<20 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Cadmium mg / kg * ^	1.3 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Cadmium mg / kg * ^	1.3 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Calcium mg / kg * ^	650 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Cobalt mg / kg * ^	0.1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Copper mg / kg * ^	0.5 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Chromium mg / kg * ^ ^	<0.2 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Tin mg / kg * ^ ^	<0.2 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Phosphorus% * ^	0.1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Iron% * ^	<0.05 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Lithium mg / kg * ^	<0.5 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Magnesium% * ^	0.1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Manganese mg / kg * ^	1.0 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Mercury mg / kg * ^	<0.1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Molybdenum mg / kg * ^ ^	<0.2 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Nickel mg / kg * ^ ^	<0.1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Silver mg / kg * ^	<0.2 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Lead mg / kg * ^	<0.1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Potassium% * ^	0.2 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Selenium mg / kg * ^	<1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Sodium% * ^	0.5 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Thallium mg / kg * ^	<0.1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Uranium mg / kg * ^	<0.1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Vanadium mg / kg * ^ ^	<0.1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Zinc mg / kg * ^	9.9 ^{o) p)}	EPA 6020 B / MM-AG / S-39

Registrations and Accreditations:

⁽¹⁾ Accreditation No. SAE LEN 05-008 SA / MDMQ Registration No. LEA-R-005

⁽³⁾ Accreditation A2LA Cert. No.4290.01

Analysis marked with (*) are not within the SAE scope of accreditation
Analysis marked with (^) are not within the A2LA scope of accreditation
nd - Not Determined

o) Reference values due to the state of the samples confirmed by the customer after 10 days of receipt of the same analysis, the laboratory will not be responsible for the compliance of the time most of analysis recommended by the methods of reference.

p) nd: sampling date not available, the laboratory is not responsible for compliance with the maximum analysis time recommended by the reference methods .

All the parameters presented were carried out at the Quito Main Laboratory, except those marked with the letters r), s) or t)

UNCERTAINTY (U):

Metals in fish = 28%

Calculation: C +/- (UxC / 100) where: C = measured value; U = uncertainty%.

Ing. Isabel Estrella

Operation Manager

Note 1: These analyzes, opinions and / or interpretations are based on the material and information provided by the client for whom This report has been made exclusively and confidentially. This information could affect the validity of the results, Gruentec Cía. Ltda. Is not responsible for such information.

Note 2: The sampling was carried out directly by the customer. Sample identification, project name and the sampling date is information provided by the client, Gruentec is not responsible for it.

Note 3: The client can request the date of analysis of the parameters if required.

ANALYSIS REPORT

Client: GEORGES CIA LTDA

QUITO 219 AND ESMERALDAS AND PORTOVIEJO
Open

Atna: Ing. Natalia Pontón

Draft: Shell Analysis

Sample Received: 25-Nov-20

Type of sample: 1 Shell Sample

Analysis Completed: 07-Dec-20

Gruentec report number: 2011537-PES007

Date of issue: 08-Dec-20

Sample identification:	ISLA AMOR M	Adapted Reference Method / Internal Method
Sampling date:	nd	
Gruentec Report No.	2011537-PES007	
Metals in fish:		
Aluminum mg / kg * ^	<100 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Antimony mg / kg * ^	<0.2 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Arsenic mg / kg * ^	0.5 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Sulfur mg / kg * ^	1884 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Barium mg / kg * ^	0.1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Beryllium mg / kg * ^ ^	<0.1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Boron mg / kg * ^	<20 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Cadmium mg / kg * ^	0.67 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Cadmium mg / kg * ^	0.67 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Calcium mg / kg * ^	681 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Cobalt mg / kg * ^	<0.1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Copper mg / kg * ^	0.5 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Chromium mg / kg * ^ ^	<0.2 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Tin mg / kg * ^ ^	<0.2 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Phosphorus% * ^	0.1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Iron% * ^	<0.05 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Lithium mg / kg * ^	<0.5 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Magnesium% * ^	0.05 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Manganese mg / kg * ^	0.8 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Mercury mg / kg * ^	<0.1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Molybdenum mg / kg * ^ ^	<0.2 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Nickel mg / kg * ^ ^	<0.1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Silver mg / kg * ^	<0.2 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Lead mg / kg * ^	<0.1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Potassium% * ^	0.1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Selenium mg / kg * ^	<1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Sodium% * ^	0.4 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Thallium mg / kg * ^	<0.1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Uranium mg / kg * ^	<0.1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Vanadium mg / kg * ^ ^	<0.1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Zinc mg / kg * ^	8.2 ^{o) p)}	EPA 6020 B / MM-AG / S-39

Registrations and Accreditations:

⁽¹⁾ Accreditation No. SAE LEN 05-008 SA / MDMQ Registration No. LEA-R-005

⁽³⁾ Accreditation A2LA Cert. No.4290.01

Analysis marked with (*) are not within the SAE scope of accreditation Analysis marked with (^) are not within the A2LA

scope of accreditation
nd - Not Determined

o) Reference values due to the state of the samples confirmed by the customer after 10 days of receipt of the same analysis, the laboratory will not be responsible for the compliance of the time most of analysis recommended by the methods of reference.

p) nd: sampling date not available, the laboratory is not responsible for compliance with the maximum analysis time recommended by the reference methods .

