

LANDFILL GAS PROJECT VERIFICATION REPORT

Verification under the Climate Action Reserve (CAR)

*South Kent Landfill Gas to Energy Project
CAR#443*

Reporting Period:

1 January 2016 to 31 December 2016

Prepared for:

Kent County Department of Public Works

6 March 2017



CLIMATE ACTION RESERVE

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Summary

This report presents the findings of the verification assessment of the South Kent Landfill Gas to Energy Project (“the Project”) developed by Kent County Department of Public Works (“the Project Proponent” or “the County”). This assessment covers the South Kent Landfill Gas to Energy Project’s greenhouse gas emission reductions reported to the Climate Action Reserve (the Reserve or CAR) for the verification period 1 January 2016 to 31 December 2016.

The evaluation was undertaken using the Climate Action Reserve Landfill Project Reporting Protocol, version 2.0 as well as the verification methodology developed by SCS for carbon offset projects submitted to the Reserve.

In the course of the verification assessment, the SCS verification team developed findings which may include New Information Requests (NIRs), Non-Conformity Reports (NCRs) and/or Opportunities for Improvement (OFIs). The findings have been adequately responded to, resulting in their closure.

On the basis of the information provided and the analyses completed, SCS was able to reach a decision on the emissions reduction reported by the Project Proponent to the Climate Action Reserve. SCS verified the adequacy of the information provided in the Project Monitoring Plan, confirming that this document meets the requirements of the Climate Action Reserve standards. Further, SCS was able to reach a positive opinion on the Project claimed emission reductions presented in the Project Documentation and on the Reserve website by Kent County Department of Public Works. Thus, SCS has verified 93,117 metric tonnes of CO₂e reductions and removals from the South Kent Landfill Gas to Energy Project for the reporting period of 1 January 2016 to 31 December 2016.

Introduction

SCS Global Services (SCS) is a global leader in third-party certification, auditing, testing services, and standards. Established as an independent third-party certification firm in 1984, our goal is to recognize the highest levels of performance in environmental protection and social responsibility in the private and public sectors, and to stimulate continuous improvement in sustainable development. In 2012, Scientific Certification Systems, Inc. began doing business as SCS Global Services, communicating its global position with offices and representatives in over 20 countries. SCS is currently accredited to ISO 14065 for GHG Validation and Verification by the American National Standards Institute (ANSI) and offers carbon offset validation and verification under the Verified Carbon Standard (VCS) and the American Carbon Registry (ACR). SCS offers carbon offset verification under the Climate Action Reserve (CAR). And lastly, SCS also offers verification services for the Climate, Community and Biodiversity (CCB) standards.

SCS was commissioned by Kent County Department of Public Works to undertake the annual project verification of the South Kent Landfill Gas to Energy Project. The project consists of the collection of landfill gas (LFG) from the So. Kent County Landfill, located in Byron Center, Michigan and subsequent destruction through combustion in two onsite generator sets. This report covers the verification period of 1 January 2016 to 31 December 2016 as a project deliverable into the Climate Action Reserve.

Verification Details

Verification Objectives

The objective of the verification is to:

- Evaluate conformance with the Landfill project as defined in the criteria stated below.
- Determine with a reasonable level of assurance whether the Project has resulted in the GHG emissions reductions and/or removals as stated in the project documents.
- Evaluate the project planning information and documentation including the determination of project eligibility, project design, baseline and project emissions determination, management systems supporting the project, and methodologies employed for the calculation of GHG emission reductions.

Verification Scope and Criteria

The scope of the verification is defined as an independent and objective review of the project description document, the project's baseline study, monitoring plan and emissions reductions calculations. The information in these documents is reviewed against the following criteria:

- CAR Landfill Project Reporting Protocol, version 2.0 (November 2008)
- Errata and Clarification Version June 18, 2015
- CAR Landfill Project Verification Protocol 2.0 (November, 2008)

- CAR Verification Program Manual, February 8, 2017
- CAR Program Manual, September 1, 2015
- All Verification activities carried out by SCS followed the requirements of ISO 14064-3 (Specification with guidance for the validation and verification of GHG assertions)

Level of Assurance

The level of assurance applied to this verification assessment is Reasonable Assurance as required by the Climate Action Reserve.

