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18 December 2023

Ms. Adriana Vargas Corrales Verification and Logistics Associate Tradewater, LLC San Jose, Costa Rica

Validation/Verification Report Project Plan and Monitoring Report for Tradewater – Thailand 5 (ACR924), Tradewater, LLC, Samutprakarn, Muang Samutprakarn, Thailand under ACR

Dear Ms. Corrales

1. Introduction

Tradewater, LLC (Client) retained GHD Services Inc (GHD) to undertake a validation/verification of the Tradewater - Thailand 5 Offset Project (Project) for the August 8, 2023 - September 28, 2023 reporting period. The Project is located in Samutprakarn, Muang Samutprakarn, Thailand and follows the requirements of ACR's voluntary offset program (Program). The Project is listed under the Program ID: ACR924.

Tradewater is the Project Proponent for the Project and is responsible for the preparation and fair presentation of the Project Plan, Monitoring Report, and emissions reductions.

The ACR requires the validation of the Project Plan for a crediting period and verification of the Monitoring Report for each reporting period by an independent third-party accredited under *ISO 14065 Greenhouse Gases – Requirements for greenhouse gas validation and verification bodies for use in accreditation or other forms of recognition* (ISO 14065). GHD Limited is accredited by ANAB under ISO 14065 as a greenhouse gas validation and verification body and under the ACR.

The Project utilizes the "Methodology for the Quantification, Monitoring, Reporting and Verification of Greenhouse Gas Emissions Reductions and Removals from the Destruction of Ozone Depleting Substances from International Sources", Version 1.0, dated April 2021 (ACR Methodology). Amendments to the methodology from an Errata and Clarifications document released by ACR on December 4, 2023, including the transition to use of AR5 global warming potentials for emission reductions calculations were implemented for R-12 which was destroyed during the Project.

GHD has prepared this Validation/Verification Report in accordance with ISO Standard ISO 14064 Greenhouse gases - Part 3: Specification with guidance for the validation and verification of greenhouse gas assertions (ISO 14064-3:2019) and with the Program requirements.

2. Validation/Verification Objective

The objective of the validation is to provide the Client and the Program with an opinion on whether the Project Plan for the reporting period meets the validation criteria identified in the Program and is free of material misstatements and that the information reported is accurate and consistent with the requirements of the Program.

The objective of the verification is to provide Client and the Program with an opinion on whether the Project Monitoring Report (Report) for the reporting period is free of material misstatements and that the information reported is accurate and consistent with the requirements of the Program.

GHD is responsible for expressing an opinion on the reported GHG emissions reductions based on the validation/verification.

3. Level of Assurance

The verification was conducted to a reasonable level of assurance as per the requirements of the ACR standard.

Based on this level of assurance, GHD determined whether the Project's assertions are:

- Materially correct, free of misstatements and an accurate representation of the GHG data and information.
- The Project Report and documentation were prepared in accordance with the requirements of the ACR Standard and in accordance with the applicable GHG quantification, monitoring and reporting, standards or practices.

If validation/verification opinions could be provided, they were worded in a manner to meet the requirements set forth in the ACR standard.

4. Validation/Verification Standards

For the validation/verification, GHD applied ISO 14064-3:2019 and the Program validation/verification standards.

5. Validation/Verification Criteria

GHD applied the following validation/verification criteria:

- ISO 14064 Greenhouse gases Part 2: Specification with guidance at the project level for quantification, monitoring and reporting of greenhouse gas emission reductions or removal enhancements, ISO, April 2019 (ISO 14064-2)
- ISO 14064 Greenhouse Gases Part 3: Specification with guidance for the verification and validation of greenhouse gas statements, ISO, April 2019 (ISO 14064-3)
- International Accreditation Forum Mandatory Document for the Use of Information and Communication Technology for Auditing/Assessment Purposes: Issue 2, July 2018 (IAF MD 4: 2018)
- ACR Standard, Requirements and Specifications for the Quantification, Monitoring, Reporting, Verification, and Registration of Project Based GHG Emissions Reductions and Removals, Version 8.0, dated July 2023 (ACR Standard) *

- ACR Validation and Verification Standard, Version 1.1, May 2018 (ACR V/V Standard)
- Methodology for the Quantification, Monitoring, Reporting and Verification of Greenhouse Gas Emissions Reductions and Removals from the Destruction of Ozone Depleting Substances from International Sources, ACR, Version 1.0, April 2021 (Methodology) *
- Destruction of Ozone Depleting Substances from International Sources V1.0., Errata & Clarification, ACR,
 December 4, 2023 (E&C) *

Note:

* - Denotes change from Proposal or Initial Verification Plan

6. Validation/Verification Team and Independent Reviewer

6.1 Roles and Responsibilities

Lead Validator/Verifier/Technical Expert – **Gordon Reusing** – Mr. Reusing led the validation/verification and was responsible for development of the validation/verification plan. Mr. Reusing reviewed the risk assessment and evidence gathering plan, recalculation of raw data, data management and draft findings. Mr. Reusing reviewed and signed the validation/verification opinion and validation/verification report. Mr. Reusing conducted a site visit of the Project Site.

Co-Lead Validator/Verifier/Technical Expert – **Anothai Setameteekul** – Ms. Setameteekul led the validation/verification and was responsible for development of the validation/verification plan. Mr. Reusing reviewed the risk assessment and evidence gathering plan, recalculation of raw data, data management and draft findings. Ms. Setameteekul and signed the validation/verification opinion and validation/verification report. Ms. Setameteekul conducted a site visit of the Project Site.

Validator/Verifier – Angela Kuttemperoor – Ms. Kuttemperoor developed and revised the validation/verification plan and evidence gathering plan, developed a risk assessment, recalculated raw data, reviewed management of data quality and prepared draft findings. Ms. Kuttemperoor conducted a site visit of the Project Site.

Independent Reviewer/Technical Expert — **Deacon Liddy** – Mr. Liddy conducted an independent review of the risk assessment, validation/verification plan, validation/verification report, and findings. Mr. Liddy approved the issuance of the opinion.

6.2 Qualifications

Gordon Reusing, M. Sc., P. Eng.

Role: Lead Validator/Verifier

Professional Summary | Mr. Reusing is a greenhouse gas (GHG) Lead Verifier, Lead Validator, and Peer Reviewer with extensive experience including GHG programmes in Alberta, British Columbia, Ontario, Quebec, Nova Scotia, California, and programmes operated by the United Nations Framework Convention on Climate Change (UNFCCC) Clean Development Mechanism (CDM), The Gold Standard, The Climate Registry (TCR), the Carbon Disclosure Project (CDP), and Verra: Verified Carbon Standard (VCS). Mr. Reusing has completed numerous GHG quantification studies for the oil and gas sector, including upstream, midstream, and downstream facilities. Mr. Reusing has conducted GHG verifications as a Lead Verifier, Technical Expert and Peer Reviewer in many jurisdictions, including, but not limited to, the Alberta Carbon Competitiveness Incentive Regulation (CCIR), Ontario Regulations, British Columbia Greenhouse Gas Reduction (Cap and Trade) Act, (B.C. Reg. 272/2009), and Quebec Regulation R.Q.c.Q 2, r.15 (Quebec Regulation).

Anothai Setameteekul, P. Eng.

Role: Co-Lead Validator/Verifier

Professional Summary | Ms. Setameteekul is a GHG and Air Emissions Engineer based in GHD's Calgary office and is a licensed Professional Engineer in the provinces of Alberta and Saskatchewan. She has extensive knowledge and experience in GHG quantification and verification in particular industrial facilities – Oil Sands (In Situ, Mining, Upgrader operations), Hydrogen Production, Petrochemical, Cement, Refinery, Natural Gas Processing, Natural Gas Power Generation with Cogeneration, and Steel Manufacturing. She is familiar with the GHG Regulation in Canadian jurisdictions including British Columbia, Alberta, and Ontario. Ms. Setameteekul is also accredited by the California Air Resource Board as a lead verifier of greenhouse gas emissions for Oil and Gas system, process emissions sectors, fuel pathways, alternative fuel transactions and petroleum-based fuel report. Ms. Setameteekul is also accredited by the Washington State as a verifier. Ms. Setameteekul also has experience working in the accreditation audit process for GHD by ANAB and has training and knowledge of the ISO 14064 and ISO 14065 standards.

Ms. Setameteekul graduated with a Masters degree in Industrial System Engineering from the University of Regina. Ms. Setameteekul worked as a research assistant in International Testing Center for CO2 Capture (ITC). Her work was related to CO2 capture using chemical absorption process. Ms. Setameteekul also worked as a process engineer to evaluate process performance such as process efficiency, air emissions, liquid effluent, waste, and utility consumption at a carbon capture test facility.

Angela Kuttemperoor, E.I.T.

Role: Validator/Verifier

Professional Summary | Ms. Kuttemperoor is an Air Engineer-In-Training with GHD's Greenhouse Gas Assurances Services Team and has 2 years of experience in greenhouse gas verification work. Ms. Kuttemperoor has a Bachelor's of Environmental Engineering (co-op) from the University of Guelph. Ms. Kuttemperoor has experience as a verifier under the Ontario Emissions Performance Standards program and federal Output-based Performance Standards program. Ms. Kuttemperoor has expertise in voluntary offset project validations and verifications conducted under the Climate Action Reserve, ACR and Verified Carbon Standard for landfill gas destruction and ozone-depleting substances destruction projects. Ms. Kuttemperoor has experience with compliance offset verifications for ozone-depleting substances conducted under the California Air Resources Board. Ms. Kuttemperoor has experience in verifications conducted under the Carbon Offsetting and Reduction Scheme for International Aviation.

Deacon Liddy, P. Eng.

Role: Technical Reviewer and Technical Expert

Professional Summary | Mr. Liddy is a Principal with GHD and an experienced GHG validator and verifier, having completed over 100 GHG validation/verifications with 17 years of experience. Mr. Liddy works with large industrial facilities, Provincial governments, and offset project developers to complete risk-based verifications. Mr. Liddy has been the lead verifier for completion of greenhouse gas verifications conducted on behalf of Alberta Environment for emission offset projects for landfill gas, biomass, tillage, composting and fuel switching for lumber kilns. Mr. Liddy has completed verifications of greenhouse gas emission intensity baseline applications and annual compliance reports under the Alberta Specified Gas Emitters Regulation and British Columbia Mandatory Reporting Regulation. Mr. Liddy is a professional engineer in BC, Alberta, and Saskatchewan.

7. Project Description

The Project involves the destruction of eligible ODS refrigerant obtained from the Government of Thailand's Customs Department where ODS had been stockpiled since 2007. The ODS material is aggregated at the WMS Warehouse, prior to transport to the WMS destruction facility in Samutprakarn, Thailand. The ODS is transferred from small cylinders to a few larger ISO tanks, where the ODS is destroyed using fluidized bed incineration technology. A truck scale is used to determine the weight of ODS destroyed by weighing the trucks arriving and departing from the destruction facility. Tradewater utilizes a methodology deviation for the ODS weighing procedure. WMS personnel conduct sampling of the ODS and composition analysis occurs at a third-party lab in Belgium, Bureau Veritas Commodities Antwerp N.V. The weight and ODS composition of the ODS is used to determine the carbon credits generated by the Project. A secondary procedure is used for measuring the weights of the small cylinders of ODS using electronic balances, that are aggregated and destroyed in the larger ISO tanks. From this procedure, a Consolidation report is generated which is used as

the offset title for the Project. WMS transfers ownership of the ODS cylinders and ownership of all carbon credits generated from the Project to Tradewater.

7.1 Client Contact

Ms. Adriana Vargas Corrales, Mr. Tip Stama and Ms. Gina Sabatini were GHD's Client contacts for this validation/verification.

8. Validation/Verification Scope

The following sections describe the scope of the validation/verification.

8.1 Project Boundary

The Project is broken down into the following greenhouse gas Sources, Sinks and Reservoirs (SSRs) to be included, as defined in the Program's Protocol:

Baseline:

SSR 6 – Emissions from ODS from use, leaks and servicing through continued operation of equipment –
 (ODS)

Project:

- SSR 5 Transport to Destruction Facility Carbon Dioxide (CO₂)
- SSR 6 Emissions of substitute from use, leaks and servicing through continued operation of equipment CO₂e
- SSR 7:
 - Emissions from ODS from incomplete destruction at destruction facility (ODS)
 - Emissions from the oxidation of carbon contained in destroyed ODS (CO₂)
 - Fossil fuel emissions from the destruction of ODS at destruction facility (CO₂)
 - Indirect emissions from the use of grid-delivered electricity (CO₂)

8.2 Geographical and Operational Boundaries

The validation/verification included the SSRs from the Project Site located at the following address:

Waste Management Siam Company Ltd 965 Moo 2 Soi 3B Bangpoo Industrial Estate Sukhumvit Rd Bangpoo Mai Muang Samutprakarn Samutprakarn 10280 Thailand

8.3 Project Start Date, Reporting and Crediting Period

The start date for the Project is August 8, 2023. The crediting period is from August 8, 2023 - August 7, 2033.

The reporting period for this validation and verification for the Project is from August 8, 2023 - September 28, 2023.

8.4 Use of this Report

The validation/verification report was prepared for the use of Client and the Program.

References from GHD's Validation/Verification Report must use the language in which the opinion was issued, and reference the date of issuance of GHD's report, the applicable validation/verification period and the associated program for which the validation/verification was conducted. The GHG assertion provided by GHD can be freely used by Client for marketing or other purposes other than in a manner misleading to the reader. The GHD mark shall not be used by Client in any way that might mislead the reader about the validation/verification status of the organization. The GHD mark can only be used with the expressed consent of GHD and then, only in relation to the specific time period validated/verified by GHD.

8.5 Use of Information and Communication Technology

As part of the validation/verification process, GHD utilized information and communication technology (ICT) in accordance with IAF Mandatory Document for the use of Information and Communication Technology for Auditing/Assessment Purposes (IAF MD 4:2018) for various aspects of the validation/verification, including conducting video/tele-conferencing with various personnel up to full virtual site visits.