All the parameters presented were carried out at the Quito Main Laboratory, except those marked with the letters r), s) or t)

UNCERTAINTY (U):

Metals in fish = 28%

Calculation: C +/- (UxC / 100) where: C = measured value; U = uncertainty%.

Ing. Isabel Estrella

Operation Manager

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Note 2: The sampling was carried out directly by the customer. Sample identification, project name and the sampling date is information provided by the client, Gruentec is not responsible for it.

Note 3: The client can request the date of analysis of the parameters if required.

ANALYSIS REPORT

Client: GEOGES CIA LTDA

QUITO 219 AND ESMERALDAS AND PORTOVIEJO
Open

Atna: Ing. Natalia Pontón

Draft: Shell Analysis

Sample Received: 25-Nov-20

Type of sample: 1 Shell Sample

Analysis Completed: 07-Dec-20

Gruentec report number: 2011537-PES008

Date of issue: 08-Dec-20

Sample identification:	HUAYLA G	Adapted Reference Method / Internal Method
Sampling date:	nd	
Gruentec Report No.	2011537-PES008	
Metals in fish:		
Aluminum mg / kg * ^	<100 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Antimony mg / kg * ^	<0.2 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Arsenic mg / kg * ^	1.9 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Sulfur mg / kg * ^	2957 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Barium mg / kg * ^	0.2 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Beryllium mg / kg * ^ ^	<0.1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Boron mg / kg * ^	<20 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Cadmium mg / kg * ^	0.32 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Cadmium mg / kg * ^	0.32 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Calcium mg / kg * ^	975 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Cobalt mg / kg * ^	<0.1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Copper mg / kg * ^	1.9 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Chromium mg / kg * ^ ^	<0.2 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Tin mg / kg * ^ ^	<0.2 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Phosphorus% * ^	0.2 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Iron% * ^	<0.05 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Lithium mg / kg * ^	<0.5 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Magnesium% * ^	0.1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Manganese mg / kg * ^	1.9 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Mercury mg / kg * ^	<0.1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Molybdenum mg / kg * ^ ^	0.2 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Nickel mg / kg * ^ ^	<0.1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Silver mg / kg * ^	<0.2 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Lead mg / kg * ^	<0.1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Potassium% * ^	0.2 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Selenium mg / kg * ^	<1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Sodium% * ^	0.6 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Thallium mg / kg * ^	<0.1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Uranium mg / kg * ^	<0.1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Vanadium mg / kg * ^ ^	<0.1 ^{o) p)}	EPA 6020 B / MM-AG / S-39
Zinc mg / kg * ^	11 ^{o) p)}	EPA 6020 B / MM-AG / S-39

Registrations and Accreditations:

⁽¹⁾ Accreditation No. SAE LEN 05-008 ^{o) SA} / MDMQ Registration No. LEA-R-005

⁽³⁾ Accreditation A2LA Cert. No.4290.01

Analysis marked with (*) are not within the SAE scope of accreditation
Analysis marked with (^) are not within the A2LA scope of accreditation
nd - Not Determined

o) Reference values due to the state of the samples confirmed by the customer after 10 days of receipt of the same analysis, the laboratory will not be responsible for the compliance of the time most of analysis recommended by the methods of reference.

p) nd: sampling date not available, the laboratory is not responsible for compliance with the maximum analysis time recommended by the reference methods .

All the parameters presented were carried out at the Quito Main Laboratory, except those marked with the letters r), s) or t)

UNCERTAINTY (U):

Metals in fish = 28%

Calculation: C +/- (UxC / 100) where: C = measured value; U = uncertainty%.

Ing. Isabel Estrella

Operation Manager

Note 1: These analyzes, opinions and / or interpretations are based on the material and information provided by the client for whom This report has been made exclusively and confidentially. This information could affect the validity of the results, Gruentec Cia. Ltda. Is not responsible for such information.

Note 2: The sampling was carried out directly by the customer. Sample identification, project name and the sampling date is information provided by the client, Gruentec is not responsible for it.

Note 3: The client can request the date of analysis of the parameters if required.

