

HAND PUMP REPAIR GRANT 20-98372 FINAL REPORT

PROJECT ACCOMPLISHMENTS Rotary

Our team repaired or replaced 328 broken hand or electric pumps funded by this project. We partnered with communities and seven district assembly WASH departments to get this job done. We impacted the lives of **137,560 people in 305 communities in 13 districts** in central Ghana. The impacted cities are in Bono, Bono East and Ahafo Regions. The work was completed in 305 cities in 13 districts. The Ghana districts assemblies are Banda, Berekum West, Dormaa East, Dormaa Central, Jaaman North, Jaaman South, Sunyani East, Sunyani West, Tain, Techiman North and Wenchi Districts. Seventeen small-town water systems with an electric pump were repaired in six districts. We trained over **1,830 WATSAN Committee team** members how to manage their community water systems. We empowered communities and district assemblies to contribute toward solving their own problem. As a result, the communities raised over \$5,093 toward maintaining their pumps! We also trained **2,715 people how to start and fund Village Level Savings Associations** to increase economic development and sustainability of the borehole pumps. We repaired concrete pads for some of the communities where the hand pumps were repaired and the concrete needs to be fixed. We exceeded our targeted number of hand pump repairs by 175%. We impacted 142% more lives than was in our plan. We almost doubled the number of districts impacted from seven to thirteen districts. The Ghana district assemblies contributed their own personnel, transportation and resources to the project.

ORIGINAL PROJECT OBJECTIVES

Global Grant 20-98372's goal was to repair or replace 187 existing pumps. The total project budget is \$200,098. Our goal was to impact 89,000 people. The seven targeted districts were Sunyani West, Berekum West, Jaaman South, Dormaa Central, Sunyani East, Tain and Techiman North Districts.

PROJECT IMPLEMENTATION

The project repaired hand pumps and a few electrical pumps: **Pump Repair:** The Sunyani East Rotarians selected two contractors to repair hand pumps in the targeted communities. The two contractors were Succoff Ventures and Radiant Solutions for the pump repairs. We worked closely with the District Assemblies to identify the communities to be helped and the District Assembly WASH Departments were immensely helpful in this effort.



Photo Above: Repaired pump with a new concrete pad in Sunyani West District.

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Photo Above: There was excitement when the men of Mmaampehia helped repair their hand pump and learn how to sustainably maintain the hand pump into the future.

MEASURING SUCCESS

District Name	Pumps	# Beneficiaries
Bono	283	120,408
Banda	8	1,837
Berekum West	24	13,381
Dormaa Central	44	18,441
Dormaa East	10	3,017
Dormaa West	10	2,518
Jaaman North	9	2,045
Jaaman South	45	21,339
Sunyani East	33	17,850
Sunyani West	44	14,680
Tain	47	22,295
Wenchi	9	3,005
Bono East	33	12,660
Techiman North	33	12,660
Ahafo	12	4,492
Tano North	12	4,492
Grand Total	328	137,560



Photo Above: Water & Sanitation (WATSAN) Committee Training Session at Atwensea.

We repaired 328 pumps in 305 communities who have a reliable water supply now. We trained 1,830 people how to maintain their community water systems through reinvigorated Water and Sanitation Committees (WATSANs).

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TYPE OF PUMPS REPAIRED

Type of Pump	Count	Percent
Afridev	260	79%
electric pump	17	5%
Mark 2	51	16%
Grand Total	328	100%

District Name	Electric Pump
Banda	1
Berekum West	4
Jaaman South	6
Sunyani East	3
Tano North	2
Wenchi	1
Grand Total	17

We repaired three types of pumps for boreholes: Afridev, Mark 2 and electric pumps. Most pumps used in Ghana are Afridev hand pumps. 79% of the pumps repaired were Afridev pumps. The Mark 2 pumps are used to pump water from deeper boreholes. The electric pumps are used when the borehole is mechanized to provide water to more people from a higher yielding borehole. The mechanized borehole is usually deeper, too. It was unexpected that we would have the budget to repair 17 electric pumps and 51 Mark 2 hand pumps. We exceeded our goal on the number of pumps repaired even though 68 pumps were more expensive to repair.



Children are the motivating factor to get water flowing in Kofiko community.

WATSAN TRAINING

The WATSAN training is the key to sustainability. The community leaders were not insisting on charging by the household per month. They thought they could collect the water fees after harvest season. We insisted on at least two women be trained on the WATSAN Committee. We also included Village Level Savings Association training which will be discussed in the next section. We trained 1,908 WATSAN Committee members. Additional people listened to the training. We conducted orientation WATSAN training which encouraged the community WATSANs to collect funds. We had over GHc 28,520 or \$5,093 in funds raised by the communities to maintain their pumps.