The decision to use ICT permissible if GHD and Client agreed on using ICT. The agreed ICT method was MS Teams. By accepting GHD's proposal dated August 18, 2023, Client agreed to the use of the afore mentioned ICT methods and their associated information security, data protection and confidentiality measures. Any other ICT method(s) was agreed to in writing (email) between GHD and Client prior to use. The parties did not agree to the use of an ICT method which either party did not have the necessary infrastructure to support. Throughout the entire validation/verification process, including use of ICT, GHD abided by the confidentiality procedures.

8.6 Reported GHG Emissions and Emissions Reductions

The reported baseline and project emissions and emissions reductions includes the following, as listed in the Monitoring Report and Project Plan:

Table 8.1 Reported Emissions

| Vintage | | Project Emissions (tonnes CO ₂ e) | GHG Reductions/Removals (Emissions Reduction Tonnes) |
|--------------------------|---------|----------------------------------------------|---------------------------------------------------------|
| Reporting Period in 2023 | 192,401 | 16,210 | 176,191 |

9. Strategic Analysis

To understand the activities and complexity of the Project, and to determine the nature and extent of the validation/verification activities, GHD has completed a strategic analysis. The strategic analysis involves consideration of the details of the Project Site and its operations, the Project Plan and Monitoring Report and their preparation, and the validation/verification requirements per the Program. The information considered in the strategic analysis is documented in GHD's working papers and was used to inform the assessment of risks and the development of an evidence gathering plan.

10. Assessment of Risk and Magnitude of Potential Errors, Omissions or Misrepresentations

GHD conducted an assessment of the risk and magnitude of potential errors, omissions or misrepresentations associated with the Project Plan assertion and Monitoring Report. GHD then identified areas where qualitative or quantitative errors could occur and assigned risks to the areas. The inherent and control risks were

evaluated, and detection risks were established. The risks were identified as high, medium and low. The risk assessment was a key input to developing an effective evidence gathering plan.

11. Evidence-Gathering Plan

GHD developed an Evidence Gathering Plan (EGP) for internal use based on review of the objectives, criteria, scope, and level of assurance detailed above, along with consideration of the strategic analysis and assessment of risks. The EGP was designed to lower the validation/verification risk to an acceptable level and specified the evidence (data and information) to be reviewed as part of the validation/verification in the evidence gathering activities. The EGP was reviewed and approved by the Lead Validator/Verifier prior to issuing the validation/verification plan. The EGP is dynamic and was revised, as required, throughout the course of the validation/verification. Any modifications to the EGP were reviewed and approved by the Validator/Verifier, with the final EGP completed prior to issuing the final validation/verification report and opinion.

12. Validation/Verification Plan

GHD developed a Validation/Verification Plan based on a preliminary review of the data initially provided. GHD submitted the Validation/Verification Plan to Client on October 25, 2023, prior to GHD's remote Site visit on October 30, 2023. GHD's Validation/Verification Plan was revised, as required, throughout the course of the validation/verification to address questions or initial concerns with data originally provided.

A copy of the final Validation/Verification Plan is included in Appendix A.

13. Quantitative Testing

Quantitative data or raw data was made available to GHD. GHD used the data to recalculate and check the GHG emissions reductions calculations and assess the methodologies that were used in the development of the Project Plan and Monitoring Report.

14. Materiality Level

ACR requires that the materiality threshold for the discrepancies between the reported emissions reductions and those estimated by GHD be less than +/-5%. Before a verification statement will be accepted, the individual and aggregation of errors or omissions which are found to be greater than the ACR materiality threshold, require correcting.

The % error can be calculated using the following equation:

 $Percent\ Error = \frac{[Project\ Emission\ Reduction\ Assertion-Verifier\ Emission\ Reduction\ Recalculation\]\ x\ 100\ percent}{Verifier\ Emission\ Reduction\ Recalculation}$

Materiality was also assessed on a qualitative level, including conformance with the applicable Program and Protocol requirements. Non-conformance with Program requirements may have been considered a material error unless the Program approved a deviation request.

15. Validation/Verification Procedures

15.1 Conflict of Interest and Independence

GHD has undergone a thorough evaluation for conflict of interest (COI) and independence for this validation/verification work. This included a review of other potential work conducted by GHD for Client and Project listed in the scope of work. We have confirmed that this validation/verification work can be successfully completed without undue risk of impartiality and conflict of interest. We have assessed the following key aspects:

- Validation/verification evaluation
- Team evaluation

GHD has rigorous COI and verifier competency evaluation procedures that are followed for every validation/verification project. Our documented procedures ensure that all COI and independence criteria are properly evaluated. GHD's COI program ensures that both the company and the Project Team have no potential COIs.

GHD has also evaluated and approved our Validation/verification Team's competencies. GHD sets competency requirements in terms of education, validation/verification experience, and experience in the sector. GHD can attest that we have highly qualified staff with the appropriate technical expertise for the validation/verification work.

The Project was submitted for listing to ACR on September 26, 2023. The ACR Standard for Projects listed subsequent to July 1, 2023 is Version 8.0. Prior to commencing the validation/verification, GHD conducted an internal conflict of interest (COI) check to determine the potential for a COI in providing validation/verification services to the Project. Based on the COI risk levels of the ACR Validation and Verification Standard, GHD identified a low risk for COI, based on the fact that GHD has previously only conducted validations/verifications for the Project Proponent. GHD previously conducted the verification/validation for the previous four Tradewater Thailand projects the Project Proponent in 2022-2023.

GHD submitted the ACR COI form for the Project on October 12, 2023. The ACR provided the authorization to commence the validation/verification of the Project on October 16, 2023 and the Project COI form is listed as approved on the ACR registry.

15.2 Kick-off Meeting

On October 20, 2023, a kick-off conference call was held between GHD and Tradewater to discuss the validation/verification scope and to provide the Project Proponent with a list of information required by GHD to initiate the desk review of the Project. The requested documents were provided by the Project Proponent via email and electronic media. The following specific items were discussed in the kick-off conference call:

- a. Project operations
- b. Proposed Validation/Verification timeline
- c. Site visit scheduling and arrangements
- d. Data and information requests

GHD did not commence the validation and verification activities until after ACR provided the authorization to commence the validation/verification on October 16, 2023.

15.3 Issues Communications

During the course of the document review and interviews, questions and clarifications were identified by the Project Team; these were communicated with Client either verbally, by email, or in an Issues Log. Client and/or

Project staff had the opportunity to respond to identified issues prior to the completion of GHD's draft and final validation/verification reports. Material issues identified by GHD were requested to be corrected by Client.

15.4 Independent Review

GHD conducted an independent review of the validation/verification, which included a review of findings, emission calculations and opinion developed by the validation/verification team.

15.5 Methodologies Used to Assess/Verify Emissions Data

The validation procedures were used to assess the following:

- 1. Accuracy and completeness of Project Plan and Monitoring Report
- 2. Uncertainty of external data sources used
- 3. Emission assumptions
- 4. Accuracy of emission calculations
- 5. Potential magnitude of errors and omissions

To sustain a risk-based assessment, the GHD Project Team identified and determined risks related to the GHG emissions during the desk reviews, site visit and the follow-up interviews as applicable. The GHD Project Team focused on the accuracy and completeness of provided information. The components of the document review and follow-up interviews were:

- Document Review:
 - Review of data and information to confirm the correctness and completeness of presented information.
 - Cross-checks between information provided in the Project Plan and Monitoring Report and information from independent background investigations.
 - Determine sensitivity and magnitude analysis for parameters that may be the largest sources of error.
- Follow-up Interviews:
 - Remote site visit
 - Via telephone
 - Via email
 - Via ICT

The document review established to what degree the presented Project Plan and Monitoring Report documentation met the validation/verification standards and criteria.

The GHD Project Team's document review during the review process comprised of, but was not be limited to, an evaluation of whether or not:

- The documentation is complete and comprehensive and follows the structure and criteria required by the Program.
- The monitoring methodologies are justified and appropriate.
- The assumptions behind the inventory are conservative and appropriate.
- The GHG emission calculations are appropriate and use conservative assumptions for estimating GHG emissions and emissions reductions.
- The GHG information system and its controls are sufficiently robust to minimize the potential for errors, omissions, or misrepresentations.

The GHD Project Team interviewed Project staff to:

- Cross-check information provided
- Test the correctness of critical formulae and calculations
- Review data management and recording procedures

GHD completed checks of data from point of collection (meter, scale, etc.), through the Project data management systems, then it's use in the development of the Project Plan and Monitoring Report. Where available, a sample of raw data was collected for checks and recalculations as applicable. Where errors or anomalies were identified that could lead to a material misstatement, GHD requested further information to assess the pervasiveness of the errors or anomalies, as applicable. Where applicable, GHD identified the source and magnitude of data or methodology errors or anomalies; however, as a validation/verification body, GHD did not provide solutions to issues identified, where applicable.

15.6 Details of Site Visit

The ACR indicated that a remote site visit was acceptable and sufficient for this validation/verification. GHD had previously conducted an in-person site visit for the Thailand 1.0 validation/verification in October 2022. Anothai Setameteekul, Gordon Reusing and Angela Kuttemperoor of the GHD Project Team performed a remote site assessment using Microsoft Teams on October 30, 2023 during the validation/verification of the Project Plan and Monitoring Report.

GHD interviewed the following people:

- Adriana Vargas (Verification and Logistics Associate, Tradewater)
- Panjamas Thaengthonglang (Project Manager, Tradewater)
- Sutthida Fakkum (Senior Environmental And Compliance Manager, Waste Management Siam Ltd. (WMS)/Bangpoo Environmental Complex Co. Ltd. (BPEC))
- Prin Hanthanon (Business Development Engineer, WMS)
- Pattanasak Weerapattarachat (Vice Factory Manager, WMS)
- Arpakon Prompet (Senior Environmental Engineer, WMS)
- Ampol Ruttanasang (Senior Chemist, WMS)

During the site visit, GHD personnel interviewed participants about the Project regarding an overview of the process, review of major emission sources, the Project boundary and the data management system in place at the Facility. Through this inspection, GHD was able to verify that personnel responsible for the GHG Project Plan and Monitoring Report preparation were sufficiently trained and qualified. GHD reconfirmed that the location of the Project has not changed from GHD's in-person Site visit to WMS Destruction Facility for Tradewater International – Thailand 1.0. GHD also reviewed the incinerator operation and operating parameters as monitored through the CEMs system and operation of the ODS feed measurement.

16. Validation/Verification Findings

The following provides details of GHD's findings as well as GHD's conclusions.

16.1 Effectiveness of ICT

GHD discussed with Client the availability of ICT technologies. Client agreed to the use if ICT by accepting GHD's proposal. GHD reviewed and confirmed the effectiveness of these techniques.

The decision to use ICT is permissible if GHD and Client agreed on using ICT. The agreed ICT method was MS Teams. By accepting GHD's proposal dated August 18, 2023 Client agreed to the use of the afore mentioned ICT method and its associated information security, data protection and confidentiality measures.

GHD and Tradewater successfully used MS Teams to hold calls, video conferences and share screens. GHD and Tradewater used an online SharePoint folder (Dropbox) and email to share files.

The remote Site visit of the Project used MS Teams and some client calls between Tradewater and GHD occurred via MS Teams. GHD and Tradewater encountered no issues using ICT as a part of this validation/verification; transfer of data between Tradewater and GHD was smooth, and MS Teams calls did not encounter any technical issues.

Based on GHD's review, the ICT technologies used were acceptable and reasonable for use in the validation/verification, and GHD was able to maintain the acceptable level of assurance. The ICT techniques were effective in supporting the validation/verification activities.

16.2 Project Boundary

GHD reviewed the Project operations to confirm that all emission sources and sinks are included in the Report. Specifically, GHD completed the following:

- Conducted a remote site visit and interviewed personnel
- Reviewed data management systems
- Reviewed process flow diagram

During the remote site visit, GHD confirmed the baseline and project emission sources and sinks were included in the Report.

16.3 Project Deviations

The Project involved a deviation from the Methodology for the calculation of the weight of ODS destroyed, with the purpose of increasing accuracy of the ODS weight measurement, avoiding the need to account for truck fuel weights for ODS weight determination and using a method that is in alignment with international tipping standards. The deviation consisted of an adaptation of requirement I.B.iii.g in Appendix B of the Methodology, for the scenario relevant to the Project, where different transportation vehicles are used for transport of containers pre- and post-destruction at the destruction facility. The requirement in the Methodology is as follows:

"If different transportation vehicles are used to transport containers to a destruction facility and to pick up the empty containers after destruction, each transport vehicle shall be weighed both upon its arrival and departure from the destruction facility. If the vehicle transporting the full ODS containers to the destruction facility weighs more than the vehicle carrying the empty ODS containers from the facility, the mass discrepancy must be subtracted, as applicable from Qrefr,i in Equation 2, and QODS in Equation 5."

As implemented for Tradewater – Thailand 4, the ACR approved deviation for Tradewater – Thailand 5 involves the scenario applicable to the current Project, where different trucks are used for the transportation of containers pre- and post-destruction. The calculation methodology as described was followed and uses the procedure of measuring the tare truck weights, to discount any weight discrepancies between the inbound and outbound trucks, mainly due to fuel tank levels. The procedures and equation used by Tradewater, as outlined in the ACR deviation request is as follows:

 $ODS\ destroyed = (inbound\ weight-inbound\ tare\ weight) - (outbound\ weight-outbound\ tare\ weight)$

Before destruction:

- Weigh truck attached to the full ISO tank when arriving to the destruction facility (inbound weight)
- Weigh truck immediately after detaching ISO tank to obtain truck tare weight (inbound tare weight)

After destruction:

- Weigh truck when it arrives to the destruction facility, immediately before attaching the empty ISO tank to obtain the truck tare weight (outbound tare weight).
- Weigh truck attached to the empty ISO tank (outbound weight).

The deviation was approved by ACR on October 25, 2023. GHD reviewed the approved deviation request and confirmed that the deviation procedures were followed. GHD confirmed that the modified ODS weight calculation was applied appropriately in the GHG Assertion. GHD confirmed that the trucks pre- and post-destruction from the destruction facility were different trucks based on the truck ID numbers as found on the generated weight tickets, 51-3328 and 53-9637 respectively for pre- and post-destruction trucks.