ANALYSIS REPORT

Client: GEOGES CIA LTDA

QUITO 219 AND ESMERALDAS AND PORTOVIEJO Open

Atna: Ing. Natalia Pontón

Draft: Sediment Analysis

Sample Received: 25-Nov-20

Type of sample: 1 Sediment Sample

Analysis Completed: 07-Dec-20

Gruentec report number: 2011538-S001

Date of issue: 08-Dec-20

Sample identification:	JAMBELÍ Mg	Adapted Reference Method / Internal Method
Sampling date:	06-Nov-20	
Gruentec Report No.	2011538-S001	
Metals in dry weight:		
Aluminum mg / kg ^(1,2)	7803	EPA 6020 B / MM-AG / S-39
Antimony mg / kg ^(1,2)	<0.2	EPA 6020 B / MM-AG / S-39
Arsenic mg / kg ^(1,2)	eleven	EPA 6020 B / MM-AG / S-39
Sulfur mg / kg ^(1,2)	8875	EPA 6020 B / MM-AG / S-39
Barium mg / kg ^(1,2)	12	EPA 6020 B / MM-AG / S-39
Beryllium mg / kg ^(1,2)	<0.1	EPA 6020 B / MM-AG / S-39
Boron mg / kg ^(1,2)	36	EPA 6020 B / MM-AG / S-39
Cadmium mg / kg ^(1,2)	0.2	EPA 6020 B / MM-AG / S-39
Calcium mg / kg ^(1,2)	4488	EPA 6020 B / MM-AG / S-39
Cobalt mg / kg ^(1,2)	4.9	EPA 6020 B / MM-AG / S-39
Copper mg / kg ^(1,2)	18	EPA 6020 B / MM-AG / S-39
Chromium mg / kg ^(1,2)	fifteen	EPA 6020 B / MM-AG / S-39
Tin mg / kg *	<0.5	EPA 6020 B / MM-AG / S-39
Phosphorus% ^(1,2)	0.1	EPA 6020 B / MM-AG / S-39
Iron% ^(1,2)	1.4	EPA 6020 B / MM-AG / S-39
Lithium mg / kg ^(1,2)	4.9	EPA 6020 B / MM-AG / S-39
Magnesium% ^(1,2)	0.7	EPA 6020 B / MM-AG / S-39
Manganese mg / kg ^(1,2)	113	EPA 6020 B / MM-AG / S-39
Mercury mg / kg ^(1,2)	<0.1	EPA 6020 B / MM-AG / S-39
Molybdenum mg / kg ^(1,2)	3.5	EPA 6020 B / MM-AG / S-39
Nickel mg / kg ^(1,2)	8	EPA 6020 B / MM-AG / S-39
Silver mg / kg ^(1,2)	<0.2	EPA 6020 B / MM-AG / S-39
Lead mg / kg ^(1,2)	6.8	EPA 6020 B / MM-AG / S-39
Potassium% ^(1,2)	0.3	EPA 6020 B / MM-AG / S-39
Selenium mg / kg ^(1,2)	<1	EPA 6020 B / MM-AG / S-39
Sodium% ^(1,2)	2.9	EPA 6020 B / MM-AG / S-39
Thallium mg / kg ^(1,2)	<0.1	EPA 6020 B / MM-AG / S-39
Uranium mg / kg ^(1,2)	6.2	EPA 6020 B / MM-AG / S-39
Vanadium mg / kg ^(1,2)	30	EPA 6020 B / MM-AG / S-39
Zinc mg / kg ^(1,2)	35	EPA 6020 B / MM-AG / S-39

Registrations and Accreditations:

⁽¹⁾ Accreditation No. SAE LEN 05-008 ⁽²⁾ SA / MDMQ Registration No. LEA-R-005

The tests marked with (*) are not within the scope of accreditation of the SAE

All the parameters presented were carried out at the Quito Main Laboratory, except those marked with the letters r), s) or t)

UNCERTAINTY (U):

Metals in solids = 28%

Calculation: C +/- (UxC / 100) where: C = measured value; U = uncertainty%.

Ing. Isabel Estrella
OPERATION MANAGER

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Note 3: The client can request the date of analysis of the parameters if required.

ANALYSIS REPORT

Client: GEOGES CIA LTDA

QUITO 219 AND ESMERALDAS AND PORTOVIEJO Open

Atna: Ing. Natalia Pontón

Draft: Sediment Analysis

Sample Received: 25-Nov-20

Type of sample: 1 Sediment Sample

Analysis Completed: 07-Dec-20

Gruentec report number: 2011538-S002

Date of issue: 08-Dec-20

Sample identification:	JAMBELÍ E	Adapted Reference Method / Internal Method
Sampling date:	06-Nov-20	
Gruentec Report No.	2011538-S002	
Metals in dry weight:		
Aluminum mg / kg ^(1,2)	8466	EPA 6020 B / MM-AG / S-39
Antimony mg / kg ^(1,2)	<0.2	EPA 6020 B / MM-AG / S-39
Arsenic mg / kg ^(1,2)	8.9	EPA 6020 B / MM-AG / S-39
Sulfur mg / kg ^(1,2)	13412	EPA 6020 B / MM-AG / S-39
Barium mg / kg ^(1,2)	twenty	EPA 6020 B / MM-AG / S-39
Beryllium mg / kg ^(1,2)	0.2	EPA 6020 B / MM-AG / S-39
Boron mg / kg ^(1,2)	<20	EPA 6020 B / MM-AG / S-39
Cadmium mg / kg ^(1,2)	0.2	EPA 6020 B / MM-AG / S-39
Calcium mg / kg ^(1,2)	4301	EPA 6020 B / MM-AG / S-39
Cobalt mg / kg ^(1,2)	8.8	EPA 6020 B / MM-AG / S-39
Copper mg / kg ^(1,2)	26	EPA 6020 B / MM-AG / S-39
Chromium mg / kg ^(1,2)	26	EPA 6020 B / MM-AG / S-39
Tin mg / kg *	<0.5	EPA 6020 B / MM-AG / S-39
Phosphorus% ^(1,2)	0.04	EPA 6020 B / MM-AG / S-39
Iron% ^(1,2)	2.3	EPA 6020 B / MM-AG / S-39
Lithium mg / kg ^(1,2)	7.5	EPA 6020 B / MM-AG / S-39
Magnesium% ^(1,2)	0.9	EPA 6020 B / MM-AG / S-39
Manganese mg / kg ^(1,2)	286	EPA 6020 B / MM-AG / S-39
Mercury mg / kg ^(1,2)	<0.1	EPA 6020 B / MM-AG / S-39
Molybdenum mg / kg ^(1,2)	1.9	EPA 6020 B / MM-AG / S-39
Nickel mg / kg ^(1,2)	13	EPA 6020 B / MM-AG / S-39
Silver mg / kg ^(1,2)	<0.2	EPA 6020 B / MM-AG / S-39
Lead mg / kg ^(1,2)	8.9	EPA 6020 B / MM-AG / S-39
Potassium% ^(1,2)	0.4	EPA 6020 B / MM-AG / S-39
Selenium mg / kg ^(1,2)	<1	EPA 6020 B / MM-AG / S-39
Sodium% ^(1,2)	2.5	EPA 6020 B / MM-AG / S-39
Thallium mg / kg ^(1,2)	<0.1	EPA 6020 B / MM-AG / S-39
Uranium mg / kg ^(1,2)	2.4	EPA 6020 B / MM-AG / S-39
Vanadium mg / kg ^(1,2)	38	EPA 6020 B / MM-AG / S-39
Zinc mg / kg ^(1,2)	58	EPA 6020 B / MM-AG / S-39

