



CLUB DES AMIS DU VILLAGE

PROJECT: "IMPROVE ACCESS TO WATER FOR THE COMMUNITIES OF TCHEBIDE, KPARATAO AND KPANGALAM – CHATEAU IN THE PREFECTURE OF TCHAOUJJO AND KOMINIDE IN THE PREFECTURE OF TCHAMBA »

**MID-TERM REPORT OF THE ACTIVITIES OF THE 2025 DRILLING PROJECT
(FROM PROJECT LAUNCH TO BOREHOLE WATER ANALYSIS)**

Ref.: NGO CAV / GG / Projects 2025 / 001

FEBRUARY 2025

« UNE ORGANISATION DE PROMOTION DE LA FEMME ET DE PROTECTION DE L'ENFANCE »

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INTRODUCTION

The implementation of the activities of the project "Improving access to water for the communities of Tchébidè, Kparatao and Kpangalam - Château in the Prefecture of Tchaoudjoet Kominidè in the Prefecture of Tchamba" began with the awareness-raising stage of the beneficiary communities on January 7 and 8, 2025. It is implemented by the NGO CAV with the financial support of the COCHRAN Family based in the USA through GlobalGiving.

This report summarizes all activities carried out from January 7 to February 12, 2025.

The following activities were carried out during this period:

- Raising awareness among the population about the project and setting up drilling sites ;
- Carrying out geophysical studies;
- Drilling wells;
- Water pumping and analysis
- Monitoring of project activities.

PROGRESS OF ACTIVITIES

1. Raising awareness among the population about the project and establishing drilling sites:

The awareness-raising sessions took place on January 7 and 8, 2025 in the 4 localities benefiting from the drilling project for the year 2025.

During these awareness sessions, the beneficiaries were provided with information on their responsibilities to now take charge of the management and maintenance of the works to be built.

An area of at least a quarter of a hectare was selected by each community for geophysical studies. This selected area is that belonging to the entire community or area donated by the community or landowners with proof of ownership of the site.

2. Geophysical studies:

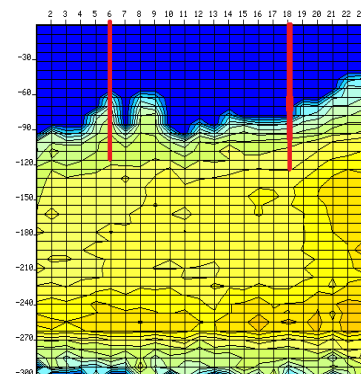
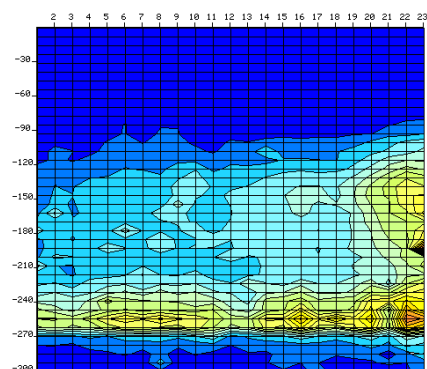
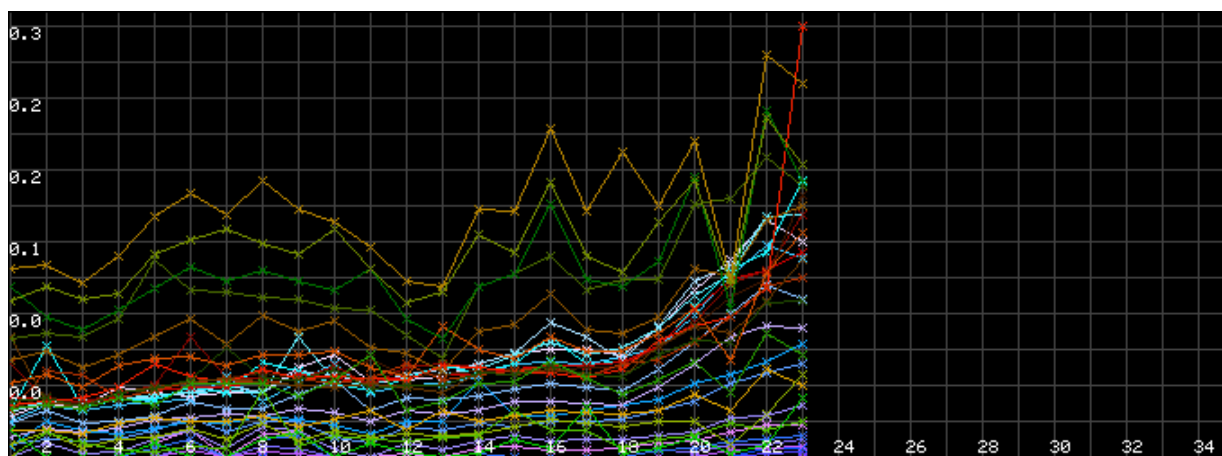
Geophysical studies took place in the beneficiary communities from January 11 to 14, 2025.

