| District Municipality | Sample sites | Coordinates          | Samples collected | Description of samples                                                                 | Anthropogenic activities                                                                 |
|-----------------------|--------------|----------------------|-------------------|----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| Amathole S1           | S1           | S32°46.922ˡ E026°50.799ˡ | Irrigation water  | Irrigation water is sourced from a river. Soil samples were not collected due to the inaccessibility of agricultural farms | Animal intrusion, dumping of refuse, recreational activities, swimming, and domestic activities in the source river. |
|                       | S2           | S32°46.857ˡ E026°51.373ˡ | Irrigation water and soil | Irrigation water is sourced from a dam. Type of irrigation used is a sprinkler irrigation system. Irrigation is done once in 3 days between 8 am and 3 pm on each day. Soil type is loam and crops grown on it include cabbage, broccoli, butternut, spinach and lettuce. | Animal intrusion in the dam. Soil amendment is with inorganic fertilizer (LAN). |
|                       | S3           | S32°43.48ˡ E027°1.32ˡ | Irrigation water and soil | Irrigation water is sourced from an artificial pond which receives water from both rainfall and downstream river. Type of irrigation used is the sprinkler irrigation system. Irrigation is done once a day between 8 am and 12 pm, and none on rainy days. Soil type is clay-loam and crops grown on it include cabbage, broccoli, lettuce and onions. | Animal intrusion in the pond and source river. Soil amendment is with livestock waste. |
|                       | S4           | S32°45.2ˡ E27°19.07ˡ | Irrigation water  | Irrigation water is sourced from a dam. Soil samples were not collected due to the inaccessibility of agricultural farms | Animal intrusion and domestic use of water. |
Irrigation water and soil

Irrigation water is sourced from an artificial pond, which primarily receives water from the effluents of a poultry and piggery farm. Type of irrigation used is the sprinkler irrigation system. Irrigation is done once every day between 8 am and 5 pm except on rainy days. Soil type is loam and crops grown on it include spinach and cabbage.

Discharge of swine and poultry effluents into the pond. Soil amendment is with poultry and swine faeces.

S6

Irrigation water

Irrigation water is sourced from a river. Soil samples were not collected due to the inaccessibility of agricultural farms. Animal intrusion, recreational activities, swimming, and domestic activities in the source river.

S7

Irrigation water and soil

Irrigation water is sourced from a river. Type of irrigation used is a sprinkler irrigation system. Irrigation is done twice a week between 8 am and 4 pm each day. Soil type is clay and crops grown on it include pumpkin.

Animal intrusion, washing of cloths, bathing and other domestic activities in the source river. Soil amendment is with organic compost of livestock origin.

S8

Irrigation water and soil

Irrigation water is sourced from a river. Type of irrigation used is a sprinkler irrigation system. Irrigation is done twice a day between 8 am and 12 pm and between 2 pm and 5 pm and none on days with heavy rainfall. Soil type is clay-loam and crops grown on it include cabbage, lettuce and spinach.

Animal intrusion in both river and close to farm sites. Soil amendment is with cow dung.
| Location | Irrigation Source | Irrigation Method | Soil Type | Crops Grown | Other Activities | Soil Amendment |
|----------|------------------|-------------------|-----------|-------------|-----------------|---------------|
| S9       | Dam              | Sprinkler system  | Loamy     | Lettuce, Spinach | Animal intrusion | Composted animal waste |
| S10      | River            | Sprinkler system  | Loam      | Spinach     | Animal intrusion, Washing of cloths, Fishing | Composted animal waste |
| S11      | River            | Sprinkler system  | Clay-loam | Lettuce, Spinach | Animal intrusion, Swimming, Washing of clothes | Inorganic fertilizer (LAN) |
| S12      | Treated Municipal Water | Sprinkler system  | Clay-loam | Cabbage, Lettuce, Onions, Spinach | No visible anthropogenic activity | Inorganic fertilizer (LAN) |
S13  S32°35.783ˡ E027°26.880ˡ  Irrigation water and soil  Irrigation water is sourced from a river. Type of irrigation used is the sprinkler irrigation system. Irrigation is done once a day from 8 am to 12 pm. Soil type is clay-loam and crops grown on it include cabbage, broccoli, lettuce and spinach. Animal intrusion in the river. Soil amendment is with inorganic fertilizer (LAN).

S14  S32°37.165ˡ E027°26.418ˡ  Irrigation water and soil  Irrigation water is sourced from a dam. Type of irrigation used is a sprinkler irrigation system. Irrigation is done once a day. Soil type is clay and crops grown on it include cabbage, lettuce and spinach. No observed anthropogenic activity in the dam. Soil amendment is with inorganic fertilizer (LAN).

S15  S32°19.375ˡ E027°08.543ˡ  Irrigation water  Irrigation water is sourced from a river. Soil samples were not collected due to the inaccessibility of agricultural farms Animal intrusion

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S16  S32°01.927ˡ E027°04.619ˡ  Irrigation water and soil  Irrigation water is sourced from a river. Type of irrigation used is the sprinkler irrigation system. Irrigation is done once a day. Soil type is loam and crops grown on it include lettuce and spinach. Animal intrusion. Soil amendment is with organic compost of animal origin

S17  S31°55.297ˡ E026°49.882ˡ  Irrigation water and soil  Irrigation water is sourced from borehole groundwater. Types of irrigation used include sprinkler and drip irrigation system. Irrigation is done twice a day. Soil type is clay-loam and crops grown on it include cabbage, lettuce, broccoli and spinach. No anthropogenic activity in the water source. Soil amendment is with inorganic fertilizer (LAN).
| Sampling Site | Latitude/Longitude | Irrigation Water and Soil | Irrigation Water | Animal Intrusion |
|---------------|--------------------|--------------------------|------------------|-----------------|
| S18 S31°53.203ˡ E026°47.764ˡ | Irrigation water and soil | Irrigation water is sourced from a river. Type of irrigation used is the centre pivot irrigation system. Irrigation is done once a day. Soil type is loam and crops grown on it is fodder | Animal intrusion, receiving shed of WWTP effluent. Soil amendment is with inorganic fertilizer (LAN) |
| S19 S32°00.855ˡ E027°35.597ˡ | Irrigation water | Irrigation water is sourced from a river. Soil samples were not collected due to the inaccessibility of agricultural farms | Animal intrusion, dumping of refuse. |

Note: For confidentiality sake, sampling sites are coded with S1-S19. All the information recorded in this table were gotten from the onsite survey as well as from farm owners and workers. Coordinates for each sampling site were retrieved using the “etrex-LEGENDH” GPS equipment. WWTP: Wastewater treatment plant. LAN: limestone ammonium nitrogen.