

Date: 30/01/2015

SGS Kenya Limited Laboratory Services

SGS Kenya Ltd.
 SGS House
 Ali Punjani Street
 P.O. Box 90264
 80100 Mombasa
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KURRENT TECHNOLOGIES LIMITED
 P.O.BOX 16989 - 00620 NAIROBI
 Nairobi
 Kenya

Analysis Report MA15-00219.001

PRODUCT DESCRIPTION: SOIL
 SAMPLED BY: SGS
 DATE SAMPLED: 14/01/2015
 SAMPLE RECEIVED: 21/01/2015
 ANALYSIS STARTED: 21/01/2015
 MARKS: LAMU COAL POWER PROJECT
 SAMPLE CONDITION: DELIVERED IN A POLYTHENE PACK
 SOIL SAMPLE .
 SITE AREA: KWASASI-NEAR BEACON 1

TESTS	METHOD	RESULT	UNITS
Total Cyanide	ICARDA	<0.01	mg/kg
TPH C6-C44	SGS TW 56	0.91	mg/kg
TPH C10 - C16	SGS TW 56	17.18	mg/kg
TPH C16 - C22	SGS TW 56	0.02	mg/kg
pH	ICARDA	7.46	
Arsenic as As	EPA 3050 B	<0.02	mg/kg
Cadmium as Cd	EPA 3050 B	1.83	mg/kg
Chromium as Cr	EPA 3050 B	3.35	mg/kg
Copper as Cu	EPA 3050 B	3.70	mg/kg
Iron as Fe	EPA 3050 B	982.90	mg/kg
Nickel as Ni	EPA 3050 B	<0.02	mg/kg
Lead as Pb	EPA 3050 B	4.21	mg/kg
Selenium as Se	EPA 3050 B	<0.01	mg/kg
Zinc as Zn	EPA 3050 B	14.91	mg/kg
Mercury as Hg	D/ SGS TW 12	<0.005	mg/kg
Total Phenol	ICARDA	<0.001	mg/kg

Authorised Signatory

Technical Signatory

Technical Signatory



Walter Ogara - Multi-Lab Manager



DAVID OMONDI-LAB ANALYST



George Nduko-Chemist

30012015 0946 0000045579

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Analysis Report MA15-00219.002

PRODUCT DESCRIPTION: SOIL
 SAMPLED BY: SGS
 DATE SAMPLED: 15/01/2015
 SAMPLE RECEIVED: 21/01/2015
 ANALYSIS STARTED: 21/01/2015
 MARKS: LAMU COAL POWER PROJECT
 SAMPLE CONDITION: DELIVERED IN A POLYTHENE PACK
 SOIL SAMPLE
 SITE AREA: KWASASI-NEAR BEACON 2

TESTS	METHOD	RESULT	UNITS
Total Cyanide	ICARDA	<0.01	mg/kg
TPH C6-C44	SGS TW 56	5.72	mg/kg
TPH C10 - C16	SGS TW 56	12.13	mg/kg
TPH C16 - C22	SGS TW 56	0.40	mg/kg
pH	ICARDA	7.44	
Arsenic as As	EPA 3050 B	<0.02	mg/kg
Cadmium as Cd	EPA 3050 B	2.39	mg/kg
Chromium as Cr	EPA 3050 B	4.41	mg/kg
Copper as Cu	EPA 3050 B	2.26	mg/kg
Iron as Fe	EPA 3050 B	1219.00	mg/kg
Nickel as Ni	EPA 3050 B	0.60	mg/kg
Lead as Pb	EPA 3050 B	5.07	mg/kg
Selenium as Se	EPA 3050 B	<0.01	mg/kg
Zinc as Zn	EPA 3050 B	7.80	mg/kg
Mercury as Hg	D/ SGS TW 12	<0.005	mg/kg
Total Phenol	ICARDA	<0.001	mg/kg

Authorised Signatory

Technical Signatory

Technical Signatory



Walter Ogara - Multi-Lab Manager



DAVID OMONDI-LAB ANALYST



George Nduko-Chemist

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Analysis Report MA15-00219.003

PRODUCT DESCRIPTION: SOIL
 SAMPLED BY: SGS
 DATE SAMPLED: 14/01/2015
 SAMPLE RECEIVED: 21/01/2015
 ANALYSIS STARTED: 21/01/2015
 MARKS: LAMU COAL POWER PROJECT
 SAMPLE CONDITION: DELIVERED IN A POLYTHENE PACK
 SOIL SAMPLE
 SITE AREA: KWASASI-NEAR BEACON 4

