Alchemy Laboratory & Services Sdn Bhd

Alchemy Laboratory & Services Sdn. Bhd. (903112-K)
326B, 1st Floor, Lot 2520, Jalan Hiliran, Mukim Losong,
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STANDARDS MALAYSIA ACCREDITED LABORATORY

MS ISO/IEC 17025
TESTING
SAMM NO. 554

Ref. No. : TR/S/OS0091/16
Date : 15 September 2016
Page : 1 of 1

Test Report

Client/ Customer : **Integrated Envirotech S/B**
Address : Lot 32-2, Jalan Setiawangsa 11A,
Taman Setiawangsa,
54200 Kuala Lumpur.
Sample Description : Sediment
Date Received : 25 August 2016
Sample Marking : **SW 1**

Results of Analysis

Parameters	Methods	Unit	Result
*Oil and Grease	APHA 5520 B	mg/kg	24.3
*Total Organic Carbon (TOC)	APHA 5310 B (Modified)	%	0.53
*Arsenic (As)	USEPA 3052	mg/kg	ND (<1)
*Barium (Ba)	USEPA 3050 B	mg/kg	2.49
*Cadmium (Cd)	USEPA 3050 B	mg/kg	ND(<1)
*Chromium (Cr)	USEPA 3050 B	mg/kg	5.48
*Copper (Cu)	USEPA 3050 B	mg/kg	2.44
*Iron (Fe)	USEPA 3050 B	mg/kg	5115
*Lead (Pb)	USEPA 3050 B	mg/kg	1910
*Nickel (Ni)	USEPA 3050 B	mg/kg	3.44
*Vanadium (V)	USEPA 3050 B	mg/kg	10.28
*Zinc (Zn)	USEPA 3050 B	mg/kg	19.97
*Mercury (Hg)	USEPA 3052	µg/kg	ND(<0.5)
*Cyanide	OSRMA P.456	mg/kg	ND(<0.1)
*Total PAHs	APHA 6440 B	µg/kg	ND(<10)
^*Redox	APHA 2580 B	mV	-88

Note:
1) APHA (America Public Health Association) refers to Standard Methods for Examination of Water and Wastewater, 21st Edition
2) USEPA – United States Environmental Protection Agency
3) ND – Not Detected
4) *Analyses were subcontracted to SAMM accredited laboratory
5) ^Method not SAMM accredited

Authorized by:

Emi Suliana Binti Mamat
Chemist
BSc.(Hons). L/2032/6858/14

End of Report

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TESTING
SAMM NO. 554

Ref. No. : TR/S/OS0092/16
Date : 15 September 2016
Page : 1 of 1

Test Report

Client/ Customer : **Integrated Envirotech S/B**
Address : Lot 32-2, Jalan Setiawangsa 11A,
Taman Setiawangsa,
54200 Kuala Lumpur.
Sample Description : Sediment
Date Received : 25 August 2016
Sample Marking : **SW 2**

Results of Analysis

Parameters	Methods	Unit	Result
*Oil and Grease	APHA 5520 B	mg/kg	18.2
*Total Organic Carbon (TOC)	APHA 5310 B (Modified)	%	0.48
*Arsenic (As)	USEPA 3052	mg/kg	ND (<1)
*Barium (Ba)	USEPA 3050 B	mg/kg	2.17
*Cadmium (Cd)	USEPA 3050 B	mg/kg	ND(<1)
*Chromium (Cr)	USEPA 3050 B	mg/kg	4.87
*Copper (Cu)	USEPA 3050 B	mg/kg	3.59
*Iron (Fe)	USEPA 3050 B	mg/kg	9136
*Lead (Pb)	USEPA 3050 B	mg/kg	2481
*Nickel (Ni)	USEPA 3050 B	mg/kg	2.46
*Vanadium (V)	USEPA 3050 B	mg/kg	9.30
*Zinc (Zn)	USEPA 3050 B	mg/kg	19.29
*Mercury (Hg)	USEPA 3052	µg/kg	ND(<0.5)
*Cyanide	OSRMA P.456	mg/kg	ND(<0.1)
*Total PAHs	APHA 6440 B	µg/kg	ND(<10)
^*Redox	APHA 2580 B	mV	75

