# Prepared by:

Title: Miss

Author's Name: Chikomborero Mukuwe

**Contacts:** +260 776937866 / +263 777 123 887

E-mail: chicomucue@gmail.com



# Biography

Chikomborero Mukuwe is an Environmental Graduate Scientist with the Zambezi River Authority, working on the Kariba Dam Rehabilitation Project (KDRP) that includes the Plunge Pool Rehabilitation and Spillway Rehabilitation (Phases 1 and 2). She supports key infrastructure activities integrating environmental management and safety practices. Her work involves implementing environmental safeguards, supporting the integration of safety and sustainability measures, and facilitating coordination across multidisciplinary teams to ensure compliance with international best practices. With hands-on experience in hydropower systems and ongoing NEBOSH Certification. Chikomborero is deeply committed to advancing regional and global sustainability. She is passionate about sustainable development and aims to drive climate and environmental solutions in Zimbabwe through the Water-Energy-Food-Ecosystems (WEFE) nexus- contributing meaningfully to Africa's sustainable development agenda and environmental resilience, particularly in Zimbabwe.

*<u>Title: Assessing the effect of seasonal variations on water quality in Zambezi River Basin. A</u> <i>case study of Lake Kariba in 2024.* 

# **ORAL PRESENTATION PREFERED**

Theme 1: Sustainable Water Management on the WEFE Nexus

- Fits under Sub- Theme: Water Quality Management
- Focus on: Assessing the effects of water quality nutrients in Lake Kariba Eastern Basin fostering Integrated Water Resources Management (IWRM).

### **ABSTRACT**

This study examines the impact of seasonal variations on water quality, along the Lake Kariba within the Zambezi River Basin, with a specific focus on the water resources and environmental management practices of the Zambezi River Authority (ZRA) in 2024. Seasonal changes in rainfall, temperature, and river discharge significantly influence key water quality parameters such as nutrient concentrations, sediment loads, dissolved oxygen, and biological activity. Using on-site field data, laboratory analysis/tests, and previous years data, the study assesses how wet season that is, (January to March) and dry seasons that is, (August-September) alter the chemical and physical composition along the Zambezi River System and its tributaries, particularly in areas influenced by dam operations. To evaluate the water pollution quality, the following 12 parameters were analyzed water temperature, pH, Electroconductivity (EC), Dissolved Oxygen (DO), Total Suspended Solids (TSS), Total Dissolved Solids, Total Chlorophyl and Secchi Depth, alkalinity, turbidity, Total Phosphorus (TP), and ammonianitrogen (NH3 -N). Findings highlight critical periods of water quality deterioration, primarily during the onset of the rainy season when surface runoff intensifies pollutant loads. The study underscores the need for adaptive and seasonally informed water management strategies by the ZRA to maintain ecosystem health and ensure sustainable use of the basin's water resources. It is also made clear that the water exiting Lake Kariba is generally free of any significant pollution across all seasons.

### **INTRODUCTION**

Water is recognized as a key driver for social and economic development in the Zambezi basin. The basin is riparian to eight southern African countries and the transboundary nature of the basin's water resources can be viewed as an agent of cooperation between the basin countries. The Zambezi is the fourth-longest river in Africa, and the largest flowing into the Indian Ocean. The area of its basin is 1,570,000 square kilometers. The 2,574 kilometers-long river has its source in Zambia and flows through Angola, along the border of Namibia, Botswana, Zambia, and Zimbabwe, to Mozambique, where it empties into the Indian Ocean (Zambezi River, 2008). recently, found suffering from an unknown and apparently fatal disease (Zambezi River pollution warning, 2007; Magadza, 2006). Pollution of surface and groundwater resources and the atmosphere have become major environmental problems for the Zambezi River Basin. The increase in pollution discharges is largely attributed to urbanization, increased industrial and agricultural activities, mining and soil erosion. The urban centers produce sewage effluent, industries emit greenhouse gases and other industrial wastes, and the agricultural sector uses fertilizers and other pesticides which all contribute to the pollution of the surface and groundwater resources. In the Zambezi River Basin, gold panning is prevalent resulting in soil erosion and water resources pollution. Mine wastes, if not disposed and managed properly, result in heavy metal water pollution (Tumbare, 2004). There is a specific legislative framework that governs the management of the Zambezi River, focusing on its use for economic, industrial, and social development, particularly in relation to water use for energy generation. This framework is