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VILLAGE LEVEL SAVINGS (VLSA) TRAINING

We included Village Level Savings Association training while we conducted the WATSAN Committee training. Walter Hughes learned about VLSA training from USAID and Catholic Relief Services in Ethiopia in 2019. We've also included micro-credit loan training in grants in Kumasi and Obuasi Ghana over the past couple of years. The communities served by this grant are very rural and poor. The families do not have access to traditional banking or financial services. We will follow-up with the communities where VSLA training occurred in six and twelve months. The people trained were taught to save money and form lending groups. These lending groups will give out loans to members of their lending group for women-based businesses, seed and fertilizer and other needs. The increased economic activity should make it easier for the families to fund maintenance of their community boreholes. The incremental training cost was negligible since Seth Jiam of Succoff Ventures was already in the community for the WATSAN training.

PROJECT SUMMARY EXPENSES

Expenses by Solution	Sum of Ghana Cedis GHS	Sum of US Dollars	Original Budget	Variance
Bank Fees	1,654	\$290	\$691.00	\$401.15
Contingency	0	\$0	\$12,855.00	\$12,855.00
Publicity	10,850	\$1,871	\$2,750.00	\$879.31
Repair Hand Pumps	1,136,978	\$197,937	\$176,360.39	-\$21,576.96
Labor for Repairs	141,439	\$24,989	\$11,107.80	-\$13,881.13
Mobilization	37,259	\$6,424	\$1,038.89	-\$5,384.99
Parts for Pumps	837,334	\$145,494	\$138,830.19	-\$6,663.41
Project Management	6,300	\$1,086	\$1,904.63	\$818.42
Reports	4,447	\$780	\$969.63	\$189.44
WATSAN Training	110,200	\$19,165	\$22,509.26	\$3,344.71
Rotarian Monitoring	0	\$0	\$1,246.67	\$1,246.67
Signage	0	\$0	\$1,000.00	\$1,000.00
Toolkits	0	\$0	\$5,194.44	\$5,194.44
Grand Total	1,149,482	\$200,098	\$200,098	\$0

The Hand pump repair budget is broken down into labor, mobilization, pump parts, WATSAN training, reports and project management. There's also training for Village Savings and Loan Associations (VSLAs) that occurred in the communities at the same time as the WATSAN training. The Village Savings and Loan Association training was included to help to increase economic viability of the communities to create their own savings which in turn can be turned into micro-credit loans for the members of the savings and lending groups. The funds for contingency, signage, toolkits and Rotarian travel funds were used to increase the number of hand pumps repaired.

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METRICS: IMPACT MEASURES

Measure	Definition	Estimated
		Metrics
Total number of direct beneficiaries	Individuals who receive clear and immediate benefit.	137,560 People
Total number of boreholes repaired	Number of communities with new wells/boreholes.	305 Hand Pumps
Number of People with Access to Improved Drinking Water	Number of people in community who are benefitting from repaired pumps.	137,560
Number and Percentage of Boreholes in use 1-3 years after project completion.	In use is still functioning properly, being used, and being properly maintained.	100% in Year 2
Number of people trained for WATSAN Committees	The total number of people on the Water & Sanitation Committees formed and trained.	1,908
Number of people trained for Village Savings and Loan Associations	The total number of people who learned to saving money and then give out micro-credit loans within their Lending group or VSLA.	2,715
Total number of communities that are using a water usage fee structure and have received health education, awareness and hygiene training	Communities that were trained how to maintain a borehole, implement hygiene and sanitation.	305
		towns reached with 300 or more population



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PROJECT BANK STATEMENTS & RECEIPTS

The bank statements in US Dollars and Ghana Cedis are in Dropbox and at grants.rotary.org. Also, the receipts supporting the transactions are also in one receipt document. We also have the bank account balanced in the Income and Expense tab of our project expense spreadsheet. The spreadsheet also shows the actual and budget expenses.

FINANCIAL MANAGEMENT

Eric Adu Gyamfi +233 24 214 0203 adugyamfi17@gmail.com and Treasurer Daniel Korkor
Walter Hughes, Jr. +1 540-493-4715 walterkhughes@gmail.com

Qualifications: Walter Hughes, Jr. is mentoring the Montreal and Sunyani East Rotarians. Past-President Eric Adu Gyamfi is the Club lead on this project. He coordinates information from the local district assemblies and partnering organizations.

We've managed the project in Dropbox so that we could have the common records that can be shared with all stakeholders. We've maintained a master expense spreadsheet, cost estimates, actual receipts and documentation of our work. The project funds were managed by the Sunyani East Rotary Club in Ghana. We required two authorizations from two of three Rotarians before each payment. We also obtained receipts for the expenses and obtained bank statements that reconciled to the receipts.