16.4 Project Applicability

As per Sections 2, 3 and 6 of the ACR Methodology, the applicability requirements for the Project are detailed below.

16.4.1 Location

During GHD's validation/verification of Project Tradewater International – Thailand 1.0, GHD conducted an in-person Site visit to the Facility and verified that the Project location is at the WMS destruction facility, Samutprakarn, Thailand where the ODS is destroyed. Transfers of ODS disposable cylinders from the Government of Thailand's Customs department were first received at the WMS warehouse where the ODS is consolidated into an ISO tank for destruction. At the WMS warehouse, electronic balances are used to weigh each cylinder for which ODS is transferred to an ISO tank, the secondary weighing procedure, which results in generation of the Consolidation Report or offset title for the Project.

The ISO tank is transported by truck to the truck weigh scale bridge nearby, where the truck and ISO tank are weighted before and after destruction, the primary weighing procedure, by which the Certificate of Destruction is generated, containing the official weight of ODS destroyed and used for claiming emissions reductions. The ODS is destroyed at the WMS destruction facility using fluidized bed incineration technology. During the Tradewater – Thailand 4 project validation/verification remote site visit, GHD observed all locations and equipment involved via live video demonstration led by WMS personnel. During the remote site assessment that was conducted for the current Project Tradewater – Thailand 5, GHD confirmed that the location for the various project activities and destruction facility location have not changed.

16.4.2 Eligible Destruction Facilities

The destruction facility is regulated by the Industrial Estate Authority of Thailand (IEAT) and is not subject to RCRA standards as required for facilities located in the United States. The WMS destruction facility was reviewed for compliance with the Montreal Protocol's TEAP standards; the United Nations Environment Programme (UNEP) Report of the Technology and Economic Assessment Panel, April 2018, Volume 2, Decision Xxix/4 Teap Task Force Report on Destruction Technologies for Controlled Substances.

The fluidized-bed incineration destruction technology that the WMS destruction facility uses is not currently listed in the TEAP standards. Through review of email correspondence, GHD determined that ACR confirmed that it is not required that the facility use a technology listed in the TEAP Report, as long as the facility meets the TEAP standards. Furthermore, ACR provided information on the fluidized-bed incineration destruction technology to Tradewater in the form of a study commissioned by US EPA that lists the technology as one of the approved methods for ODS destruction. GHD reviewed the study, *ODS Destruction in The United States of America and Abroad, May 2009, ICF International for U.S. EPA's Stratospheric Protection Division* and

identified that fluidized-bed incineration was listed an approved method for ODS destruction. GHD assessed the WMS facility against all TEAP screening criteria for destruction facilities including:

- 1. Destruction and Removal Efficiency (DRE)
- 2. Emissions of dioxins and furans (PCDDs/PCDFs)
- 3. Emissions of other pollutants (acid gases, particulate matter, and carbon monoxide)
- 4. Technical capability

GHD reviewed the 6th CFC DRE Report for the Facility which demonstrates a destruction efficiency of 99.99% for refrigerants and emission levels for contaminants carbon monoxide, hydrogen fluoride, hydrogen chloride/chlorine gas, particulates and dioxins and furans. GHD reviewed the stack test emission level analysis reports as prepared by United Analyst and Engineering Consultant Co., Ltd for the remaining contaminants including hydrogen bromide.

GHD reviewed the emissions levels for the contaminants and identified that concentrations as demonstrated in the Analysis reports were expressed on differing standard conditions from the standard conditions used for determining emissions limits in the TEAP standards. GHD observed that under the conditions as listed in the original emissions analysis reports of 0°C, stack gas corrected to 11% O₂, all pollutants were under the TEAP limits, except for PCDDs/PCDFs as demonstrated in Table 16.1. Results were converted to the TEAP standard conditions of 25°C, stack gas corrected to 7% O₂ and resulted in all contaminants being below the TEAP emission level thresholds. GHD reviewed Tradewater's conversions to TEAP standards and identified that the temperature conversion was omitted. Tradewater updated the conversions and Project Plan to include the emissions at TEAP standard conditions. Furthermore, the destruction facility met the technical capability requirements under TEAP for destruction removal efficiency and processing capability as shown in Table 16.1.

Table 16.1 TEAP Performance Criteria

| Performance Qualification | Limit (Concentrated Sources) | WMS Facility Results (lab test conditions²) | WMS Facility Results (TEAP standard conditions ¹) |
|--------------------------------------|---------------------------------|---------------------------------------------|------------------------------------------------------------------|
| Destruction Removal Efficiency (DRE) | 99.99% | 99.99% | 99.99% |
| PCDDs/PCDFs | 0.2 ng-ITEQ/Nm ³ | 0.25 ng-ITEQ/Nm ³ | 0.19 ng-ITEQ/Nm ³ |
| HCI/Cl ₂ | 100 mg/m ³ | 0.68 mg/m ³ | 0.53 mg/Nm ³ |
| HF | 5 mg/m ³ | 0.192 mg/m ³ | 0.149 mg/Nm ³ |
| HBr/Br ₂ | 5 mg/m ³ | <0.001 mg/m ³ | <0.001 mg/Nm ³ |
| Particulates | 50 mg/m ³ | 1.12 mg/m ³ | 0.87 mg/Nm ³ |
| СО | 100 mg/m ³ | 0.1 mg/m ³ | 0.08 mg/Nm ³ |

Notes:

- All concentrations of pollutants in stack gases and stack gas flow rates are expressed on the basis of dry gas at normal conditions of 0 °C and 101.3 kPa, and with the stack gas corrected to 11% O₂ (as referred to by normal cubic metre, Nm³).
- ² Concentrations for pollutants as reported in the *6th CFC DRE Report* were determined on the basis of dry gas at normal conditions of 25°C and 101.3 kPa, and with stack gas corrected to 7% O₂.

Table 16.2 TEAP Technical Capability for ODS Destruction

| Technical Capability | Limit (Concentrated Sources) | WMS Facility Results |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|------------------------------------------------------------------------------------------------------------|
| It has been demonstrated to have destroyed ODS to the technical performance criteria, on at least a pilot scale or demonstration scale (recommended for approval); OR | 99.99% maximum | Facility demonstrated to destroy ODS to the technical performance criteria, a DRE of |
| It has been demonstrated to have destroyed a refractory chlorinated organic compound other than an ODS, to the technical performance criteria, on at least a pilot scale or demonstration scale, which indicates that the technology is considered to have a high potential for application with ODS but has not actually been demonstrated with ODS (recommended as high potential); and | | 99.99% for refrigerants. |
| The processing capacity of an acceptable pilot plant or demonstration plant must be no less than 1.0 kg/hr of the substance to be destroyed, whether ODS or a suitable surrogate. | 1.0 kg/hr minimum | Facility demonstrated to destroy ODS to 20 kg/hr, above the minimum for the technical performance criteria |

16.4.3 Eligible ODS

GHD confirmed that the refrigerants destroyed include CFC- 12, which is eligible ODS under the Methodology.

GHD confirmed that destruction took place under one Certificate of Destruction and that all required information was included on the destruction certificate. GHD confirmed that Mr. Ampol Rattanasang performed sampling of the ODS and was listed on the ODS Sampling certificate. GHD verified that Mr. Rattanasang was certified to conduct sampling procedures by the Laboratory Registration under Department of Industrial Works (Thai Government) with Certificate Number 3-320-9-9257. GHD confirmed that the certificate was valid during the reporting period in 2023 and is valid until February 2024.

GHD confirmed that all other technicians involved in the ODS handling were trained in accordance with the destruction facility's standard operating procedures (SOPs) developed in September 2022. The training session was led by Mr. Victor Molina (EPA 608 certification number 2019-02-ACCTECH-0019) and included training on the following SOPs:

- WMS Destruction SOP
- Filling procedure SOP
- Sampling procedure for ISOs and B1000 SOP
- Transport and Storage procedure SOP
- Maintenance procedure SOP

16.4.4 Project Start Date, Reporting Period and Crediting Period

ACR defines the Start Date for all projects other than AFOLU as the date on which the project began to reduce GHG emissions against its baseline. For ODS projects, the Project start date is listed on the Certificate of Destruction, when the destruction of ODS occurs. The start of destruction listed on the Certificate of Destruction is August 8, 2023.

GHD confirmed that the Project's reporting and crediting period begin on the Project start date, and that the reporting period falls within the crediting period. The crediting period for this type of Project (i.e., non AFOLU) per the ACR Standard is 10 years. GHD confirmed that the reporting period ended on September 28, 2023 and therefore is less than 12 consecutive months. GHD confirmed that the Project only has one reporting period. Only one destruction event took place within the reporting period.

16.4.5 Government Stockpile Requirement

GHD reviewed documents relating to Thailand regulations concerning the destruction of ODS including the *Meeting Minutes of Cooperation between the Customs Department and the Department of Industrial Works Waste Management Siam Company Limited and The Creagy Company Limited,* which described that the ODS refrigerant is considered a national item under the Thailand Customs Law. The Customs Law takes precedence over other laws such as the Hazardous Substance Act B.E. 2535 which requires destruction of hazardous substances. Additionally, there is no requirement to destroy a national item under the Customs law. Therefore, GHD confirmed that the ODS, as obtained from a government stockpile was not required to be destroyed or converted, as per ACR Methodology Section 6.1 IV.

16.4.6 Project Eligibility

Project eligibility requirements are outlined in Chapter 3 of the ACR Standard. GHD reviewed the Project against the eligibility requirements in the Standard as detailed below.

16.4.7 Minimum Project Term

The minimum project term is not applicable for the ODS Project type.

16.4.8 Real

Per the ACR Standard, any GHG emission reduction or removal must be real and have already occurred prior to credit issuance on this Project. GHD verified the Project Start date to confirm that the emissions reductions are real and ex ante. In addition, GHD reviewed Facility records including CEMs data to verify the frequency and units by which ODS flow was monitored and the reporting period over which destruction occurred. GHD reviewed the timeline of project documentation, from ODS and ownership chain of custody through to sampling and destruction for the current project, to verify that emissions reductions being claimed are ex-ante and real.

16.4.9 Offset Title

The chain of custody for the Project involves transfer of ODS and Ownership Interests in the ODS as well as carbon credits generated by the associated destruction projects from the Thailand Government customs department to WMS who operates the destruction facility, to Tradewater, LLC. Transfer of ownership documentation indicates that the Government of Thailand transferred ownership to WMS in September 2022 and WMS transferred ownership to Tradewater in September to November 2022 as per the transfer of ownership documentation with effective dates September 26, 2022, October 3, 2022, October 14, 2022, October 21, 2022, October 27, 2022 and November 14, 2022. GHD confirmed with Tradewater that all ODS and ownership transfers occurred during Project Tradewater International – Thailand 1.0 and that the ODS is destroyed in stages between the Tradewater Thailand Projects.

In addition to original ownership transfers, GHD verified that the Consolidation Report is the offset title for the current Project, Tradewater – Thailand 5 and includes all cylinders for which ODS was consolidated and destroyed in the ISO tank during the Project.

GHD identified that cylinders with the following ID's were also included on the Consolidation Report for a previous Project – Tradewater – Thailand 3: TH03278, TH03361, TH03371, TH03374, TH03384, TH03490, TH03533, TH03543, TH03583, TH03623, TH03663, TH03799, TH03911, TH03960, TH03997, TH04004, TH04366, TH04903, TH04915, TH04937, TH04938, TH04948 and TH04962. Tradewater confirmed that the reason for the duplication was that the cylinders were damaged or not ready to be transferred to the ISO tank for destruction during Project Tradewater – Thailand 3, and were repaired for the current Project Tradewater – Thailand 5, and the ODS was able to be transferred and destroyed. GHD verified that all damaged cylinders were associated with a 0 or <0.1 kg net weight on the Consolidation Report for Tradewater – Thailand 3, and a

reasonable net weight for a repaired cylinder on the Consolidation Report for the current Project, Tradewater – Thailand 5.

GHD assessed the current Project's Consolidation Report for weight abnormalities and identified two cylinders (ID TH09426 and TH09427) with net weights that were unreasonable for cylinders in good condition with weights at 0 kg and 0.38 kg. Tradewater confirmed that abnormal cylinders are typically removed during generation of the Consolidation Report, and were included in error for Tradewater – Thailand 5. GHD assessed that it is an immaterial qualitative error that does not impact emissions reductions calculations. GHD observed that consistent with previous Tradewater – Thailand projects, there is also a large variation in the net weights of cylinders destroyed, as provided on the Consolidation Report. Tradewater indicated that this corresponds to the original state of the cylinders, where several are originally found to contain low amounts of material.

16.4.10 Additional

16.4.10.1 Legal Requirement Test

Under the Methodology, the Project Proponent must demonstrate that the emission reductions achieved by a project using this Methodology must exceed those required by any law, regulation or legally binding mandate.

There is no mandate in Thailand that requires the destruction of ODS. Thus, all emission reductions resulting from the Project are considered to be not legally required, and therefore are eligible for crediting.

16.4.10.2 Performance Standard Evaluation

As the Project meets the ODS project definition and all other eligibility requirements in the Methodology, then the performance standard evaluation is satisfied.

16.4.11 Regulatory Compliance

GHD reviewed the following information to confirm that WMS Destruction Facility was in regulatory compliance during the reporting period:

The WMS destruction facility is regulated by the Industrial Estate Authority of Thailand (IEAT). GHD reviewed the following information to confirm that the facility was in regulatory compliance during the reporting period:

- BPEC Permit: Letter of Permission for Land Utilization and Business Operations in Industrial Estate Under the Industrial Authority of Thailand Act B.E. 2522 (1979), Permit Number 2-02-1-109-81584-2565 (2022), Industrial Estate Authority of Thailand, December 29, 2022. Effective January 1, 2023.
- BPEC Permit for waste residue stream: Waste or Unused Material Transferred Onsite to Disposal Permit, January 22, 2023, Valid February 26, 2023 to February 25, 2024, Permit Number 6501-334, Department of Industrial Waste.
- The Report of Changes in the Project in the Report of Environmental Impact Assessment for Projects, Business, or Operations Which Might Possible To Provide Strongly Impact Natural Resources, Environment Quality, Health, Sanitation, Well-Being Of People In The Community. Central Waste Treatment (1st extension) (2nd).