Registrations and Accreditations:

⁽¹⁾ Accreditation No. SAE LEN 05-008 ⁽²⁾ SA / MDMQ Registration No. LEA-R-005

The tests marked with (*) are not within the scope of accreditation of the SAE

All the parameters presented were carried out at the Quito Main Laboratory, except those marked with the letters r), s) or t)

UNCERTAINTY (U):

Metals in solids = 28%

Calculation: C +/- (UxC / 100) where: C = measured value; U = uncertainty%.

Ing. Isabel Estrella
OPERATION MANAGER

Note 1: These analyzes, opinions and / or interpretations are based on the material and information provided by the client for whom

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Gruentec Cia. Ltda. Is not responsible for such information.

Note 2: The sampling was carried out directly by the customer. Sample identification, project name

and the sampling date is information provided by the client, Gruentec is not responsible for it.

Note 3: The client can request the date of analysis of the parameters if required.

ANALYSIS REPORT

Client: GEOGES CIA LTDA

QUITO 219 AND ESMERALDAS AND PORTOVIEJO Open

Atna: Ing. Natalia Pontón

Draft: Sediment Analysis

Sample Received: 25-Nov-20

Type of sample: 1 Sediment Sample

Analysis Completed: 07-Dec-20

Gruentec report number: 2011538-S003

Date of issue: 08-Dec-20

Sample identification:	LOVE ISLAND Mg	Adapted Reference Method / Internal Method
Sampling date:	06-Nov-20	
Gruentec Report No.	2011538-S003	
Metals in dry weight:		
Aluminum mg / kg ^(1,2)	10908	EPA 6020 B / MM-AG / S-39
Antimony mg / kg ^(1,2)	0.3	EPA 6020 B / MM-AG / S-39
Arsenic mg / kg ^(1,2)	14	EPA 6020 B / MM-AG / S-39
Sulfur mg / kg ^(1,2)	10870	EPA 6020 B / MM-AG / S-39
Barium mg / kg ^(1,2)	35	EPA 6020 B / MM-AG / S-39
Beryllium mg / kg ^(1,2)	<0.1	EPA 6020 B / MM-AG / S-39
Boron mg / kg ^(1,2)	<20	EPA 6020 B / MM-AG / S-39
Cadmium mg / kg ^(1,2)	0.3	EPA 6020 B / MM-AG / S-39
Calcium mg / kg ^(1,2)	4791	EPA 6020 B / MM-AG / S-39
Cobalt mg / kg ^(1,2)	7.9	EPA 6020 B / MM-AG / S-39
Copper mg / kg ^(1,2)	31	EPA 6020 B / MM-AG / S-39
Chromium mg / kg ^(1,2)	twenty	EPA 6020 B / MM-AG / S-39
Tin mg / kg *	<0.5	EPA 6020 B / MM-AG / S-39
Phosphorus% ^(1,2)	0.1	EPA 6020 B / MM-AG / S-39
Iron% ^(1,2)	2.2	EPA 6020 B / MM-AG / S-39
Lithium mg / kg ^(1,2)	7.1	EPA 6020 B / MM-AG / S-39
Magnesium% ^(1,2)	0.9	EPA 6020 B / MM-AG / S-39
Manganese mg / kg ^(1,2)	202	EPA 6020 B / MM-AG / S-39
Mercury mg / kg ^(1,2)	<0.1	EPA 6020 B / MM-AG / S-39
Molybdenum mg / kg ^(1,2)	2.7	EPA 6020 B / MM-AG / S-39
Nickel mg / kg ^(1,2)	10	EPA 6020 B / MM-AG / S-39
Silver mg / kg ^(1,2)	<0.2	EPA 6020 B / MM-AG / S-39
Lead mg / kg ^(1,2)	9.0	EPA 6020 B / MM-AG / S-39
Potassium% ^(1,2)	0.4	EPA 6020 B / MM-AG / S-39
Selenium mg / kg ^(1,2)	<1	EPA 6020 B / MM-AG / S-39
Sodium% ^(1,2)	2.3	EPA 6020 B / MM-AG / S-39
Thallium mg / kg ^(1,2)	<0.1	EPA 6020 B / MM-AG / S-39
Uranium mg / kg ^(1,2)	2.0	EPA 6020 B / MM-AG / S-39
Vanadium mg / kg ^(1,2)	41	EPA 6020 B / MM-AG / S-39
Zinc mg / kg ^(1,2)	62	EPA 6020 B / MM-AG / S-39

