

ACR799: Supplemental Project Documentation

February 27, 2023

ODS projects result in permanent destruction of greenhouse gases. The key components that establish the quantifiable impact of these projects include documentation that 1) establishes that the ODS materials were collected and moved through a traceable chain of custody to a qualified destruction facility; 2) a Certificate of Destruction for the ODS material contained in the Project; 3) calculations of the climate impact based on emission factors and requirements of the offset protocol.

[Enclosure 1: Chain of Custody and Ownership Documentation](#)

Chain of custody and ownership documentation is collected and maintained beginning at the point of origin through destruction. This flow diagram outlines the parties involved throughout the custody and material movement process. Material from the point of origin is aggregated into seven half-ton containers and sent for sampling and final destruction at a qualified destruction facility (Tredi Seche, St. Vulbas, France).

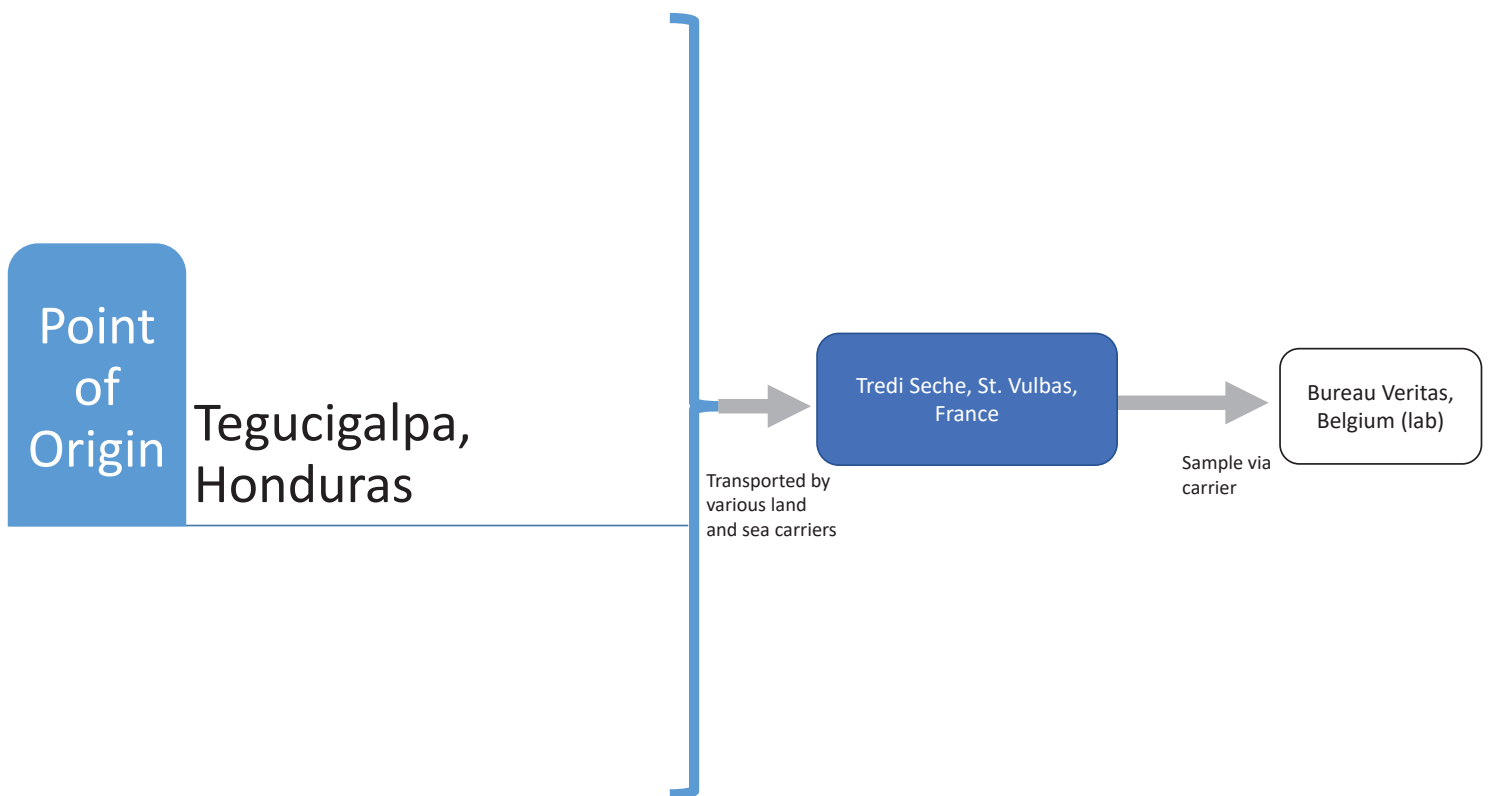
[Enclosure 2: Certificate of Destruction](#)

