

**Assurance Statement related to
Greenhouse Gas Emissions Inventory for Calendar Year 2015
prepared for Republic Services**

Terms of Engagement

This Assurance Statement has been prepared for Republic Services.

Lloyd's Register Quality Assurance, Inc. (LRQA) was commissioned by Republic Services (Republic) to assure its GHG Emissions Inventory for the calendar year 2015, (hereafter referred to as "the Inventory").

The Inventory relates to direct (Scope 1) GHG emissions, energy indirect (Scope 2) GHG emissions and other indirect (Scope 3) GHG emissions. The other indirect GHG emissions include Business Travel and Haulage contract services. All emission scopes include only Carbon Dioxide (CO₂), Methane (CH₄), and Nitrous Oxide (N₂O).

Management Responsibility

Republic's management was responsible for preparing the Inventory and for maintaining effective internal controls over the data and information disclosed. LRQA's responsibility was to carry out an assurance engagement on the Inventory in accordance with our contract with Republic.

Ultimately, the Inventory has been approved by, and remains the responsibility of Republic.

LRQA's Approach

Our verification has been conducted in accordance with ISO 14064-3:2006 *Specification with guidance for validation and verification of greenhouse gas assertions* to provide limited assurance that GHG data as presented in the Inventory have been prepared in conformance with the World Resources Institute/World Business Council for Sustainable Development (WRI/WBCSD) GHG Protocol: *A Corporate Accounting and Reporting Standard* and Republic's Services' Greenhouse Gas Inventory Management Plan.

To form our conclusions the assurance engagement was undertaken as a sampling exercise and covered the following activities:

- Reviewed processes related to the control of GHG emissions data and records;
- Interviewed relevant staff of the organization responsible for managing GHG emissions data and records; and
- Verified historical GHG emissions data and records at an aggregated level for the calendar year 2015.

Level of Assurance & Materiality

The opinion expressed in this Assurance Statement has been formed on the basis of a limited level of assurance and at a materiality of the professional judgment of the Verifier.

LRQA's Opinion

Based on LRQA's approach nothing has come to our attention that would cause us to believe that the total Scope 1, Scope 2, and Scope 3 GHG emissions disclosed in the Inventory, as summarized in Table 1 below, are not materially correct and that the Inventory has not been prepared in accordance with the WRI/WBCSD GHG Protocol and Republic's Services' Greenhouse Gas Inventory Management Plan, except for the following qualification:

- LRQA is unable to provide assurance of Republic's total Scope 1, Scope 2 and Scope 3 GHG emissions for CY2015 because we were only contracted to verify emissions of CO₂, CH₄, and N₂O.

LRQA's Recommendation

In the next review and revision of the Inventory Management Plan, Republic should consider adding a comment to emphasize that it is based on the WRI/WBCSD GHG Protocol, and to justify the basis for CO₂e emission factors as used.

Signed

Dated: June 6, 2016



Ivor John

LRQA Lead Verifier
On behalf of Lloyd's Register North America, Inc.,
represented by Lloyd's Register Quality Assurance, Inc.,
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LRQA reference number: RMA10203A

Table 1. Summary of Republic, GHG Inventory 2015

Scope	Tonnes CO ₂ e
Scope 1 Emissions	14,946,324
Scope 1 Biogenic Emissions	6,457,534
Scope 2 Emissions (Electricity, Location based)	229,736
Scope 2 Emissions (Electricity (Market based)	241,629
Scope 2 Emissions (Other – Heat in leased buildings)	53,960
Scope 3 Emissions (Business Travel and Haulage only)	251,929

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Due to inherent limitations in any internal control, it is possible that fraud, error, or non-compliance with laws and regulations may occur and not be detected. Further, the verification was not designed to detect all weakness or errors in internal controls so far as they relate to the requirements set out above as the verification has not been performed continuously throughout the period and the verification carried out on the relevant internal controls were on a test basis. Any projection of the evaluation of control to future periods is subject to the risk that the processes may become inadequate because of changes in conditions, or that the degree of compliance with them may deteriorate.

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