Treatment of Materiality

In consideration of the required level of assurance, the needs of the intended user and the requirements of the Climate Action Reserve Program, SCS applied a materiality threshold of 3% because total annual emission reductions are greater than 25,000 tCO₂e but less than 100,000 tCO₂e. The data reviewed was considered to meet the principles of accuracy, completeness, and transparency and is free of material error or omission.

Verification Process

Verification Summary

The verification process consisted of the following:

1. **Project listed with the Climate Action Reserve:**
The South Kent Landfill Gas to Energy Project was listed on the Climate Action Reserve (CAR) website. Kent County Department of Public Works selected SCS as their verification body.
2. **Conflict of Interest Review.**
A Notification of Verification Activities/ Conflict of Interest (NOVA/COI) form was submitted to CAR. The COI assessment was conducted to identify any potential conflicts interests with the verification/project. No conflicts were identified and a determination of low potential for conflict of interest was received from the Climate Action Reserve prior to the commencement of verification activities in a determination letter dated 9 January 2017.
3. **Introductory Meeting:**
A kick-off meeting was conducted between the verification team and Kent County Department of Public Works on 24 January 2017. The purpose of the kick-off meeting was to review the timeline of audit; confirm verification criteria; determine any changes in the site, sources, GHG management systems or personnel, and to begin gathering information.
4. **Desk Review**

SCS received and reviewed the Project Design Document, CAR submittals, and supporting documentation to assess initial conformance with the data requirements of the CAR Landfill Project Reporting Protocol, version 2.0 (November 2008), version 2.0. A risk assessment was conducted to identify key factors that impact the reported emission reductions and removals. A Verification Plan was created to focus on the critical elements presenting potential risk for errors with the project.

5. Site Visit

A site visit was conducted by the lead verifier on 17 February 2017. The purpose of the site visit is to verify the project equipment, location and eligibility, to review and evaluate the project GHG management systems, data collection and handling, and emission reduction calculations and procedures in place, and to finalize the risk assessment and sampling plan. During the kick off call, the Project confirmed there were no changes to the GHG Management system, data collection and handling or procedures since the previous site visit.

6. Quantitative Review

An assessment of the emission reduction calculation inputs and procedures was performed to review the quantitative analyses undertaken by the Project Proponent to convert the raw inventory data into emission reduction estimates.

7. Findings

Throughout the verification, there is an iterative exchange between SCS and the Project Proponent to gather additional information for review and examination. This exchange includes Findings—New Information Requests (NIR), and Non-Conformity Reports (NCR)—that are issued by SCS to the Project Proponent. The Project Proponent must respond to NIRs and NCRs in order for SCS to render a verification opinion. At this time all Findings have been appropriately addressed by Kent County Department of Public Works and subsequently closed by SCS.

8. Draft Report and Statement

This step in the verification process includes a final review of the submitted data, completion of the Verification Report, and drafting of the Verification Statement. A draft Verification Report and Statement are completed based on the results of the verification assessment.

9. Technical Review

The draft report was presented to an SCS lead verifier, independent of the verification, who determined the Verification Statement to be justified given the evidence presented. The Verification Report and Verification Statement were then presented to Kent County Department of Public Works for review and comment.

10. Final Report and Statement

Once Kent County Department of Public Works approved these documents, SCS uploaded them to the Reserve website for administrative review by CAR. Given a positive review, CAR will register the emissions reductions for the landfill gas project and issue carbon tonnes for a reporting period of 1 January 2016 to 31 December 2016.

11. Exit meeting with Kent County Department of Public Works:

The exit meeting entails a review of the verification process, summary of the verification findings and to initiate scheduling for the next verification period if applicable.