The Certificates of Destruction are provided by the qualified destruction facility (Tredi Seche) certifying the dates, mass, and species of materials contained in the seven cylinders and destroyed.

[Enclosure 3: GHG Emissions Reduction Assertion Spreadsheet](#)

Project data and greenhouse gas emissions reductions are quantified by comparing actual project emissions to calculated baseline emissions in the absence of the Project (the destruction of materials contained in the seven cylinders and destroyed at Tredi Seche). Calculation methods, factors, and constants are applied per the provisions and equations in the Methodology.

Enclosure 1: Chain of Custody and Ownership Documentation



Enclosure 2: Certificates of Destruction

Tredi - Site de St Vulbas
Rue Charles de Gaulle, 01150 Saint-V

Certificate of Destruction

Project Information

Destruction Facility	TREDI St Vulbas	Certificate ID	TWI Honduras -1
Offset Project Operator	Tradewater International	Batch ID Number	222 565 / 1
Address	PI de la Plaine de l'Ain	Feed Tank Serial Number	930 066
	BP 55 St Vulbas		
	01155 Lagnieu		
	France		

The following quantity of Ozone Depleting Substances was destroyed:

	Starting Batch Weight	1 568 kg	3456,84 lb
Destruction Start Date	27/09/2022	Ending Batch Weight	548 kg
			1208,13 lb
Destruction End Date	28/09/2022	Total Weight Destroyed	1 020 kg
			2248,71 lb

The sample was analyzed by *Laboratory Name* to quantify the amount of each compound present. The sample contains:

Compound	Percent Composition
R12 : Dichlorodifluorométhane (CAS 75-71-8)	99,9%

I certify that *Name* is in possession of and operates a licensed ODS destruction facility, and it operates in accordance with the Destruction and Removal Efficiency and emission guidelines set forth in the Montreal Protocol Technology Assessment Panel (TEAP), Task Force for Destruction Technologies, final report dated April 2002. Based upon testing of the technology on February __ - __ 2022, the destruction guidelines achieved are certified to meet or exceed TEAP requirements.

Facility's Representative

Title

Date

Frédéric Hummel



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Frédéric HUMMEL

Plant manager

14/10/2022

Enclosure 2: Certificates of Destruction

Tredi - Site de St Vulbas
Rue Charles de Gaulle, 01150 Saint-V

Certificate of Destruction

Project Information

Destruction Facility	TREDI St Vulbas	Certificate ID	TWI Honduras - 2
Offset Project Operator	Tradewater International	Batch ID Number	222 565 / 2
Address	PI de la Plaine de l'Ain BP 55 St Vulbas 01155 Lagnieu France	Feed Tank Serial Number	900-33-04

The following quantity of Ozone Depleting Substances was destroyed:

	Starting Batch Weight	1 492 kg	3289,29 lb	
Destruction Start Date	28/09/2022	Ending Batch Weight	551 kg	1214,75 lb
Destruction End Date	28/09/2022	Total Weight Destroyed	941 kg	2074,55 lb

The sample was analyzed by *Laboratory Name* to quantify the amount of each compound present. The sample contains:

Compound	Percent Composition
R12 : Dichlorodifluorométhane (CAS 75-71-8)	99,9%

I certify that *Name* is in possession of and operates a licensed ODS destruction facility, and it operates in accordance with the Destruction and Removal Efficiency and emission guidelines set forth in the Montreal Protocol Technology Assessment Panel (TEAP), Task Force for Destruction Technologies, final report dated April 2002. Based upon testing of the technology on **February __ - __ 2022**, the destruction guidelines achieved are certified to meet or exceed TEAP requirements.