GHD confirmed that the most recent BPEC permit provided by Tradewater, dated December 29, 2022, was applicable to the current ODS destruction Project. The permit is valid until the BPEC ownership of land possessory is terminated.

GHD confirmed that the BPEC permit for waste residue stream had expired on February 25, 2023 and the renewed permit was provided, that is applicable to the reporting period. The permit is relevant to this Project in authorizing the transport of the waste to the WMS/BPEC warehouse in preparation of destruction for the original shipments from the Thailand Government Customs Department.

GHD reviewed Section 2: Waste Receiving Capacity for the Fluidized Bed Fixed Combustion Furnace of the above listed Report which indicated that ODS is received at 0.6% of the maximum capacity for the destruction facility at 150 tons/day. Through review of the applicable IEAT permits and reports, GHD confirmed that WMS was in regulatory compliance during the reporting period.

GHD confirmed that Tradewater relied on the 6th CFC DRE Report stack test report conducted in 2020 to determine whether the WMS destruction facility met the 99.99% required DRE during the Project reporting period. The stack test report indicates that the DRE of 99.99% is achieved by the incinerator while operating at a temperature of 850 C. GHD identified that all CEMS data and ODS flow corresponded with incinerator temperatures higher than 850 C.

16.4.12 Permanent

Due to the nature of this Project, there is no risk of reversal. Once the ODS is destroyed, the associated GHG reductions are fixed. As such, GHD verified the emission reductions are permanent as defined in Section 5 of the ACR Standard. As there is no risk of reversal, no further action was required regarding risk mitigation to meet the permanence criteria per the ACR Standard.

16.4.13 Net of Leakage

GHD verified that leakage assessment is not applicable under the ACR Methodology.

16.4.14 Environmental and Community Assessments

As per the GHG Project Plan, Tradewater determined that there are no negative environmental impacts resulting from the Project and that the reduction in emissions from the Project is expected to bring net positive impacts to the local environment and community. GHD confirmed that a mitigation plan was not required to be completed as no negative impacts from the Project were foreseen. GHD verified that the Environmental Assessment form was appropriately completed for the Project.

Tradewater evaluated direct positive impacts towards the United Nations Sustainable Development Goals (SDG) including SDG9 (Industry innovation and infrastructure), SDG12 (Responsible Consumption and Production), and SDG13 (Climate Action) as well as indirect positive impact goals SDG3 (Good health), SDG14 (Life Below Water), and SDG15 (Life on land). GHD verified that the SDG's evaluated were based on the predicted applicable SDGs per Project type (ODS) as generated within the SDG contribution form and that the SDGs were in accordance with the ACR SDG Contributions Reporting Tool. GHD verified that the SDGs included were applicable to the current Project and consistent between the SDG form and GHG Project Plan.

The Project started utilizing the latest ACR Standard (version 8.0) with Project Tradewater – Thailand 4 and onwards. Due to Project Tradewater – Thailand 5 using the latest ACR Standard, the Project was subject to a 30-day public comment period. Tradewater confirmed that no comments were received during the public comment period and GHD did not review any comments.

16.5 Double Issuance, Double Selling and Double Use of Offsets

GHD confirmed that the Project is not claiming emission reductions on another GHG registry or platform by checking other registries as per Section 10.A of the ACR Standard. GHD reviewed the following registries to confirm this:

- Climate Action Reserve
- Verra

In addition, GHD reviewed other offset programs (such as Climate Forward) and confirmed that the project was not claiming other environmental assets elsewhere. Per the ACR Standard, the Project Proponent is required to disclose any other registrations of the Project.

GHD also verified ownership of the Facility as outlined in Sections 8.3.1-8.3.4 to verify that no double-claiming of emission reductions may occur as per Section 10.B of the ACR Standard.

16.6 QA/QC Data Management Systems, and Document Retention

Summary of Data Management Procedures

The destruction facility monitors and records destruction parameters in the CEMS data system which collects data per hour. Parameters including pressure and flow rate are monitored continuously on a separate stage of the furnace for gaseous substances such as ODS and this is collected every half hour. On-site personnel monitor destruction in order to prevent any occurrences of errors, exceedances, or other impacts to the project.

Scales used for determining weight of ODS are calibrated periodically by third-party, with requirement by Thai government for recalibrations every two years. Additionally, the weigh scales are inspected and calibrated quarterly to 5% accuracy in accordance with the ACR protocol.

WMS undergoes annual procedure reviews and required readings. Qualified technicians are constantly monitoring the emission levels during burns. The destruction facility is regulated by the Industrial Estate Authority of Thailand (IEAT). Tradewater reviews all paperwork to ensure that it satisfies protocol requirements.

WMS has retention policy up to lifetime of facility. All documents are stored physically and digitally backed-up. Tradewater has a retention policy of 15 years. Documents are stored on a third-party cloud system that is backed up on a regular basis, with hard copies saved on-site wherever possible.

Sampling is conduced by WMS before destruction by a technician who is unaffiliated with the Project Proponent and is trained in the sampling process. Sample is taken with a clean, fully evacuated sample bottle that meets applicable DOT requirements and is over one pound at liquid state. The sample is individually labeled, tracked, with the required information recorded on the ODS Sampling Certificate per the ACR Methodology. Samples are sent to Bureau Veritas Belgium, an ISO/IEC 17025-certified lab where project samples are analyzed to confirm the mass percentage and identification of each component of the sample.

Assessment of Procedures

Based on discussions with Project personnel and GHD's review of the supporting documentation, the Project Proponent retains all GHG information and supporting documentation required by the ACR Standard at the Project Site for a minimum of 12-years. GHD reviewed the sampling and weighing procedures conducted by the facility and confirmed that they conformed to the ACR Methodology and that all required documentation requirements were met.

GHD reviewed the weigh scale calibration conducted by Siam Scales & Engineering Co. Ltd. on June 21, 2023. and confirmed that the scale (SN. 050240314, ID No. 006-48) was calibrated to 5% accuracy. GHD confirmed that the scale was calibrated again on October 16, 2023 after the reporting period and that the weigh scale is inspected and calibrated at quarterly intervals in accordance with the ACR Methodology. The Thai government also has a requirement for recalibrations every two years. Based on GHD's review the data management procedures at the Facility are robust and in accordance with the ACR Standard.

17. Validation/Verification of Quantification Methods

17.1 Activity Data

Tradewater calculated emissions using activity data for the Project Period. The activity data consisted of the following parameters:

- Weight of ODS Destroyed
- Composition of Batch make-up

GHD reviewed the Project Proponent's documentation and procedures to determine conformance with the requirements of ACR Standard and the Methodology. Data checks included all documents as detailed in Appendix B.

GHD identified that the ODS Sampling Certificate contained a mass amount where a volume was required for the 'volume of container sampled' section. Tradewater updated the document to include the volume of the ISO tank in units of litres.

17.2 Assessment of the Emission Reduction Calculations

The following summarizes the emissions calculations completed by Tradewater and verified by GHD, and presents any material and immaterial discrepancies that GHD identified during the validation/verification.

GHD reviewed the emission factors and calculation methodologies used by Tradewater to verify if they were in accordance with the ACR Methodology and ACR Standard. In addition, GHD performed independent calculations of the emissions to determine if there were any discrepancies, omissions or misreporting that could result in an offset material misstatement in the total reported emissions.

17.2.1 Weight of ODS Destroyed

GHD performed a re-calculation of the weight of ODS sent for destruction using the ACR-approved deviation methodology and weight calculation and identified no discrepancies. GHD confirmed that the determined ODS weight was used appropriately to determined project and baseline emissions and emissions reductions. GHD identified a one hour period at the start of destruction where feeding of ODS is positive at 15 kg/hour, however other CEMs data parameters are not recorded. As continuous monitoring of CEMs data is a requirement per the Protocol, GHD re-calculated emissions reductions excluding the ineligible ODS flow and identified that it would result in a 0.08% reduction in the original emissions reductions, which is less than the materiality threshold of 5%.

17.2.2 Project Emissions

GHD reviewed the calculation methodology used by Tradewater and found it to be in accordance with the ACR Methodology. The Project Proponent utilized Equations 3, 4 and 5 from the ACR Methodology to calculate Project Emissions. GHD reviewed the refrigerant sample analysis reports as certified by the laboratory to confirm composition. GHD reviewed mass determination procedures and the mass used in Tradewater's calculations. Per the ACR Methodology, Tradewater has removed mass applicable to the high boiling residue, moisture, and ineligible ODS (as determined by the laboratory analysis).

During the validation/verification of the Project, ACR provided an Errata and Clarifications for the current version (1.0) of the ACR methodology including an updated AR5 value for the substitute refrigerant parameter for Projects involving a vintage year beyond 2021, as used in the project emissions calculations. The parameter increased from 686 MT CO2e/MT ODS, as used for the previous four Tradewater Thailand projects, to 812 MT CO2e/MT ODS. This resulted in a 17% increase in project emissions from Project Tradewater – Thailand 4. Similar to all previous projects, Tradewater used the unchanged default emission factor for ODS transportation and destruction per the ACR Methodology.

GHD performed an independent calculation of project emissions and found no discrepancy to Tradewater's GHG Assertion, Monitoring Report and GHG Project Plan.

17.2.3 Baseline Emissions

GHD reviewed the calculation methodology used by Tradewater and found it to be in accordance with the ACR Methodology. The Project Proponent utilized Equation 2 from the ACR Methodology to calculate Baseline Emissions. GHD reviewed the refrigerant sample analysis reports as certified by the laboratory to confirm composition. GHD reviewed mass determination procedures and the mass used in Tradewater calculations.

Per the ACR Methodology, Tradewater has removed mass applicable to the high boiling residue, moisture, and ineligible ODS (as determined by the laboratory analysis).

During the validation/verification of Project Tradewater – Thailand 4, Tradewater confirmed with ACR that the 100-year global warming potential (GWP) for the R-12 refrigerant as listed in the April 2021 version 1.0 of the ACR ODS methodology was the AR4 value and that an updated AR5 should be used for Projects involving a vintage year beyond 2021, in accordance with ACR Standard version 7.0 and 8.0. During the validation/verification of the current Project, ACR provided an Errata and Clarifications for the current version (1.0) of the ACR methodology with updated AR5 values for the 100-year GWP for eligible refrigerants including R-12. The parameter decreased from 10,900 MT CO2e/MT ODS, as used for the previous four Tradewater Thailand projects, to 10,239 MT CO2e/MT ODS. This resulted in a 7.2% decrease in baseline emissions from Project Tradewater – Thailand 4. Tradewater used the unchanged 10-year cumulative emission rate for R-12 of 95% per the ACR Methodology.

GHD performed an independent calculation of baseline emissions and found no discrepancy to Tradewater's GHG Assertion, Monitoring Report and GHG Project Plan.

18. Monitoring Plan

GHD reviewed the monitoring plan for this Project and determined that the parameters monitored and the approach taken by the Project Proponent to determine the emission reduction conforms to the ACR Methodology.

Per Section V (2) of the Monitoring Report, the following information should be included and documented in the Monitoring Plan:

- Personnel names and roles/responsibilities for each party involved in monitoring the offset project
- Description of the GHG management system employed including:
 - The location and recordkeeping/retention requirements for all stored data
 - · Methods used to generate data
 - Transfer points and methods of non-automated transfer of data
- Calibration procedures and the frequency with which calibration and other maintenance requirements are performed
- Internal audit and other quality assurance/quality control procedures
- Sampling methods utilized and performed during the reporting period

Per Section 6.1 of the ACR Methodology the following information should be included and documented as part of project Monitoring (excluding those items not applicable to this specific project):

- Source of ODS including owner, physical address, serial or ID number of containers and additional information as applicable.
- Chain of custody and ownership of the ODS including contact information and mass of ODS.
- For projects destroying ODS sourced from government stockpiles or inventories, the Project Proponent must maintain documentation that the ODS is not required to be destroyed or converted.
- Composition and mass analysis information including sample time and date, name of Project Proponent
 and technician taking sample, employer of technician taking sample, volume of sample container, ambient
 air temperature and sampling chain of custody.
- Information from the destruction facility on parameters of destruction including feed rate, operating temperature and pressure, effluent discharge and emissions of carbon monoxide during destruction (if applicable).

- Information showing conformance with the procedures in Appendix B: ODS Mass and Composition –
 Quantification Methodology of the ACR Methodology.
- Evidence of minimum quarterly inspections for scales per and calibrations per an RCRA permit, or for non-RCRA facilities, calibrated at least quarterly to 5% or better accuracy.
- Retention of documentation including all data inputs for emission reductions calculations including sampled data, project-related regulatory permits, destruction facility monitoring and maintenance information, chain of custody and sourcing documentation and ODS composition and mass determinations.

GHD reviewed the Monitoring Plan and confirmed that the above information was included as required per the ACR Methodology.