Verification Team

The verification was undertaken by Tina Sentner, Lead Verifier. The Technical Review was performed by Blake Troxel, lead verifier of SCS.

CAR Landfill Project Requirements

SCS verified the South Kent Landfill Gas to Energy Project against the requirements of the Climate Action Reserve Landfill Project Reporting Protocol, version 2.0. The following sections detail the most essential aspects of the verification of the South Kent Landfill Gas to Energy Project.

Project Description

The South Kent Landfill is a municipal solid waste facility operated by the Kent County Department of Public Works. During the project reporting period covered by this report, landfill gas was collected and routed to two internal combustion engine electricity generator sets installed in the month of April 2009. Although a single open flare serves as a backup combustion device and was operated briefly throughout the reporting period, no emission reduction credits related to the flare are claimed for this reporting period. Methane emission reductions related to the operation of the generator sets were reviewed during this verification.

The landfill gas collection system consisted of 36 wells and five horizontal collectors. The project was initiated in July 2008 with 24 wells and two horizontal collectors. Three horizontal collectors were added in September 2009, eight additional wells were added in October 2011 and four wells added in 2014. The landfill does not re-circulate leachate back into the landfill and is not considered a Bioreactor as defined by U.S. EPA.

Project Eligibility

There are eligibility rules the Project must meet in order to register reductions with the Climate Action Reserve.

Location

The project is a U.S. based landfill located in the Byron Center, Michigan, USA and therefore meets this eligibility requirement.

Project Start Date

As stated in the Landfill Project Reporting Protocol, version 2.0, pre-existing projects must have a start date on or after 1 January 2001 and must be listed with the Reserve twelve months from the effective

date of the protocol (LFG Reporting Protocol Version 2.0, November 2008). The start date is defined as the date at which a qualifying destruction device first continuously destroys landfill gas.

SCS verified the validity of the project start date of 10 July 2008. The project was listed with the Climate Action Reserve on 1 May 2009. SCS reviewed various documents to support the evidence of construction of the landfill gas project such as the Title V permit, the engine installation permit, previous verification reports, and initial data logger reports. SCS concluded that these documents supported the project start date listed in the CAR online system, and the Project therefore meets the start date eligibility criteria of the Landfill Project Reporting Protocol, version 2.0.

Crediting Period

The crediting period for landfill projects is 10 years from the project start date. The crediting period for the South Kent Landfill Gas to Energy Project extends to 9 July 2018. SCS has concluded that the reporting period verified in this report is within the first crediting period of the Project.

Additionality

Project Proponents must indicate that reductions are above and beyond business as usual. In order to do so, the Project must pass a Performance Standard test and the Legal Requirement test.

Performance Standard

For the Performance Standard test, a project developer may meet eligibility under three possible performance threshold scenarios. SCS verified that the South Kent Landfill Gas to Energy Project was not previously collecting and destroying any landfill gas in a destruction device prior to the project start date by review of historical drawings and permits. In addition, SCS conducted interviews and observations at the landfill to confirm that no pre-existing destruction devices were constructed or required of the site. Therefore, SCS concludes the Project meets the performance standard threshold under option 1. *“If the landfill is not currently collecting and destroying any landfill gas, the project is considered additional”.*

Legal Requirements

For the Legal Requirements Test, Project Proponents must ensure that emission reductions achieved by the Project would not have occurred in the baseline case due to federal, state, or local regulations.

SCS confirmed and reviewed the legal review of the South Kent Landfill Gas to Energy Project conducted by the Project Proponent. SCS reviewed the Solid Waste Permit, and the Title V permit from the Michigan Department of Natural Resources and Environmental (MDNRE). SCS found no evidence of legal requirements to collect and destroy methane at the project landfills. The results of the legal review indicated the landfills were in compliance with Federal, State and Local regulations and that there are no new laws, statutes, regulations, court orders, environmental mitigation agreements, permitting conditions, or other legally binding mandates requiring the destruction of landfill gas. In addition, as the Landfill has a design capacity greater than 2.5 million metric tonnes, it is therefore subject to NSPS regulation requiring the facility to conduct Non-Methane Organic Compound (NMOC) emission rate testing. The latest NMOC test was conducted on September 19, 2016. The test resulted in an estimated NMOC emissions of 12.08 Mg/yr for 2016 for the landfill.