These studies revealed the existence of abundant water tables between 80 and 180 meters deep as indicated by the following results per site:

Table 1 – Results of geophysical studies

Figure 1 – Geophysical studies on the Kominidè site

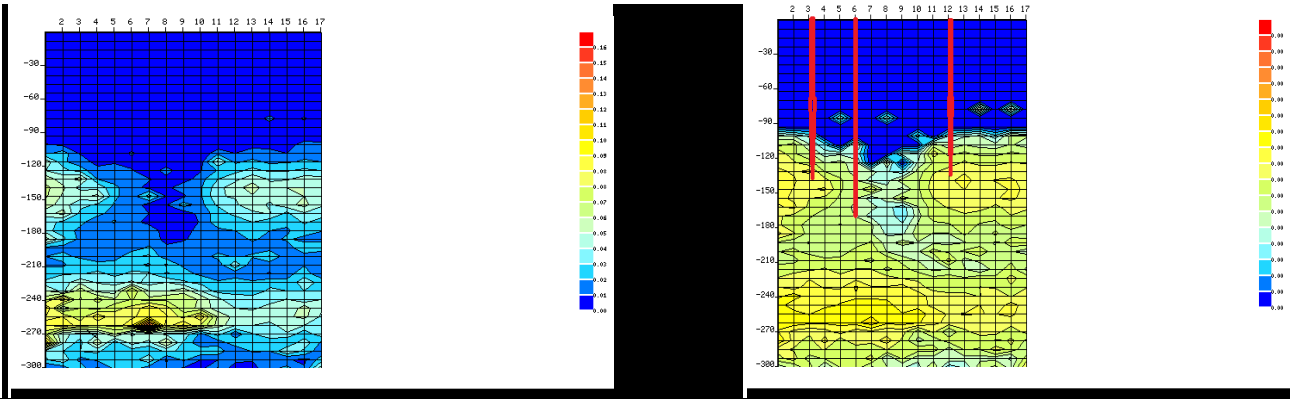
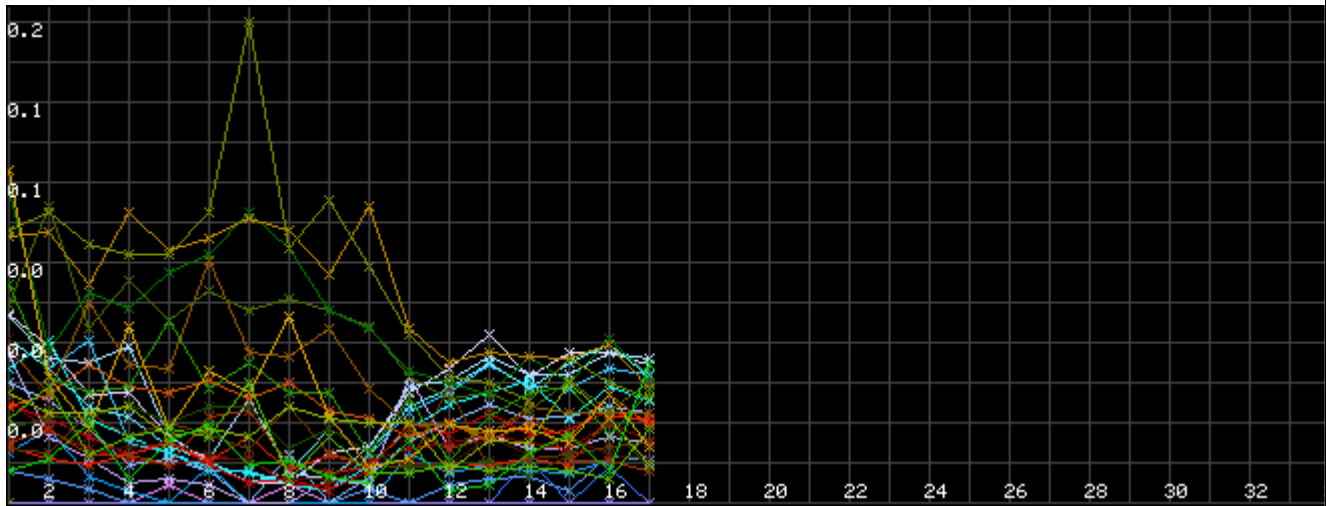
Date: 11/01/2025	Region: Central	Prefecture: Tchamba
Canton: Kri-Kri ou Adjeide	Village: Kominide	Place name: Center
Profile length: 33m	Number of points: 23 Positive point: 06	Orientation: E/W
Latitude: 1°24'53.54"	Longitude: 9°10'53.33"	



Conclusion: Point 06 is favorable for drilling 90 m on average and 120 m maximum depth.