1. The grant had a separate USD and GHS accounts solely for payments on the grant activities.
2. Payment to contractors and suppliers were authorized by the grant management committee and payment made by the grant account signatories either in bank note or cash.
3. Receipts and invoices for all payments were kept by the club through the primary contact for accounting and audit.
4. All payments are recorded in the grant account bank cheque book with details of payment.
5. Bank statements have been obtained at regular intervals to verify payments and bank balances to make sure the project payments are within approved budget levels.

CHALLENGES & OPPORTUNITIES

The project team dealt with the challenge of implementing a project during the COVID-19 pandemic. Travel during the rainy season is always a challenge. Communication between the Sunyani East Rotary Club and the Montreal Rotary Club was weak. Most communication happened via email or Whatsapp. We've been able to empower community leaders, so we were able to accomplish more because the community leaders supported the efforts with their time, talents and funding. The major challenge was that the Sunyani East Rotarians selected a publicity vendor without checking with the International Rotarians and evaluating references. Our cost per hand pump was \$635 including three expensive electrical pumps compared to our budgeted \$978. This allowed us to repair more hand pumps for the same amount of money.

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PROJECT INCOME

No income was generated through sales, interest, or other sources. The communities produced income for maintaining their community water system by charging by the bucket or by the month by the Water & Sanitation (WATSAN) Committee. We included Village Savings and Loan Association training to teach women and leaders how to start savings groups in their community which can in turn be loaned out to buy seeds and fertilizer, products for a local store or other business needs. These lending groups are in communities that do not have traditional banking or financial institutions. The VSLAs are a way to increase economic activity using local resources.

VILLAGE SAVINGS & LOAN ASSOCIATIONS

This was our first global grant to incorporate Village Savings and Loan Association training into the training effort. Seth Jiam trained 2,715 women and men how to create and fund a Village Savings and Loan group. The individuals will save funds which will be used to give out loans to women-based businesses, farmers and other economic efforts in their community. The money is raised locally, and the micro-credit loans are given out to members of the loan group that saved the money. Our hope is that the VSLAs will empower women and increase the economic viability of the community so that there enough money flowing to maintain the hand pumps in the future. We also expect that micro-credit loans will increase yields of crops and increase incomes of businesses that receive a loan. None of the Rotary grant funds were used to issue VSLA loans. The loan funds are all community generated.



Photo: Community members are excited near Techiman that the water is flowing again.

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MONITORING AND EVALUATION

Name: Eric Adu Gyamfi

Club: Rotary Club of Sunyani East

Rotary position: President 2019-2020

Address: PO Box 1178 City: Sunyani

Region: Bono Country: Ghana

E-mail: adugyamfi17@gmail.com

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The Community Water and Sanitation Agencies in each of the 13 districts provided monitoring support for the project. In addition, the CWSA teams were involved in the project with repairs. Some provided summary reports afterwards to the team.

President Eric Adu Gyamfi of Sunyani East Rotary Club has worked closely with the CWSA of the Districts to obtain all necessary metrics. CWSA is the mandated national organization with regional and district agencies responsible for small town water systems. They developed policy, regulate and control water supply and water improvement related activities in villages and small towns. They have the managerial and technical resources and experience to undertake this work. The district offices are under the direct supervision of the Metropolitan, Municipal and District Assemblies.

PARTICIPANTS

SUNYANI EAST ROTARY CLUB – HOST CLUB PARTICIPATION

The host sponsor members performed the following roles and responsibilities:

1. Undertook joint needs assessment and confirmation with international partners led by President Eric Gyamfi on their visits to Ghana.
2. Engaged the beneficiary communities and the District Assembly to set up WATSAN Committees and bank accounts for each beneficiary community for the purposes of maintenance and hygiene training for sustainability of the water systems.
3. Evaluated the bids for pump repairs and advised international partners regarding contractors.
4. Undertook regular visit to project sites for inspection on progress of work and interaction with beneficiary communities.
5. Contributed funds to the cost of the project.
6. Educated beneficiary communities on the objectives and mission of Rotary International.
7. Jointly wrote the grant report with international sponsor.
8. Keep project funds, authorized payments to contractors and suppliers, and kept all records on the grant activities and expenditures.

President Eric Adu Gyamfi is the Project Manager for the host club. President Rockson Osei and Rotarian Treasurer Daniel Korkor also participated as the project committee.

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INTERNATIONAL ROTARY CLUBS & DISTRICT PARTICIPATION

Jean Gagnon and Fatima Langlois of the Montreal Rotary Club raised a significant amount of money for this project. The Montreal Rotary Club is the lead international Rotary Club. The international Rotarians led by Walter Hughes traveled to Sunyani twice in 2019 to partner with the Sunyani East Rotarians and teach about empowerment and to visit the targeted communities. The international Rotarians communicated with the host Rotarians via email and WhatsApp. The international Rotarians raised the funds and communicated with the other funding partners as well as communicated with Radiant Solutions and Sucoff Ventures when there were critical issues that couldn't be handled locally by the host Rotarians.