established under an inter-state agreement between Zambia and Zimbabwe known as the **Zambezi River Authority Act, Chapter 467** (Nwasco, n.d.). A significant portion of the basin's water is utilized for hydroelectric power (HEP) generation, primarily sourced from the two largest artificial lakes—Lake Kariba, covering 5,250 km<sup>2</sup> with a storage capacity of 156 km<sup>3</sup>, and Lake Cabora Bassa, covering 2,739 km<sup>2</sup> and holding 56 km<sup>3</sup> of water (Mpande & Tawanda, 1998).



Sampling sites along the Zambezi River, Lake Kariba and its tributaries

# Source: Map data ©2012 Google

Although pollution of water resources has not yet created regional conflicts, the likelihood of such conflict exists in the future. The issue, however, has the potential of becoming a regional problem, particularly regarding pollution from heavy metals, as evidenced by the existence of dichlorodiphenyltrichloroethane (DDT) and heavy metals in Lake Kariba. The riparian countries, therefore, need to cooperate in formulating and monitoring legislation to prevent such contamination. Furthermore, other authors suggest that legislation should include the establishment of limits on effluent as well as punitive measures for offenders. The world over, four principal theories or doctrines have been maintained by riparian states regarding the rights on international waters. It is not very apparent as to which theory guides the management of the Zambezi River amongst the riparian countries. However, the theory of community of interests

seems to be at play as evidenced by the recent reference to 'shared water courses' in the protocol on Shared Watercourse Systems. the upper part of the Zambezi River is thinly populated by pastoralist farmers and fishermen and that wildlife is sparse; it is remarkably free of pollution (Zambia National Tourist Board, n.d.). However, with the coming of new mines near the source of the river in Kabompo, there is a possibility of new sources of pollution. The pollution in the Kabompo River, which feeds into the Zambezi River, would affect hundreds of thousands of people further downstream. It is the purpose of this study to provide current information (in 2011) about the seasonal variations of the water quality along the Zambezi River. This study therefore is intended to analyse and disseminate hydrological and environmental data and environmental conditions of the Zambezi River, its tributaries and the Lake Kariba.

## **METHODOLOGY**

## Tools used include the following:

- The Houseboat (Mukunganyika)
- The speed boat
- The Sonde Multi-parameter data equipment
- Arch GIS

Water quality data for Lake Kariba, the Zambezi River, and its tributaries were obtained from the Zambezi River Authority (ZRA) - Kariba Environmental Laboratory. Samples were collected monthly, quarterly and bi-annual during the environmental monitoring Programme, from January to September 2024, at over 50 locations: some of the key locations includes Victoria Falls, Kariba at Charara area, Lake Kariba at Andora Harbour, Lake Kariba Dam-Wall (Upstream and Downstream), Nyaozda, Gatche Gatche, Sanyati Mouth, Sanyati Mouth-Further, B51, Manchinchi Bay, Ulkrs, Crocodile Farm, Deka River, Kalomo River, and Gwayi River.

A variety of methods were employed to analyze different water quality parameters. Physical parameters - such as temperature, pH, electrical conductivity (EC), dissolved oxygen (DO), total suspended solids (TSS), total dissolved substances (TDS), turbidity, total chlorophyll, and Secchi depth - were measured in situ using a multi-parameter Sonde.

Chemical parameters—including total nitrogen (TN), total phosphorus (TP), ammonia, nitrate, nitrite, total alkalinity, total chloride, and fecal coliforms—were analyzed in the ZRA Environmental Laboratory. The FIAlab system was used for the analysis of ammonia, nitrogen, nitrite, and total phosphate concentrations. Seasonal variation in water quality was assessed using a Fialyser, comparing data from two periods: the high-flow season (January to March) and the low-flow season (August to September).