TESTS	METHOD	RESULT	UNITS
Total Cyanide	ICARDA	<0.01	mg/kg
TPH C6-C44	SGS TW 56	8.33	mg/kg
TPH C10 - C16	SGS TW 56	11.20	mg/kg
TPH C16 - C22	SGS TW 56	0.95	mg/kg
pH	ICARDA	7.54	
Arsenic as As	EPA 3050 B	<0.02	mg/kg
Cadmium as Cd	EPA 3050 B	1.32	mg/kg
Chromium as Cr	EPA 3050 B	6.15	mg/kg
Copper as Cu	EPA 3050 B	4.03	mg/kg
Iron as Fe	EPA 3050 B	1856.93	mg/kg
Nickel as Ni	EPA 3050 B	2.41	mg/kg
Lead as Pb	EPA 3050 B	7.95	mg/kg
Selenium as Se	EPA 3050 B	<0.01	mg/kg
Zinc as Zn	EPA 3050 B	9.85	mg/kg
Mercury as Hg	D/ SGS TW 12	<0.005	mg/kg
Total Phenol	ICARDA	<0.001	mg/kg

Authorised Signatory

Technical Signatory

Technical Signatory



Walter Ogara - Multi-Lab Manager



DAVID OMONDI-LAB ANALYST



George Nduko-Chemist

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Analysis Report MA15-00219.004

PRODUCT DESCRIPTION: SEDIMENTS
 SAMPLED BY: SGS
 DATE SAMPLED: 10/01/2015
 SAMPLE RECEIVED: 21/01/2015
 ANALYSIS STARTED: 21/01/2015
 MARKS: LAMU COAL POWER PROJECT
 SAMPLE CONDITION: DELIVERED IN A TEFLON TUBE
 SEDIMENTS
 SITE No. 1
 SITE NAME:NDUNUNI BAY

TESTS	METHOD	RESULT	UNITS
Total Cyanide	ICARDA	<0.01	mg/kg
TPH C6-C44	SGS TW 56	4.64	mg/kg
TPH C10 - C16	SGS TW 56	8.11	mg/kg
TPH C16 - C22	SGS TW 56	<0.01	mg/kg
pH	ICARDA	7.94	
Arsenic as As	EPA 3050 B	<0.02	mg/kg
Cadmium as Cd	EPA 3050 B	2.78	mg/kg
Chromium as Cr	EPA 3050 B	5.05	mg/kg
Copper as Cu	EPA 3050 B	1.63	mg/kg
Iron as Fe	EPA 3050 B	2364.14	mg/kg
Nickel as Ni	EPA 3050 B	4.29	mg/kg
Lead as Pb	EPA 3050 B	6.69	mg/kg
Selenium as Se	EPA 3050 B	<0.01	mg/kg
Zinc as Zn	EPA 3050 B	8.28	mg/kg
Mercury as Hg	D/ SGS TW 12	<0.005	mg/kg
Total Phenol	ICARDA	<0.001	mg/kg

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Technical Signatory

Technical Signatory



Walter Ogara - Multi-Lab Manager



DAVID OMONDI-LAB ANALYST



George Nduko-Chemist

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Analysis Report MA15-00219.005

PRODUCT DESCRIPTION: SEDIMENTS
 SAMPLED BY: SGS
 DATE SAMPLED: 11/01/2015
 SAMPLE RECEIVED: 21/01/2015
 ANALYSIS STARTED: 21/01/2015
 MARKS: LAMU COAL POWER PROJECT
 SAMPLE CONDITION: DELIVERED IN A TEFLON TUBE
 SEDIMENTS
 SITE No. 2
 SITE NAME:PATE ISLAND BAY

TESTS	METHOD	RESULT	UNITS
Total Cyanide	ICARDA	<0.01	mg/kg
TPH C6-C44	SGS TW 56	3.37	mg/kg
TPH C10 - C16	SGS TW 56	6.13	mg/kg
TPH C16 - C22	SGS TW 56	<0.01	mg/kg
pH	ICARDA	7.75	
Arsenic as As	EPA 3050 B	<0.02	mg/kg
Cadmium as Cd	EPA 3050 B	2.44	mg/kg
Chromium as Cr	EPA 3050 B	7.81	mg/kg
Copper as Cu	EPA 3050 B	2.82	mg/kg
Iron as Fe	EPA 3050 B	3666.46	mg/kg
Nickel as Ni	EPA 3050 B	<0.02	mg/kg
Lead as Pb	EPA 3050 B	13.72	mg/kg
Selenium as Se	EPA 3050 B	<0.01	mg/kg
Zinc as Zn	EPA 3050 B	8.41	mg/kg
Mercury as Hg	D/ SGS TW 12	<0.005	mg/kg
Total Phenol	ICARDA	<0.001	mg/kg

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Walter Ogara - Multi-Lab Manager



DAVID OMONDI-LAB ANALYST



George Nduko-Chemist

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Analysis Report MA15-00219.006

PRODUCT DESCRIPTION: SEDIMENTS
 SAMPLED BY: SGS
 DATE SAMPLED: 12/01/2015
 SAMPLE RECEIVED: 21/01/2015
 ANALYSIS STARTED: 21/01/2015
 MARKS: LAMU COAL POWER PROJECT
 SAMPLE CONDITION: DELIVERED IN A TEFLON TUBE
 SEDIMENTS
 SITE No. 3
 SITE NAME: MBELE MBELE WETLAND