18.1 Parameters to be Monitored

The following parameters have been monitored by Tradewater:

| Parameter | Regulatory Surplus Test |
|----------------------|---------------------------------------------------------------------------------------------------------------------------|
| Unit | N/A |
| Description | Emissions reductions achieved through this project and methodology must not be required by any existing law or regulation |
| Methodology Section | Section 3.3.1 |
| Source of Data | Thailand Customs Department and The National Ozone Protection Division from the Department of Industrial Works (DIW) |
| Data uncertainty | Low |
| Monitoring Frequency | Once per project |
| Reporting Procedure | Review of existing laws around ODS refrigerant management |
| QA/QC | Regular review of current laws and regulations surrounding ODS refrigerants, particularly CFCs |

| Parameter | Mass of ODS mixture in each container |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Unit | Kilograms |
| Description | The total quantity of ODS refrigerant in a container. |
| Methodology Section | Section 5.1 of Methodology |
| Source of Data | Manual weight tickets taken pre and post destruction for each individual container |
| Data uncertainty | Low |
| Monitoring Frequency | Once per project |
| Reporting Procedure | Gross weight of cylinders using calibrated scale, taken before and after destruction |
| | Tradewater received a deviation from the procedure for containers weighed with the transportation vehicle included, when the vehicle utilized is the same when weighing before destruction and after destruction, following the procedure detailed below. |
| | Before destruction: |
| | Weigh the truck attached to the full ISO tank when arriving to the destruction facility (Inbound weight) |

| Parameter | Mass of ODS mixture in each container | |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| | Weigh the truck immediately after detaching the full ISO tank to obtain the tare truck weight (inbound tare weight) | |
| | After destruction: | |
| | Weigh the truck when it arrives at the destruction facility, immediately before attaching the empty ISO tank to obtain the tare weight (outbound tare weight) | |
| | Weigh the truck attached to the empty ISO tank (outbound weight) | |
| | With this information, the amount of ODS destroyed will be calculated as follows: | |
| | ODS destroyed = (Inbound weight – inbound tare weight) – (outbound weight – outbound tare weight). | |
| QA/QC | Scale calibrations, CEMs data confirms destruction parameter throughout process | |

| Parameter | Concentration of ODS mixture in each container |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Unit | Percent |
| Description | The distribution of ODS refrigerant in each container (along with any other contaminants, moisture, or HBR) |
| Methodology Section | Appendix C of Methodology |
| Source of Data | Sample data via lab analysis provided by an ISO 17025 certified third-party laboratory |
| Data uncertainty | Low |
| Monitoring Frequency | Once per project |
| Reporting Procedure | Lab analysis report |
| QA/QC | Composition and concentration are analyzed at an ISO 17025-certified laboratory that is not affiliated with the project proponent using the AHRI Standard 700. |

| Parameter | Q _{refr,i} |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Unit | MT |
| Description | The total weight of ODS refrigerant sent for destruction (excluding any other contaminants, moisture, or HBR) |
| Methodology Section | Section 5.1 of Methodology |
| Source of Data | Weight tickets taken both pre- and post-destruction coupled with lab analysis |
| Data uncertainty | Low |
| Monitoring Frequency | Once per project |
| Reporting Procedure | Net weight of cylinders using calibrated scale. Tradewater received a deviation from the procedure for containers weighed with the transportation vehicle included, when the vehicle utilized is different when weighing before destruction and after destruction, following the procedure detailed below. Before destruction: • Weigh the truck attached to the full ISO tank when arriving at the destruction facility (Inbound weight) • Weigh the truck attached to the empty ISO tank to obtain the truck tare weight (inbound tare weight) After destruction: • Weigh the truck when it arrives at the destruction facility, immediately before attaching the empty ISO tank to obtain the tare weight (outbound tare weight) |
| | weight) Weigh the truck attached to the empty ISO tank to obtain the truck tare weight (inbound tare weight) After destruction: Weigh the truck when it arrives at the destruction facility, immediately before attaching the empty |

| | Parameter | Q _{refr,i} | |
|-----------------------------------------------------------------------------------|-----------|---------------------------------------------------------------------------------------------------------------------------------|--|
| With this information, the amount of ODS destroyed will be calculated as follows: | | , | |
| L | | ODS destroyed = (Inbound weight – inbound tare weight) – (outbound weight – outbound tare weight). | |
| | QA/QC | Scale calibrations; CEMs data confirms destruction; lab analysis confirms mass percentage and identification of ODS refrigerant | |

| Parameter | Qops |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Unit | MT |
| Description | The total quantity of ODS refrigerant (including the mass of all eligible and ineligible ODS, moisture, HBR, and other accompanying material), transported to the destruction facility. |
| Methodology Section | Section 5.2 of Methodology |
| Source of Data | Weight tickets taken both pre- and post-destruction coupled with lab analysis and quantifications |
| Data uncertainty | Low |
| Monitoring Frequency | Once per project |
| Reporting Procedure | Net weight of cylinders using calibrated scale; lab analysis |
| QA/QC | Scale calibrations performed CEMs data confirms destruction; lab analysis confirms mass percentage and identification of ODS refrigerant |

A summary of the Findings/Issues Log is provided in Appendix C of this Validation/Verification Report.

18.2 Summary of Errors, Omissions, Misstatements or Non-Compliances Identified

Quantitative materiality for GHG emissions reductions for the verification was set at plus or minus 5 percent of the total reported emissions reductions. The quantitative aggregated magnitude of offset errors, omissions, and misstatements for the emissions reductions within the Project Plan and Monitoring Report is 0.0%, percent, which is less than the materiality threshold of 5 percent.

Materiality was also assessed on a qualitative level, including conformance with the applicable Program and Protocol requirements. The Project received approval for a deviation from the ACR Methodology for the calculation of the weight of ODS destroyed, as measured using truck weigh scales. GHD reviewed the approved deviation request and identified no qualitative discrepancies.

18.3 Corrections Made to Project Plan and Monitoring Report

GHD requested the Client to make changes to the Project Plan and Monitoring Report based on the issues identified in the Validation/Verification Findings. Changes made included:

- Updating reported emissions reductions to be consistent between the GHG Project Plan, Monitoring Report and ACR portal
- Updating qualitative issues identified within GHD Project Plan, Monitoring Report, Environmental Assessment form and SDG Contributions form
- Updating qualitative issues identified with ODS Sampling Certificate and Consolidation Report
- Updating all documentation to be in accordance with ACR Standard version 8.0 criteria

18.4 Follow up on Issues from Previous Validation/Verification

GHD has reviewed the issues from the previous Project Tradewater – Thailand 4's validation/verification report. There were no issues from the previous validation/verification report that required follow-up.

18.5 GHG Data and Information

The data and information obtained during the validation/verification is listed in Appendix B.

19. Validation/Verification Opinion

GHD has prepared this Validation/Verification Report for Client and Program. Client was responsible for the preparation and fair presentation of the Project Plan dated November 20, 2023 and Monitoring Report dated December 12, 2023 for Tradewater - Thailand 5 in accordance with the Program criteria and engaging with a qualified third-party validator/verifier to validate the Project Plan and verify the Monitoring Report. Project GHG-related activity is detailed in Section 8.

GHD's objective and responsibility was to provide an opinion regarding whether the Project Plan and Monitoring Report for the Project was free of material misstatement and that the information reported is a fair and accurate representation of the operations for the Project, and accurate and consistent with the requirements of the Program.

The criteria used by GHD for the validation/verification of the Project Plan and Monitoring Report is detailed in Section 5. GHD completed the validation/verification of the Project Plan and Monitoring Report in accordance with ISO 14064-3:2019. GHD completed the validation/verification to a reasonable level of assurance.

The Validation/Verification Opinion is provided as Appendix D.

20. Limitation of Liability

Because of the inherent limitations in any internal control structure, it is possible that fraud, error, or non-compliance with laws and regulations may occur and not be detected. Further, the validation/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 validation/verification has not been performed continuously throughout the period and the procedures performed on the relevant internal controls were on a test basis. Any projection of the evaluation of control procedures to future periods is subject to the risk that the procedures may become inadequate because of changes in conditions, or that the degree of compliance with them may deteriorate.

This validation/verification was based on a risk-based approach that follows rigorous methodology with the expectation that it will capture the majority of errors with the potential for a material misstatement. However, GHD does not warrant or guarantee that all errors or omissions, including material issues, made by Client in its Project Plan and/or assertion and Monitoring Report were identified by GHD.

The validation/verification opinion expressed in this report has been formed on the above basis.

GHD's review of the Project Plan and Monitoring Report included only the information discussed above. While the review included observation of the systems used for determination of the Project Plan and Monitoring Report, GHD did not conduct any direct field measurements and has relied on the primary measurement data and records provided by Client as being reliable and accurate. No other information was provided to GHD or incorporated into this review. GHD assumes no responsibility or liability for the information with which it has been provided by others.

The information and opinions rendered in this report are exclusively for use by Client. GHD will not distribute or publish this report without Client's consent except as required by law or court order. The information and opinions expressed in this report are given in response to a limited assignment and should only be evaluated and implemented in connection with that assignment. GHD accepts responsibility for the competent

performance of its duties in executing the assignment and preparing this report in accordance with the normal standards of the profession but disclaims any responsibility for consequential damages.

Should you have any questions on the above, please do not hesitate to contact us.

Regards

Gord Reusing Lead Validator/Verifier

+1 519 340-4231 gordon.reusing@ghd.com

Encl.

Copy to: Angela Kuttemperoor, GHD

Veren lides

Deacon Liddy Independent Reviewer

+1 778 229-3370 deacon.liddy@ghd.com

Appendices

Appendix A

Validation/Verification Plan

455 Phillip Street, Unit 100A Waterloo, Ontario N2L 3X2 Canada www.ghd.com



Our ref: 12588069-LTR-5

25 October 2023

Ms. Adriana Vargas Corrales Verification and Logistics Associate Tradewater, LLC San Jose, Costa Rica

Validation and Verification Plan
Tradewater – Thailand 5 (ACR924), Tradewater, LLC, Samutprakarn, Thailand under ACR

Dear Ms. Corrales

1. Introduction

Tradewater, LLC (Client) retained GHD Services Inc (GHD) to undertake a validation/verification of the Tradewater - Thailand 5 Offset Project (Project) for the August 8, 2023 - September 28, 2023 reporting period. The Project, involving the destruction of Ozone Depleting Substances (ODS) is located at the Waste Management Siam Company Ltd (WMS) destruction facility in Samutprakarn, Thailand and follows the requirements of ACR (Program). The Project has been listed with ACR and the ACR ID is ACR924.

The Program requires the validation of the Greenhouse Gas Project Plan (Project Plan) for each Project and verification of the Project Monitoring Report (Monitoring Report) for each reporting period by an independent third-party accredited under *ISO 14065 Greenhouse Gases – Requirements for greenhouse gas validation and verification bodies for use in accreditation or other forms of recognition* (ISO 14065). GHD is an ACR-recognized greenhouse gas (GHG) Validation/Verification Body (VVB). GHD is accredited by ANAB under ISO 14065 as a greenhouse gas validation and verification body (VVB).

ACR defines validation as "the systematic, independent, and documented process for the evaluation of a GHG Project Plan against applicable requirements of the ACR Standard, the applicable ACR-approved methodology, and any other applicable audit criteria."

ACR defines verification as "the systematic, independent, and documented process for the evaluation of a GHG assertion against specific criteria. The verification process is intended to assess the degree to which a project has correctly quantified net GHG reductions or removals per the validated GHG Project Plan and correctly utilizes ACR methodologies and tools. A successful verification provides reasonable assurance that the GHG assertion is without material misstatement."

GHD has prepared this Validation and Verification Plan in accordance with ISO Standard *ISO 14064* Greenhouse gases - Part 3: Specification with guidance for the validation and verification of greenhouse gas assertions (ISO 14064-3:2019) and with the Program requirements.

2. Validation and Verification Objective

The objective of the validation is to provide the Client and Program with an opinion on whether the Project Plan for the Project is free of material misstatement and that the information reported is accurate and consistent with the requirements of the Program and applicable Methodology.

The objective of the verification is to provide the Client and Program with an opinion on whether the Monitoring Report for the reporting period is free of material misstatement and that the information reported is accurate and consistent with the requirements of the Program.

3. Level of Assurance

The ACR does not specify a level of assurance for the validation. If a validation statement can be provided, it will be worded in a manner similar to "Based on the procedures undertaken, it is our opinion that the Project Plan conforms to the requirements outlined in the ACR Standard and applicable Methodology".

The verification will be conducted to a reasonable level of assurance. If a verification opinion can be provided, it will be worded in a manner similar to "Based on the procedures undertaken, it is our opinion that the assertions in the Monitoring Report are materially correct and the Monitoring Report fairly represents the eligibility, methodology and other requirements of the Program applicable to the Project."

4. Validation and Verification Standards

For the validation and verification, GHD will apply ISO 14064-3:2019 and the Program validation and verification standards.

5. Validation and Verification Criteria

GHD will apply the following validation and verification criteria:

- ISO 14064 Greenhouse gases Part 2: Specification with guidance at the project level for quantification, monitoring and reporting of greenhouse gas emission reductions or removal enhancements, ISO, April 2019 (ISO 14064-2)
- ISO 14064 Greenhouse Gases Part 3: Specification with guidance for the verification and validation of greenhouse gas statements, ISO, April 2019 (ISO 14064-3)
- International Accreditation Forum Mandatory Document for the Use of Information and Communication Technology for Auditing/Assessment Purposes: Issue 2, July 2018 (IAF MD 4: 2018)
- The ACR Standard, Requirements and Specifications for the Quantification, Monitoring, Reporting,
 Verification, and Registration of Project Based GHG Emissions Reductions and Removals, Version 8.0,
 dated July 2023 (ACR Standard) *
- The ACR Validation and Verification Standard, Version 1.1, dated May 2018 (ACR V/V Standard)

 Methodology for the Quantification, Monitoring, Reporting and Verification of Greenhouse Gas Emissions Reductions and Removals from the Destruction of Ozone Depleting Substances from International Sources, Version 1.0, dated September 2021 (ACR Methodology) *

Note:

* - Denotes change from Proposal

6. Validation and Verification Team and Independent Reviewer

6.1 Roles and Responsibilities

Lead Validator/Verifier/Technical Expert – **Gordon Reusing** – Mr. Reusing will lead the validation and verification and is responsible for development of the validation and verification plan. Mr. Reusing will review the risk assessment and evidence gathering plan, recalculation of raw data, data management and draft findings. Mr. Reusing will prepare and sign the validation and verification statement and validation and verification report.

Co-Lead Validator/Verifier/Technical Expert – **Anothai Setameteekul** – Ms. Setameteekul will lead the validation and verification and is responsible for development of the validation and verification plan. Ms. Setameteekul will review the risk assessment and evidence gathering plan, recalculation of raw data, data management and draft findings. Ms. Setameteekul will prepare and sign the validation and verification statement and validation and verification report. Ms. Setameteekul will conduct a remote site visit of the Project site.