Figure 2 – Geophysical studies on the Tchébidè site

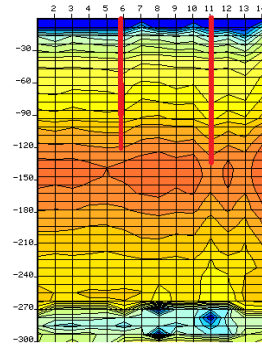
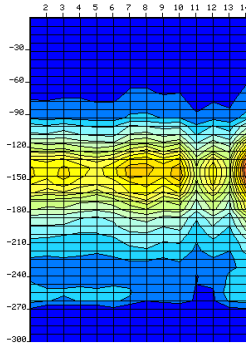
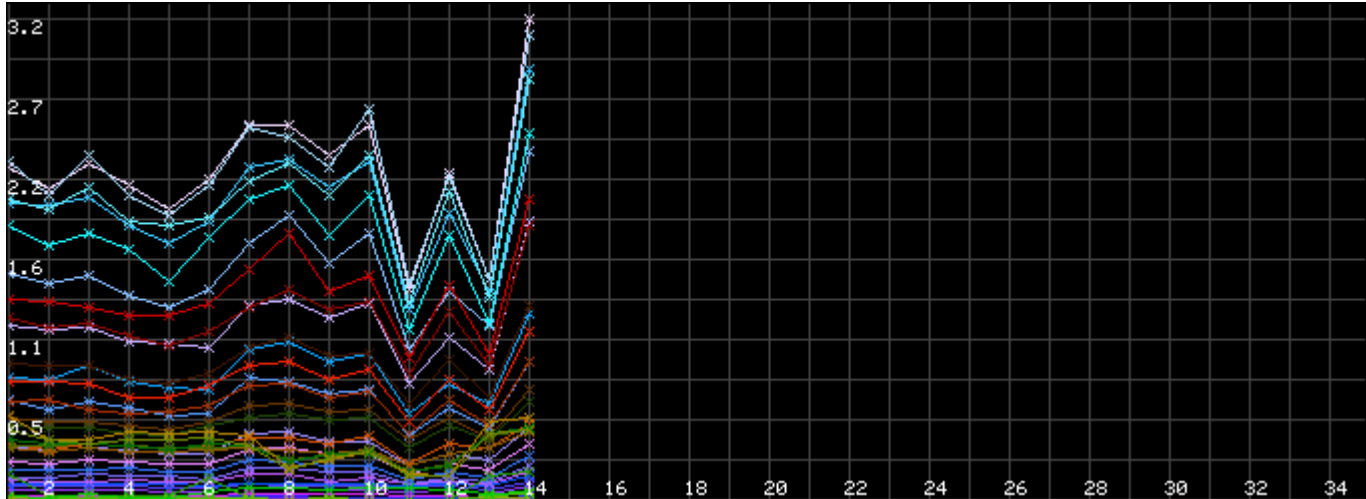
Date: 12/01/2025	Region: Central	Prefecture: Tchaoudjo
Canton: Lama tessi	Village: Abatchang	Place name: Tchebide
Profile length: 27m	Number of points: 17	Orientation: E/W
	Positive point: 6	
Latitude: 1°09'34.45"	Longitude: 8°48' 45.98"	



Conclusion: Point 6 is favorable for a drilling of 130 m on average and 180 m maximum depth