Note:
1) APHA (America Public Health Association) refers to Standard Methods for Examination of Water and Wastewater, 21st Edition
2) USEPA – United States Environmental Protection Agency
3) ND – Not Detected
4) *Analyses were subcontracted to SAMM accredited laboratory
5) ^Method not SAMM accredited

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MS ISO/IEC 17025
TESTING
SAMM NO. 554

Ref. No. : TR/S/OS0093/16
Date : 15 September 2016
Page : 1 of 1

Test Report

Client/ Customer : **Integrated Envirotech S/B**
Address : Lot 32-2, Jalan Setiawangsa 11A,
Taman Setiawangsa,
54200 Kuala Lumpur.
Sample Description : Sediment
Date Received : 25 August 2016
Sample Marking : **SW 3**

Results of Analysis

Parameters	Methods	Unit	Result
*Oil and Grease	APHA 5520 B	mg/kg	41.1
*Total Organic Carbon (TOC)	APHA 5310 B (Modified)	%	0.63
*Arsenic (As)	USEPA 3052	mg/kg	ND (<1)
*Barium (Ba)	USEPA 3050 B	mg/kg	2.38
*Cadmium (Cd)	USEPA 3050 B	mg/kg	ND(<1)
*Chromium (Cr)	USEPA 3050 B	mg/kg	5.04
*Copper (Cu)	USEPA 3050 B	mg/kg	3.01
*Iron (Fe)	USEPA 3050 B	mg/kg	3726
*Lead (Pb)	USEPA 3050 B	mg/kg	2009
*Nickel (Ni)	USEPA 3050 B	mg/kg	3.15
*Vanadium (V)	USEPA 3050 B	mg/kg	9.62
*Zinc (Zn)	USEPA 3050 B	mg/kg	22.16
*Mercury (Hg)	USEPA 3052	µg/kg	ND(<0.5)
*Cyanide	OSRMA P.456	mg/kg	ND(<0.1)
*Total PAHs	APHA 6440 B	µg/kg	ND(<10)
^*Redox	APHA 2580 B	mV	-60

Note:
1) APHA (America Public Health Association) refers to Standard Methods for Examination of Water and Wastewater, 21st Edition
2) USEPA – United States Environmental Protection Agency
3) ND – Not Detected
4) *Analyses were subcontracted to SAMM accredited laboratory
5) ^Method not SAMM accredited

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Ref. No. : TR/S/OS0094/16
Date : 15 September 2016
Page : 1 of 1

Test Report

Client/ Customer : **Integrated Envirotech S/B**
Address : Lot 32-2, Jalan Setiawangsa 11A,
Taman Setiawangsa,
54200 Kuala Lumpur.
Sample Description : Sediment
Date Received : 25 August 2016
Sample Marking : **SW 4**

Results of Analysis

Parameters	Methods	Unit	Result
*Oil and Grease	APHA 5520 B	mg/kg	7.96
*Total Organic Carbon (TOC)	APHA 5310 B (Modified)	%	0.54
*Arsenic (As)	USEPA 3052	mg/kg	ND (<1)
*Barium (Ba)	USEPA 3050 B	mg/kg	1.91
*Cadmium (Cd)	USEPA 3050 B	mg/kg	ND(<1)
*Chromium (Cr)	USEPA 3050 B	mg/kg	4.26
*Copper (Cu)	USEPA 3050 B	mg/kg	3.28
*Iron (Fe)	USEPA 3050 B	mg/kg	5308
*Lead (Pb)	USEPA 3050 B	mg/kg	2145
*Nickel (Ni)	USEPA 3050 B	mg/kg	2.30
*Vanadium (V)	USEPA 3050 B	mg/kg	10.29
*Zinc (Zn)	USEPA 3050 B	mg/kg	19.13
*Mercury (Hg)	USEPA 3052	µg/kg	ND(<0.5)
*Cyanide	OSRMA P.456	mg/kg	ND(<0.1)
*Total PAHs	APHA 6440 B	µg/kg	ND(<10)
^*Redox	APHA 2580 B	mV	-63

