



## **FREEMPORT-MCMORAN INC.**

# **2016 GREENHOUSE GAS VERIFICATION STATEMENT**

## **Introduction**

Trinity Consultants, Inc. (“Trinity”) was contracted by Freeport-McMoRan Inc. (“Freeport”) to verify its greenhouse gas (GHG) emissions inventory for its global operations for the 2016 (calendar year) time period. Freeport is reporting GHG emissions to the CDP 2016 Climate Change Information Request and in its 2016 Working Toward Sustainable Development (WTSD) report. Pursuant to CDP provisions, Freeport has the option to have this annual GHG emissions inventory independently verified by an accredited Verification Body (“VB”). The GHG inventory compiled by Freeport and the GHG inventory verification performed by Trinity is a component of Freeport’s long-term sustainability reporting program.

Freeport has sole responsibility for preparation of the data collection, analysis, compilation, and external report. Trinity’s verification and assurance engagement is based on the understanding that the data and information provided by Freeport are true and complete. Trinity’s responsibility in performing the verification and assurance work is to the management of Freeport only and are solely for Freeport’s benefit in accordance with the terms of the contract. Our assurance statement, however, represents Trinity’s independent opinion and is intended to inform all stakeholders including Freeport. Trinity disclaims any liability or responsibility on Trinity’s work to CDP or to any other party who may have access to this statement.

## **Scope of Verification and Assurance**

The scope of work agreed with Freeport includes the following:

- Organizational boundaries for the GHG inventory are all global sites operating under Freeport’s operational control, except for its remaining oil and gas assets
- Verification was carried out to a reasonable level of assurance;
- Verification was conducted using the ISO- 14064-3 Standard;
- The reporting of the GHG emissions were conducted using World Business Council for Sustainable Development (WBCSD) / World Resources Institute (WRI) Greenhouse Gas Protocol;
- GHG emissions were verified for the period of January 1st to December 31st, 2016;
- Emissions data verified includes Scope 1, Scope 2 and Scope 3 (specifically, (1) Purchased goods & services, (2) Business air travel, (3) Downstream transportation & distribution, and (4) Processing of sold products); and
- Verification activities were conducted from April 2017 to June 2017.

## **Verification Methodology**

Trinity was contracted by Freeport to provide an independent and objective review of the GHG emissions inventory for its worldwide operations (except for its remaining oil and gas assets) for Scope 1, 2 and 3 emissions for calendar year 2016. The emissions data report is reviewed against the criteria and standards stated below:

- World Resources Institute (WRI) / World Business Council for Sustainable Development (WBCSD) Greenhouse Gas Protocol - A Corporate Accounting and Reporting Standard
- ISO14064-3:2006 – Greenhouse Gases Part 3: Specification with Guidance for the Validation and Verification of Greenhouse Gas assertions.

Trinity applied a risk-based approach throughout the assurance engagement, concentrating on the areas that Trinity believes are at risk of materiality. The following tasks and methodologies were applied during the verification of Freeport’s GHG data, inventory, supporting documents, and management processes:

- Identify and review conformance with the accuracy level declared in the CDP information request response and the accuracy requirements using ISO 14064-3:2006 verification standards as appropriate;
- Review and verify emissions estimates with the applicable GHG emissions calculations/reporting protocols and principles such as WRI/WBCSD Greenhouse Gas Protocol;
- Review and verify the enterprise-wide GHG emissions inventory data for completeness and accuracy;
- Conduct site-visits to 1) Sierrita Mine, Arizona, 2) Bagdad Mine, Arizona, 3) Fort Madison, Iowa, operations;
- Evaluate facility boundaries and operations;
- Review a selection of data provided from a sampling of Freeport facilities (Bagdad Mine, Fort Madison, and Sierrita Mine) which is consistent with the selected level of assurance;
- Review Freeport's data management systems for emissions data, transactions, bookkeeping records, reports, and compliance documents;
- Evaluate and check materiality of any misstatement in actual data;
- Review, identify, and list all deficiencies and conformance gaps; and
- Provide Freeport with an official verification statement with a verification summary that includes the findings of the verification process and any improvements and corrective actions taken.

## Verification Provider and Accreditation

Trinity Consultants Inc.

- California Air Resources Board (ARB)-Accredited GHG Verification Body (#H-16-026)
- ARB-Accredited GHG Offset Verification Body (#H2-14-018)

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- ARB-Accredited GHG Verifier of Emissions Data Reports for Mandatory Reporting-Lead Verifier, Transaction Specialist, Process Emission Specialist, and Oil and Gas Specialist (#H-15-077)
- ARB-Accredited GHG Verifiers of Offset Project Data Reports – Lead Verifier, Livestock Specialist, and ODS Specialist (#H2-14-181)

## Conclusions

Freeport's GHG assertions by Scope 1, Scope 2, and Scope 3 categories for calendar year 2016 are as follows:

- Scope 1 emissions of 5,418,730 metric tonnes CO<sub>2e</sub>
- Scope 2 emissions of 4,923,748 metric tonnes CO<sub>2e</sub>
- Scope 3 emissions of 548,376 metric tonnes CO<sub>2e</sub>

Based on verification activities performed, Trinity attests with a reasonable assurance that the submitted GHG assertions to CDP and reporting in the 2016 WTSD are free of material misstatements for each category of emissions including Scope 1, Scope 2, and Scope 3 emissions (i.e., the estimated percent error/discrepancy is less than 5% of the verified total for each Scope emissions). Trinity's conclusions are based on the understanding that the data and information provided by Freeport to Trinity are true and complete.

## Independence

Trinity was not involved in the preparation of any part of Freeport's data or reporting. This is Trinity's third year of providing GHG verification service for Freeport.

TRINITY CONSULTANTS



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