The international Rotarians assumed the following responsibilities:

1. Undertook joint needs assessment and confirmation with international partners.
2. Visited project sites to verify work and interact with community leaders.
3. Constantly engaged host sponsor on bids, awards and payments.
4. Jointly wrote the grant report with host sponsor.
5. Engaged in fundraising for the project funding with many Rotary Clubs and Districts.

COOPERATING ORGANIZATIONS

Who are the leaders in the district assemblies who partnered on this project?

District/Municipality	Name of District or Municipal Chief Executive	Whatsapp Number and Email Number
Techiman North	Hon. Peter Mensah Planning Officer	+233 20 297 6834 synbud.ey@gmail.com
Dormaa Central	Hon. Drissah Quattara	+233 20 819 6210
Sunyani West	Hon. Martin Obeng	+233 20 931 9769
Sunyani East	Hon. Justina Owusu-Banahene Gideon Oppong, Planning Officer	+233 20 831 8214 gideonoppong88@gmail.com
Tain District	Hon Charity Akua Foriwaa Dwomoh	+233 24 421 7220 cafdwomoh@yahoo.com
Berekum West	Hon. Isaac Osei	+233 20 822 0604
Jamaan South	Alhaji Abuu Rtn George Ankamah	+233 20 640 4375 ankamah1984@gmail.com

Describe how cooperating organizations participated in the project.

The thirteen (13) District Assemblies have the political and administrative jurisdiction over the selected communities in which the water projects were implemented. The communities were therefore selected from the district's medium-term development plan which contains the development priorities of the district for the next five years. Beyond that, they have direct supervisory functions over all decentralized national agencies and institutions and therefore CWSA is under its control and direction at the local level. The assembly commands political & technical resources aid the effective implementation of the project.

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The District Assemblies provided the following:

1. List of beneficiary communities from its development plan.
2. Assisted with appropriate means of transport to access difficult areas that sponsors vehicles could not access due to bad roads.
3. Lead the community entry and mobilization efforts through the technical staff at the District Water and Sanitation Office and local government representatives in the communities.
4. Monitored and reported on progress of work on implementation activities to host and international sponsors.

Sucoff Ventures was contracted to repair hand pumps and conducted all of the WASH & WATSAN Training. Seth Jiam is the manager for Succoff Ventures. Our health education and training focused on health awareness, hygiene, the benefits of (a) Proper hand washing with soap or ash under running water before eating and after visiting the toilet; (b) Clearing and keeping our surroundings clean; (c) Emptying stagnant water receptacles to prevent mosquitoes from breeding; and (d) Proper disposal of solid and liquid waste. The WATSAN Committee in each community commits to pass on the message for improved hygiene behavior by practicing proper hand washing with soap after visiting the toilet and on return from funerals where a lot of hand shaking takes place. They will also impress upon their people to adhere to proper disposal of waste. Adults who are members of the WATSAN committees, promised to educate the children on the proper use of the facility and to provide disinfectants, brushes and tissue paper for use.

Radiant Solutions Sunyani, BA, Ghana. (Mr. Joseph Gyimah)

Radiant Solutions repaired 147 hand pumps in the project. They are an excellent WASH contractor. Radiant Solutions kept in contact with the Sunyani East and international Rotarians. Succoff Ventures repaired 147 hand pumps and did all the training.

District Name	Pumps	# Beneficiaries
Sucffoff	169	68,576
Radiant	159	68,984
Grand Total	328	137,560

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PROJECT PICTURES:



Domfete Mechanized or Electrical pump



Repaired pump at Koroso 11.



Repaired hand pump at Nsereso.

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Left & Center: Replacing electric pump for mechanized pump at Mpuasu and water flowing from fetch point under water polytank. **Right:** Water flowing again at Anunguano 1.



Photo: Tewbaabi children rushing to drink the water from the repaired pump.

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Photo Above: Thanks to Fondation Louise Grenier



Dramanikrom in the Sunyani West District

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Photo Above: The children are very excited to see water flowing.

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Photo Above: The men and women of the WATSAN Committee worked with the contractor to repair the hand pump and see the water flowing because of their work.



Photo Above: WATSAN training being taught by Seth Jiam, Succoff Ventures.

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COMMUNITIES IMPACTED PAGES 16-19

Note: The City List for Phase 1 and 2 spreadsheet has all cities and information listed. This is the first 150 communities impacted on the project.