Titration methods were applied to determine alkalinity (as CaCO<sub>3</sub>) and chloride concentrations. Fecal coliforms were analyzed using bacteriological testing procedures in the laboratory.

In addition, GIS tools were used to map the spatial distribution of pollutants within Lake Kariba, enhancing the understanding of water quality trends and potential pollution hotspots across the sampling locations.

| Reagent   |          |           | Before Digestion   | After Digestion |
|-----------|----------|-----------|--|-----------------|
| Digestion | reagent/ | Oxidizing | -100 mL of de-ionized water.                                       | N/A             |
| Agent     |          |           | $-16g K_2 S_2 O_{8.}$  |                 |
|           |          |           | -20 mL of 3N NaOH.   |                 |
|           |          |           | (16g K <sub>2</sub> S <sub>2</sub> O <sub>8</sub> was dissolved in |                 |
|           |          |           | the 100 mL of D.I Water, 20  |                 |
|           |          |           | mL of 3N NaOH was added  |                 |
|           |          |           | and mixed thoroughly, and  |                 |
|           |          |           | mixture was diluted to   |                 |

### Total Nitrogen (TN) Analysis by Cadmium Reduction Method.

|                       | 250mls).   |   |
|-----------------------|--|---|
| Samples               | <ul> <li>-6 mL of sample</li> <li>-1.25 mL digestion reagent</li> <li>(6 mL of sample and 1.25 mL were mixed using a vortex mixer).</li> </ul> | -50μL 3N NaOH was added to<br>neutralize the digested samples.<br>-The neutralized samples were<br>then diluted to 20 mL with D.I<br>Water. (at this stage final<br>dilution factor for<br>samples=3.33). |
| Calibration Standards | 10ppm of the Nitrate- Nitrogen<br>std stock solution was diluted<br>according to the table below.  | -Same amounts of the acid that<br>was added before is the same<br>amount of 3N NaOH that was<br>added to neutralize the digested<br>calibration standards.  |

# NO<sub>3</sub> -N Standards Preparation

• 5mL of 100ppm Nitrate-Nitrogen standard stock solution was used.

# **3N NaOH Solution**

• 30g NaOH was dissolved in 200mL DI water, cool to room temperature and was diluted to 250mL final volume with DI water.

| Final Conc<br>(ppm) | 10ppm STD<br>(mL) | D.I Water<br>(mL) | Digestion<br>Reagent<br>(mL) | Final Volume<br>(mL) |
|---------------------|-------------------|-------------------|------------------------------|----------------------|
| 0.4                 | 2                 | 10                | 3.1                          | 50                   |
| 0.6                 | 3                 | 10                | 3.1                          | 50                   |
| 0.8                 | 4                 | 10                | 3.1                          | 50                   |
| 1                   | 5                 | 10                | 3.1                          | 50                   |

The five (4) TN standards were prepared according to the table above and they were digested for 45mins at 123°C using a block digester. After digestion process, they we all let to cool to room temperature. 3N NaOH was added to both samples and standards as indicated as indicated table above and they were ready for analysis. The samples and reagents were introduced to FIAlab using FIAsoft App. The Total Nitrogen test was then run using the same FIAlab steps / procedures.

| Total Phosphorus (TP) Analysis by Ascorbi | c acid Method. |
|---|----------------|
|---|----------------|

| Reagent                  | Before Digestion                                 | After Digestion                |
|--------------------------|--|--------------------------------|
| Blank/Carrier/Wash Water | -250 mL of de-ionized water                      | -20 mL 11N NaOH was added to   |
|                          | was measured in the beaker.                      | neutralize the digested        |
|                          | -20 mL of 11N H <sub>2</sub> SO <sub>4</sub> was | blank/carrier/wash water added |

