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# Validation Report

**Pronaca**

VALIDATION OF THE REVISED MONITORING PLAN OF:  
PRONACA: TROPICALES-PLATA SWINE WASTE  
MANAGEMENT

REPORT NO. 600500099 - 2

**07 April 2009**

TÜV SÜD Industrie Service GmbH  
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<b>Subject:</b> Validation of a Revised Monitoring Plan			
<b>Accredited TÜV SÜD Unit:</b> TÜV SÜD Industrie Service GmbH Certification Body "climate and energy" Westendstr. 199 - 80686 Munich Federal Republic of Germany		<b>TÜV SÜD Contract Partner:</b> TÜV SÜD Industrie Service GmbH Caron Management Service Westendstr. 199 - 80686 Munich Federal Republic of Germany	
<b>Client:</b> Pronaca		<b>Project Site(s):</b> Santo Domingo de los Colorados, Provincia de Santo Domingo de los Tsachilas, Republic of Ecuador	
<b>Project Title:</b> Pronaca: Tropicales-Plata Swine Waste Management			
<b>Applied Methodology / Version:</b> AM0006 version 1		<b>Scope(s):</b> 13 and 15	
<b>Registered PDD version:</b> Registration Date: 25-09-2006 Starting Date of Crediting Period : 25-09-2006		<b>Revised Monitoring Plan:</b> Date of issuance: 03-04-2009	
<b>Assessment Team Leader:</b> Javier Castro		<b>Further Assessment Team Members:</b> Carlos Casco	
<b>Summary of the Validation Opinion:</b>			
<input checked="" type="checkbox"/> The review of the revised monitoring plan and the subsequent follow-up interviews have provided TÜV SÜD with sufficient evidence to determine the fulfilment of all stated criteria. In our opinion, the revised monitoring plan meets all relevant UNFCCC requirements for the CDM. Hence TÜV SÜD will recommend the replacement of the monitoring plan of the registered PDD by the submitted revision.			
<input type="checkbox"/> The review of the project design documentation and the subsequent follow-up interviews have not provided TÜV SÜD with sufficient evidence to determine the fulfilment of all stated criteria. Hence TÜV SÜD will not recommend the replacement of the monitoring plan of registered PDD.			



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## 1 INTRODUCTION

### 1.1 Objective

The validation objective is an independent assessment by a Third Party (Designated Operational Entity = DOE) of a proposed revision of a monitoring plan against all defined criteria set for the registration under the Clean Development Mechanism (CDM). Validation is required in the context of proposed revisions of a registered CDM activity and will finally result in a conclusion by the executing DOE whether a revised monitoring plan is valid and should be submitted for replacing the previous version. The ultimate decision on the registration of a proposed revision rests at the CDM Executive Board.

The project activity discussed by this validation report is registered as CDM activity N° 0460 with the project title:

Pronaca: Tropicales-Plata Swine Waste Management

### 1.2 Scope

The scope of any assessment is defined by the underlying legislation, regulation and guidance given by relevant entities or authorities. The core requirements on revised monitoring plans are given by annex 12 of the report of EB-31 as referred below:

*15. The request for revising monitoring plan is made in cases where:*

- a. the monitoring plan in the registered CDM project activity document is found not to be consistent with the approved monitoring methodology applied to the registered project activity; or,*
- b. the proposed revision of the monitoring plan ensures that the level of accuracy or completeness in the monitoring and verification process is not reduced as a result of the revision;*

The validation is not meant to provide any consulting towards the client. However, stated requests for clarifications and/or corrective actions may provide input for improvement of the project design.

## 2 METHODOLOGY

The project assessment aims at being a risk based approach and is based on the methodology developed in the Validation and Verification Manual, an initiative of Designated and Applicant Entities, which aims to harmonize the approach and quality of all such assessments.

### 2.1 Appointment of the Assessment Team

According to the technical scopes and experiences in the sectoral or national business environment TÜV SÜD has composed a project team in accordance with the appointment rules of the TÜV SÜD certification body “climate and energy”. The composition of an assessment team has to be approved by the Certification Body ensuring that the required skills are covered by the team. The Certification Body TÜV SÜD operates four qualification levels for team members that are assigned by formal appointment rules:

- Assessment Team Leader (ATL)
- Greenhouse Gas Auditor (GHG-A)
- Greenhouse Gas Auditor Trainee (T)
- Experts (E)

It is required that the sectoral scope linked to the methodology has to be covered by the assessment team.