Figure 3 – Geophysical studies on the Kparatao Library site

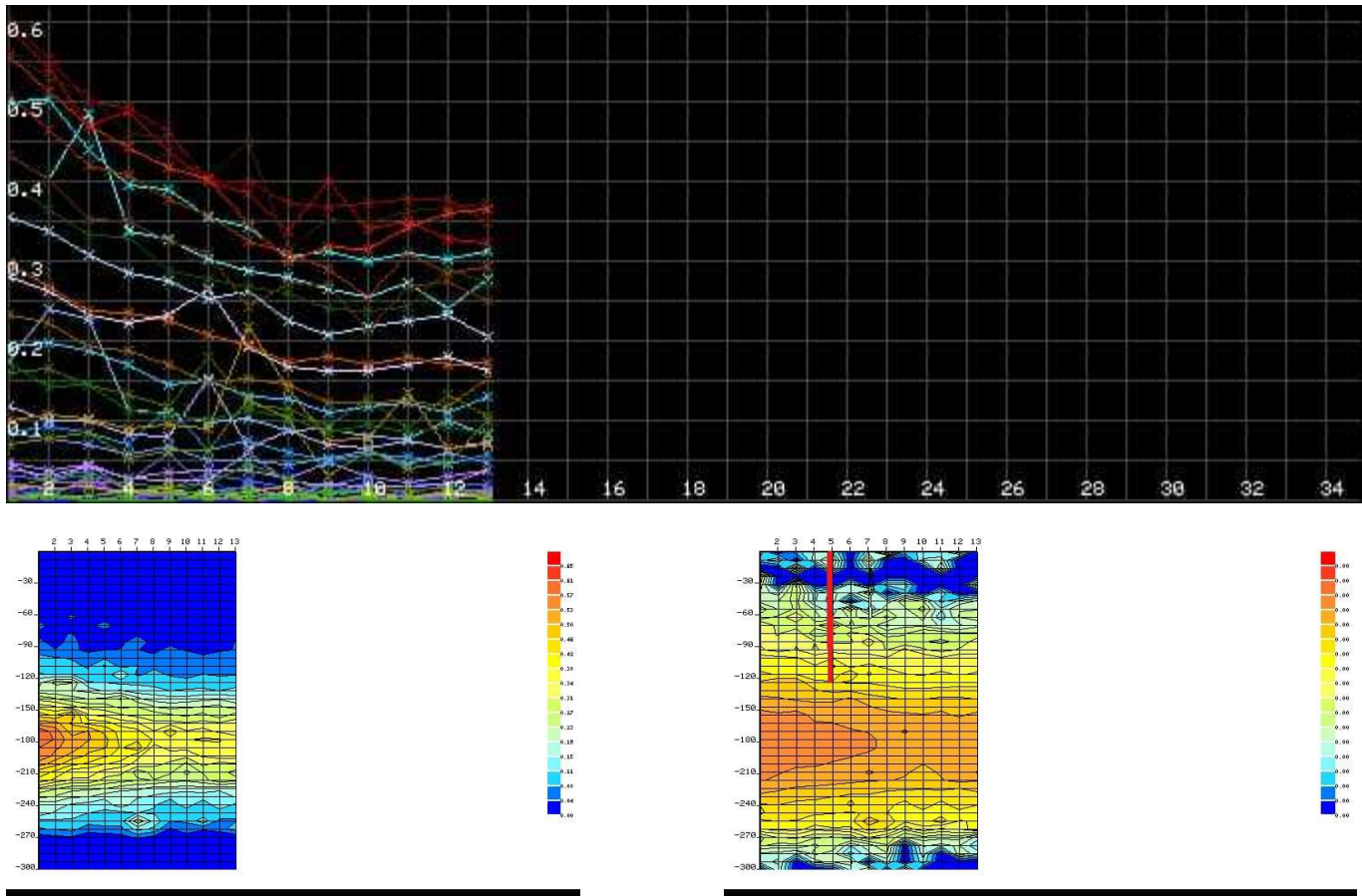
Date: 01/13/2025	Region: central	Prefecture: Tchaoudjo
Canton: Kparatao	Village: Kparatao	Place name: Library
Profile length: 24	Number of points: 14	Orientation: E/W
	Positive point: 11	
Latitude: 1°11'40.67"	Longitude: 8°57'04.71"	



Conclusion: point 11 is favorable for a drilling of 90 m on average 120 m depth maximum

Figure 4 – Geophysical studies on the Kpangalam-Château site

Date: 01/14/2025	Region: central	Prefecture: Tchaoudjo
Canton: Kpangalam	Village: Kpangalam	Place name: Château cattle market
Profile length: 23	Number of points: 13	Orientation: W/ E
	Positive point: 05	
Latitude: 1°07'28.79"	Longitude: 9°01'16.83"	



Conclusion: point 05 is favorable for a drilling of 80 m on average 110 m depth at most

3. Drilling , Development and Equipment of Drilling

Drilling and development work was successfully carried out at the 4 project sites from January 16 to 19, 2025.

The technical data are recorded in the table below

Table 2 - Drilling results

No.	Region	Prefecture	Canton	Villages	Place name	Drilling date	Depth (m)	Drilling rate (m ³ /h)	Status
1	Central	Tchamba	Adjeide	Kominid	Center	01/16/2025	75	5,687	Positive
2	Central	Tchaoudjo	Lama tessi	Abatchang	Tchebide	01/17/2025	70	7,920	Positive
3	Central	Tchaoudjo	Karatao	Kparatao	Library	01/18/2025	95	2.350	Positive
4	Central	Tchaoudjo	Kpangalam	Kpangalam	Castle	01/19/2025	85	15,300	Positive

4. Pumping and physicochemical and microbiological analyses of borehole water:

The pumping of the boreholes was carried out two (2) weeks after the drilling stage. It took place from February 5 to 10, 2025 and consisted of:

- ✓ Measure the flow rate of the borehole;
- ✓ Determine the variation in its production at different flow rates;
- ✓ Quantify aquifer characteristics, including permeability coefficient and water storage capacity.