Registrations and Accreditations:

⁽¹⁾ Accreditation No. SAE LEN 05-008 ⁽²⁾ SA / MDMQ Registration No. LEA-R-005

The tests marked with (*) are not within the scope of accreditation of the SAE

All the parameters presented were carried out at the Quito Main Laboratory, except those marked with the letters r), s) or t)

UNCERTAINTY (U):

Metals in solids = 28%

Calculation: $C \pm (U \times C / 100)$ where: C = measured value; U = uncertainty%.

Ing. Isabel Estrella
OPERATION MANAGER

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Note 3: The client can request the date of analysis of the parameters if required.

ANALYSIS REPORT

Client: GEOGES CIA LTDA

QUITO 219 AND ESMERALDAS AND PORTOVIEJO Open

Atna: Ing. Natalia Pontón

Draft: Sediment Analysis

Sample Received: 25-Nov-20

Type of sample: 1 Sediment Sample

Analysis Completed: 07-Dec-20

Gruentec report number: 2011538-S004

Date of issue: 08-Dec-20

Sample identification:	ISLA AMOR E	Adapted Reference Method / Internal Method
Sampling date:	06-Nov-20	
Gruentec Report No.	2011538-S004	
Metals in dry weight:		
Aluminum mg / kg ^(1,2)	9804	EPA 6020 B / MM-AG / S-39
Antimony mg / kg ^(1,2)	<0.2	EPA 6020 B / MM-AG / S-39
Arsenic mg / kg ^(1,2)	9.5	EPA 6020 B / MM-AG / S-39
Sulfur mg / kg ^(1,2)	9656	EPA 6020 B / MM-AG / S-39
Barium mg / kg ^(1,2)	48	EPA 6020 B / MM-AG / S-39
Beryllium mg / kg ^(1,2)	0.2	EPA 6020 B / MM-AG / S-39
Boron mg / kg ^(1,2)	<20	EPA 6020 B / MM-AG / S-39
Cadmium mg / kg ^(1,2)	0.3	EPA 6020 B / MM-AG / S-39
Calcium mg / kg ^(1,2)	5223	EPA 6020 B / MM-AG / S-39
Cobalt mg / kg ^(1,2)	7.8	EPA 6020 B / MM-AG / S-39
Copper mg / kg ^(1,2)	28	EPA 6020 B / MM-AG / S-39
Chromium mg / kg ^(1,2)	19	EPA 6020 B / MM-AG / S-39
Tin mg / kg *	<0.5	EPA 6020 B / MM-AG / S-39
Phosphorus% ^(1,2)	0.1	EPA 6020 B / MM-AG / S-39
Iron% ^(1,2)	2.1	EPA 6020 B / MM-AG / S-39
Lithium mg / kg ^(1,2)	6.9	EPA 6020 B / MM-AG / S-39
Magnesium% ^(1,2)	1.1	EPA 6020 B / MM-AG / S-39
Manganese mg / kg ^(1,2)	253	EPA 6020 B / MM-AG / S-39
Mercury mg / kg ^(1,2)	<0.1	EPA 6020 B / MM-AG / S-39
Molybdenum mg / kg ^(1,2)	1.1	EPA 6020 B / MM-AG / S-39
Nickel mg / kg ^(1,2)	10	EPA 6020 B / MM-AG / S-39
Silver mg / kg ^(1,2)	<0.2	EPA 6020 B / MM-AG / S-39
Lead mg / kg ^(1,2)	9.3	EPA 6020 B / MM-AG / S-39
Potassium% ^(1,2)	0.4	EPA 6020 B / MM-AG / S-39
Selenium mg / kg ^(1,2)	<1	EPA 6020 B / MM-AG / S-39
Sodium% ^(1,2)	4.1	EPA 6020 B / MM-AG / S-39
Thallium mg / kg ^(1,2)	<0.1	EPA 6020 B / MM-AG / S-39
Uranium mg / kg ^(1,2)	1.1	EPA 6020 B / MM-AG / S-39
Vanadium mg / kg ^(1,2)	36	EPA 6020 B / MM-AG / S-39
Zinc mg / kg ^(1,2)	71	EPA 6020 B / MM-AG / S-39

Registrations and Accreditations:

⁽¹⁾ Accreditation No. SAE LEN 05-008 ⁽²⁾ SA / MDMQ Registration No. LEA-R-005

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UNCERTAINTY (U):

Metals in solids = 28%

Calculation: C +/- (UxC / 100) where: C = measured value; U = uncertainty%.