Region	District	community	Beneficiaries	Latitude	Longitude	Depth	Type of Pump
Bono	Banda	DOMPOFIE	100	8.149070	-2.365943	66	Afridev
Bono	Banda	DOMPOFIE	100	8.149460	-2.366932	60	Afridev
Bono	Banda	KABRONO	302	8.155737	-2.362520	60	electric pump
Bono	Banda	NIPANOKRO	175	8.103067	-2.119918	60	Afridev
Bono	Banda	NIPANOKRO	175	8.102658	-2.2119102	60	Afridev
Bono	Banda	NYIRE	135	8.110515	-2.294343	60	Afridev
Bono	Banda	SANWA	350	8.142977	-2.372745	64	Afridev
Bono	Berekum West	Abansere No. 2	337	7.486562	-2.608117	60	Afridev
Bono	Berekum West	Abansere No. 1	336	7.486562	-2.608117	69	Afridev
Bono	Berekum West	Abisaase	175	7.481673	-2.602925	60	Afridev
Bono	Berekum West	Amomaso	500	7.376388	-2.659498	64	Afridev
Bono	Berekum West	Amomaso	980	7.376330	-2.659463	92	electric pump
Bono	Berekum West	Bankasa/Benkasa	500	7.406985	-2.647615	70	Afridev
Bono	Berekum West	Bankasa/Benkasa	500	7.406221	-2.648149	75	Afridev
Bono	Berekum West	Botokrom	500	7.517405	-2.751619	60	Afridev
Bono	Berekum West	Domfete	500	7.452945	-2.619353	70	Afridev
Bono	Berekum West	Domfete	500	7.450965	-2.619933	68	Afridev
Bono	Berekum West	Fententaa 1	500	-2.673805	7.465907	62	Afridev
Bono	Berekum West	Fententaa 2	500	-2.673805	7.465907	68	Afridev
Bono	Berekum West	Fententaa 3	500	-2.673805	7.465907		Afridev
Bono	Berekum West	Fententaa 4	500	-2.673805	7.465907		Afridev
Bono	Berekum West	koraso	500	7.486192	-2.630568	68	Afridev
Bono	Berekum West	Nanasuano	885	7.418197	-2.635688	60	electric pump
Bono	Berekum West	Nkyenkyeman	500	7.482556	-2.791002	60	Afridev
Bono	Berekum West	Nkyenkyeman	500	7.482556	-2.791002	66	Afridev
Bono	Berekum West	Nsapor	500	7.341154	-2.321807	60	Afridev
Bono	Berekum West	Nsapor	500	7.426337	-2.625035	72	Afridev
Bono	Berekum West	Nsapor	1200	7.341154	-2.321807	65	electric pump
Bono	Berekum West	Prusu	998	7.539227	-2.718084	80	electric pump
Bono	Berekum West	Tewbabi 1	485	7.517405	-2.751519	64	Afridev
Bono	Berekum West	Tewbabi 2	485	7.517405	-2.751519		Afridev
Bono	Dormaa Central	Abonsrakrom	500	8N Long.:-2.8256W		50	Afridev
Bono	Dormaa Central	Akyem	500	0N Long.:-2.7801W		45	Mark 2
Bono	Dormaa Central	Asensu NO. 2	500	4N Long.:-2.5432W		40	Afridev
Bono	Dormaa Central	Besease	420	6N Long.:-2.8561W		35	Afridev
Bono	Dormaa Central	Bono Yawkrom	500	4N Long.:-2.9256W		50	Afridev
Bono	Dormaa Central	Kofibadukrom	500	8N Long.:-2.9815W		42	Afridev
Bono	Dormaa Central	Kuren 1	500	2N Long.:-2.8705W		50	afridev
Bono	Dormaa Central	Kuren 2	500	2N Long.:-2.8704W		45	afridev
Bono	Dormaa Central	Kuren 3	500	4N Long.:-2.8705W		40	Mark 2
Bono	Dormaa Central	Kwakubadukrom	215	6N Long.:-2.9490W		50	Afridev
Bono	Dormaa Central	Kwamesua	500	1N Long.:-2.7697W		35	Mark 2
Bono	Dormaa Central	Kyeremekrom	500	1N Long.:-2.8640W		46	Afridev
Bono	Dormaa Central	Manteasem	500	7N Long.:-2.8422W		50	Afridev
Bono	Dormaa Central	Nsuhia 1	500	0N Long.:-2.9054W		45	Afridev
Bono	Dormaa Central	Nsuhia 2	500	1N Long.:-2.9051W		40	Afridev
Bono	Dormaa Central	Nsuhia 3	500	6N Long.:-2.9045W		45	Afridev