This is below the 50 Mg/yr threshold and therefore the landfill is not required to install a gas collection and conveyance system during the reporting period. The Tier 2 NMOC Emission Rate Report indicates the results of the Tier 2 landfill gas test may be considered valid for a total of five years before additional sampling is required. The report states the data used to calculate the NMOC emission rates is valid for the facility through December of 2021.

Lastly, SCS reviewed the Attestation of Voluntary Implementation, signed on 18 January 2017 by an eligible signatory to attest for the Project. Kent County Department of Public Works has affirmed that the Project was established and implemented voluntarily and continues to operate as such. Based on this evidence, SCS concludes the Project passes the legal requirements test.

Regulatory Compliance

SCS reviewed the Attestation of Regulatory Compliance submitted by the County dated 18 January 2017 affirming the Project's compliance status throughout the reporting period. During the site reconnaissance and desk review activities, SCS was able to confirm to a reasonable level of assurance that the Project was in compliance with local, state and Federal regulations and had no material regulatory non-conformance events. SCS reviewed the EPA's Enforcement & Compliance History Online (ECHO) website, the solid waste inspection reports from the MDNRE, and the semi-annual Title V Compliance Certification Forms for 2016. The ECHO report did state Clean Air Act violations during the report period; however these were a result of carryover violations related to 2012 reporting period year and have been addressed in previous verification reports. SCS confirmed with a compliance representative of MDRNE that the violations had been effectively closed and that no violations had been received by the landfill or the engine facility during this reporting period. There were no violations noted in the inspection reports as well as Title V certifications indicated that the landfill had been in continuous compliance with all applicable requirements of the permit. During the site visit, SCS interviewed the Landfill and engine facility personnel regarding regulatory compliance. The facility disclosed they received a compliance communication from MDEQ for the late submittal of a DMR report for the last quarter of 2015. SCS found no instances of material non-compliance for either the Landfill or the Energy facility. The results of the regulatory review indicated that the Project is in compliance with Federal, State and Local regulations.

Ownership

Kent County Department of Public Works is the owner of the landfill. Ownership was confirmed through review of various regulatory permits issued from MDNRE as well as review of the legal property descriptions. Though the landfill and gas collection wells are owned and operated by Kent County Department of Public Works, the gas collection plant and associated destruction devices are owned and operated by Granger Electric. SCS confirmed Kent County Department of Public Works retains full, legal, and beneficial title to the carbon offset credits being issued as a result of the collection and combustion of methane at the landfill gas-to-energy facility. SCS has confirmed the information in attestation of title documents by reviewing correspondence from Kent County Department of Public Works' legal counsel describing the relationship with the County of Kent and the beneficial rights held by the Kent County Department of Public Works; the Climate Action Reserve's previous acceptance of this evidence of title

(e-mail dated 6/17/2009); and contractual documentation between the Kent County Department of Public Works and Granger Electric (Landfill Gas and Collection System Lease, dated 6/26/2008). SCS confirmed from the project developer that no modifications or amendments to ownership rights within those agreements had been made since dates of execution. Therefore rights to the emission reductions remains in the ownership of the County. Lastly, SCS reviewed the Attestation of Title signed January 18, 2017 concerning ownership of landfill gas emission reduction credits for the reporting period. This document asserts that the project developer had legal rights to any emission reduction credits to be issued by the Climate Action Reserve. From this evidence, SCS has concluded that the project developer, Kent County Department of Public Works, is entitled to receive the emission reduction credits that may be issued by the Climate Action Reserve for methane destroyed during this project period.