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Rue Charles de Gaulle, 01150 Saint-V

Certificate of Destruction

Project Information

Destruction Facility	TREDI St Vulbas	
Offset Project Operator	Tradewater International	Certificate ID TWI Honduras - 3
Address	PI de la Plaine de l'Ain	Batch ID Number 222 565 / 3
	BP 55 St Vulbas	Feed Tank Serial Number 58 194
	01155 Lagnieu	
	France	

The following quantity of Ozone Depleting Substances was destroyed:

	Starting Batch Weight	1 606 kg	3540,62 lb
Destruction Start Date	28/09/2022	Ending Batch Weight	650 kg 1433,00 lb
Destruction End Date	28/09/2022	Total Weight Destroyed	956 kg 2107,62 lb

The sample was analyzed by *Laboratory Name* to quantify the amount of each compound present. The sample contains:

Compound	Percent Composition
R12 : Dichlorodifluorométhane (CAS 75-71-8)	99,9%

I certify that *Name* is in possession of and operates a licensed ODS destruction facility, and it operates in accordance with the Destruction and Removal Efficiency and emission guidelines set forth in the Montreal Protocol Technology Assessment Panel (TEAP), Task Force for Destruction Technologies, final report dated April 2002. Based upon testing of the technology on February __ - __ 2022, the destruction guidelines achieved are certified to meet or exceed TEAP requirements.

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Tredi - Site de St Vulbas
Rue Charles de Gaulle, 01150 Saint-V

Certificate of Destruction

Project Information

Destruction Facility	TREDI St Vulbas	
Offset Project Operator	Tradewater International	Certificate ID TWI Honduras - 4
Address	PI de la Plaine de l'Ain	Batch ID Number 222 565 / 4
	BP 55 St Vulbas	Feed Tank Serial Number 94Z363
	01155 Lagnieu	
	France	

The following quantity of Ozone Depleting Substances was destroyed:

	Starting Batch Weight	1 605 kg	3538,42 lb
Destruction Start Date	28/09/2022	Ending Batch Weight	589 kg 1298,52 lb
Destruction End Date	29/09/2022	Total Weight Destroyed	1 016 kg 2239,89 lb

The sample was analyzed by *Laboratory Name* to quantify the amount of each compound present. The sample contains:

Compound	Percent Composition
R12 : Dichlorodifluorométhane (CAS 75-71-8)	99,9%

I certify that *Name* is in possession of and operates a licensed ODS destruction facility, and it operates in accordance with the Destruction and Removal Efficiency and emission guidelines set forth in the Montreal Protocol Technology Assessment Panel (TEAP), Task Force for Destruction Technologies, final report dated April 2002. Based upon testing of the technology on **February __ - __ 2022**, the destruction guidelines achieved are certified to meet or exceed TEAP requirements.

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Enclosure 2: Certificates of Destruction

Tredi - Site de St Vulbas
Rue Charles de Gaulle, 01150 Saint-V

Certificate of Destruction

Project Information

Destruction Facility	TREDI St Vulbas	
Offset Project Operator	Tradewater International	Certificate ID TWI Honduras - 5
Address	PI de la Plaine de l'Ain	Batch ID Number 222 565 / 5
	BP 55 St Vulbas	Feed Tank Serial Number 7 481 149
	01155 Lagnieu	
	France	

The following quantity of Ozone Depleting Substances was destroyed:

	Starting Batch Weight	1 581 kg	3485,50 lb
Destruction Start Date	29/09/2022	Ending Batch Weight	526 kg 1159,63 lb
Destruction End Date	29/09/2022	Total Weight Destroyed	1 055 kg 2325,87 lb

The sample was analyzed by *Laboratory Name* to quantify the amount of each compound present. The sample contains:

Compound	Percent Composition
R12 : Dichlorodifluorométhane (CAS 75-71-8)	99,9%

I certify that *Name* is in possession of and operates a licensed ODS destruction facility, and it operates in accordance with the Destruction and Removal Efficiency and emission guidelines set forth in the Montreal Protocol Technology Assessment Panel (TEAP), Task Force for Destruction Technologies, final report dated April 2002. Based upon testing of the technology on February __ - __ 2022, the destruction guidelines achieved are certified to meet or exceed TEAP requirements.