|           | added to the DI water.<br>$-10g K_2S_2O_8$ was weighed and<br>dissolved in the D.I Water. It<br>was then filled to the marked<br>area of the volumetric flask.  | before digestion and was diluted<br>to 1L with DI water final volume.   |
|-----------|---|---|
| Samples   | <ul> <li>-20 mL of sample was added.</li> <li>-0.5 mL of 11N H<sub>2</sub>SO<sub>4</sub> was added to the sample.</li> <li>-0.20g K<sub>2</sub>S<sub>2</sub>O<sub>8</sub> (2 Scoops) were added and digested in an autoclave at 120°C overnight.</li> </ul> | -0.5 11N NaOH was added to<br>neutralize the digested samples<br>and was diluted to 20 mL final<br>volume with D.I water. |
| Standards | 1 mL of 1000ppm Phosphorus<br>standard diluted with DI water<br>as shown in the table below.  | -0.5 11N NaOH was added to the standard and diluted to a final volume of 50 mL with D.I water.                            |

## **Reagents Preparation**

## Total Phosphorus (TP) Standard Preparation: 10ppm (P)

• 1mL of 1000 ppm Phosphorus std diluted to 100mL with D.I. Water

## **11N NaOH Solution**

• 44g NaOH was dissolved in 80mL DI water, cool to room temperature and dilute to 100mL with DI water.

## 11N H<sub>2</sub>SO<sub>4</sub> Solution

• 300mL Conc H<sub>2</sub>SO<sub>4</sub> was diluted to 1L D.I. Water

| Final Conc<br>(ppm) | 10ppm STD<br>(mL) | 11N H <sub>2</sub> SO <sub>4</sub> | D.I Water<br>(mL) | Digestion<br>Reagent | Final<br>Volume |
|---------------------|-------------------|------------------------------------|-------------------|----------------------|-----------------|
| (PP)                | (                 | (mL)                               | ()                | (mL)                 | (mL)            |
| 0.4                 | 2                 | 0.5 mL                             | 23                | 0.25g(2 Scoops)      | 50              |
| 0.6                 | 3                 | 0.5 mL                             | 22                | 0.25g(2 Scoops)      | 50              |
| 0.8                 | 4                 | 0.5 mL                             | 21                | 0.25g(2 Scoops)      | 50              |
| 1.0                 | 5                 | 0.5 mL                             | 20                | 0.25g(2 Scoops)      | 50              |
| 1.2                 | 6                 | 0.5 mL                             | 19                | 0.25g(2 Scoops)      | 50              |
|                     |                   |                                    |                   |                      |                 |

The five (5) TP standards were prepared according to the table above and they were digested for more than two (2) hours in an autoclave. After digestion process, they were all let to cool to room temperature. 11N NaOH was added to both sample and standards according to the table above and they were ready for analysis. The samples and reagents were introduced to FIAlab using FIAsoft App. The Total Phosphorus test was run using the same FIAlab steps / procedures from.

### **Alkalinity Analysis**

To begin, the blank sample was prepared and titrated first to determine the expected color change at the endpoint. This color change served as a reference for all subsequent titrations. Each water sample was then introduced into the titrator. The titration was monitored using the mixed indicator, which was added dropwise until a distinct color change was observed—signaling the endpoint. For this analysis, the color transition from blue to yellowish indicated the completion of the titration. After titrating each sample, the electrode was thoroughly rinsed with distilled water, dried, and reused for the next sample to avoid cross-contamination. The titration results for each sample, including the blank, were recorded on the alkalinity results sheet. The same procedure was used for the chloride analysis using different reagents.

### Bacteriological Test for feacal coliforms using Colilert System

A bacteriological test was carried out to determine fecal coliforms using the IDEXX reagent solution in combination with Quanti-Trays. A 100 mL water sample was mixed thoroughly with the IDEXX reagent specific for fecal coliform detection. The prepared mixture was then poured into a Quanti-Tray, which was subsequently sealed using the Quanti-Tray Sealer Plus to ensure even distribution of the sample into individual wells and to prevent contamination. The sealed tray was incubated at 44.5°C for 24 hours. Following incubation, the wells were examined for color change or fluorescence, indicating the presence of fecal coliforms. The number of positive wells was recorded, and the results were interpreted using the IDEXX MPN table to estimate the Most Probable Number (MPN) of fecal coliforms per 100 mL of sample.