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Region	District	community	Beneficiaries	Latitude	Longitude	Depth	Type of Pump
Bono	Dormaa Central	Nsuhia 4	500	7.1912N	-2.8930W	40	Afridev
Bono	Dormaa Central	Soromani 1	500	7.2892N	-2.9121W	45	Mark 2
Bono	Dormaa Central	Soromani 2	500	7.2919N	-2.9149W	45	Afridev
Bono	Dormaa Central	Taforo	500	7.3372N	-2.8341W	50	Afridev
Bono	Dormaa Central	Twumkrom	500	7.3580N	-2.8084W	45	Afridev
Bono	Dormaa Central	Akem	500	Water Quality Report			Afridev
Bono	Dormaa Central	aboabo No. 2(1)	246	7.21100N	-2.805653W	50	Afridev
Bono	Dormaa Central	Aboabo No. 2(2)	246	7.208783N	-2.811053W	71	Mark 2
Bono	Dormaa Central	aboabo No. 3	246	7.20407N	-2.809068W	49	Afridev
Bono	Dormaa Central	Aboabo No. 4	246	7.19522N	-2.809527W	50	Afridev
Bono	Dormaa Central	abukrom	245	7.155187N	-2.946043W	45	Afridev
Bono	Dormaa Central	Ahogono	450	7.449153N	-2.944465W	70	Mark 2
Bono	Dormaa Central	Asikasu No. 1(1)	500	7.190105N	-2.881450W	35	Afridev
Bono	Dormaa Central	Asikasu No. 1(2)	500	7.189993N	-2.881532W	68	Mark 2
Bono	Dormaa Central	Asikasu No. 2(1)	356	7.181920N	-2.875460W	65	Mark 2
Bono	Dormaa Central	Asikasu No. 2(2)	356	7.182142N	-2.878795W	51	Afridev
Bono	Dormaa Central	Atenso	234	7.162695 N	-2.936747W	69	Mark 2
Bono	Dormaa Central	Atesikrom	500	7.265038N	-2.901037W	51	Afridev
Bono	Dormaa Central	Benekwakukrom	500	th's Phase 1 Report			Afridev
Bono	Dormaa Central	Brofoyed	500				Mark 2
Bono	Dormaa Central	Brofoyed	500				Mark 2
Bono	Dormaa Central	danyame 1	439	7.425548N	-2.941790W	57	afridev
Bono	Dormaa Central	danyame 2	439	7.429565N	-2.944272W	66	afridev
Bono	Dormaa Central	danyame 3	439	7.432967N	-2.941303W	65	Mark 2
Bono	Dormaa Central	Nsesereso 1	140	7.457460N	-2.936688W	37	Afridev
Bono	Dormaa Central	Nsesereso 2	140	7.456688N	-2.935162W	41	Afridev
Bono	Dormaa Central	Tesikrom	235				Afridev
Bono	Dormaa Central	Yawkrakrom	348	7.164073N	-2.970150W	67	Mark 2
Bono	Dormaa East	ADAA	405	7.249772	-2.591562	60	Afridev
Bono	Dormaa East	ASUOTIANO	185	7.325678	-2.707345	63	Afridev
Bono	Dormaa East	ATTA KWAKWOKROM	180	7.26543	-2.607623	69	Afridev
Bono	Dormaa East	DORMAA AKWAMU	285	7.319932	-2.735577	64	Afridev
Bono	Dormaa East	KUMANTAA	205	7.300205	-2.607812	58	Afridev
Bono	Dormaa East	KYEREMASU	400	7.265252	-2.756907	62	Afridev
Bono	Dormaa East	MOMESOMBUO	350	7.316903	-2.719178	72	Afridev
Bono	Dormaa East	NSESERESU	500	7.35282	-2.671478	60	Afridev
Bono	Dormaa East	OHIAMPE ANIKA	302	7.26052	-2.521010	65	Afridev
Bono	Dormaa East	WAMANAFO	205			63	Afridev
Bono	Dormaa West	ASIKAF0ABANTEM	267	7.027637	-3.037512	68	Afridev
Bono	Dormaa West	AWIAKROM	185	6.983038	-3.119790	57	Afridev
Bono	Dormaa West	BROFOYEDURO	280	7.04605	-3.011032	72	Afridev
Bono	Dormaa West	DIABAA 1	150	7.060132	-2.988400	64	Afridev
Bono	Dormaa West	DIABAA 2	151	7.061768	-2.991320	63	Afridev
Bono	Dormaa West	FRIMPONGKROM	280	7.048868	-3.080943	66	Afridev
Bono	Dormaa West	KRAKROM	350	6.957800	-3.038595	55	Afridev
Bono	Dormaa West	NKRANKANTA	405	7.034483	-3.034060	68	Afridev
Bono	Dormaa West	NYANEAMA 1	200	7.04701	-3.006893	65	Afridev
Bono	Dormaa West	YAAKROM 1	250	7.085518	-3.019328	70	Afridev
Bono	Jaaman North	ASANTEKROM	250	7.683503	-2.597960	64	Afridev
Bono	Jaaman North	BUNI	240	7.806973	-2.641055	68	Afridev