The GHG Assessment Boundary

The Project includes all emission sources from the operation of the landfill gas collection system to the ultimate destruction of the landfill gas. The sources of GHG emissions reviewed include:

The GHG sources, sinks, and reservoirs associated with the baseline scenario are:

- CH₄ vented to the atmosphere.
- CO₂ from the oxidation of CH₄ by soil bacteria. As the landfill is not covered with a synthetic liner, the CAR Landfill Project Reporting Protocol, version 2.0 assumption that 10 percent of the methane produced would be naturally oxidized by soil bacteria has been applied.

The GHG sources, sinks, and reservoirs associated with the project are:

- Un-combusted CH₄ from Landfill gas in the internal combustion engines and an open flare.
- CO₂ from the combustion of fossil fuels used during operation and maintenance activities for the project activity.
- CO₂ resulting from the consumption of imported electricity.

The gases reviewed include CO₂ and CH₄. All gases are converted to CO₂ equivalents.

Review of Project GHG Management Systems

During the site visit, a review of the Project's greenhouse gas management systems was detailed with the Project Proponent. This review included a detailed look at the Project's data handling and processing procedures, recordkeeping and data storage, and the quality control and assurance procedures. The following is the result of this review:

Project Monitoring

The primary data gathered for the Project is landfill gas flow, pressure, temperature and methane content of the landfill gas. Landfill gas flow to the engines is monitored continuously by a Veris Verabar differential pressure meter and a YEWFO mass flow meter transmitter, which adjust to temperature and pressure conditions of 60 degrees F and 1 ATM. SCS reviewed quarterly inspection, cleaning and

calibration for the Veris Verabar and Yokogawa digital YEWFO flow meter used at the generator sets. SCS found the instrument to have “as found” readings that were within the required $\pm 5\%$ tolerance prescribed by the Landfill Project Reporting Protocol. SCS confirmed the calibration schedule exceeds manufacturer calibration recommendations for the instrument.

The methane concentration was measured continuously by a Siemens Ultramat 23 infrared gas analyzer. It was noted that the Siemens Ultramat was replaced in October for identical equipment due to the malfunction of the original Siemens. During the time the Siemens was down, no emission reductions were taken. This new Siemens Ultramat gas analyzer was noted to be factory calibrated prior to installation. Operation and monitoring logs confirmed that inspection, cleaning and calibration occurred weekly for the Siemens Ultramat gas analyzer to known gases. The instrument was noted to be within $\pm 5\%$ tolerance prescribed by the Landfill Project Reporting Protocol. SCS confirmed the calibration schedule exceeded manufacturer calibration recommendations for the instrument. The project utilized a Yokogawa data recorder to collect flow and methane content data continuously and to aggregate them in 15-minute or less increments.

In order to ensure landfill gas destruction, operating hours and the kilowatt-hour output of the engine generator units were recorded at least hourly. SCS reviewed the flow meter data to ensure that no credits were being accumulated for periods in which the destruction devices were not operational.

The generator equipment layout, serial numbers, operating manuals, and monitoring equipment drawings and specifications were also reviewed for compliance to the Landfill Project Reporting Protocol version 2.0 requirements. The flow meter and gas analyzer are located downstream of a dryer and upstream of two identical, internal combustion engines, and the pressure (vacuum) is continuously monitored. When the vacuum rises above a set point (for example, when one or both of the engines cease operation), the landfill gas flow is diverted to the flare. It was confirmed through generator operation logs and corroborating monitoring data that the flare was only operated for brief, intermittent time periods during the current reporting period. As these amounts were confirmed as immaterial compared to the total emission reductions, and following conservative reporting, the project developer did not report the methane destroyed in the flare as emission reductions.

