

ELLEMBELLE DISTRICT ASSEMBLY



ENVIRONMENTAL HEALTH AND SANITATIONN UNIT

ANNUAL REPORT FOR 2021

1.0 INTRODUCTION

Proper management, control and disposal of waste are the best way in promoting health through prevention of human contact with hazards of waste. Ghana as a country is overwhelming with a

lot of sanitation issues on both solid and liquid waste disposal and other environmental related diseases.

The Environmental Health Unit of Ellembele District has its main office situated at Nkroful, the District Capital with two sub- office situated at Aiyinase and Esiana. The Unit core mandate is to control and manage all environmental and sanitation issues within the District. However, under the first quarter review, the Unit was able to carry out the following activities; community engagement on good sanitation practices, monitoring of waste collection and transportation, cleaning of the central business centers, enforcement of sanitation laws, education and screening of food handlers, disinfection and community clean-up.

2.0 ADMINISTRATION

2.1. Staffing

The District has nine Environmental Health Officers, one Environmental Health Analyst, two (2) Assistant Environmental Health Analysts, one (1) Technical officer and six (6) Technical Assistants responsible for sanitation within the District. Per the ratio of Environmental Health Officer to the Community, It shows that Officers are under staffed. The table below shows Officers grade and their jurisdiction of work.

Table 1.

S/N	Staff Name	Rank	Station
1.	Oliver Cromwell	Environmental Health Analyst	DEHA- Nkroful

2.	Philip Yaw Zutunu	Assistant Env. Health Analyst	DDEHA
3.	Robert Opuni Mensah	Assistant Env. Health Analyst	Aiyinase Council
4.	Linda Eshun	Env.Health Officer1	Aiyinase Area Council
5	Ivy Kodzovi	Principal. Env. Health Assistant	Esiama Area Council
6.	Gladys Akahee	Environmental Health Assistant	Esiama Area Council
7.	Alusi Doris Awontemi	Environmental Health Assistant	Aiyinase Area Council
8.	Bana Mohammed	Environmental Health Assistant	Esiama Area council
9.	Chambas Maximus Bumbommong	Environmental Health Assistant	Aiyinase Area council

2.2. Sanitation Guards and Service Personnel

Currently the Unit has only four Sanitation Guards employed by the National youth Employment programme to support the activities of Environmental Health Officers. They assist Officers in their various Area Councils as shown in the table below.

Table 2.

S/N	NAME	DESIGNATION	AREA STATIONED
1.	Francis N. K. Asabah	Sanitation guard	Nkroful
2.	Duaglas Anyimiah	Sanitation guard	Esiama
3.	Linda Elimah	Sanitation guard	Aiyinase
4.	Moses Musah	Sanitation guard	Nkroful

2.3 Labourer Force

The Unit has a total of six (6) market sweepers, four (4) office cleaners and four (4) labourers responsible for weeding, packing of items, burial of pauper and any other work. Out of this only one is permanent and the rest are employed by the District. The table below shows labourers and their place of jurisdiction.

Table 3.

S/N	NAME	DESIGNATION	STATION
1.	Patience Cudjoe	Market sweeper	Asasetre
2.	Obed Kpolly	Market sweeper	Asasetre
3.	Esther Kwofie	Market sweeper	Asasetre
4.	Rebecca Blay	Office cleaner	Nkroful
5.	Christina Fobi	Office cleaner	Nkroful
6.	Godfred Miezah	Labourer	Nkroful
7.	Maxwel Essien	Labourer	Nkroful
8.	Anko Kwofie	Market sweeper	Aiyinase
9.	Francis Armah	Market sweeper	Aiyinase
10.	Seseku Kwofie	Market sweeper	Aiyinase
11.	Nkrumah Yvette	Office cleaner	Nkroful
12.	Gladys Kwakuvi	Office cleaner	Nkroful
13.	James Kabenlah	Labourer	Nkroful
14.	John Annor	Labourer	Nkroful

3.0 WASTE MANAGEMENT

3.1. Solid Waste

The District has two final waste disposal sites situated at Ampain and Nkroful, the most frequently used one is the Ampain site. The Nkroful site is not frequently use because of the bad road nature to the dump site. However these two sites are not engineered and due to that, waste dump are not covered daily but are pushed on quarterly bases. The pictures below show pushing and leveling activities during the first (17-03-2021) and third (24-08-21) quarter of the year.