Validator/Verifier – Angela Kuttemperoor – Ms. Kuttemperoor will develop and revise the validation and verification plan and evidence gathering plan, develop a risk assessment, recalculate raw data, review management of data, and prepare draft findings and the draft validation and verification report.

Independent Reviewer/Technical Expert – **Deacon Liddy** – Mr. Liddy will conduct an independent review of the risk assessment, evidence gathering plan, working papers, validation and verification plan, validation and verification report, and findings. Mr. Liddy will approve the issuance of the opinion.

6.2 Qualifications

Gordon Reusing, M.Sc., P. Eng. – Mr. Reusing is a greenhouse gas (GHG) Lead Verifier, Lead Validator, and Peer Reviewer with extensive experience including GHG programmes in Alberta, British Columbia, Saskatchewan, Ontario, Quebec, Nova Scotia, California, and programmes operated by the United Nations Framework Convention on Climate Change (UNFCCC) Clean Development Mechanism (CDM), The Gold Standard, The Climate Registry (TCR), the Carbon Disclosure Project (CDP), and Verra: Verified Carbon Standard (VCS). He has completed numerous GHG quantification studies for the oil and gas sector, including upstream, midstream and downstream facilities. Mr. Reusing has conducted GHG verifications as a Lead Verifier, Technical Expert and Peer Reviewer in many jurisdictions, including, but not limited to, British Columbia, Alberta, Ontario, Quebec, and Nova Scotia.

Anothai Setameteekul, P. Eng. – Ms. Setameteekul is a GHG and Air Emissions Engineer based in GHD's Calgary office and is a licensed Professional Engineer in the provinces of Alberta and Saskatchewan. She has extensive knowledge and experience in GHG quantification and verification in particular industrial facilities – Oil Sands (In Situ, Mining, Upgrader operations), Hydrogen Production, Petrochemical, Cement, Refinery, Natural Gas Processing, Natural Gas Power Generation with Cogeneration, and Steel Manufacturing. She is familiar with the GHG Regulation in Canadian jurisdictions including British Columbia, Alberta and Ontario.

Ms. Setameteekul is also accredited by the California Air Resource Board as a lead verifier of greenhouse gas

emissions for Oil and Gas system, process emissions sectors, fuel pathways, alternative fuel transactions and petroleum based fuel report. Ms. Setameteekul is also accredited by the Washington State as a verifier. Ms. Setameteekul also has experience working in the accreditation audit process for GHD by ANAB, and has training and knowledge of the ISO 14064 and ISO 14065 standards.

Ms. Setameteekul graduated with a Masters degree in Industrial System Engineering from the University of Regina. Ms. Setameteekul worked as a research assistant in International Testing Center for CO₂ Capture (ITC). Her work was related to CO₂ capture using chemical absorption process. Ms. Setameteekul also worked as a process engineer to evaluate process performance such as process efficiency, air emissions, liquid effluent, waste, and utility consumption at a carbon capture test facility.

Angela Kuttemperoor, E.I.T. – Ms. Kuttemperoor is an Air Engineer-In-Training with GHD's Greenhouse Gas Assurances Services Team and has 2 years of experience in greenhouse gas verification work.

Ms. Kuttemperoor has a Bachelor's of Environmental Engineering (co-op) from the University of Guelph.

Ms. Kuttemperoor has experience as a verifier under the Ontario Emissions Performance Standards program and federal Output-based Performance Standards program. Ms. Kuttemperoor has expertise in voluntary offset project validations and verifications conducted under the Climate Action Reserve, ACR and Verified Carbon Standard for landfill gas destruction and ozone-depleting substances destruction projects. Ms. Kuttemperoor has experience with compliance offset verifications for ozone-depleting substances conducted under the California Air Resources Board. Ms. Kuttemperoor has experience in verifications conducted under the Carbon Offsetting and Reduction Scheme for International Aviation.

Deacon Liddy, P. Eng. – Mr. Liddy is a Principal with GHD and an experienced GHG validator and verifier, having completed over 100 GHG validation/verifications with 17 years of experience. Mr. Liddy works with large industrial facilities, Provincial governments, and offset project developers to complete risk-based verifications. Mr. Liddy has been the lead verifier for completion of greenhouse gas verifications conducted on behalf of Alberta Environment for emission offset projects for landfill gas, biomass, tillage, composting and fuel switching for lumber kilns. Mr. Liddy has completed verifications of greenhouse gas emission intensity baseline applications and annual compliance reports under the Alberta Specified Gas Emitters Regulation and British Columbia Mandatory Reporting Regulation. Mr. Liddy is a professional engineer in BC, Alberta, and Saskatchewan.

7. Project Description

The Project involves the destruction of eligible ODS refrigerant obtained from the Government of Thailand's Customs Department where ODS had been stockpiled since 2007. The ODS material is aggregated at the WMS Warehouse, prior to transport to the WMS destruction facility in Samutprakarn, Thailand. The ODS is transferred from small cylinders to a larger ISO tank, where the ODS is destroyed using fluidized bed incineration technology. Truck scales are used to determine the weight of ODS destroyed by weighing the trucks arriving and departing from the destruction facility. Tradewater utilizes a methodology deviation for the ODS weighing procedure. WMS personnel conduct sampling of the ODS and composition analysis occurs at a third-party lab in Belgium, Bureau Veritas Commodities Antwerp N.V. The weight and ODS composition of the ODS is used to determine the carbon credits generated by the Project. A secondary procedure is used for measuring the weights of the small cylinders of ODS using electronic balances, that are aggregated and destroyed in the larger ISO tanks. From this procedure, a Consolidation report is generated which is used as the offset title for the Project. WMS transfers ownership of the ODS cylinders and ownership of all carbon credits generated from the Project to Tradewater.

7.1 Client Contact

Ms. Adriana Vargas Corrales, Mr. Tip Stama and Ms. Gina Sabatini are GHD's contacts at Tradewater for this validation and verification.

8. Validation and Verification Scope

The following sections describe the scope of the validation and verification.

8.1 Project Boundary

The Project is broken down into the following greenhouse gas Sources, Sinks and Reservoirs (SSRs) to be included or excluded, as defined in the Program's Methodology:

Baseline:

SSR 6 – Emissions from ODS from use, leaks and servicing through continued operation of equipment –
 (ODS)

Project:

- SSR 5 Transport to Destruction Facility Carbon Dioxide (CO₂)
- SSR 6 Emissions of substitute from use, leaks and servicing through continued operation of equipment CO₂e
- SSR 7:
 - Emissions from ODS from incomplete destruction at destruction facility (ODS)
 - Emissions from the oxidation of carbon contained in destroyed ODS (CO₂)
 - Fossil fuel emissions from the destruction of ODS at destruction facility (CO₂)
 - Indirect emissions from the use of grid-delivered electricity (CO₂)

8.2 Geographical and Operational Boundaries

The validation and verification will include the SSRs from the Project located at the following address:

Waste Management Siam Company LTD Destruction Facility 965 Moo 2 Soi 3B Bangpoo Industrial Estate Sukhumvut Rd Bangpoo Mai Muang Samutprakarn Samutprakarn 10280 Thailand

8.3 Reporting and Crediting Period

The start date for the Project is August 8, 2023. The crediting period is from August 8, 2023 - August 7, 2033.

The reporting period for this validation and verification for the Project is from August 8, 2023 - September 28, 2023.

8.4 Project Deviations

The Project is expected to seek an ACR Methodology deviation for the Project for the ODS weighing procedure for weighing the trucks carrying the ODS.

8.5 Use of this Report

The validation and verification report will be prepared for the use of Client and the Program.

References from GHD's Validation and Verification Report must use the language in which the opinion was issued, and reference the date of issuance of GHD's Validation and Verification Report, the applicable validation and verification period and the associated program for which the validation and verification was conducted. The GHG assertion provided by GHD can be freely used by Client for marketing or other purposes other than in a manner misleading to the reader. The GHD mark shall not be used by Client in any way that might mislead the reader about the validation and verification status of the organization. The GHD mark can only be used with the expressed consent of GHD and then, only in relation to the specific time period validated and verified by GHD.

8.6 Use of Information and Communication Technology

As part of the validation and verification process, GHD may utilize information and communication technology (ICT) in accordance with IAF Mandatory Document for the use of Information and Communication Technology for Auditing/Assessment Purposes (IAF MD 4:2018) for various aspects of the validation and verification, including conducting video/tele-conferencing with various personnel up to full virtual site visits.

The decision to use ICT is permissible if GHD and Client agree on using ICT. The agreed ICT method will be MS Teams, Skype, Zoom, Google Meet, or Webex. By accepting GHD's proposal, Client agreed to the use of the afore mentioned ICT methods and their associated information security, data protection and confidentiality measures. Any other ICT method(s) will be agreed to in writing (email) between GHD and Client prior to use. The parties will not agree to the use of an ICT method which either party does not have the necessary infrastructure to support. Throughout the entire validation and verification process, including use of ICT, GHD will abide by the confidentiality procedures.

9. Site Visits

9.1 Site Visit Requirements

Project validations require a site visit as per the Program and the ODS Methodology requires a site visit every calendar year. Clarification was requested from ACR on the timing requirement for the next site visits for Tradewater ODS projects in Thailand. Mr. Megesh Tiwari from ACR confirmed in an email dated August 18 2023, that GHD is not required to conduct an in-person site visit for the remainder of 2023 due to the following:

- The project for which GHD attended the site visit in-person, Thailand 1, spanned 2022 and 2023 and therefore "counts" as the VVB's in person attendance for 2023
- GHD is the same verifier for all 5 projects and have attended virtual site visits for Thailand 2 and 3 (and expect to attend virtually for Thailand 4 and 5)
- The new VVB that we will cycle in for Thailand 6, to occur in December 2023, will attend in-person as required

During the validation and verification of Tradewater International – Thailand 1.0, GHD conducted an in-person site visit to the destruction facility in November 2022. For Tradewater – Thailand 5 GHD will conduct a remote site assessment. GHD understands that ACR will attend the site visit for Tradewater – Thailand 5.

9.1.1 Remote Site Assessment

Per guidance from ACR during the verification of Thailand #2, a remote site visit is required when an in-person site visit is not completed for the Tradewater Thailand ODS offset projects.

Virtual site visits must be conducted in accordance with the Regulation, International Accreditation Forum Mandatory Document for the Use of Information and Communication Technology for Auditing/Assessment Purposes: Issue 2 (IAF MD 4:2018), and any related guidance.

9.2 Site Visit Agenda

The site visit, if applicable, will generally adhere to the following agenda. Deviations from the proposed agenda may be necessary to respond to data gaps and or issues identified during the validation and verification process:

- Opening Meeting Introduction and sign in, safety review, and overview of validation and verification process and expectations (key personnel need to be present).
- Overview of emissions processes at the Project site, including description of key emission sources and a facility walkthrough.
- Assessment of eligibility and additionality criteria against the Project and Project boundary.
- Review of monitoring practices, quality control and quality assurance procedures, GHG data and emission calculations, and any activities that have a potential to impact materiality.
- Review of meter calibration certificates and accuracy specifications for key meters.
- Interviews with key personnel and review of data acquisition process from meter through distributed control system or transcription and data entry, as applicable.
- Walkthrough to view Project boundaries, physical infrastructure, and equipment and measuring devices.
- Closing Meeting Review issues identified and next steps.

A detailed remote site visit agenda will be prepared by GHD and circulated before the site visit.

10. Validation and Verification Schedule

The following presents a draft validation and verification schedule: The overall validation and verification process is expected to take approximately 4 weeks.

- Submit Validation and Verification Plan to Client October 25, 2023
- Baseline and Project emissions calculations of Project Plan November 2023
- Data checks and recalculations of Emission Report November 2023
- Remote Site Visit October 30, 2023 EST
- Review of data management, document retention and record keeping program November 2023
- Submit issues log to Client and opportunity for Client to address issues and, if required, resubmit Project Plan/Monitoring Report – November 2023
- Independent review by Independent Reviewer Within 2 weeks following resolution of all issues in the Issues Log
- Issue Draft Validation and Verification Report and Statement Within 1 week following completion of the independent review
- Issue Final Validation and Verification Report and Statement November December 2023

11. Strategic Analysis

To understand the activities and complexity of the Project, and to determine the nature and extent of the validation and verification activities, GHD has completed a strategic analysis. The strategic analysis involves consideration of the details of the Project Site and its operations, the Project Plan and Monitoring Report and its preparation, and the validation and verification requirements per the Program. The information considered in the strategic analysis is documented in GHD's working papers and was used to inform the assessment of risks and the development of an evidence gathering plan.

12. Assessment of Risk and Magnitude of Potential Errors, Omissions or Misrepresentations

GHD conducted an assessment of the risk and magnitude of potential errors, omissions or misrepresentations associated with the Project Plan assertion and Monitoring Report statement. GHD then identified areas where qualitative or quantitative errors could occur and assigned risks to the areas. The inherent and control risks were evaluated, and detection risks were established. The risks were identified as high, medium and low. The risk assessment was a key input to developing an effective evidence gathering plan.

13. Evidence-Gathering Plan

GHD has developed an Evidence Gathering Plan (EGP) for internal use based on review of the objectives, criteria, scope, and level of assurance detailed above, along with consideration of the strategic analysis and assessment of risks. The EGP is designed to lower the validation and verification risk to an acceptable level and specifies the evidence (data and information) that will be reviewed as part of the validation and verification in the evidence gathering activities. The EGP was reviewed and approved by the Lead Validator and Verifier prior to issuing this verification plan. The EGP is dynamic and will be revised, as required, throughout the course of the verification. Any modifications to the EGP will be reviewed and approved by the Lead Validator and Verifier, with the final EGP to be completed prior to issuing the final validation and verification report and opinion.

14. Quantitative Testing

Where possible, GHD will use the data to check conformance of the Project with the Program's Protocol requirements. Where data is not available, GHD will conduct a qualitative assessment and assess that the methodologies used in the development of the Project Plan conform to the Program's applicable Protocol.

