

NO: SAMM 1162

**LABORATORY LOCATION:**  
(PERMANENT LABORATORY)



**LABORATORY DEPARTMENT**  
**5E RESOURCES SDN. BHD.**  
**PLO 738, JALAN PLATINUM UTAMA, ZON 12B**  
**81700 PASIR GUDANG**  
**JOHOR**  
**MALAYSIA**

**FIELD OF TESTING:** **CHEMICAL**

This laboratory has demonstrated its technical competence to operate in accordance with MS ISO/IEC 17025:2017 (ISO/IEC 17025:2017).

This laboratory's fulfillment of the requirements of ISO/IEC 17025 means the laboratory meets both the technical competence requirements and management system requirements that are necessary for it to consistently deliver technically valid test results and calibrations. The management system requirements in ISO/IEC 17025 are written in language relevant to laboratory operations and operate generally in accordance with the principles of ISO 9001 (see Joint ISO-ILAC-IAF Communiqué dated April 2017).

**SCOPE OF TESTING: CHEMICAL**

<b>Materials/ Products Tested</b>	<b>Type of Test/ Properties Measured/ Range of Measurement</b>	<b>Standard Test Methods/ Equipment/Techniques</b>
<p><b>Environmental Monitoring</b></p> <p>Solid Waste</p>	<p>Heavy Metals:</p> <p>Arsenic, As Cadmium, Cd Copper, Cu Lead, Pb Nickel, Ni Zinc, Zn Chromium, Cr Iron, Fe Barium, Ba Silver, Ag Platinum, Pt Palladium, Pd Gold, Au Titanium, Ti Tin, Sn Vanadium, Vn Beryllium, Be Aluminium, Al Selenium, Se Tellurium, Te Thallium, Tl Calcium, Ca Cobalt, Co</p>	<p>USEPA 3050 B USEPA 6010 D</p>

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**SCOPE OF TESTING: CHEMICAL**

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Environmental Monitoring  Solid Waste	Water Content	In-House Test Method, 5E-A-LBTM-P31, based on ASTM 4442-92
	pH Value	USEPA 9045 D
	Calorific Value	ASTM D5865-19
Liquid Waste	Heavy Metals:  Arsenic, As Cadmium, Cd Copper, Cu Lead, Pb Nickel, Ni Zinc, Zn Chromium, Cr Iron, Fe Barium, Ba Silver, Ag Platinum, Pt Palladium, Pd Gold, Au Calcium, Ca Cobalt, Co Tin, Sn	USEPA 3010 A USEPA 6010 D
	Water Content  pH Value  Calorific Value  Specific Gravity	USEPA 9000  USEPA 9040 C  ASTM D 5865-19  ASTM D 891-18

Notes:

USEPA: Standard Method of United States Environmental Protection Agency (USEPA).

ASTM: American Society for Testing and Materials (ASTM).

**Signatories:**

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|----|--|-----------------------------------|
| 1. | <b>Mr. Ang Khoon Poh</b>               | <b>IKM No.: M/135784/9332/22</b>  |
| 2. | <b>Ms. Nor Fatimah Binti Abd Kidal</b> | <b>IKM No.: M/6562/7805/17/23</b> |