The pumping data is shown in the table below:

Table 3 – Pumping results

Region	Prefecture	Canton	Villages	Place name	Flow rate (m ³)	Static Level (m)	Dynamic Level (m)	Pump rating (m)
Central	Tchamba	Adjeide	Kominidè	Center	6,800	06.52	70	73
Central	Tchaoudjo	Lama tessi	Abatchang	Tchebide	12.00	12.70	35	40
Central	Tchaoudjo	Karatao	Kparatao	Library	5,700	05.83	65	75
Central	Tchaoudjo	Kpangalam	Kpangalam	Castle	14,200	6.05	30	45

At the end of the pumping, water samples were taken for physicochemical and bacteriological analyses at the laboratory, at the Regional Directorate of Hygiene and Sanitation. The analyses were carried out from February 5 to 11, 2025.

The results of the analyses were therefore deemed satisfactory and fully meet WHO (World Health Organization) standards.

The results are contained in the following tables

Figure 5 : Results of the physicochemical and bacteriological analyses of the water from the borehole of the Kpangalam-Château breeders' group

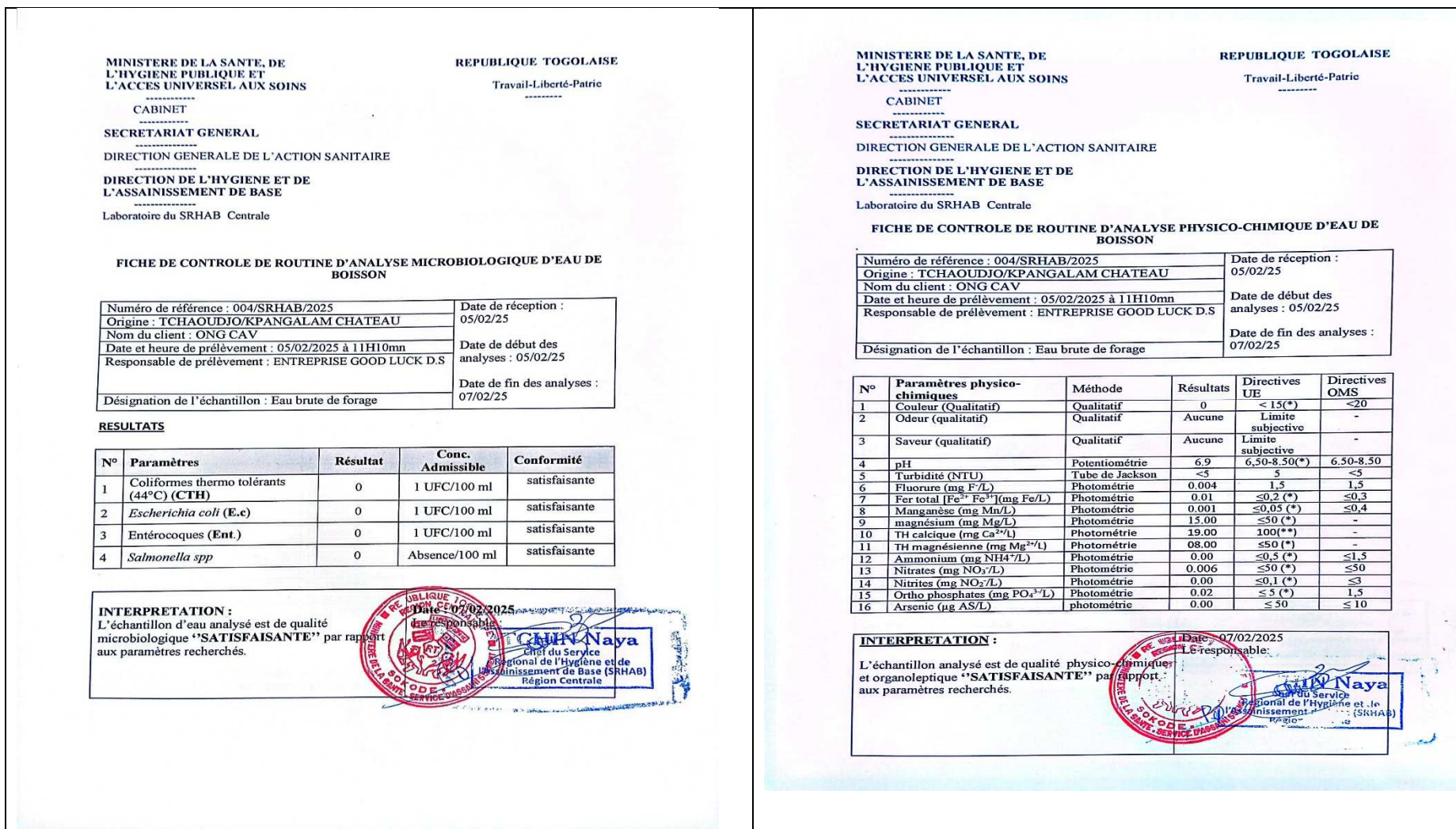


Figure 6 : Results of the physicochemical and bacteriological analyses of the water from the borehole in the village of Kominidè