Note:
1) APHA (America Public Health Association) refers to Standard Methods for Examination of Water and Wastewater, 21st Edition
2) USEPA – United States Environmental Protection Agency
3) ND – Not Detected
4) *Analyses were subcontracted to SAMM accredited laboratory
5) ^Method not SAMM accredited

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MS ISO/IEC 17025
TESTING
SAMM NO. 554

Ref. No. : TR/S/OS0095/16
Date : 15 September 2016
Page : 1 of 1

Test Report

Client/ Customer : **Integrated Envirotech S/B**
Address : Lot 32-2, Jalan Setiawangsa 11A,
Taman Setiawangsa,
54200 Kuala Lumpur.
Sample Description : Sediment
Date Received : 25 August 2016
Sample Marking : **SW 5**

Results of Analysis

Parameters	Methods	Unit	Result
*Oil and Grease	APHA 5520 B	mg/kg	19.33
*Total Organic Carbon (TOC)	APHA 5310 B (Modified)	%	0.54
*Arsenic (As)	USEPA 3052	mg/kg	ND (<1)
*Barium (Ba)	USEPA 3050 B	mg/kg	2.38
*Cadmium (Cd)	USEPA 3050 B	mg/kg	ND(<1)
*Chromium (Cr)	USEPA 3050 B	mg/kg	4.99
*Copper (Cu)	USEPA 3050 B	mg/kg	3.10
*Iron (Fe)	USEPA 3050 B	mg/kg	6337
*Lead (Pb)	USEPA 3050 B	mg/kg	2288
*Nickel (Ni)	USEPA 3050 B	mg/kg	2.42
*Vanadium (V)	USEPA 3050 B	mg/kg	9.70
*Zinc (Zn)	USEPA 3050 B	mg/kg	19.39
*Mercury (Hg)	USEPA 3052	µg/kg	ND(<0.5)
*Cyanide	OSRMA P.456	mg/kg	ND(<0.1)
*Total PAHs	APHA 6440 B	µg/kg	ND(<10)
^*Redox	APHA 2580 B	mV	16

Note:
1) APHA (America Public Health Association) refers to Standard Methods for Examination of Water and Wastewater, 21st Edition
2) USEPA – United States Environmental Protection Agency
3) ND – Not Detected
4) *Analyses were subcontracted to SAMM accredited laboratory
5) ^Method not SAMM accredited

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Ref. No. : TR/S/OS0096/16
Date : 15 September 2016
Page : 1 of 1

Test Report

Client/ Customer : **Integrated Envirotech S/B**
Address : Lot 32-2, Jalan Setiawangsa 11A,
Taman Setiawangsa,
54200 Kuala Lumpur.
Sample Description : Sediment
Date Received : 25 August 2016
Sample Marking : **SW 6**

Results of Analysis

Parameters	Methods	Unit	Result
*Oil and Grease	APHA 5520 B	mg/kg	17.49
*Total Organic Carbon (TOC)	APHA 5310 B (Modified)	%	0.42
*Arsenic (As)	USEPA 3052	mg/kg	ND (<1)
*Barium (Ba)	USEPA 3050 B	mg/kg	1.45
*Cadmium (Cd)	USEPA 3050 B	mg/kg	ND(<1)
*Chromium (Cr)	USEPA 3050 B	mg/kg	3.09
*Copper (Cu)	USEPA 3050 B	mg/kg	2.27
*Iron (Fe)	USEPA 3050 B	mg/kg	4004
*Lead (Pb)	USEPA 3050 B	mg/kg	1568
*Nickel (Ni)	USEPA 3050 B	mg/kg	1.78
*Vanadium (V)	USEPA 3050 B	mg/kg	8.73
*Zinc (Zn)	USEPA 3050 B	mg/kg	12.30
*Mercury (Hg)	USEPA 3052	µg/kg	ND(<0.5)
*Cyanide	OSRMA P.456	mg/kg	ND(<0.1)
*Total PAHs	APHA 6440 B	µg/kg	ND(<10)
^*Redox	APHA 2580 B	mV	-77