As part of the analysis, the results obtained from both the field and the environmental laboratory during the review period were assessed against the Authority's water quality guidelines to determine whether they exceeded or fell within the permissible threshold limits.

# **RESULTS AND OBSERVATIONS**

#### JANUARY 2024

| DATE •   | STATION   | Temp  | pH  | EC   | DO   | TSS   | TDS   | T.Alkalinity  | NO <sub>2</sub> -N  | NO3-N   | TN   | NH <sub>3</sub> -N   | TP   | CI-  | Total   | Secchi   | FC   |
|--|---|---|---|--|--|---|---|---|---|---|--|--|--|--|---|--|--|
|  | ID  | oC  |   | mS/m   | mg/i   | mg/l  | mg/l  | mg/l as   | µg/l  | µg/l  | µg/l   | µg/l   | µg/I   | mg/l   | Chloro  | Disk   | MPN/   |
|  |   |   |   |  |  |   |   | CaCO3   |   |   |  |  |  |  | μg/L  | (m)  | 100ml  |
| 17.01.24   | Charara   | 29.44   | 7.30  | 10.30  | 5.18   | 7   | 65.80   | 43  | 5   | 40  | 314  | 54   | 34   | <10  | 3.20  | 2.1  | 38   |
| 16.01.24   | Andora  | 29.85   | 8.22  | 10.10  | 7.51   | 3   | 64.04   | 42  | 5   | <3  | 278  | 54   | 68   | <10  | 2.20  | 2.8  | 411  |
| 24.01.24   | Manchinchi  | 29.97   | 8.20  | 10.20  | 8.01   | <1  | 64.20   | 42  | 4   | 15  | 250  | 45   | 36   | <10  | 1.90  |  | 96   |
| 16.01.24   | Damwall Up  | 29.82   | 8.43  | 10.10  | 7.90   | 3   | 63.74   | 43  | 25  | <3  | 237  | 58   | 37   | <10  | 1.70  | 2.3  |  |
|  | Damwall   |   |   |  |  |   |   |   |   |   | 237  |  |  |  | 2.59  |  |  |
| 24.01.24   | Down  | 28.47   | 7.71  | 9.70   | 6.75   | 6.00  | 62.85   | 41  | 5   | 21  | 207  | 79   | 49   | <10  | 2.00  |  | 117  |
| 16 01 24   | B 51 0 5m   | 20.81   | 9.37  | 10.10  | 7.45   | 3   | 64.00   | 40  | 5   | 13  | 1562   | 60   | 40   | <10  | 2 3 3   | 2.4  | <1   |
| 10.01.24   | P 51 10m  | 29.01   | 0.57  | 0.90   | 7.45   | 2   | 62.40   | 40  | 4   | ~2  | 255  | 55   | 50   | <10  | 2.55  | 2.4  | ~1   |
|  | D 51 1011   | 20.45   | 0.23  | 9.00   | 1.00   | 3   | 63.40   | 41  | 4   | <u></u>   | 202  | 35   | 175  | <10  |   |  |  |
|  | D 51 20m  | 20.02   | 0.95  | 9.10   | 1.41   | 4   | 01.05   | 40  | 4   | 05  | 200  | 30   | 1/5  | <10  |   |  |  |
|  | B 51 30m  | 24.97   | 6.95  | 9.00   | 1.28   | 1   | 63.14   | - 8   | 6   | 66  | 91   | 53   | 50   | <10  |   |  |  |
|  | B 51 50m  | 24.96   | 7.07  | 9.10   | 1.87   | 4   | 62.90   | 40  | 3   | 171   | 406  | 75   | 75   | <10  |   |  |  |
| 16.01.24   | Sanyati 0.5m  | 31.46   | 8.58  | 10.80  | 7.79   | 36  | 66.05   | 52  | 29  | 46  | 1610   | 40   | 65   | <10  | 2.90  | 1.1  | 210  |