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Travail-Liberté-Patrie

CABINET
SECRETARIAT GENERAL
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DIRECTION DE L'HYGIENE ET DE L'ASSAINISSEMENT DE BASE
Laboratoire du SRHAB Centrale

FICHE DE CONTROLE DE ROUTINE D'ANALYSE MICROBIOLOGIQUE D'EAU DE BOISSON

Numéro de référence : 005/SRHAB/2025	Date de réception : 06/02/25
Origine : TCHAMBA/ADJEIDE/KRIKRI	
Nom du client : ONG CAV	
Date et heure de prélèvement : 06/02/2025 à 12H35mn	Date de début des analyses : 06/02/25
Responsable de prélèvement : ENTREPRISE GOOD LUCK D.S	
Désignation de l'échantillon : Eau brute de forage	Date de fin des analyses : 08/02/25

RESULTATS

N°	Paramètres	Résultat	Conc. Admissible	Conformité
1	Coliformes thermo tolérants (44°C) (CTH)	0	1 UFC/100 ml	satisfaisante
2	<i>Escherichia coli</i> (E.c)	0	1 UFC/100 ml	satisfaisante
3	Entérocoques (Ent.)	0	1 UFC/100 ml	satisfaisante
4	<i>Salmonella spp</i>	0	Absence/100 ml	satisfaisante

INTERPRETATION :
L'échantillon d'eau analysé est de qualité microbiologique "SATISFAISANTE" par rapport aux paramètres recherchés.

Date : 08/02/2025
Responsable:
CHUN Naya
Responsable du Service Régional de l'Hygiène et de l'Assainissement de Base (SRHAB) Région Centrale

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FICHE DE CONTROLE DE ROUTINE D'ANALYSE PHYSICO-CHEMIQUE D'EAU DE BOISSON

Numéro de référence : 005/SRHAB/2025	Date de réception : 06/02/25
Origine : TCHAMBA/ADJEIDE/KRIKRI	
Nom du client : ONG CAV	
Date et heure de prélèvement : 06/02/2025 à 12H35mn	Date de début des analyses : 06/02/25
Responsable de prélèvement : ENTREPRISE GOOD LUCK D.S	
Désignation de l'échantillon : Eau brute de forage	Date de fin des analyses : 08/02/25

N°	Paramètres physico-chimiques	Méthode	Résultats	Directives UE	Directives OMS
1	Couleur (Qualitatif)	Qualitatif	0	< 15(*)	<20
2	Odeur (qualitatif)	Qualitatif	Aucune	Limite subjective	-
3	Saveur (qualitatif)	Qualitatif	Aucune	Limite subjective	-
4	pH	Potentiométrie	7.1	6,50-8,50(*)	6,50-8,50
5	Turbidité (NTU)	Tube de Jackson	<5	5	<5
6	Fluorure (mg F/L)	Photométrie	0.06	1,5	1,5
7	Fer total [Fe ²⁺ Fe ³⁺] (mg Fe/L)	Photométrie	0.001	≤0,2 (*)	≤0,3
8	Manganèse (mg Mn/L)	Photométrie	0.003	≤0,05 (*)	≤0,4
9	magnésium (mg Mg/L)	Photométrie	14.00	≤50 (*)	-
10	TH calcique (mg Ca ²⁺ /L)	Photométrie	25.00	100(**)	-
11	TH magnésienne (mg Mg ²⁺ /L)	Photométrie	13.00	≤50 (*)	-
12	Ammonium (mg NH ₄ ⁺ /L)	Photométric	0.00	≤0,5 (*)	≤1,5
13	Nitrates (mg NO ₃ ⁻ /L)	Photométric	1.04	≤50 (*)	≤50
14	Nitrites (mg NO ₂ ⁻ /L)	Photométrie	0.002	≤0,1 (*)	≤3
15	Ortho phosphates (mg PO ₄ ³⁻ /L)	Photométrie	0.001	≤ 5 (*)	1,5
16	Arsenic (µg AS/L)	photométrie	0.00	≤ 50	≤ 10

INTERPRETATION :
L'échantillon analysé est de qualité physico-chimique et organoleptique "SATISFAISANTE" par rapport aux paramètres recherchés.