Fig 1. Before pushing at Nkroful final disposal site



Fig. 2. After pushing at Nkroful final disposal site.



fig. 3. Before pushing at Ampain site



fig.4. During pushing at Ampain site



Fig. 5.After pushing at Ampain site

The District has two final waste disposal sites situated at Ampain and Nkroful. These two sites are not engineered.

3.2. Container Services in the District

The District has a total number of Eighteen (18) skips, with one Skip truck. Out of the eighteen (18) skips, seven (7) belongs to the Zoomlion Ghana LTD and the remaining eleven (11) belongs to the District Assembly. However, lifting and management is done by Zoomlion and supervised by the Environmental Health Officers. The table below shows highly populated communities with skips.

Table 4.

S/N	Community	Population	Quantity daily solid waste generation	Number of container	Location of container in the community
1.	Esiama	12,317	6.1585tons	4	Kundum grounds, Nkroful road, Mozukro, adjacent Esiama cemetery
2.	Nkroful	5918	2.959tons	4	New site (2) Near MP`s office (1) catholic primary(1)
3.	Aiyinase	17,104	8.552tons	3	Near Aiyinase Health center, Awiebo road
4.	Kikam	5,851	2.9255 tons	2	Near the community market
5.	Asanda	5,541	2.7705 tons	1	Public toilet
6.	Edwakpole	1,042	0.521tons	1	Near the old waste disposal site
7.	Teleku Bokazo	6,103	3.0515 tons	1	New site
	Total		26.938tons	16	

➤ Daily district wide waste generation

District Population – 120,893

=120,893x0.5kg /1000

=60.4465tonnes

- The first quarter district wide waste generation

Daily generation by 90 days

= 60.4465x90 days

=5,440.185 tons of waste

Hence the annual waste generation is **1,958,466.5tonnes**

NB: from the table above the District needs additional containers to enhance solid waste management..

3.3 Central Business cleansing

The Environmental Health Unit supervised and monitored the Zoomlion workers in their daily activities by cleaning of the central business centers such as the lorry park, main streets, drains and other public places within the District. The daily sweeping and collection of refuse at these centers is done early morning from 5:00 am to 7:00 am before the onset of all business activities.



Zoomlion cleaning the central business centers

4.0 LIQUID WASTE

4.1 Liquid Waste

Currently the District is having one stabilization pond at Nkroful dump site which is used for liquid waste disposal.

The management of liquid waste in the district have improved tremendously with an increase number of toilet facilities both households and public latrines. This was due to implementation of Community Lead Total Sanitation in the district in the year 2020. The most common type of toilet facilities found within the district is Water closet, V.I.P. and Aqua privy latrine. However, the Assembly`s cesspool emptier is currently broken-down

4.1. Household Latrine Situation in the District from 2011 to 2021

AREA COUNCIL								YEAR				
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	TOTAL
ASASETRE	99	120	136	162	202	206	310	429	499	522	590	2160
NKROFUL	167	278	303	322	338	347	396	433	510	531	587	3094
KIKAM	206	239	264	284	297	317	366	421	519	534	609	2913
AIYINASE	191	1064	1122	1182	1203	1275	1315	1402	1485	1586	1653	10239
ATUABO	147	187	211	228	239	253	319	393	473	497	532	2450
ESIAMA	261	522	612	635	653	663	718	754	842	995	1066	5660
AWIEBO /BASEKE	130	157	191	203	228	233	261	317	377	390	458	2097
TOTAL	1201	2456	2838	3016	3160	3294	3685	4149	4705	5055	5495	28616

3.4 Market Sanitation

The District Assembly has two active market centers which are located at Aiyinase and Asasetre. Waste management at the two main markets in the District is being supervised by the Environmental Health Unit. Due to insufficient storage containers within the District, the solid waste generated at both market places do not end up at the final disposal sites. However temporal places have been sited within these two communities to take care of the waste generated.