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Bono	Jaaman North	BUNI 2	300	7.80438	-2.640595	64	Afridev
Bono	Jaaman North	DUADASO NO.1	100	7.902237	-2.634255	65	Afridev
Bono	Jaaman North	DUADASO NO.1	100	7.904710	-2.636707	60	Afridev
Bono	Jaaman North	DUADASO NO.1	100	7.906320	-2.632013	69	Afridev
Bono	Jaaman North	JAMERA	250	7.96727	-2.622135	60	Afridev
Bono	Jaaman North	JAMERA	500	7.969615	-2.625060	58	Afridev
Bono	Jaaman North	NWAMSUA	205	7.83319	-2.712285	50	Afridev
Bono	Jaaman South	Abirikasu	300	7.490460	-2.831883	50	Afridev
Bono	Jaaman South	Adiokor 1	394	7.749012	-2.856340	64	Afridev
Bono	Jaaman South	Adiokor 2	500	7.748433	-2.855155	70	Afridev
Bono	Jaaman South	Adiokor 3	430	7.749012	-2.857392	63	Afridev
Bono	Jaaman South	Angrukrom	302	7.688617	-2.862140	65	Afridev
Bono	Jaaman South	Anunguano 1	72	7.577951	-2.719798	57	Afridev
Bono	Jaaman South	Anunguano 2	72	7.574877	-2.705178	66	Afridev
Bono	Jaaman South	Asare	222	7.64288	-2.767050	62	Afridev
Bono	Jaaman South	Asratoa	500	7.691669	-2.7698778	60	Afridev
Bono	Jaaman South	Abuokrom	500	7.636270	-2.717822	60	Afridev
Bono	Jaaman South	Abuokrom 2	921	7.634782	-2.718040	64	electric pump
Bono	Jaaman South	Atuna 1	500	7.501457	-2.997413	64	Afridev
Bono	Jaaman South	Atuna 2	500	7.668830	-2.771692	68	Afridev
Bono	Jaaman South	Batea 1	250	7.549923	-2.900900	58	Afridev
Bono	Jaaman South	Batea 2	250	7.550853	-2.903330	65	Afridev
Bono	Jaaman South	Baanafour	1077	7.641398	-2.786750	68	electric pump
Bono	Jaaman South	Baanafour 2nd	486	7.631299	-2.785560	60	Afridev
Bono	Jaaman South	Baano 1	207	7.610582	-2.903123	65	Afridev
Bono	Jaaman South	baano 2	207	7.610582	-2.903123	60	Afridev
Bono	Jaaman South	Bibianiha	500	7.574877	-2.778543	55	Afridev
Bono	Jaaman South	Bodaa	541	.782927	-2.823115	60	Afridev
Bono	Jaaman South	Dwenem	500	7.685765	-2.781385	60	Afridev
Bono	Jaaman South	Gonasua 1	250	7.587892	-2.820007	60	Afridev
Bono	Jaaman South	Gonasua 2	250	7.586317	-2.814825	73	Afridev
Bono	Jaaman South	faaman	500	7.668830	-2.771692	64	Afridev
Bono	Jaaman South	famkwa	532	7.672433	-2.857468	68	Afridev
Bono	Jaaman South	Jenjemreja 1	500	7.634418	-2.723623	69	Afridev
Bono	Jaaman South	Jenjemreja 2	500	7.634418	-2.723623	58	Afridev
Bono	Jaaman South	Jenjemreja 3	500	7.634418	-2.723623	69	Afridev
Bono	Jaaman South	Katakyiekrom	500	7.578363	-2.804412	68	Afridev
Bono	Jaaman South	Kofikor	300	7.640938	-2.823662	60	Afridev
Bono	Jaaman South	Kofitiakrom	355	7.773859	-2.847298	64	electric pump
Bono	Jaaman South	Komfourkrom 1	1011	7.668830	-2.771692	63	electric pump
Bono	Jaaman South	Komfourkrom 2	1100	7.506467	-2.819098	60	electric pump
Bono	Jaaman South	Kwameprakrom 1	800	7.501457	-2.928037	64	Afridev
Bono	Jaaman South	Kwameprakrom 2	500	7.501457	-2.928037	66	Afridev
Bono	Jaaman South	Kwameseikrom	500	7.631220	-2.904407	62	Afridev
Bono	Jaaman South	Mpuasu 1st	1300	7.724538	-2.800668	58	electric pump
Bono	Jaaman South	Mpuasu 2nd	617	7.724605	-2.798902	60	Afridev
Bono	Jaaman South	Mpuasu 3rd	616	7.730132	-2.800647	67	Afridev
Bono	Jaaman South	Nkokotoa	148	7.662400	-2.706234	64	Afridev
Bono	Jaaman South	Taino No 1	545	7.752117	-2.745358	60	Afridev
Bono	Jaaman South	Taino No 2	378	7.739202	-2.744717	65	Afridev