Quantitative data or raw data will be made available to GHD. GHD will use the data to recalculate and check the GHG emissions reductions calculations and assess the methodologies that were used in the development of the Monitoring Report.

15. Materiality Level

The quantitative materiality for this verification is set at 5 percent of the reported emissions reductions, as per the requirements of the Program. In addition, a series of discrete errors, omissions, or misrepresentations of individual or a series of qualitative factors, when aggregated, may be considered material.

Materiality will also be assessed on a qualitative level, including conformance with the applicable Program and Protocol requirements. Non-conformance with Program requirements may be considered a material error unless the Program provides a variance.

16. Validation and Verification Procedures

The validation and verification procedures will be used to assess the following:

- 1. Accuracy and completeness of Project Plan and Monitoring Report
- 2. Uncertainty of external data sources used
- 3. Emission assumptions
- 4. Accuracy of emission calculations
- 5. Potential magnitude of errors and omissions

To sustain a risk-based assessment, the GHD Project Team will identify and determine risks related to the GHG emissions during the desk reviews, site visit and the follow-up interviews as applicable. The GHD Project Team will focus on the accuracy and completeness of provided information. The components of the document review and follow-up interviews are:

- Document Review:
 - Review of data and information to confirm the correctness and completeness of presented information
 - Cross-checks between information provided in the Project Plan and Monitoring Report and information from independent background investigations
 - Determine sensitivity and magnitude analysis for parameters that may be the largest sources of error
 - Comparison of reported emissions and emissions reductions with the previous reporting period(s)
- Follow-up Interviews:
 - On-site
 - Head office visit
 - Via telephone
 - Via email
 - Via ICT

The document review shall establish to what degree the presented Project Plan and Monitoring Report documentation meets the validation and verification standards and criteria.

The GHD Project Team's document review during the review process shall comprise, but not be limited to, an evaluation of whether or not:

- The documentation is complete and comprehensive and follows the structure and criteria required by the Program.
- The monitoring methodologies are justified and appropriate.
- The assumptions behind the inventory are conservative and appropriate.

- The GHG emission calculations are appropriate and use conservative assumptions for estimating GHG emissions and emissions reductions.
- The GHG information system and its controls are sufficiently robust to minimize the potential for errors, omissions, or misrepresentations.

The GHD Project Team will interview Project staff to:

- Cross-check information provided
- Test the correctness of critical formulae and calculations
- Review data management and recording procedures

GHD will complete checks of data from point of collection (meter, scale, etc.), through the Project data management systems, then it's use in the development of the Project Plan and Monitoring Report. A sample of raw data will be collected for checks and recalculations as applicable. Should errors or anomalies be identified that could lead to a material misstatement, GHD will request further raw data samples to assess the pervasiveness of the errors or anomalies. GHD will identify the source and magnitude of data or methodology errors or anomalies; however, as a validation and verification body, GHD may not provide solutions to issues identified.

17. Closure

The Validation and Verification Plan is considered to be a dynamic document that may require modification and adaptation to project conditions as encountered during the completion of the validation and verification process.

All of Which is Respectfully Submitted,

GHD

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Appendix B

Document Review Reference List

APPENDIX B - DOCUMENT REVIEW REFERENCE LIST Tradewater, LLC

Tradewater - Thailand 5 Project Validation and Verification

| No. | Document Title | Description |
|-----|-------------------------------------------------------------------------|------------------------------------------------|
| 1 | ACR924_GHGPlan_v2.0 | Project Plan |
| 2 | ACR924_MonitoirngReport_v2.0 | Monitoring Report |
| 3 | ACR924_EnvironmentalAssesment_v1.0 | Environmental Assessment form |
| 4 | ACR924_SDGContribution_v1.0 | SDG Contribution form |
| 5 | ACR924_AnnualProjectAttestation | Annual Project Attestation |
| 6 | ACR924_QuantificationAssertions_v1.0 - Review | GHG Assertion |
| 7 | ACR924_CertificateofDestruction_2023-10-02 | Evidence of Destruction |
| 8 | ACR924_SamplingCertificate_2023-07-14 ACR924_SamplingResults_2023-07-28 | Evidence of Sampling |
| | Solubility Chart | _ |
| 9 | Filled Form TH 5 (out) | Weight Tickets and signed weight forms |
| 9 | Original Tickets TH5 -Out | Weight Tickets and signed weight forms |
| | ACR924 PredestructionForm 2023-08-07 | |
| | ACR924 PredestructionTicket 2023-08-07 | |
| 10 | Copy of ContinuousData_TW-THA-ISO5 1009 | CEMS Data |
| 11 | ACR924 ConsolidationReport (excel) | ISO Filling Tank /Offset title |
| | ACR924 ConsolidationReport | Too I ming rank / onset the |
| 12 | 22.09.26 Transfer of ownership I | Transfer of Ownership Documentation WMS - |
| | 22.10.03 Transfer of ownership II | Tradewater |
| | 22.10.14 Transfer of ownership III | |
| | 22.10.21 Transfer of ownership IV | |
| | 22.10.27 Transfer of ownership V | |
| | 22.11.14 Transfer of ownership VI | |
| 13 | Chain of custody Diagram | Transfer of Ownership Documentation Customs to |
| | , , | WMS |
| | Customs to WMS letter - English | |
| | Customs to WMS letter - Thai | |
| | Handling over the refrigerants seized under the Customs Department - | |
| | English | |
| | Handling over the refrigerants seized under the Customs Department - | |
| | Thai | |
| | Guidelines for the destruction of refrigerants under the supervision of | |
| | Customs Department - Eng | |
| | Guidelines for the destruction of refrigerants under the supervision of | |
| | Customs Department - Thai | |
| 14 | ACR924_AirwayBillandShippersDeclaration_2023-07-15 | Sampling Chain of Custody |
| | ACR924_ProofOfDelivery_2023-07-17 | |
| 15 | ACR924_ODSLicense_2023-07-12 | Bureau Veritas Compliance Documentation |
| | Certified Services | |
| 10 | ISO IEC 17025 BPEC latest permit | MANO Commission of Decimal and the second |
| 16 | | WMS Compliance Documentation |
| | BPEC Waste acceptance List Waste Receiving Capacity | |
| | BPEC WSP for latest for year 2023-2024 | _ |
| | BPEC Monitoring Report | _ |
| | ACR924 ScaleCalibration 2023-06-21 | _ |
| | ACR924 ScaleCalibration 2023-10-16 | |
| | CFC DRE 6th report | _ |
| | R-12 result (Feb) | |
| | air emission testing Hbr Freon 12 BPEC 8 Aug 65 (2) | |
| | 2022.08.11 Destruction SOP's WMS- ACR | |
| | 2022.09.08 Sampling procedure fo ISOs and B1000 | |
| | 2022.09.08 Transport and Storage procedure | |
| | 2022.09.09 Maintenance Procedure | |
| | 2022.09.14 Filling Procedure | |
| | WMS Sampling Procedures Meeting attendee list | |
| | Victor Molina EPA Cert | |
| 1 | BPEC LAB License (2021) | 7 |
| | BPEC LAB License (2022) | |
| 17 | 1a_ScaleBridge_11-07-2023 | BPEC Equipment images and SOP |
| | 1b_ScaleSerialNumber_11-07-2023 | |
| 1 | 2 ISOTankFeedingLine 2-05-2023 | |
| | 3_SamplingPort_2-05-2023 | |
| | 4_Flowmeter_2-05-2023 | |
| 18 | ACR-Project-Deviation-Request-ACR 924_Procedure for Weighing | Deviation documenation |
| 19 | | |
| | Errata and Clarification: Destruction of Ozone Depleting Substances | |
| | from International Sources, Version 1.0, ACR, dated December 4, 2023 | ACR ODS Methodology Errata and Clarification |

Appendix C Findings List

Issues Log

Revision 4 - closed

Date December 11. 2023

12588069 ACR924 **Project Number** Program-Specific Project ID

TRADEWATER, LLC TRADEWATER - THAILAND 5 Client

Facility Name Regulation / Program Reporting Year ACR 2023-08-08 to 2023-09-28

| | The following cylinders as listed on the TW 5 Consolidation report, were also identified to be on the Consolidation | The cylinders with the index numbers listed | Closed |
|---|----------------------------------------------------------------------------------------------------------------------|---------------------------------------------|--------|
| | Report for TW Thailand 3: | are noted with a net weight of 0 kg and no | |
| | TH03278 | consolidation date. This means the | |
| | TH03361 | cylinders were damaged/not ready to be | |
| | TH03371 | transfer to the ISO tank for THA3. | |
| | TH03374 | They have been repaired and made | |
| | TH03384 | available to be transfer to THA5 ISO tank. | |
| | TH03490 | available to be transfer to THAS 150 tank. | |
| | TH03533 | | |
| | TH03533 | | |
| | | | |
| | TH03583 | | |
| _ | TH03623 | | |
| 1 | TH03663 | | |
| | TH03799 | | |
| | TH03911 | | |
| | TH03960 | | |
| | TH03997 | | |
| | TH04004 | | |
| | TH04366 | | |
| | TH04903 | | |
| | TH04915 | | |
| | TH04937 | | |
| | TH04938 | | |
| | TH04948 | | |
| | TH04962 | | |
| | GHG Project Plan A3. NON-TECHNICAL EXECUTIVE SUMMARY OF PROJECT, background information section, and | This changes have been made in the | Closed |
| | throughout the Project Plan, 'in and before 2007' is not equivalent to since 2007. GHD understands that the ODS | version of the document attached to the | |
| 2 | has been stockpiled by the government since 2007. Incorrect wording is found in sections A3, (2) places and | email and in the path | |
| | section C2 of the GHG Project Plan. | Validation\GHG | |
| | section of the dried free train. | nlan\ACR937_GHGPlan_v1_0 | |
| | Please note that paragraph under updated TEAP table is not updated, eg. does not indicate that PCDDs/PCDFs are | This changes have been made in the | Closed |
| | 0.19 ng-ITEQ/Nm3 at TEAP standard conditions. Please also clarify what the TEAP standard conditions are within | version of the document attached to the | |
| 3 | the TEAP section eg. per the TEAP Protocol "All concentrations of pollutants in stack gases and stack gas flow rates | email and in the path | |
| | are expressed on the basis of dry gas at normal conditions of 0 degrees C and 101.3 kPa, and with the stack gas | Validation\GHG | |
| | corrected to 11% O2 (as referred to by normal cubic metre. Nm3)." | nlan\ACR937 GHGPlan v1 0 | |
| | Please note that the details of the ACR deviation in the Monitoring parameters tables are from TW Thailand 3, | This changes have been made in the | Closed |
| | including that the deviation is applicable when the same trucks are used. GHD understands that different trucks | version of the document attached to the | |
| | are used for TW Thailand 5. | email and in the path | |
| 4 | | Validation\GHG | |
| | GHD Response: Monitoring parameters table in GHG Projec Plan for Qrefr,i parameter describes deviation | plan\ACR937 GHGPlan v1.0 | |
| | procedure where trucks pre-and post-destruction are the same. | plant/Act/337_GridFlant_V1.0 | |
| | procedure where ducks pre-and post-destruction are the same. | TW response: corrected | |
| | Please include the emissions reductions numbers in the GHG Project Plan. | This changes have been made in the | Closed |
| 5 | · · · · · · | version of the document attached to the | |
| | | email and in the path | |
| | | Validation\GHG | |
| | 1 | *411444101110110 | 1 |

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TRADEWATER, LLC TRADEWATER - THAILAND 5

12588069 ACR924

Client Facility Name Regulation / Program Reporting Year ACR 2023-08-08 to 2023-09-28

| 6 | Please provide the Q4 scale calibration that is applicable to the TW 5 reporting period. GHD Response: Q3 would cover months July, August and September. The calibration report provided indicates calibration in June (Q2). Please provide the subsequent calibration certificate for Q3. | Project took place within Q3, so the calibration report provided is valid. TW Response: October calibration provide, though is not relevant for this project as it was performed after the destruction event. The calibration for the previous quarter was provided in the WMS Compliance Documentation | Closed |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| 7 | Prease note that on the SDG Contributions Form: - SDG 1 is included in the Form, however not included in the GHG Project Plan. During Tradewater Thailand 3, ACR noted that SDG 1 was not applicable to the Project and should be removed. Please confirm and remove from SDG Contributions Form if not applicable. - Please complete section in Form described as 'Information on how the project activity is consistent with the SDG objectives of the host country, where the SDG objectives are relevant, and such is feasible' if applicable. -Spell check requried on document. | This changes have been made in the version of the document attached to the email and in the path Validation\GHG plan\SDGContribution_v1.0 | Closed |
| 8 | Please note that GHG Project Plan Section G2 Chain of Custody should include details of the transfer of ownership and any carbon credits generated from the Project from Thailand Customs to WMS. Please note that Section G1 Proof of Title should only include details of the main Proof of Title for Tradewater's ownership of emissions reductions. GHD understands that this is the Consolidation Report. Refer to GHG Project Plan template for list of acceptable documents. | This changes have been made in the version of the document attached to the email and in the path Validation\GHG | Closed |
| 9 | Per the Appendices instructions within the GHG Project Plan template, please include Appendix C Proof of Title including signed Consolidation Report and Appedix F Chain of Custody, including related transfer of ownership documents. | This changes have been made in the version of the document attached to the email and in the path Validation\GHG plan\ACR937 GHGPlan v1.0 | Closed |
| 10 | Per the Appendices instructions within the GHG Project Plan template, please omit rows with Appendics that are irrelevant to the Project including Appendix D, E and G. Please complete the 'Provided under separate cover' column for all appendices that were included. Please delete the Template's appendices instructions in italics. | This changes have been made in the version of the document attached to the email and in the path Validation\GHG plan\ACR937_GHGPlan_v1_0 | Closed |
| 11 | Please confirm whether a public comment period took place for the current Project. If relevant, describe relevant details in the stakeholder comments and consultation sections of the GHG Plan and all other documents that request details of stakeholder consultation. | Tradewater conforms to the requirements in the Standard V8.0 of 30 days public comment. No comments where received in this time. | Closed |