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Tredi - Site de St Vulbas
Rue Charles de Gaulle, 01150 Saint-V

Certificate of Destruction

Project Information

Destruction Facility	TREDI St Vulbas	
Offset Project Operator	Tradewater International	Certificate ID TWI Honduras - 6
Address	PI de la Plaine de l'Ain	Batch ID Number 222 565 / 6
	BP 55 St Vulbas	Feed Tank Serial Number 850 010
	01155 Lagnieu	
	France	

The following quantity of Ozone Depleting Substances was destroyed:

	Starting Batch Weight	1 594 kg	3514,16 lb
Destruction Start Date	29/09/2022	Ending Batch Weight	521 kg 1148,61 lb
Destruction End Date	29/09/2022	Total Weight Destroyed	1 073 kg 2365,56 lb

The sample was analyzed by *Laboratory Name* to quantify the amount of each compound present. The sample contains:

Compound	Percent Composition
R12 : Dichlorodifluorométhane (CAS 75-71-8)	99,9%

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Rue Charles de Gaulle, 01150 Saint-V

Certificate of Destruction

Project Information

Destruction Facility TREDI St Vulbas

Offset Project Operator Tradewater International

Certificate ID TW Honduras - 7

Address PI de la Plaine de l'Ain

Batch ID Number 222 565 / 7

BP 55 St Vulbas

Feed Tank Serial Number 850 426

01155 Lagnieu

France

The following quantity of Ozone Depleting Substances was destroyed:

		Starting Batch Weight	774 kg	1706,38 lb
Destruction Start Date	29/09/2022	Ending Batch Weight	425 kg	936,96 lb
Destruction End Date	29/09/2022	Total Weight Destroyed	349 kg	769,41 lb

The sample was analyzed by *Laboratory Name* to quantify the amount of each compound present. The sample contains:

Compound	Percent Composition
R12 : Dichlorodifluorométhane (CAS 75-71-8)	99,9%

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Enclosure 3: GHG Emissions Reduction Assertion Spreadsheet