Note:
1) APHA (America Public Health Association) refers to Standard Methods for Examination of Water and Wastewater, 21st Edition
2) USEPA – United States Environmental Protection Agency
3) ND – Not Detected
4) *Analyses were subcontracted to SAMM accredited laboratory
5) ^Method not SAMM accredited

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Ref. No. : TR/S/OS0097/16
Date : 15 September 2016
Page : 1 of 1

Test Report

Client/ Customer : **Integrated Envirotech S/B**
Address : Lot 32-2, Jalan Setiawangsa 11A,
Taman Setiawangsa,
54200 Kuala Lumpur.
Sample Description : Sediment
Date Received : 25 August 2016
Sample Marking : **SW 7**

Results of Analysis

Parameters	Methods	Unit	Result
*Oil and Grease	APHA 5520 B	mg/kg	15.29
*Total Organic Carbon (TOC)	APHA 5310 B (Modified)	%	0.55
*Arsenic (As)	USEPA 3052	mg/kg	ND (<1)
*Barium (Ba)	USEPA 3050 B	mg/kg	1.64
*Cadmium (Cd)	USEPA 3050 B	mg/kg	ND(<1)
*Chromium (Cr)	USEPA 3050 B	mg/kg	3.67
*Copper (Cu)	USEPA 3050 B	mg/kg	2.18
*Iron (Fe)	USEPA 3050 B	mg/kg	6605
*Lead (Pb)	USEPA 3050 B	mg/kg	2405
*Nickel (Ni)	USEPA 3050 B	mg/kg	1.88
*Vanadium (V)	USEPA 3050 B	mg/kg	10.49
*Zinc (Zn)	USEPA 3050 B	mg/kg	13.04
*Mercury (Hg)	USEPA 3052	µg/kg	ND(<0.5)
*Cyanide	OSRMA P.456	mg/kg	ND(<0.1)
*Total PAHs	APHA 6440 B	µg/kg	ND(<10)
^*Redox	APHA 2580 B	mV	211

Note:
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3) ND – Not Detected
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Ref. No. : TR/S/OS0098/16
Date : 15 September 2016
Page : 1 of 1

Test Report

Client/ Customer : **Integrated Envirotech S/B**
Address : Lot 32-2, Jalan Setiawangsa 11A,
Taman Setiawangsa,
54200 Kuala Lumpur.
Sample Description : Sediment
Date Received : 25 August 2016
Sample Marking : **SW 8**

Results of Analysis

Parameters	Methods	Unit	Result
*Oil and Grease	APHA 5520 B	mg/kg	20.91
*Total Organic Carbon (TOC)	APHA 5310 B (Modified)	%	0.42
*Arsenic (As)	USEPA 3052	mg/kg	ND (<1)
*Barium (Ba)	USEPA 3050 B	mg/kg	2.13
*Cadmium (Cd)	USEPA 3050 B	mg/kg	ND(<1)
*Chromium (Cr)	USEPA 3050 B	mg/kg	4.70
*Copper (Cu)	USEPA 3050 B	mg/kg	3.49
*Iron (Fe)	USEPA 3050 B	mg/kg	5969
*Lead (Pb)	USEPA 3050 B	mg/kg	2293
*Nickel (Ni)	USEPA 3050 B	mg/kg	2.37
*Vanadium (V)	USEPA 3050 B	mg/kg	8.55
*Zinc (Zn)	USEPA 3050 B	mg/kg	19.82
*Mercury (Hg)	USEPA 3052	µg/kg	ND(<0.5)
*Cyanide	OSRMA P.456	mg/kg	ND(<0.1)
*Total PAHs	APHA 6440 B	µg/kg	ND(<10)
^*Redox	APHA 2580 B	mV	185

Note:
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2) USEPA – United States Environmental Protection Agency
3) ND – Not Detected
4) *Analyses were subcontracted to SAMM accredited laboratory
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