Meter Configuration

As noted above, landfill gas flow was monitored by a YEWFO flow meter to measure flow combusted in either one of the two 1.6 MW generators. As one meter was used to measure flow for two caterpillar lean burn engines (multiple destruction devices), item 6: *Metering Multiple Destruction Devices (CLARIFICATION – October 26, 2011)* of the CAR LFG 2.0 Errata and Clarification (June 18, 2015) applied to the Project. SCS verified that the Project met the following conditions during times when not all destruction devices were operational:

- The destruction efficiency of the least efficient destruction device in operation was used as the destruction efficiency for all destruction devices monitored by this meter. The lean burn engines are identical and the destruction efficiency of the engine with the lower destruction efficiency was applied as noted further below.

- During the site visit, all devices were observed to be equipped with valves on the input gas line that closed automatically when the destruction device became non-operational in line with the Errata and Clarification.
- SCS verified through monitoring records, field logs, and project design that for periods if the maximum gas flow recorded exceeded the capacity of the engines, excess gas redirected to the open flare was able to accept the capacity.

Based on this review, SCS concluded that the project met the requirements of the Protocol.

A Project Monitoring Plan was created for the Project. The contents of the monitoring plan were thoroughly reviewed and observed to meet the requirements of the Landfill Project Reporting Protocol, version 2.0. The monitoring plan records are kept for a minimum of ten years from when the information is first generated or seven years after the last verification.

Quantitative Review of Carbon Reductions and Removals

SCS devoted a portion of the verification assessment to the review of the manner and propriety by which Kent County Department of Public Works quantified their net GHG reductions and removals. This assessment included a review of the baseline determination, review of project assumptions, raw data inputs and accuracy of calculations. The formulas and raw data inputs used to determine emission reduction calculations as described in the Project Monitoring Plan and the calculation spread sheets were first reviewed for compliance with the Landfill Project Reporting Protocol, version 2.0. The main parameters of Equation #5.1 were verified as follows:

Total Annual Methane Emissions Destroyed By the Project Landfill Gas Collection and Destruction System (CH_4 Dest_{PR})

The amount of methane destroyed is calculated from the continuously metered landfill gas flow data. For the verification period, data was electronically aggregated on a 15 minute interval for the engines. The main monitored parameters needed to calculate the amount of methane destroyed are:

$LFG_{i,t}$	= total quantity of landfill gas fed to the destruction device and
$PR_{CH_4 i,t}$	= the average methane fraction of the landfill gas in time interval t as measured

Landfill gas flow is first adjusted by voiding flow when there is no indication of hourly Kwh. Daily methane flow was calculated by taking the engine flow or flare flow for each daily period multiplying by the daily methane content. Total daily-destroyed methane is carried forward into further calculations for the engine to determine emission reductions for the project

Adjustment For Landfill Gas Flow Metering Equipment For Temperature And Pressure

The project flow meters are required to correct for the temperature and pressure of the landfill gas. The project flow meters report flow to 60 degrees F and 1 ATM as required by the protocol.

Default Methane Destruction Efficiency For Device (Dei)

Source testing was conducted on an annual basis and the destruction efficiencies of the two internal combustion engines were measured by a third-party testing firm. The source tests yielded measured efficiencies of 99.6 and 99.7 for both engines respectively. As the two internal combustion engines are considered identical destruction devices, SCS confirmed the lower of the two measured emissions factors were applied in the emission reduction calculations for the following periods:

- 1-7 January 2016, a value of 93.6% was applied.
- 8 January – 31 December 2016 a value of 99.6% was applied to the emission reductions.

Factor For The Oxidation Of Methane By Soil Bacteria (OX)

The project does not incorporate a synthetic liner in its cover system; therefore a 10% methane soil oxidation factor was applied to the baseline scenario.

Discount Factor To Account For Uncertainties Associated With The Project Monitoring Equipment (DF)

As per the methodology, DF equals to zero if using continuous methane monitor with no missing data and all calibration tests are within a 5% margin of error. It was verified that measurement readings are continuous and that calibration certificates indicated that instruments were within the thresholds for permissible error (see section above: Review of Project GHG Management Systems).

Adjustment To Account For Pre-Project LFG Destruction Device ($PRE_{discount}$)

An adjustment to the project was not necessary due to the fact that there was no pre-project destruction device.