Ing. Isabel Estrella
OPERATION MANAGER

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ANALYSIS REPORT

Client: GEOGES CIA LTDA

QUITO 219 AND ESMERALDAS AND PORTOVIEJO Open

Atna: Ing. Natalia Pontón

Draft: Sediment Analysis

Sample Received: 25-Nov-20

Type of sample: 1 Sediment Sample

Analysis Completed: 07-Dec-20

Gruentec report number: 2011538-S005

Date of issue: 08-Dec-20

Sample identification:	HUAYLA Mg	Adapted Reference Method / Internal Method
Sampling date:	06-Nov-20	
Gruentec Report No.	2011538-S005	
Metals in dry weight:		
Aluminum mg / kg ^(1,2)	7834	EPA 6020 B / MM-AG / S-39
Antimony mg / kg ^(1,2)	0.3	EPA 6020 B / MM-AG / S-39
Arsenic mg / kg ^(1,2)	16	EPA 6020 B / MM-AG / S-39
Sulfur mg / kg ^(1,2)	16437	EPA 6020 B / MM-AG / S-39
Barium mg / kg ^(1,2)	30	EPA 6020 B / MM-AG / S-39
Beryllium mg / kg ^(1,2)	0.1	EPA 6020 B / MM-AG / S-39
Boron mg / kg ^(1,2)	32	EPA 6020 B / MM-AG / S-39
Cadmium mg / kg ^(1,2)	0.3	EPA 6020 B / MM-AG / S-39
Calcium mg / kg ^(1,2)	10350	EPA 6020 B / MM-AG / S-39
Cobalt mg / kg ^(1,2)	8.3	EPA 6020 B / MM-AG / S-39
Copper mg / kg ^(1,2)	25	EPA 6020 B / MM-AG / S-39
Chromium mg / kg ^(1,2)	18	EPA 6020 B / MM-AG / S-39
Tin mg / kg *	0.8	EPA 6020 B / MM-AG / S-39
Phosphorus% ^(1,2)	0.1	EPA 6020 B / MM-AG / S-39
Iron% ^(1,2)	2.1	EPA 6020 B / MM-AG / S-39
Lithium mg / kg ^(1,2)	4.6	EPA 6020 B / MM-AG / S-39
Magnesium% ^(1,2)	0.9	EPA 6020 B / MM-AG / S-39
Manganese mg / kg ^(1,2)	237	EPA 6020 B / MM-AG / S-39
Mercury mg / kg ^(1,2)	<0.1	EPA 6020 B / MM-AG / S-39
Molybdenum mg / kg ^(1,2)	3.9	EPA 6020 B / MM-AG / S-39
Nickel mg / kg ^(1,2)	10	EPA 6020 B / MM-AG / S-39
Silver mg / kg ^(1,2)	<0.2	EPA 6020 B / MM-AG / S-39
Lead mg / kg ^(1,2)	9.9	EPA 6020 B / MM-AG / S-39
Potassium% ^(1,2)	0.3	EPA 6020 B / MM-AG / S-39
Selenium mg / kg ^(1,2)	1	EPA 6020 B / MM-AG / S-39
Sodium% ^(1,2)	2.2	EPA 6020 B / MM-AG / S-39
Thallium mg / kg ^(1,2)	<0.1	EPA 6020 B / MM-AG / S-39
Uranium mg / kg ^(1,2)	5.4	EPA 6020 B / MM-AG / S-39
Vanadium mg / kg ^(1,2)	43	EPA 6020 B / MM-AG / S-39
Zinc mg / kg ^(1,2)	59	EPA 6020 B / MM-AG / S-39

Registrations and Accreditations:

⁽¹⁾ Accreditation No. SAE LEN 05-008 ⁽²⁾ SA / MDMQ Registration No. LEA-R-005

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UNCERTAINTY (U):

Metals in solids = 28%

Calculation: C +/- (UxC / 100) where: C = measured value; U = uncertainty%.

