



AIRWASTEWATER MANAGEMENT SDN BHD (200701021637)

("AIR, WASTE & WATER", DON'T WASTE THEM!)

NO. 154, JALAN S2 B5, SEREMBAN 2, 70300 SEREMBAN, NEGERI SEMBILAN DK, MALAYSIA.

TEL: +606-6013126; FAX: +606-6017127.

E-MAIL: airwastewater@awwam.com; Website: <http://www.awwam.com>



A) CONSULTANCY SERVICES FOR SCHEDULED WASTE MANAGEMENT

1. Identification, Characterization & Classification of Wastes or Scheduled Waste

No.	Parameter/Description
1	<p>Consultancy work & service for identification, characterization & classification of wastes or scheduled waste.</p> <p>a) To conduct identification of sources, origins, raw materials, processes or activities through physical and/or chemical examinations of waste sample.</p> <p>b) To conduct characterisation of waste sample through observations, physical and/or chemical testing and analysis.</p> <p>c) To conduct assessment and evaluation of results interpretation of data and conclusion of the findings.</p> <p>d) To prepare the report of assessment and evaluation of the waste sample and recommendations.</p>

2. Provision of CePSWaM Consultant for Consultancy Works and Its Related Services

No.	Parameter/Description
1	<p>Provision of CePSWaM consultant for consultancy works and its related services for compliances with scheduled waste management (SWM) legal requirements:</p> <p>a) To provide assistance, support and advisory roles and services in the management of scheduled waste & its related works for compliances with legal requirements.</p> <p>b) To conduct site inspection or audit for SWM compliances.</p> <p>c) To provide report of SWM compliances through site inspection or audit of SWM elements.</p>

3. Preparation of Scheduled Waste Information (Waste Card)

No.	Parameter/Description
1	<p>Preparation of scheduled waste information (waste card) in accordance with Seventh Schedule of Regulation 13 (1) of the Environment Quality (Schedule Waste) Regulations 2005.</p> <p>a) To conduct assessment and evaluation of sources, origins, raw materials, processes and activities of the waste sample.</p> <p>b) To review SDS of raw materials and to conduct the physical and/or chemical examination and testing of the waste sample.</p> <p>c) To prepare information of the Seventh Schedule in accordance with the Regulation 13 (1).</p>

B) CONSULTANCY SERVICE CONSULTANCY SERVICES FOR ENVIRONMENTAL MONITORING

1. Environmental Monitoring Program

No.	Parameter/Description
1	Boundary Noise Monitoring
2	<p>Ambient Air Monitoring</p> <ul style="list-style-type: none"> • TSP • PM10 • PM2.5 • NO2, SO2, CO, Ozone, Lead
3	Stack Emission Quality Monitoring
4	<p>Water Quality Monitoring</p> <ul style="list-style-type: none"> • Effluent Water (Full 31 Parameters for Standard A or B) • Sewage (Temp, pH, BOD5, COD, NH3, P, O&G, SS, & Nitrate Nitrogen) • POME (Temp, pH, BOD3, COD, NH3, TS, SS, O&G, TN) • River (Surface Water) • Groundwater





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C) INDIVIDUAL PARAMETER

C1. Laboratory Testing for Solid/Sludge Samples

No.	Parameter/Description	Method	Unit
1	Calorific Value	ASTM D 240 - 14	MJ/kg
2	Cyanide	In House Method (based on APHA-CN C& E)	mg/kg
3	Fixed and Volatile Solids at 550°C	APHA 2540 G	%
4	Flash Point	ASTM D 93 A	°C
5	Moisture Content at 105°C	In House Test Method (based on APHA 2540 G)	%
6	Oil and Grease	In House Method (based on APHA 5520 D)	mg/kg
7	Particle Size (um)	In House Test Method (Sieving Technique)	%
8	Phosphorus*	In House Test Method (based on APHA 4500 P - C)	mg/kg
9	pH Slurry	US EPA 9045 D	-
10	Reactivity	In House Test Method	-
11	Total Chlorine	In House Test Method (based on ASTM D 129)	mg/kg
12	Total Hydrocarbon	USEPA 3630 C/APHA 5520 F	%
13	Total Organic Carbon*	In House Test Method (based on APHA 5310 B)	%
14	Total Solids at 105°C	APHA 2540 G	%
15	Total Sulfur	ASTM D 129	%
16	Water Soluble Chloride*	In House Test Method (based on ASTM D 129)	mg/kg
17	Digestion for Total Metals	US EPA 3051 A	-
	• Aluminium	US EPA 6010 D	mg/kg
	• Antimony	US EPA 6010 D	mg/kg
	• Arsenic	US EPA 6010 D	mg/kg
	• Aurum	US EPA 6010 B	mg/kg
	• Barium	US EPA 6010 D	mg/kg
	• Beryllium	US EPA 6010 D	mg/kg
	• Boron	US EPA 6010 D	mg/kg
	• Cadmium	US EPA 6010 D	mg/kg
	• Calcium	US EPA 6010 B	mg/kg
	• Chromium, Total	US EPA 6010 D	mg/kg
	• Cobalt	US EPA 6010 D	mg/kg
	• Copper	US EPA 6010 D	mg/kg
	• Iron	US EPA 6010 D	mg/kg
	• Lead	US EPA 6010 D	mg/kg
	• Lithium	US EPA 6010 D	mg/kg
	• Magnesium	US EPA 6010 D	mg/kg
	• Manganese	US EPA 6010 D	mg/kg
	• Mercury	US EPA 7471 B	mg/kg
	• Molybdenum	US EPA 6010 D	mg/kg
	• Nickel	US EPA 6010 D	mg/kg
	• Palladium	US EPA 6010 B	mg/kg
	• Platinum	US EPA 6010 B	mg/kg
	• Potassium	US EPA 6010 D	mg/kg
	• Selenium	US EPA 6010 D	mg/kg
	• Silicon	US EPA 6010 B	mg/kg
	• Silver	US EPA 6010 D	mg/kg
	• Sodium	US EPA 6010 D	mg/kg
	• Tellurium*	US EPA 6010 B	mg/kg