Date : 08/02/2025
Responsable:
CHUN Naya
Responsable du Service Régional de l'Hygiène et de l'Assainissement de Base (SRHAB) Région Centrale

Figure 7 : Results of the physicochemical and bacteriological analyses of the water from the borehole in the village of Tchebidè

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Laboratoire du SRHAB Centrale

FICHE DE CONTROLE DE ROUTINE D'ANALYSE MICROBIOLOGIQUE D'EAU DE BOISSON

Numéro de référence : 006/SRHAB/2024	Date de réception : 08/02/2025
Origine: TCHAOUDJO/LAMA-TESSI/ABATCHANG/TCHEBIDE	
Nom du client : ONG CAV	
Date et heure de prélèvement : 08/02/2024 à 12H25mn	Date de début des analyses : 08/02/25
Responsable de prélèvement : ENTREPRISE GOOD LUCK D.S.	
Désignation de l'échantillon : Eau brute de forage	Date de fin des analyses : 10/02/25

RESULTATS

N°	Paramètres	Résultat	Conc. Admissible	Conformité
1	Coliformes thermo tolérants (44°C) (CTH)	0	1 UFC/100 ml	satisfaisante
2	<i>Escherichia coli</i> (E.c)	0	1 UFC/100 ml	satisfaisante
3	Entérocoques (Ent.)	0	1 UFC/100 ml	satisfaisante
4	<i>Salmonella spp</i>	0	Absence/100 ml	satisfaisante

INTERPRETATION :
L'échantillon d'eau analysé est de qualité microbiologique "SATISFAISANTE" par rapport aux paramètres recherchés.

Date: 10/02/2025
Le responsable:

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FICHE DE CONTROLE DE ROUTINE D'ANALYSE PHYSICO-CHIMIQUE D'EAU DE BOISSON

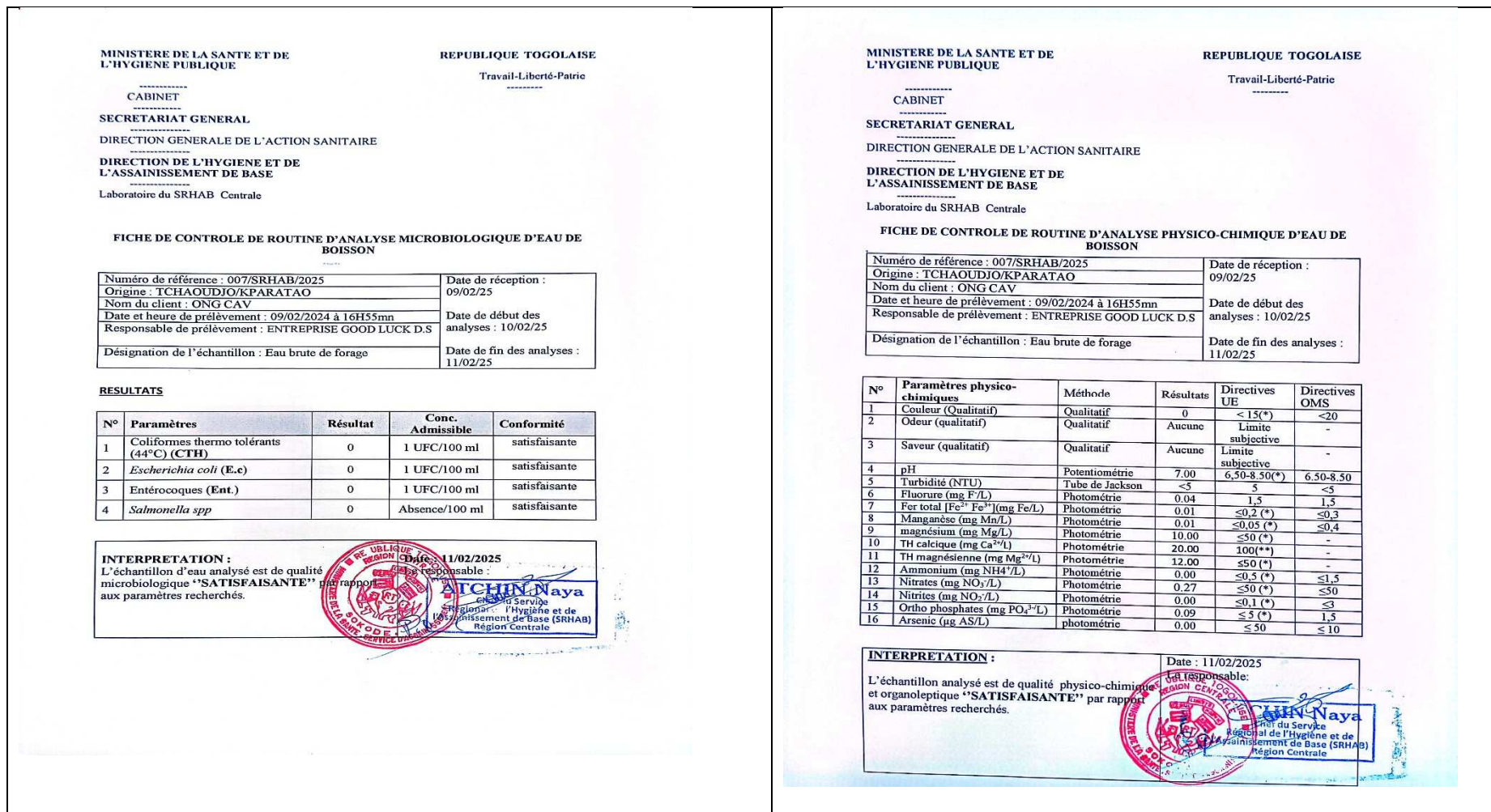
Numéro de référence : 006/SRHAB/2025	Date de réception : 08/02/2025
Origine: TCHAOUDJO/LAMA-TESSI/ABATCHANG/TCHEBIDE	
Nom du client : ONG CAV	
Date et heure de prélèvement : 08/02/2024 à 12H25mn	Date de début des analyses : 08/02/25
Responsable de prélèvement : ENTREPRISE GOOD LUCK D.S.	
Désignation de l'échantillon : Eau brute de forage	Date de fin des analyses : 10/02/25