Ing. Isabel Estrella
OPERATION MANAGER

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ANALYSIS REPORT

Client: GEOGES CIA LTDA

QUITO 219 AND ESMERALDAS AND PORTOVIEJO Open

Atna: Ing. Natalia Pontón

Draft: Sediment Analysis

Sample Received: 25-Nov-20

Type of sample: 1 Sediment Sample

Analysis Completed: 07-Dec-20

Gruentec report number: 2011538-S006

Date of issue: 08-Dec-20

Sample identification:	HUAYLA E	Adapted Reference Method / Internal Method
Sampling date:	06-Nov-20	
Gruentec Report No.	2011538-S006	
Metals in dry weight:		
Aluminum mg / kg ^(1,2)	14318	EPA 6020 B / MM-AG / S-39
Antimony mg / kg ^(1,2)	<0.2	EPA 6020 B / MM-AG / S-39
Arsenic mg / kg ^(1,2)	13	EPA 6020 B / MM-AG / S-39
Sulfur mg / kg ^(1,2)	11452	EPA 6020 B / MM-AG / S-39
Barium mg / kg ^(1,2)	54	EPA 6020 B / MM-AG / S-39
Beryllium mg / kg ^(1,2)	0.1	EPA 6020 B / MM-AG / S-39
Boron mg / kg ^(1,2)	<20	EPA 6020 B / MM-AG / S-39
Cadmium mg / kg ^(1,2)	0.3	EPA 6020 B / MM-AG / S-39
Calcium mg / kg ^(1,2)	5718	EPA 6020 B / MM-AG / S-39
Cobalt mg / kg ^(1,2)	9.5	EPA 6020 B / MM-AG / S-39
Copper mg / kg ^(1,2)	twenty-one	EPA 6020 B / MM-AG / S-39
Chromium mg / kg ^(1,2)	fifteen	EPA 6020 B / MM-AG / S-39
Tin mg / kg *	0.7	EPA 6020 B / MM-AG / S-39
Phosphorus% ^(1,2)	0.04	EPA 6020 B / MM-AG / S-39
Iron% ^(1,2)	2.1	EPA 6020 B / MM-AG / S-39
Lithium mg / kg ^(1,2)	3.7	EPA 6020 B / MM-AG / S-39
Magnesium% ^(1,2)	0.8	EPA 6020 B / MM-AG / S-39
Manganese mg / kg ^(1,2)	280	EPA 6020 B / MM-AG / S-39
Mercury mg / kg ^(1,2)	<0.1	EPA 6020 B / MM-AG / S-39
Molybdenum mg / kg ^(1,2)	1.2	EPA 6020 B / MM-AG / S-39
Nickel mg / kg ^(1,2)	7	EPA 6020 B / MM-AG / S-39
Silver mg / kg ^(1,2)	<0.2	EPA 6020 B / MM-AG / S-39
Lead mg / kg ^(1,2)	10	EPA 6020 B / MM-AG / S-39
Potassium% ^(1,2)	0.3	EPA 6020 B / MM-AG / S-39
Selenium mg / kg ^(1,2)	<1	EPA 6020 B / MM-AG / S-39
Sodium% ^(1,2)	2.2	EPA 6020 B / MM-AG / S-39
Thallium mg / kg ^(1,2)	<0.1	EPA 6020 B / MM-AG / S-39
Uranium mg / kg ^(1,2)	1.4	EPA 6020 B / MM-AG / S-39
Vanadium mg / kg ^(1,2)	32	EPA 6020 B / MM-AG / S-39
Zinc mg / kg ^(1,2)	60	EPA 6020 B / MM-AG / S-39

Registrations and Accreditations:

⁽¹⁾ Accreditation No. SAE LEN 05-008 ⁽²⁾ SA / MDMQ Registration No. LEA-R-005

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UNCERTAINTY (U):

Metals in solids = 28%

Calculation: C +/- (UxC / 100) where: C = measured value; U = uncertainty%.

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OPERATION MANAGER

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ANALYSIS REPORT

Client: GEOGES CIA LTDA

QUITO 219 AND ESMERALDAS AND PORTOVIEJO Open

Atna: Ing. Natalia Pontón

Draft: Sediment Analysis

Sample Received: 25-Nov-20

Type of sample: 1 Sediment Sample

Analysis Completed: 07-Dec-20

Gruentec report number: 2011538-S007

Date of issue: 08-Dec-20

Sample identification:	GUAJABAL MG	Adapted Reference Method / Internal Method
Sampling date:	06-Nov-20	
Gruentec Report No.	2011538-S007	

Metals in dry weight:		
Aluminum mg / kg ^(1,2)	11184	EPA 6020 B / MM-AG / S-39
Antimony mg / kg ^(1,2)	0.3	EPA 6020 B / MM-AG / S-39
Arsenic mg / kg ^(1,2)	14	EPA 6020 B / MM-AG / S-39
Sulfur mg / kg ^(1,2)	12164	EPA 6020 B / MM-AG / S-39
Barium mg / kg ^(1,2)	27	EPA 6020 B / MM-AG / S-39
Beryllium mg / kg ^(1,2)	<0.1	EPA 6020 B / MM-AG / S-39
Boron mg / kg ^(1,2)	56	EPA 6020 B / MM-AG / S-39
Cadmium mg / kg ^(1,2)	0.4	EPA 6020 B / MM-AG / S-39
Calcium mg / kg ^(1,2)	7507	EPA 6020 B / MM-AG / S-39
Cobalt mg / kg ^(1,2)	7.0	EPA 6020 B / MM-AG / S-39
Copper mg / kg ^(1,2)	26	EPA 6020 B / MM-AG / S-39
Chromium mg / kg ^(1,2)	19	EPA 6020 B / MM-AG / S-39
Tin mg / kg *	<0.5	EPA 6020 B / MM-AG / S-39
Phosphorus% ^(1,2)	0.1	EPA 6020 B / MM-AG / S-39
Iron% ^(1,2)	1.8	EPA 6020 B / MM-AG / S-39
Lithium mg / kg ^(1,2)	4.4	EPA 6020 B / MM-AG / S-39
Magnesium% ^(1,2)	1.2	EPA 6020 B / MM-AG / S-39
Manganese mg / kg ^(1,2)	211	EPA 6020 B / MM-AG / S-39
Mercury mg / kg ^(1,2)	<0.1	EPA 6020 B / MM-AG / S-39
Molybdenum mg / kg ^(1,2)	5.7	EPA 6020 B / MM-AG / S-39
Nickel mg / kg ^(1,2)	eleven	EPA 6020 B / MM-AG / S-39
Silver mg / kg ^(1,2)	<0.2	EPA 6020 B / MM-AG / S-39
Lead mg / kg ^(1,2)	9.3	EPA 6020 B / MM-AG / S-39
Potassium% ^(1,2)	0.4	EPA 6020 B / MM-AG / S-39
Selenium mg / kg ^(1,2)	1	EPA 6020 B / MM-AG / S-39
Sodium% ^(1,2)	4.8	EPA 6020 B / MM-AG / S-39
Thallium mg / kg ^(1,2)	<0.1	EPA 6020 B / MM-AG / S-39
Uranium mg / kg ^(1,2)	5.2	EPA 6020 B / MM-AG / S-39
Vanadium mg / kg ^(1,2)	40	EPA 6020 B / MM-AG / S-39
Zinc mg / kg ^(1,2)	fifty	EPA 6020 B / MM-AG / S-39