COD		Refrigerant Type	Measured Values		Gross Quantity of Refrigerant Destroyed (kg)	Moisture Reduction	High Boiling Residue Reduction	Total Eligible Refrigerant Destroyed (kg)	Quantity of Refrigerant Destroyed (metric tonnes)	GHG Emissions from Substitute Refrigerants	Quantity of ODS Transported to Destruction Facility	Transportation and Destruction Default Emissions Factor (tCO2e)	Total Project Emissions (tCO2e)	Total Project Baseline Emissions (tCO2e)	Total GHG Emissions Reductions (tCO2e)	
			Mass of ODS in COD in kg	Concentration of ODS in Tranche												
			m	c	Q _g	mr	hbr	Q	Q _{ref}	Sub _{ref}	Q _t	Def	PE	BE _{ref}	ER	
			Q _g = m x c		Q = Q _g - (Q _g x mr) - (Q _g x hbr)		Q _{ref} = Q x 45359/1000		Sub _{ref} = Q _{ref} x SE		Def = Q _t x EF		PE = Sub _{ref} + Def		BE _{ref} = Q _{ref} x ER x GWP	ER = BE _{ref} - PE
930066	930066	CFC-12		99.90%	1018.98			1018.86	1.02	698.94				10550		
	930066	CFC-11		0.00%	0.00			0.00	0.00	0.00			0			
	930066	CFC-13	1020.0	0.00%	0.00	0.000015	0.00010	0.00	0.00	0.00	1.02000	7.65	707	0	9844	
	930066	CFC-113		0.00%	0.00			0.00	0.00	0.00				0		
	930066	CFC-114		0.00%	0.00			0.00	0.00	0.00				0		
	930066	CFC-115		0.00%	0.00			0.00	0.00	0.00				0		
7481149	7481149	CFC-12		99.90%	1053.95			1053.82	1.05	722.92				10912		
	7481149	CFC-11		0.00%	0.00			0.00	0.00	0.00				0		
	7481149	CFC-13	1055.0	0.00%	0.00	0.000019	0.00010	0.00	0.00	0.00	1.05500	7.91	731	0	10181	
	7481149	CFC-113		0.00%	0.00			0.00	0.00	0.00				0		
	7481149	CFC-114		0.00%	0.00			0.00	0.00	0.00				0		
	7481149	CFC-115		0.00%	0.00			0.00	0.00	0.00				0		
850426	850426	CFC-12		99.90%	348.65			348.61	0.35	239.15				3610		
	850426	CFC-11		0.00%	0.00			0.00	0.00	0.00				0		
	850426	CFC-13	349.0	0.00%	0.00	0.000023	0.00010	0.00	0.00	0.00	0.34900	2.62	242	0	3368	
	850426	CFC-113		0.00%	0.00			0.00	0.00	0.00				0		
	850426	CFC-114		0.00%	0.00			0.00	0.00	0.00				0		
	850426	CFC-115		0.00%	0.00			0.00	0.00	0.00				0		
942363	942363	CFC-12		99.90%	1014.98			1014.86	1.01	696.20				10509		
	942363	CFC-11		0.00%	0.00			0.00	0.00	0.00				0		
	942363	CFC-13	1016.0	0.00%	0.00	0.000019	0.00010	0.00	0.00	0.00	1.01600	7.62	704	0	9805	
	942363	CFC-113		0.00%	0.00			0.00	0.00	0.00				0		
	942363	CFC-114		0.00%	0.00			0.00	0.00	0.00				0		
	942363	CFC-115		0.00%	0.00			0.00	0.00	0.00				0		
58194	58194	CFC-12		99.90%	955.04			954.94	0.95	655.09				9888		
	58194	CFC-11		0.00%	0.00			0.00	0.00	0.00				0		
	58194	CFC-13	956.0	0.00%	0.00	0.000010	0.00010	0.00	0.00	0.00	0.95600	7.17	662	0	9226	
	58194	CFC-113		0.00%	0.00			0.00	0.00	0.00				0		
	58194	CFC-114		0.00%	0.00			0.00	0.00	0.00				0		
	58194	CFC-115		0.00%	0.00			0.00	0.00	0.00				0		
850010	850010.00	CFC-12		99.90%	1071.93			1071.79	1.07	735.25				11098		
	850010.00	CFC-11		0.00%	0.00			0.00	0.00	0.00				0		
	850010.00	CFC-13	1073.0	0.00%	0.00	0.000025	0.00010	0.00	0.00	0.00	1.07300	8.05	743	0	10355	
	850010.00	CFC-113		0.00%	0.00			0.00	0.00	0.00				0		
	850010.00	CFC-114		0.00%	0.00			0.00	0.00	0.00				0		
	850010.00	CFC-115		0.00%	0.00			0.00	0.00	0.00				0		
900-33-04	900-33-04	CFC-12		99.90%	940.06			939.96	0.94	644.81				9733		
	900-33-04	CFC-11		0.00%	0.00			0.00	0.00	0.00				0		
	900-33-04	CFC-13	941.0	0.00%	0.00	0.000010	0.00010	0.00	0.00	0.00	0.94100	7.06	652	0	9081	
	900-33-04	CFC-113		0.00%	0.00			0.00	0.00	0.00				0		
	900-33-04	CFC-114		0.00%	0.00			0.00	0.00	0.00				0		
	900-33-04	CFC-115		0.00%	0.00			0.00	0.00	0.00				0		
													4440	66301	61861	