N°	Paramètres physico-chimiques	Méthode	Résultats	Directives UE	Directives OMS
1	Couleur (Qualitatif)	Qualitatif	0	< 15(*)	<20
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3	Saveur (qualitatif)	Qualitatif	Aucune	Limite subjective	-
4	pH	Potentiométrie	7.2	6.50-8.50(*)	6.50-8.50
5	Turbidité (NTU)	Tube de Jackson	<5	5	<5
6	Fluorure (mg F/L)	Photométrie	0.02	1.5	1.5
7	Fer total [Fe ²⁺ Fe ³⁺](mg Fe/L)	Photométrie	0.03	≤0.2 (*)	≤0.3
8	Manganèse (mg Mn/L)	Photométrie	0.002	≤0.05 (*)	≤0.4
9	magnésium (mg Mg/L)	Photométrie	12.00	≤50 (*)	-
10	TH calcique (mg Ca ²⁺ /L)	Photométrie	21.00	100(**)	-
11	TH magnésienne (mg Mg ²⁺ /L)	Photométrie	09.00	≤50 (*)	-
12	Ammonium (mg NH ₄ ⁺ /L)	Photométrie	0.00	≤0,5 (*)	≤1,5
13	Nitrate (mg NO ₃ ⁻ /L)	Photométrie	0.90	≤50 (*)	≤50
14	Nitrite (mg NO ₂ ⁻ /L)	Photométrie	0.002	≤0,1 (*)	≤3
15	Ortho phosphates (mg PO ₄ ³⁻ /L)	Photométrie	0.01	≤ 5 (*)	1,5
16	Arsenic (µg AS/L)	photométric	0.00	≤ 50	≤ 10

INTERPRETATION :
L'échantillon analysé est de qualité physico-chimique et organoleptique "SATISFAISANTE" par rapport aux paramètres recherchés.

Date: 10/02/2025
Le responsable:

Figure 8 : Results of the physicochemical and bacteriological analyses of the water from the Kparatao Library borehole



5. Coordination and monitoring of project activities.

Follow-ups were carried out by the project team. This team is composed of the Coordinator, the Accountant and the Cashier of the NGO. Monitoring tours of drilling work were organized during geophysical studies, drilling and water pumping work. Telephone, email and Whatsapp contacts were exchanged between the project team, the company and the person responsible for technical monitoring of the project.

II - NEXT STEPS:

The activities to be carried out from February 20, 2025 are as follows:

- Construction of the superstructures of the 2 human-powered drillings;
- Construction of water towers that will support the polytanks and solar panels;
- Supply of equipment and installation of mechanical and photovoltaic power supply systems;
- Support for the establishment of Water Committees, responsible for monitoring and managing drilling;
- Training of Water Committees on the maintenance and sustainable management of boreholes;
- Technical and provisional reception of works;
- Final acceptance of works;
- Monitoring and supervision of project activities.

Done in Sokodé, February 13, 2025.

For the NGO CAV, the Coordinator



GBELE-GUEWE Djobo Ousmane

ANNEXES:

SOME PHOTOS OF THE ACTIVITIES CARRIED OUT



Awareness raising in the Tchébidè community on January 7, 2025



Awareness raising among the Fulani herder community of Kpangalam - Château on January 8, 2025



Geophysical studies on the Kominidè site on January 11, 2025



Geophysical studies on the Tchébidè site on January 12, 2025



Drilling of wells on the site of the village of Kominidè on January 17, 2025



Drilling of wells on the site of the Kparatao Library on January 18, 2025



Pumping of the Tchébidè borehole on February 9, 2025



Pumping of the Kparatao Library borehole on February 8, 2025