Registrations and Accreditations:

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UNCERTAINTY (U):

Metals in solids = 28%

Calculation: C +/- (UxC / 100) where: C = measured value; U = uncertainty%.

**Ing. Isabel Estrella
OPERATION MANAGER**

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ANALYSIS REPORT

Client: GEOGES CIA LTDA

QUITO 219 AND ESMERALDAS AND PORTOVIEJO Open

Atna: Ing. Natalia Pontón

Draft: Sediment Analysis

Sample Received: 25-Nov-20

Type of sample: 1 Sediment Sample

Analysis Completed: 07-Dec-20

Gruentec report number: 2011538-S008

Date of issue: 08-Dec-20

Sample identification:	GUAJABAL E	Adapted Reference Method / Internal Method
Sampling date:	06-Nov-20	
Gruentec Report No.	2011538-S008	

Metals in dry weight:		
Aluminum mg / kg ^(1,2)	8848	EPA 6020 B / MM-AG / S-39
Antimony mg / kg ^(1,2)	<0.2	EPA 6020 B / MM-AG / S-39
Arsenic mg / kg ^(1,2)	10	EPA 6020 B / MM-AG / S-39
Sulfur mg / kg ^(1,2)	10116	EPA 6020 B / MM-AG / S-39
Barium mg / kg ^(1,2)	46	EPA 6020 B / MM-AG / S-39
Beryllium mg / kg ^(1,2)	0.1	EPA 6020 B / MM-AG / S-39
Boron mg / kg ^(1,2)	<20	EPA 6020 B / MM-AG / S-39
Cadmium mg / kg ^(1,2)	0.2	EPA 6020 B / MM-AG / S-39
Calcium mg / kg ^(1,2)	4977	EPA 6020 B / MM-AG / S-39
Cobalt mg / kg ^(1,2)	8.5	EPA 6020 B / MM-AG / S-39
Copper mg / kg ^(1,2)	29	EPA 6020 B / MM-AG / S-39
Chromium mg / kg ^(1,2)	twenty-one	EPA 6020 B / MM-AG / S-39
Tin mg / kg *	<0.5	EPA 6020 B / MM-AG / S-39
Phosphorus% ^(1,2)	0.1	EPA 6020 B / MM-AG / S-39
Iron% ^(1,2)	2.2	EPA 6020 B / MM-AG / S-39
Lithium mg / kg ^(1,2)	5.3	EPA 6020 B / MM-AG / S-39
Magnesium% ^(1,2)	0.9	EPA 6020 B / MM-AG / S-39
Manganese mg / kg ^(1,2)	281	EPA 6020 B / MM-AG / S-39
Mercury mg / kg ^(1,2)	<0.1	EPA 6020 B / MM-AG / S-39
Molybdenum mg / kg ^(1,2)	1.3	EPA 6020 B / MM-AG / S-39
Nickel mg / kg ^(1,2)	eleven	EPA 6020 B / MM-AG / S-39
Silver mg / kg ^(1,2)	<0.2	EPA 6020 B / MM-AG / S-39
Lead mg / kg ^(1,2)	eleven	EPA 6020 B / MM-AG / S-39
Potassium% ^(1,2)	0.4	EPA 6020 B / MM-AG / S-39
Selenium mg / kg ^(1,2)	two	EPA 6020 B / MM-AG / S-39
Sodium% ^(1,2)	2.9	EPA 6020 B / MM-AG / S-39
Thallium mg / kg ^(1,2)	<0.1	EPA 6020 B / MM-AG / S-39
Uranium mg / kg ^(1,2)	1.5	EPA 6020 B / MM-AG / S-39
Vanadium mg / kg ^(1,2)	37	EPA 6020 B / MM-AG / S-39
Zinc mg / kg ^(1,2)	63	EPA 6020 B / MM-AG / S-39

Registrations and Accreditations:

⁽¹⁾ Accreditation No. SAE LEN 05-008 ⁽²⁾ SA / MDMQ Registration No. LEA-R-005

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UNCERTAINTY (U):

Metals in solids = 28%

Calculation: $C \pm (U \times C / 100)$ where: C = measured value; U = uncertainty%.

Ing. Isabel Estrella
OPERATION MANAGER

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