AIRWASTEWATER MANAGEMENT SDN BHD'S LABORATORY
AWWAM ENVIRONMENTAL LABORATORY SERVICES (AELS)

NO. 176, JALAN S2 C9, SEKSYEN C, GREEN TECHNOLOGY PARK SEREMBAN 2, 70300 SEREMBAN, NEGERI SEMBILAN DK, MALAYSIA.

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C1. Laboratory Testing for Solid/Sludge Samples

No.	Parameter/Description	Method	Unit
	• Thallium	US EPA 6010 D	mg/kg
	• Tin	US EPA 6010 D	mg/kg
	• Titanium	US EPA 6010 D	mg/kg
	• Vanadium	US EPA 6010 D	mg/kg
	• Zinc	US EPA 6010 D	mg/kg
18	TCLP Extraction	US EPA 1311	-
19	Nitric Acid Digestion (For Metals on TCLP Extract)	APHA 3030 K	-
	• Leachable Aluminium	US EPA 6010 D	mg/l
	• Leachable Arsenic	US EPA 6010 D	mg/l
	• Leachable Barium	US EPA 6010 D	mg/l
	• Leachable Boron	US EPA 6010 D	mg/l
	• Leachable Cadmium	US EPA 6010 D	mg/l
	• Leachable Calcium*	US EPA 6010 B	mg/l
	• Leachable Chromium, Total	US EPA 6010 D	mg/l
	• Leachable Cobalt	US EPA 6010 D	mg/l
	• Leachable Copper	US EPA 6010 D	mg/l
	• Leachable Iron	US EPA 6010 D	mg/l
	• Leachable Lead	US EPA 6010 D	mg/l
	• Leachable Magnesium*	US EPA 6010 D	mg/l
	• Leachable Manganese	US EPA 6010 D	mg/l
	• Leachable Mercury	US EPA 7471 B	mg/l
	• Leachable Nickel	US EPA 6010 D	mg/l
	• Leachable Selenium	US EPA 6010 D	mg/l
	• Leachable Silicon*	USEPA 6010B	mg/l
	• Leachable Silver	US EPA 6010 D	mg/l
	• Leachable Tin	US EPA 6010 D	mg/l
	• Leachable Zinc	US EPA 6010 D	mg/l

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C2. Laboratory Testing for Liquid Waste Samples

No.	Parameter/Description	Method	Unit
1	Boiling Point	In House Test Method	°C
2	Bromine	In House Method (based on APHA 4500-Br ⁻)	mg/kg
3	Calorific Value	ASTM D 240 - 14	MJ/kg
4	Fixed and Volatile Solids at 550°C	APHA 2540 G	%
5	Flash Point	ASTM D 93 A	°C
6	Fluorine	In House Method (based on APHA 4500-F)	mg/kg
7	Kinematic Viscosity*	ASTM D 2196 Method A	cSt
8	Oil and Grease	In House Method (based on APHA 5520 B)	mg/kg
9	Phosphorus*	USEPA 6010B	mg/kg
10	pH	USEPA 9045D	-
11	Reactivity	In House Test Method (Quantitative Test for Sulphide and Cyanide)	-
12	Sediment	In House Test Method (based on ASTM D 473)	%
13	Specific Gravity	ASTM D 1217	-
14	Total Halogenated (as Chlorine)	In House Test Method (based on ASTM D 129)	mg/kg
15	Total Hydrocarbon	USEPA 3630 C/APHA 5520 F	%
16	Total Organic Carbon*	In House Method (based on APHA 5310B)	%
17	Total Sulfur	ASTM D 129	%
18	Water Content*	ASTM D 4928	%
19	Chloride	In House Test Method (based on ASTM D 129)	mg/l
20	Digestion of Metals (For metals in liquid waste)	US EPA 3051 A	-
21	Metal Determination		
	• Aluminium	USEPA 6010D	mg/kg
	• Arsenic	USEPA 6010D	mg/kg
	• Barium	USEPA 6010D	mg/kg
	• Boron	USEPA 6010D	mg/kg
	• Cadmium	USEPA 6010D	mg/kg
	• Calcium*	USEPA 6010D	mg/kg
	• Chromium, Total	USEPA 6010D	mg/kg
	• Cobalt	USEPA 6010D	mg/kg
	• Copper	USEPA 6010D	mg/kg
	• Iron	USEPA 6010D	mg/kg
	• Lead	USEPA 6010D	mg/kg
	• Magnesium*	USEPA 6010D	mg/kg
	• Manganese	USEPA 6010D	mg/kg
	• Mercury	USEPA 6010D	mg/kg
	• Nickel	USEPA 6010D	mg/kg
	• Selenium	USEPA 6010D	mg/kg
	• Silicon*	USEPA 6010D	mg/kg
	• Silver	USEPA 6010D	mg/kg
	• Tin	USEPA 6010D	mg/kg
	• Zinc	USEPA 6010D	mg/kg
	• Aurum*	USEPA 6010D	mg/kg
	• Platinum*	USEPA 6010D	mg/kg
	• Palladium*	USEPA 6010D	mg/kg
	• Tellurium*	USEPA 6010D	mg/kg