3.5 Communal Labour \ Clean up exercise

The Environmental Health Unit has organized a cleanup exercise in every first week in each quarter to enhance clean and healthy environment in the District. Opinion leaders in the various communities were educated by the Environmental Health Unit to adopt the exercise in order to promote good health and clean environment. Below are some pictures of the exercise.



5.0 HYGIENE EDUCATION AND PROMOTION

4.1 Community Education on improved Sanitation

The Environmental Unit organized a community forum in two (4) communities, namely Esiam and Aiyinase on 7th 12th April 2021 to sensitize and educate Chiefs, Opinion leaders and community members on the need to keep their community clean and the benefits of having a clean and healthy Environment. Some topic areas include:

- Organizing of communal labour
- Formation of community bye-laws
- Enforcement of bye laws and
- the needs to elect good leaders



4.3 Enforcement/ Prosecution

The unit prosecuted 20 sanitary offenders, 19 tax defaulters and 8 people without building permit and 7 illegal miners. The prosecuting Officer has also defended the District Assembly on some legal issues level against the Assembly. This has been indicated in the table below:

Community	Sanitary offenses	Tax defaulters	Building offenses	Illegal miners
Esiamia	7	7	1	
Aiyinase	8	9	6	
Asanda	3	2		
Nkroful	2	1		
Teleku Bokazo				7
Anwia			1	

5.0 Disinfection

In the year 2021 Zoomlion carried out disinfection exercises in market centers, public drains, public toilets in the District. Their activities were supervised by the Environmental Health unit of the Ellembele District Assembly.



District wide disinfection exercise

7.0 FOODHYGIENE

7.1 Food handlers screening

Environmental Health and sanitation Unit under the year 2021, intensifies its education for food vendors within the Ellembele District. Vendors were asked to provide hand washing materials for their customers. In all 229 vendors were registered and 206 availed themselves for screening.

Out of 206 screened 164 vendors were fit to display food for the public consumption while 42 vendors were not fit. The 42 however, went through thorough treatment and were confirmed by Medical Officer before their cards were issued to them.



The table below shows the total number of food vendors screened

within the year 2021.

Table 5.

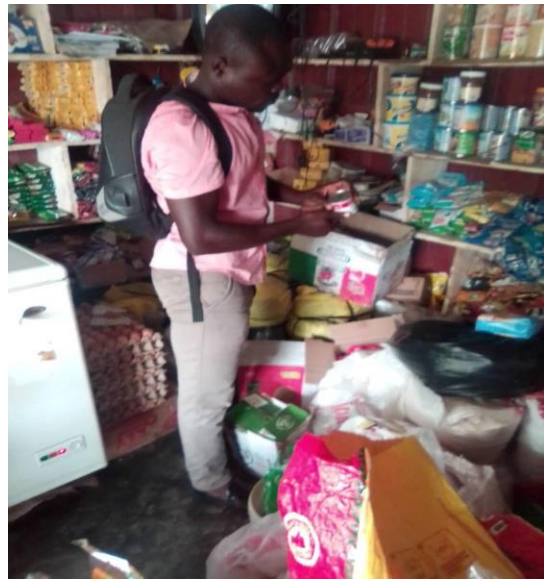
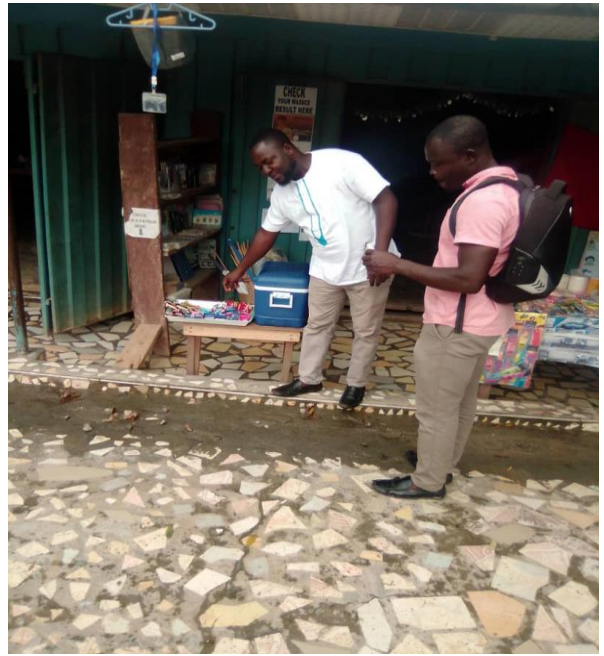
S/N	Community	Total number screened	Total number fit	Total number unfit
1.	Nkroful	25	20	5
2.	Asasetre	26	22	4
3.	Aiyinase	37	29	8
4.	Ewiebo / Baseke	25	18	7
5.	Kikam	21	17	4
6	Esiamas	48	38	10
7	Atuabo	24	20	4
	Grand Total	206	164	42