The validation team was consisting of the following experts (the responsible Assessment Team Leader is written in bold letters):

Name	Qualification	Coverage of technical scope	Coverage of sectoral expertise	Host country experience
<b>Mr. Javier Castro</b>	ATL	☑	☑	☑
Mr. Carlos Casco	GHG-A	☑		☑

**Javier Castro** is Assessment team leader at TÜV SÜD Industrie Service GmbH. He has an academic background in chemical engineering and energy systems. In his position he participates as assessment team leader the validation, verification and certifications processes for GHG mitigation projects. He has received extensive training in the CDM and JI validation processes, and participated in many validations and verifications of CDM projects.

**Carlos Casco** has an academic background in mechanical engineering and mastery in business administration. He was involved in several CDM projects activities and received extensive training on all aspects of the Validation and Verification Process. He is working as a local free lancer auditor for TÜV SÜD in Ecuador.

### 2.2 Review of Documents

The revised Monitoring Plan submitted by the client and additional background documents related to further monitoring aspects were reviewed as initial step of the validation process.



## **2.3 Follow-up Interviews**

According and as a result of the document review, TÜV SÜD asked the project participant for some clarifications. Further telephone conferences have been held with the responsible person of Pronaca discussing the revision of the monitoring plan.

## **2.4 Internal Quality Control**

As final step of a validation, the validation report has to undergo an internal quality control procedure by the Certification Body "climate and energy", i.e. each report has to be approved either by the head of the certification body or his deputy. In case one of these two persons is part of the assessment team approval can only be given by the other one.

It rests at the decision of TÜV SÜD's Certification Body whether a revised monitoring plan will be submitted for approval by the EB or not.

### 3 SUMMARY OF FINDINGS

In the context of planning the Second Verification, the Audit team has made the following finding based on the available documentation (PDD and the monitoring report) and the information provided by the Project Participants.

The monitoring plan applied complies with the methodology. Nevertheless the PDD and methodology have a minimum difference, and needed a revision of the monitoring plan to have a 100% compliance with the actual operation. Based on the decision made by the EB in response to the Deviation Request to the Monitoring Plan submitted by TUV-SUD prior to the first verification, the Board instruct the DOE to submit a revised monitoring plan prior to requesting issuance for future monitoring periods if the default value Vs would be used permanently.

The Project owners Response was:

Based on the decision made by the CDM Executive Board in response to the Deviation Request to the Monitoring Plan submitted by TUV-SUD, the “Daily Feed Intake”, “Feed Digestible Energy” and “Feed Ash Content” parameters previously needed to calculate Vs are not taken into consideration, as the EB has instructed that the Vs value used in the PDD to estimate project emissions be used for verification purposes.

According to this description the project participants developed a revised monitoring plan forming the basis of the assessment presented herewith.

TÜV SÜD considers the revised monitoring plan as acceptable and reasonable. The Vs value used in the calculation of emission reductions is as per decision of the EB to the deviation presented during the first verification period.

Consequently it can be confirmed that the level of accuracy or completeness in the monitoring and verification process is not reduced as a result of the revision, also can be confirmed that the proposed revision is in accordance to the project activity and that the findings of previous verification reports have been taken into account.

TÜV SÜD confirms that the sections D.1 and D.4 contained in the original PDD are to be considered valid.

Furthermore TÜV SÜD confirms that:

- a) the proposed revision of the monitoring plan ensures that the level of accuracy or completeness in the monitoring and verification process is not reduced as a result of the revisions;
- b) the proposed revision of the monitoring plan is in accordance with the approved monitoring methodology applicable to the project activity;
- c) the findings of previous verification reports, if any, have been taken into account



#### 4 VALIDATION OPINION

TÜV SÜD has performed a validation of the revised Monitoring Plan of CDM Project 0460:  
Pronaca: Tropicales-Plata Swine Waste Management

The review of the revised monitoring plan and the subsequent follow-up interviews has provided TÜV SÜD with sufficient evidence to determine the fulfilment of all stated criteria. In our opinion, the revised monitoring plan meets all relevant UNFCCC requirements for the CDM.

Hence TÜV SÜD recommends the replacement of the monitoring plan of the registered PDD by the submitted revision.

Munich, 07-04-2009

A handwritten signature in black ink, appearing to read 'Cuiyuan Zhang'.

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Certification Body "climate and energy"  
TÜV SÜD Industrie Service GmbH

Munich, 07-04-2009

A handwritten signature in black ink, appearing to read 'Javier Castro'.

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Assessment Team Leader