Total Annual Indirect Carbon Dioxide Emissions From The Consumption Of Electricity From The Grid (EL_{CO_2}) and Total Annual Carbon Dioxide Emissions From The Destruction Of Fossil Fuel (FF_{CO_2})

CO₂ emissions result from consumption of electricity to power project equipment and activity data for this source was tracked by reviewing incoming power records from the power supplier. Direct CO₂ emissions result from propane used to assist the ignition of the flare. This activity data is taken from purchase invoices and estimates from propane used. The emission factors for electricity and propane were verified and no material errors were found.

Project emissions consisting of indirect emissions from electricity and direct emissions from propane use are subtracted from the total amount of methane destroyed. The values are presented in the final Calculation Spreadsheets for the verification period.

Variances or Deviations

The project did not apply for any variances or deviations during the reporting period.

Missing Data Procedures

Missing Data procedures were not applied to the data in this verification period.

Verification Results,

The verification of the South Kent Landfill Gas to Energy Project focused on the accurate collection of data and quantification of emission reductions as implemented by Kent County Department of Public Works in accordance to with the Landfill Project Reporting Protocol, version 2.0. A sample set of raw flow data (consisting of landfill gas flow, and temperature) and methane concentration was selected and reviewed in order to identify material misstatements due to transcription mistakes, mathematical errors or malfunction of instruments.

The following provides a summary of the verification results:

Emissions Verified	1 January 2016 to 31 December 2016 MtCO ₂ e
Baseline Emissions	93,118
Project Emissions	1
Total Emissions Reductions	93,117

Note: final numbers are rounded for simplicity.

Throughout the verification process, SCS made several supplemental documentation requests in the form of New Information requests. These requests provided clarification regarding the project. The Findings from the verification of are compiled in a separate “List of Findings” and are available under separate cover. The List of Findings is only shared between the Project Proponent and verifier and is not publicly available.

Recommendation

The Lead Verifier recommends that SCS Global Services issue a positive verification opinion for the following:

Name & Address of Project Developer	Kent County Department of Public Works 1500 Scribner N.W. Grand Rapids, MI 49504 USA
Scope of Verification	Emission reductions arising from the capture and destruction of Landfill Gas Methane from: South Kent Landfill Gas to Energy Project
Reporting Period	1 January 2016 to 31 December 2016
Total GHG Emission Reductions Verified	93,117 metric tonnes CO ₂ e
GHG Protocol(s) Used for Verification	■ CAR Landfill Project Reporting Protocol, version 2.0, (November 2008) ■ Errata and Clarification LPP Version June 18, 2015 ■ CAR Verification Program Manual, February 8, 2017 ■ CAR Landfill Project Verification Protocol 2.0 (November, 2008) ■ CAR Program Manual, September 1, 2015 ■ All Verification activities carried out by SCS followed the requirements of ISO 14064-3 (Specification with guidance for the validation and verification of GHG assertions)
Lead Verifier's Approval	 Tina Sentner, 6 March 2017
Technical Reviewer's Approval	 Blake Troxel, 9 March 2017
Date of Verification	The Verification Statement is to be dated when the technical reviewer accepts the recommendation to issue the statement.

Appendix A: SCS Certification Mark

Congratulations on receiving a positive verification for South Kent Landfill Gas to Energy Project. Your project is now eligible to use the SCS Kingfisher Certification Mark B for Carbon Offset Project Verification, as represented on the cover page of this verification report. The SCS Kingfisher Certification Mark increases the recognition of your achievements with your verification carbon offset project.

Please refer to the *SCS Kingfisher Certification Mark Labeling and Language Guide: Mark B* provided to you by the GHG Verification Program staff for more information about your Mark and usage. Should you have any additional questions regarding your Mark, use, messaging, or other marketing opportunities, please contact the GHG Verification Team or SCS Marketing Staff at NRmarcom@scsglobalservices.com.