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Bono	Jaaman South	Tekese	106	7.7000000	-2.7000000	60	Afridev
Bono	Jaaman South	Zezera	300	7.730335	-2.864288	72	Afridev
Bono	Sunyani East	Addikrom	500	7.204285	-2.394552	60	Afridev
Bono	Sunyani East	Antwikrom	1000	7.218810	-2.390733	62	electric pump
Bono	Sunyani East	Asamoah shell	500	7.148825	-2.368236	68	Afridev
Bono	Sunyani East	Atronie 1	500	rd - Repaired by District WASH			Afridev
Bono	Sunyani East	Atronie 2	500	rd - Repaired by District WASH			Afridev
Bono	Sunyani East	Baakoniaba 1	500	7.321430	-2.356335	63	Afridev
Bono	Sunyani East	Baakoniaba 2	500	7.321430	-2.356335	58	Afridev
Bono	Sunyani East	Baakoniaba 3	500	7.321430	-2.356335	60	Afridev
Bono	Sunyani East	Donkorkrom	500	7.324024	-2.192093	65	Afridev
Bono	Sunyani East	Fuokokrom	500	7.252266	-2.412073	60	Afridev
Bono	Sunyani East	Johnsonkrom	500	7.326612	-2.209890	55	Afridev
Bono	Sunyani East	Kwaaware	500	7.214188	-2.342157	72	Afridev
Bono	Sunyani East	Kwaaware	500	7.214188	-2.342157		Afridev
Bono	Sunyani East	Kobeda	500	7.292442	-2.402995	60	Afridev
Bono	Sunyani East	Kobeda	500	7.292442	-2.402995	64	Afridev
Bono	Sunyani East	Mensakkrom	500	7.330953	-2.222805	68	Afridev
Bono	Sunyani East	Mensakkrom	500	7.332322	-2.225971	60	Afridev
Bono	Sunyani East	Kyeremekrom	500	7.6252302	-2.411997	56	Afridev
Bono	Sunyani East	Nkrankrom 1	500	7.273106	-2.312882	70	Afridev
Bono	Sunyani East	Nkrankrom 2	500	7.274005	-2.314951	64	Afridev
Bono	Sunyani East	Nsagobesa 2	500	7.229082	-2.447573	70	Afridev
Bono	Sunyani East	Nwawasu	500	7.161963	-2.373280	60	Afridev
Bono	Sunyani East	Nwawasua Health	1000	7.292464	-2.402984	67	electric pump
Bono	Sunyani East	Nwawasua M/A Sc	1050	7.282109	-2.435463	70	electric pump
Bono	Sunyani East	Nwomasu 1	500	7.291782	-2.406080	70	Afridev
Bono	Sunyani East	Nwomasu School	300	7.759968	-2.377090	60	Afridev
Bono	Sunyani East	Nwomasu 2 or Kur	500	7.282080	-2.435360	68	Afridev
Bono	Sunyani East	Ohukrom	500	7.099328	-2.407217	70	Afridev
Bono	Sunyani East	Ohukrom	500	7.100924	-2.406461	65	Afridev
Bono	Sunyani East	Okokrom	500	7.327816	-2.218183	70	Afridev
Bono	Sunyani East	Tano ano	500	7.245083	-2.292470	60	Afridev
Bono	Sunyani East	Yawsae	500	7.22533	-2.42631	60	Afridev
Bono	Sunyani East	Yeboahkrom	500	7.227642	-2.335120	64	Afridev
Bono	Sunyani West	Abronye Basic Scho	500	7.494532N	-2.268858W	45	Afridev
Bono	Sunyani West	Addai Boreso	500	0N Long.: -2.4626W		60	Afridev
Bono	Sunyani West	Afrasu	360	7.464035N	-2.221820W	35	Afridev
Bono	Sunyani West	Ahanyanso	258	1N Long.: -2.2757W		60	Afridev
Bono	Sunyani West	Akuakan	277	0N Long.: -2.4618W		50	Afridev
Bono	Sunyani West	Asantefuo Sereso 1	245	6N Long.: -2.2916W		50	Afridev
Bono	Sunyani West	Asantefuo Sereso 2	224	1N Long.: -2.2912W		65	Mark 2
Bono	Sunyani West	Attakrom	210	1N Long.: -2.4512W		55	Afridev
Bono	Sunyani West	Atwensea	450	7.466172N	-2.205987W	47	Afridev
Bono	Sunyani West	Baamu	500	7.506251N	-2.345397W	69	Mark 2
Bono	Sunyani West	Boffourkrom	220	7.544485N	-2.278820W	71	Mark 2
Bono	Sunyani West	Dagombaline	500	water quality report			Afridev
Bono	Sunyani West	Dramanikrom	130	7.2370N	-2.4318W	55	Afridev
Bono	Sunyani West	Isreal Nkwanta	175	7.5219N	-2.2917W	65	Mark 2
Bono	Sunyani West	Kantro no. 1	310	7.351122N	-2.426316W	34	Afridev