4.8 MONITORING OF FOOD VENDORS

Food vendors are monitored after the screening exercise to ensure that everybody displaying food for public consumption is medically fit. Those who were not fit during the screening exercise were also monitored to ensure that they get medical treatment.

Within the year under review, a taskforce made up Environmental Health Officers also conducted stores inspection. Some items were seized and destroyed at the final disposal sites. The items seized and destroyed were made up of:

- Expired foods.
- Dented canned foods
- Rusted canned foods.



8.0 PREMISES INSPECTION

8.1. Domiciliary inspection

Domiciliary inspection is one of the main core duties of every Environmental Health Officer in order to prevent any disease outbreak. The Unit conducted routing house to house inspection in order to educate the dwellers on the need to keep their environment clean. In the year 2021 a total number of 156 houses were inspected and 20 offenders were brought before Nkroful magistrate court. Some common nuisances detected during premises inspections for the year under review included:

1. Overgrowth of weeds
2. Indiscriminate dumping of refuse
3. Accumulation of waste water in catch pits.
4. Insanitary bath-house with algae growth.
5. Insanitary bathroom drains.

10.0 ENVIRONMENTAL ENHANCEMENT PROGRAMMES

The Environmental Health Unit of the Ellembele District Assembly acted on several complaints on noise nuisance during the year 2021. Also, twelve (12) local information centers were registered by the Environmental Health Unit to ensure that they do not make excessive noise to disturb the general public. Local bars were also monitored to stop large noise and also close early to prevent sleep disorders. Also, seven illegal miners were taken to court for degrading the environment. Court charged and ordered them to reclaim the land. Again, on 24th November 2021 Pentecost church of Ghana together in collaboration with the Environmental Health Unit embarked on some tree planting exercise in Nkroful, Teleku Bokazo and Anwia. In all 643 trees were planted.



Nkroful



Teleku Bokazo



Anwia

9.0. COMPLAINTS

The Unit also received a number of complaints from community members of which Officers made follow ups to address their challenges. Issues high on the list included:

- Leakage of effluent from public latrines
- Unauthorized construction of latrines
- Problem from water and sanitation committees.
- Noise nuisance

12.0 CHALLENGES

- The inadequacy of funds to support hygiene and sanitation activities is a major challenge to the unit.
- Lack of engineered site for both liquid and solid waste is also a major problem to the district
- Poor drainage system in the markets
- Lack of slaughter house for proper meat inspection
- Lack of protective clothing for laborers.
- Inadequate sanitary tools for the Unit

13.0 RECOMMENDATIONS

- It is recommended that the Assembly should liaise with some of the companies in the district to support the construction of an engineered landfill and a liquid waste treatment site for the disposal of waste.
- It is also recommended that slaughter house and pound should be constructed to enhance good meat inspection and revenue generation
- It is recommended that Environmental Health unit should be well resourced to help improve sanitation.
- Additional refuse containers should be purchase to enhance proper solid waste collection and disposal.