TESTS	METHOD	RESULT	UNITS
Total Cyanide	ICARDA	<0.01	mg/kg
TPH C6-C44	SGS TW 56	<0.01	mg/kg
TPH C10 - C16	SGS TW 56	12.76	mg/kg
TPH C16 - C22	SGS TW 56	<0.01	mg/kg
pH	ICARDA	7.86	
Arsenic as As	EPA 3050 B	<0.02	mg/kg
Cadmium as Cd	EPA 3050 B	2.60	mg/kg
Chromium as Cr	EPA 3050 B	13.41	mg/kg
Copper as Cu	EPA 3050 B	11.34	mg/kg
Iron as Fe	EPA 3050 B	3386.82	mg/kg
Nickel as Ni	EPA 3050 B	<0.02	mg/kg
Lead as Pb	EPA 3050 B	13.82	mg/kg
Selenium as Se	EPA 3050 B	<0.01	mg/kg
Zinc as Zn	EPA 3050 B	15.08	mg/kg
Mercury as Hg	D/ SGS TW 12	<0.005	mg/kg
Total Phenol	ICARDA	<0.001	mg/kg

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Walter Ogara - Multi-Lab Manager



DAVID OMONDI-LAB ANALYST



George Nduko-Chemist

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Analysis Report MA15-00219.007

PRODUCT DESCRIPTION: SEDIMENTS
 SAMPLED BY: SGS
 DATE SAMPLED: 13/01/2015
 SAMPLE RECEIVED: 21/01/2015
 ANALYSIS STARTED: 21/01/2015
 MARKS: LAMU COAL POWER PROJECT
 SAMPLE CONDITION: DELIVERED IN A TEFLON TUBE
 SEDIMENTS
 SITE No. 4
 SITE NAME:KWASASI

TESTS	METHOD	RESULT	UNITS
Total Cyanide	ICARDA	<0.01	mg/kg
TPH C6-C44	SGS TW 56	5.76	mg/kg
TPH C10 - C16	SGS TW 56	8.18	mg/kg
TPH C16 - C22	SGS TW 56	0.24	mg/kg
pH	ICARDA	7.75	
Arsenic as As	EPA 3050 B	<0.02	mg/kg
Cadmium as Cd	EPA 3050 B	1.92	mg/kg
Chromium as Cr	EPA 3050 B	5.23	mg/kg
Copper as Cu	EPA 3050 B	2.26	mg/kg
Iron as Fe	EPA 3050 B	3084.59	mg/kg
Nickel as Ni	EPA 3050 B	2.12	mg/kg
Lead as Pb	EPA 3050 B	13.69	mg/kg
Selenium as Se	EPA 3050 B	<0.01	mg/kg
Zinc as Zn	EPA 3050 B	7.56	mg/kg
Mercury as Hg	D/ SGS TW 12	<0.005	mg/kg
Total Phenol	ICARDA	<0.001	mg/kg

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Technical Signatory

Technical Signatory



Walter Ogara - Multi-Lab Manager



DAVID OMONDI-LAB ANALYST



George Nduko-Chemist

30012015 0946 0000045579

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Analysis Report MA15-00219.008

PRODUCT DESCRIPTION: SEDIMENTS
 SAMPLED BY: SGS
 DATE SAMPLED: 15/01/2015
 SAMPLE RECEIVED: 21/01/2015
 ANALYSIS STARTED: 21/01/2015
 MARKS: LAMU COAL POWER PROJECT
 SAMPLE CONDITION: DELIVERED IN A TEFLON TUBE
 SEDIMENTS
 SITE No. 5
 SITE NAME: LAMU BAY

TESTS	METHOD	RESULT	UNITS
Total Cyanide	ICARDA	<0.01	mg/kg
TPH C6-C44	SGS TW 56	4.78	mg/kg
TPH C10 - C16	SGS TW 56	9.40	mg/kg
TPH C16 - C22	SGS TW 56	0.66	mg/kg
pH	ICARDA	7.73	
Arsenic as As	EPA 3050 B	<0.02	mg/kg
Cadmium as Cd	EPA 3050 B	2.84	mg/kg
Chromium as Cr	EPA 3050 B	5.24	mg/kg
Copper as Cu	EPA 3050 B	19.27	mg/kg
Iron as Fe	EPA 3050 B	2223.78	mg/kg
Nickel as Ni	EPA 3050 B	8.41	mg/kg
Lead as Pb	EPA 3050 B	13.83	mg/kg
Selenium as Se	EPA 3050 B	<0.01	mg/kg
Zinc as Zn	EPA 3050 B	33.83	mg/kg
Mercury as Hg	D/ SGS TW 12	<0.005	mg/kg
Total Phenol	ICARDA	<0.001	mg/kg

****End of Analytical Results****

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Walter Ogara - Multi-Lab Manager



DAVID OMONDI-LAB ANALYST



George Nduko-Chemist

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