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| | - Please confirm whether Timothy's email has a typo. | This changes have been made in the | Closed |
|----|---------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|--------|
| | - Grammar check required on document. | version of the document attached to the | |
| | - Project Description: Please clarify that ownership was transferred from Thailand Government to WMS, to | email and in the path | |
| | Tradewater. Please clarify that ODS was stockpiled Since 2007. | Verifcation\Monitoring\ACR937_Monitorin | |
| | - Please note that the details of the ACR deviation are from TW Thailand 3, including that the deviation is | gReport v1.0 | |
| | applicable when the same trucks are used. GHD understands that different trucks are used for TW Thailand 4. | | |
| | - Please update the Monitoring Parameters table details in the Monitoring Report to be in alignment with GHG | TW Response: corrected | |
| | Project Plan Monitoring Parameters tables. | | |
| 12 | Please provide the signed Monitoring Report for the Project. | | |
| | GHD response: | | |
| | '- Section II: Project Information Crediting period section has a typo '203' | | |
| | - 'Section V: Project Monitoring tables, Legal requirements test source of data field is blank. | | |
| | -' Section V: Project Monitoring Lables, Legal requirements test source of data near is blank. | | |
| | | | |
| | Thai government, please clarify that the weigh scales are inspected and calibrated quarterly to 5% accuracy in | | |
| | accordance with the Protocol. Please include the date of calibration. | This shanges have been made in the | Closed |
| | Please update Section II (9) Methodology version to include detail that AR5 GWP were used. Please also update | This changes have been made in the | Closed |
| | Section B1 of the GHG Project Plan to include this detail. | version of the documents attached to the | |
| | | email and in the paths | |
| 13 | GHD Response: | Verifcation\Monitoring\ACR937_Monitorin | |
| | '- Please clarify in Section B1 of the GHG Project Plan that the AR5 GWP for R-12 was obtained from ACR, and not | gReport_v1.0 and Validation\GHG | |
| | from the current ODS Methodology (April 2021). | plan\ACR937_GHGPlan_v1.0 | |
| | '-Please clarify in section B5, Table 5, that the AR5 GWP for R-12 was obtained from ACR. | | |
| | ODS Sampling Certificate Volume of customer container sampled is in units of mass 'tons', and not in units of | Corrected TW Response: corrected | Closed |
| | volume. | Corrected TW Response. corrected | Closed |
| | volume. | | |
| 14 | GHD Response: | | |
| | '- Please note that the volume of container sampled (volume of the ISO tank) is still not in units of volume on the | | |
| | ODS Sampling Certificate. Units of volume include cubic meters (m3) for example | | |
| | ODS lab license says not valid for clearance, please clarify. | The official license is only valid in its digital | Closed |
| | | version within the EU system. The | |
| 15 | | document provided is only a proof of | |
| | | approval and cannot be used in the import | |
| | | nrocess | |
| | ODS lab analsyis please clarify why there is no method listed for the analysis method for ODS. | The method to the determine Purity is | Closed |
| 16 | | listed in the "Method" column and is | |
| | | indicated as AHRI 700-212/7 | |
| | Please provide the pre-destruciton weight tickets in an alternate format, we are unable to open the files. | You can find both the weight ticket form | Closed |
| 17 | | and the weight tickets in the path | |
| 1/ | GHD Response: We have received the weight ticket form. Please also provide the weight tickets for review. | Verification\Destruction\Weight tickets\ | |
| | | Pre destruction Tremperatures and pressures on the | |
| | | | Closed |
| | | consolidation report correspond to the | |
| | | conditions of the ISO tank when the | |
| 18 | | material was being transferred from the | |
| | | cylinders. It has no relation with the | |
| | Please confirm what the temperature and pressures on the consolidation report refer to and why they are | conditions during destruction showed in | |
| | differnet than the CEMS data values. | the CEMS data. | |

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Client Facility Name Regulation / Program Reporting Year TRADEWATER, LLC TRADEWATER - THAILAND 5

ACR 2023-08-08 to 2023-09-28

| | | · · · · · · · · · · · · · · · · · · · | Closed |
|----|------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|--------|
| | | amount of cylinders in the pallets where | Cioseu |
| | | they arrived to the warehouse. It was not | |
| | | tracked for all pallets but it's considered | |
| | | not relevant to the tracking as the | |
| | | inventory was made per cylinder and not | |
| | | per pallet. | |
| 19 | | Transfer to ISO tank column has been | |
| - | Please clarify what the 'total cylinder' values refer to in the Consolidation report and why some are '40' and many | corrected and we are waiting for the signed | |
| ł | are blank. Please confirm the same for the 'Transfer to ISO tank' column. | version | |
| | are blank. Please commit the same for the Transfer to 150 tank column. | version | |
| | CUP Paragraph | TIM account of | |
| | GHD Reponse: | TW response: 40 represents the amount of | |
| | - Please clarify what '40' represents for the 'total cylinder' column on the consolidation report | cylinders per crate | |
| | - Please provide the updated consolidation report as mentioned | Signed consolidation provided | |
| | | Flow rate withot corresponding CEMS data | Closed |
| 20 | There are several time periods within the CEMS data where flow rate is indicated however CEMs data is blank. | was recorded by mistake as it was before | |
| | Please note that CEMs data must be monitored continously during ODS feeding. Please explain. | the hour that destruction initiated. | |
| | | the net weight of each individual cylinder | Closed |
| | | before transfer to the ISO tank, the | |
| | | · · · · · · · · · · · · · · · · · · · | |
| | | discrepancy can be attributted to the use of | |
| 21 | | different scales and that the transfer | |
| 21 | | process is manual and each different | |
| | | technician cuts off the flow at diferent | |
| | Consolidation Report total net weight of ODS destroyed is 1,248 kg (6.3%) higher than calculated using the weight | timings. These small differences agregate | |
| | tickets. This is signficantly higher than for the previous Tradewater Thailand projects (<2% discrepancy). Please | during the transfer of the large amount of | |
| | clarify reason for discrepancy. | cylinders. | |
| | | During the transfer process some cylinders | Closed |
| | | are found to be empty or with low amounts | |
| 22 | | of material. These are typically removed | |
| | Please note that the Consolidation report lists a cylinder with a 0kg net weigt- TH09426 and a cylinder with a 0.38 | from the consolidation report but these | |
| | kg net weight - TH09427. Please clarify. | two examples slipped through. | |
| | | | Closed |
| | | During the transfer process some cylinders | |
| 23 | | are found to be empty or with low amounts | |
| | Please also clarify why there is large variation in the net weights of cylinders on the Consolidation report ranging | of material. The difference correspond to | |
| | from 0 to 23 kg. | the original state of the cylinders | |
| | | These correspond to internal clasification | Closed |
| 24 | | during inventory that were carried over to | 0.0000 |
| | Please note that Consolidation report contains various highlighting and text color variations | the final report. | |
| | r tease note that consonation report contains various ingringiting and text color variations | and man report. | Closed |
| | | | 0.0364 |
| | | This question is not relevant as the values | |
| | | are within the TEAP parameters. | |
| 25 | | CO concentration is measured in mg/kg. | |
| | | Difference can be attributted to difference | |
| | Please clarify the units of the CO concentration on the stack test report (CFC DRE 6th report) of <0.1. Please clarify | in conditions of the material and of other | |
| | why the value varies significantly than what is measured through CEMs (average 24 ppm) | material disposed in the incinerator. | |
| 26 | Please provide final signed verison of Monitoring Report and GHG plan. | Provided | Closed |
| 27 | Please submit credits on the ACR registry. | Submitted | Closed |
| 21 | reade submit creates on the Active Bothy. | Jubilittea | CIUSEU |

Appendix D

Validation/Verification Statement



ACR Validation and Verification Opinion

VERSION 1.1

2023-10-20

| SECTION I: VALIDATION/VERIFICATION BODY (VVB) DETAILS | | | | |
|-------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------------------------|--|--|
| 1 | VVB | GHD Limited | | |
| 2 | WB Physical Address Street Name and Number, City, State, Zip | 100A – 455 Phillip Street Waterloo, Ontario N2L 3X2, Canada | | |
| 3 | VVB Mailing Address (if different) | Same as above | | |
| 4 | VVB Email Address | Gord.Reusing@ghd.com | | |
| 5 | VVB Phone Number | 15193404231 | | |
| SEC | TION II: PROJECT DETAILS | | | |
| 1 | Project Title | Tradewater – Thailand 5 | | |
| 2 | ACR Project ID | ACR924 | | |
| 3 | Project Proponent | Tradewater, LLC | | |
| SECTION III: CRITERIA USED TO FORM THE OPINION | | | | |
| 1 | ISO 14064–2 (Version Publication Date) | April 2019 | | |
| 2 | ISO 14064–3 (Version Publication Date) | April 2019 | | |
| 3 | ACR Standard (Version Number and Publication Date) | Version 8.0, July 2023 | | |

| 4 | ACR Validation and Verification Standard (Version Number and Publication Date) | Version 1.1, May 2018 | |
|-----|------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 5 | ACR-Approved Methodology (Name and Version Number) | Methodology for the Quantification, Monitoring, Reporting and Verification of Greenhouse Gas Emissions Reductions and Removals from the Destruction of Ozone Depleting Substances from International Sources, Version 1.0 | |
| 6 | Other Criteria (e.g., Errata & Clarifications) | Destruction of Ozone Depleting Substances from International Sources V1.0., Errata & Clarification, December 4, 2023 | |
| SEC | TION IV: VALIDATION OPINION DETAILS (IF APPLICABLE) | | |
| 1 | Is a validation opinion being provided?¹ ⊠ Yes □ No If Yes, complete remaining question in this section. | | |
| 2 | Crediting Period Dates | | |
| | Start Date: 8/8/2023 | | |
| | End Date: 8/7/2033 | | |
| 3 | Validated GHG Project Plan (provide exact filename, including any appendices) | | |
| | ACR924_GHGPlan_v2.0.pdf, ACR924_SDGContribution_v1.0.pdf, ACR924_EnvironmentalAssesment_v1.0.pdf | | |

¹ If both validation and verification services were conducted at the same time by the same VVB, complete Section IV as well as Section V.

| 4 | Validated GHG Project Plan Date 11/20/2023 |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5 | Responsibility (provide the Project Proponent name) The GHG Project Plan and its contents are the responsibility of: Tradewater, LLC |
| 6 | Does the VVB attest that the GHG Project Plan has been validated in accordance with the criteria identified in Section III? ☑ Yes □ No |
| 7 | As a result of validation, what type of opinion is the VVB providing? ☑ Positive ☐ Negative |
| 8 | If Negative, describe the reasons the VVB is providing this validation opinion. |
| 9 | The actual GHG emission reductions and removals achieved may differ from the validated forecast of future GHG emission reductions and removals, as the forecast is based on assumptions that may change in the future. |
| SEC | TION V: VERIFICATION OPINION DETAILS (IF APPLICABLE) |
| 1 | Is a verification opinion being provided? ☑ Yes □ No If Yes, complete remaining question in this section. |
| 2 | Reporting Period Dates Start Date: 8/8/2023 End Date: 9/28/2023 |
| 3 | Reasonable |
| 4 | Verified Monitoring Report (provide exact filename, including any appendices) ACR924_MonitoringReport_v2.0.pdf, ACR924_SuplDoc.pdf |

ACR VALIDATION AND VERIFICATION OPINION ACR924—TRADEWATER – THAILAND 5 Version 1.1

| 5 | Verified Monitoring Report Date 12/12/2023 |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6 | Responsibility (provide the Project Proponent name) The Monitoring Report and its contents are the responsibility of: Tradewater, LLC |
| 7 | Does the VVB attest that the Monitoring Report has been verified to the specified Level of Assurance in accordance with the criteria identified in Section III? ☑ Yes □ No |
| 8 | Does the VVB attest that the GHG statement, as detailed by the Monitoring Report and provided in Section VI below, is without material misstatement (as defined by the ACR Standard)? ☑ Yes □ No |
| 9 | As a result of verification, what type of opinion is the VVB providing? ☑ Positive ☐ Negative |
| 10 | If Negative, describe the reasons the VVB is providing this verification opinion. |

SECTION VI: GHG STATEMENT (APPLICABLE FOR VERIFICATION OPINIONS)²

Omit or provide additional rows for Vintages as needed

| ALL GHG PROJECTS | | AFOLU & GEOLOGIC SEQUESTRATION PROJECTS ONLY ³ | | | |
|-------------------------------------|-----------------------------------------------|-----------------------------------------------------------|------------------------------------------|---------------------------------------|-----------------------------------------------------|
| VINTAGE | TOTAL EMISSION REDUCTIONS / REMOVALS | BUFFER POOL / RESERVE ACCOUNT CONTRIBUTI ON | NET EMISSION REDUCTIONS / REMOVALS | REMOVALS SUBSET (IF APPLICABLE) | EMISSION REDUCTIONS SUBSET (IF APPLICABLE) |
| 2023 | 176,191 | | | | |
| TOTALS* | 176,191 | | | | |
| *Totals may not sum due to rounding | | | | | |

 $^{^{2}}$ Omit or provide additional rows for Vintages as needed. The reported units must be metric tons $CO_{2}e$.

³ If calculating Removals according to an approved Methodology, report the Removals and Emissions Reductions subsets of the Net Emission Reductions and Removals for the Reporting Period, allocated by Vintage.

SECTION VII: ATTESTATION LEAD VALIDATOR/VERIFIER SIGNATURE X **Gordon Reusing** LEAD VALIDATOR/VERIFIER NAME Lead Validator/Verifier, GGAS Principal LEAD VALIDATOR/VERIFIER TITLE LEAD VALIDATOR/VERIFIER ORGANIZATION **GHD Limited** LEAD VALIDATOR/VERIFIER DATE 12/18/2023 INDEPENDENT REVIEWER SIGNATURE X Cenarity Deacon Liddy **INDEPENDENT REVIEWER NAME INDEPENDENT REVIEWER TITLE** Independent Reviewer, Business Group Leader INDEPENDENT REVIEWER ORGANIZATION **GHD Limited INDEPENDENT REVIEWER DATE** 12/18/2023