



Republic of the Philippines  
Department of Environment and Natural Resources  
**ENVIRONMENTAL MANAGEMENT BUREAU**  
Regional Office No. VIII  
DENR 8 Compound, Brgy. 2, Jones Extension, Tacloban City  
Telefax: (053) 832-1088  
Email: [r8support@emb.gov.ph](mailto:r8support@emb.gov.ph) [emb8@yahoo.com](mailto:emb8@yahoo.com)  
Website: [r8.emb.gov.ph](http://r8.emb.gov.ph)



31 January 2022

**SHIELLA MARIE SANTOS**

Tenements Manager  
**TECHIRON RESOURCES, INC.**  
Cagusuan, Homonhon Island, Guiuan,  
Eastern Samar

**ENVIRONMENTAL MANAGEMENT BUREAU :**  
**RELEASED**  
**DATE:** 02/02/2022  
**TIME:** 2:33pm

Subject: **Approval of Source Emission Test (SET) Plan**

Dear Ma'am:

This refers to your letter received by this Office on 26 January 2022 requesting the approval of the SET plan for your **one (1) unit 910.4 KW Caterpillar Brand Diesel Engine Generator Set** to be tested by **SANDOVAL ENVIRONMENTAL ENGINEERING SERVICES (SEES)**. Please be informed that same is approved with a directive to comply with the facilities requirements and sampling methodology as stated in the test plan and strictly observe the fuel used as indicated in its "Permit to Operate" APSI's. Change of fuel during testing is not allowed; results will be invalid.

Further, your Pollution Control Officer shall observe/check the conduct of the test and ensure that the DENR Accredited Third-Party Sampler strictly follows the following sampling requirements throughout the test:

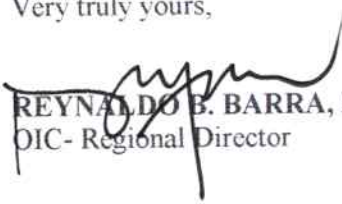
- Equipment/apparatus available e.g., pumps, flasks, stop-cocks and impingers are clean, operational, functional and properly maintained;
- Chemicals used are not expired;
- Time of sampling must be strictly observed;
- No laptop or similar gadgets should be used during the sampling period; and
- The accredited QA/QC and the Team Leader, as the authorized personnel, should be at the facility during the conduct of actual sampling.

This Office will send technical personnel to witness the conduct of the test and observe the conditions of the facilities to be tested scheduled on **08-09 February 2022**.

Please be reminded that the SET Report shall be submitted within thirty (30) days from date of testing to include the operating condition of the source at the time of sampling (e.g. fuel consumed, temp. and mode of operation).

Be guided accordingly.

Very truly yours,

  
**REYNALDO B. BARRA, PME.**  
OIC- Regional Director



## EVALUATION OF SOURCE SPECIFIC TEST PLAN

Date Received: January 26, 2022

Date Evaluated: January 31, 2022

### I. FACILITY INFORMATION

Name of Industry: **TECHIRON RESOURCES INC.**

Industry Category:

Plant Address: **Cagusuan, Guiuan, Eastern Samar**

Contact Person: **Ms. Alma A. Gonzales**

Position: **Pollution Control Officer**

Contact Number: **09076722834**

Email Address: [info@techiron.ph](mailto:info@techiron.ph)

Permit to Operate Reference No: **PTO-OL-R08-2021-03253-R**

Issued On: **24 May 2021** Valid Until: **24 May 2026**

### II. PRODUCTION INFORMATION and REQUIREMENT

- The one (1) unit 910.4 KW Caterpillar Brand Diesel Engine Generator Set should operate at 90% or greater of permitted capacity during the time of testing.

### III. AIR POLLUTION SOURCE INFORMATION

1. **APSI: One (1) unit Caterpillar Brand Diesel Engine Generator Set**

2. **Rated Capacity: 910.4 KW**

Type of Fuel Used: **Diesel**

Fuel Consumption:

No. of Stack: 1

Stack Diameter:

Stack Height:

Ave. Annual Operating Hours:

Year Installed:

### IV. TEST METHODOLOGY

Particulars	Test Date	Parameter	Test Method	Test Duration	Notes
	February 08-09, 2022	Cyclonic Flow	USEPA Method 1	-	Cyclonic flow should be less than 20 degrees angle
		Volumetric Flow rate ( VFR)	USEPA Method 1-4	Three (3) - one hour run per exhaust	Performed concurrent with PM test
One (1) unit 910.4 KW Caterpillar Brand Diesel Engine Generator Set		Carbon Dioxide (CO2)	USEPA Method 3 by Fyrite	Three (3)-one hour run per exhaust	Integrated Tedlar bag Sample during Method 5/8 test
		Oxygen (O2)	USEPA Method 3 by Fyrite	Three (3)-one hour run per exhaust	Integrated Tedlar bag Sample during Method 5/8 test
		Particulate Matter (PM)	USEPA method 5	Three (3)-one hour run per exhaust	Simultaneous with Modified Method 8

		Nitrogen Oxides (NO <sub>x</sub> )	USEPA Method 7	Three (3) per one hour run per exhaust	Three grab sample flasks collected per run
		Sulfur Oxides ( Sox as SO <sub>2</sub> )	USEPA Method 8 Modified	Three (3)-one hour run per exhaust	Simultaneous with method 5
		Carbon Monoxide (CO)	USEPA Method 10	Three (3)-one hour run per exhaust	Integrated Tedlar Bag Sample

#### V. THIRD PARTY INFORMATION

Name of Accredited Third Party: **SANDOVAL ENVIRONMENTAL ENGINEERING SERVICES (SEES)**

Address: **20 g De Jesus Street, Bagong Barrio, Caloocan City**

Name of QA/QC: **MARIANO R. CACCAM, JR.**

Name of Team Leader: **MARIANNE JOSY G. DENTE**

SAT Accreditation No.: **2021-123**

Issued On: **03 August 2021**

Valid Until: **03 August 2024**


Name of Members: **Kervin C. Astorga Elmer M. Samaupan**

**Antonio S. Luna III**

#### VI. REMARKS/RECOMMENDATIONS

1. Recommended for the approval of test plan with a condition of operating the one (1) unit 910.4 Caterpillar Brand Diesel Engine Generator Set at 90% or greater of permitted capacity during the time of testing.
2. Emission test report shall be submitted to this office within thirty (30) days after the conduct of the test.

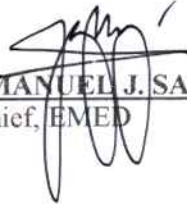
Submitted by:

  
**JANET P. POLEA**  
Engr. IV

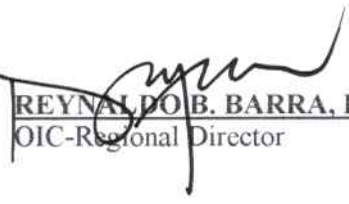
Recommending Approval:

  
**Engr. CARLOS A. CAYANONG**  
Chief, WAQMS

Approved by:

  
**FOR. MANUEL J. SACEDA, JR.**  
OIC-Chief, EMED

Noted by:

  
**REYNALDO B. BARRA, PME.**  
OIC-Regional Director