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C3. Laboratory Testing for Water Sample (River/Groundwater/Surfacewater/Sewage/Wastewater)

No.	Parameter/Description	Method	Unit
1	Ammoniacal Nitrogen	APHA 4500 NH3 - B & C	mg/l
2	Biochemical Oxygen Demand	APHA 5210 B	mg/l
3	Chemical Oxygen Demand	APHA 5220 C	mg/l
4	Chromium, Hexavalent	APHA 3500 Cr - B	mg/l
5	Chromium, Trivalent	In House Test Method (Calculation based on APHA 3500 Cr-B)	mg/l
6	Color	APHA 2120 F	mg/l
7	Cyanide	APHA 4500 CN - E	mg/l
8	Fixed and Volatile Solids at 550°C	APHA 2540 G	%
9	Fluoride	APHA 4500 F - B & D	mg/l
10	Formaldehyde	In House Method 002 (based on Spectroquant)	mg/l
11	Free Chlorine	APHA 4500 Cl - G	mg/l
12	Nitrite	APHA 4500-NO2 B	mg/l
13	Nitrate	APHA 4500-NO3- H	mg/l
14	Oil and Grease	APHA 5520 B	mg/l
15	Phenol	APHA 5530 B & D	mg/l
16	Phosphorus	APHA 4500 P - B & C	mg/l
17	pH	APHA 4500 H+ B	-
18	Sulphide	APHA 4500 S2- - B & F	mg/l
19	Temperature	APHA 2550 B	°C
20	Total Hydrocarbon	APHA 5520 F	%
21	Total Suspended Solids	APHA 2540 D	%
22	Digestion of Metals (For Metals in Water)	APHA 3030K	-
23	Metal Determination		
	• Aluminium	APHA 3120 B	mg/l
	• Arsenic	APHA 3120 B	mg/l
	• Barium	APHA 3120 B	mg/l
	• Boron	APHA 3120 B	mg/l
	• Cadmium	APHA 3120 B	mg/l
	• Calcium	APHA 3120 B	mg/l
	• Chromium, Total	APHA 3120 B	mg/l
	• Cobalt	APHA 3120 B	mg/l
	• Copper	APHA 3120 B	mg/l
	• Iron	APHA 3120 B	mg/l
	• Lead	APHA 3120 B	mg/l
	• Magnesium	APHA 3120 B	mg/l
	• Manganese	APHA 3120 B	mg/l
	• Mercury	APHA 3120 B	mg/l
	• Nickel	APHA 3120 B	mg/l
	• Selenium	APHA 3120 B	mg/l
	• Silicon	APHA 3120 B	mg/l
	• Silver	APHA 3120 B	mg/l
	• Tin	APHA 3120 B	mg/l

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**C3. Laboratory Testing for Water Sample (River/Groundwater/Surfacewater/Sewage/Wastewater)**

No.	Parameter/Description	Method	Unit
	• Zinc	APHA 3120 B	mg/l
	• Aurum*	APHA 3120 B	mg/l
	• Platinum*	APHA 3120 B	mg/l
	• Palladium*	APHA 3120 B	mg/l
	• Tellurium*	APHA 3120 B	mg/l
24	Bromide	APHA 3500-Br	mg/l
25	Fluoride	APHA 4500-F	mg/l
26	Iodide	APHA 4500 I ₂ B	mg/l
27	Chloride	APHA 4500-Cl	mg/l

C4. Waste Acceptance Criteria (WaC)

No.	Waste Code	Form of Waste
1	SW 101 - SW 501	Solid
		Liquid