|  | Sanyati 10m   | 29.51   | 7.87  | 13.40  | 6.34   | 241   | 84.91   | 52  | 7   | 341   | 899  | 60   | 32   | <10  |   |  |  |
|  | Sanyati 20m   | 26.51   | 6.98  | 9.00   | 2.78   | 627   | 60.64   | 51  | 7   | 433   | 871  | 74   | 310  | <10  |   |  |  |
|  | Sanyati 30m   | 25.28   | 6.94  | 8.80   | 1.66   | 471   | 60.60   | 56  | 34  | 401   | 699  | 23   | 233  | <10  |   |  |  |
|  | Sanyati 50m   | 25.36   | 7.21  | 9.30   | 1.71   | 305   | 63.93   | 60  | 100   | 791   | 468  | 46   | 190  | <10  |   |  |  |
| 16.01.24   | Sanvati further   | 28.88   | 7.84  | 14.20  | 7.26   | 652   | 91.20   | 89  | 10  | 396   | 975  | 24   | 122  | <10  | 7.32  | 0.5  |  |
| 17 01 24   | Nyaodza   | 30.54   | 7 18  | 11 10  | 3 54   | 43  | 69.03   | 46  | 35  | 108   | 529  | 57   | 121  | <10  | 3 30  | 0.9  | 86   |
| 17.01.24   | Catchogatcha  | 20.04   | 7.15  | 10.90  | 5.0 <del>4</del>   |   | 67.74   | 47  | 7   | 20  | 601  | 146  | 120  | <10  | 7.50  | 0.0  | 225  |
| 17.01.24   | Gatchegatche  | 29.90   | 1.35  | 10.00  | 0.10   | 3   | 72.00   | 41  |   | 30  | 001  | 140  | 120  | <10  | 1.52  | 0.9  | 220  |
| 17.01.24   | ULKRS   | 30.61   | 1.18  | 11.90  | 0.69   | 20  | 13.90   | 45  | ŏ   | 29  | 000  | 160  | 118  | <10  | 9.03  | 1.2  | >2419.6  |
| 17.01.24   | Croc Farm   | 29.46   | 1.15  | 10.20  | /.01   | 19  | 64.70   | 4/  | 6   | 22  | 8/1  | 446  | 18/  | <10  | 3.90  | 1.6  | >2419.6  |
| 24.01.24   | Chirundu  | 30.70   | 7.81  | 12.00  | 6.97   | 42  | 74.44   | 47  | 5   | 135   | 405  | 59   | 125  | <10  | 3.40  |  | >2419.6  |
| 19.01.24   | Vicfalls  | 26.57   | 7.58  | 8.90   | 6.93   | 8   | 69.80   | 36  | 4   | 43  | 688  | 90   | 97   | <10  | 3.85  |  |  |
| 19.01.24   | ZESA Pump   | 27.44   | 7.82  | 10.20  | 7.76   | 204   | 67.20   | 44  | 5   | 82  | 885  | 48   | 259  | <10  | 5.33  |  |  |
| 19.01.24   | Deka  | 25.58   | 7.85  | 28.30  | 7.49   | 408   | 194.30  | 119   | 21  | 394   | 1469   | 73   | 762  | 17.4   | 7.85  |  |  |
| 21.01.24   | Zongwe  | 24.98   | 7.96  | 10.20  | 8.04   | 70  | 70.71   | 52  | 6   | 148   | 597  | 10   | 185  | <10  | 5.90  |  |  |
| 20.01.24   | Kalomo  | 22.33   | 7.29  | 3.30   | 7.71   | 387   | 24.00   | 73  | 15  | 197   | 663  | 43   | 252  | <10  | 8.00  |  |  |
| 19.01.24   | Gwavi   | 25.41   | 7.99  | 10.70  | 7.80   | 1915  | 74.00   | 86  | 11  | 237   | 2191   | 49   | 966  | <10  | 10.30   |  |  |
| 21 01 24   | Sikalamba   | 25.31   | 8 16  | 38 00  | 7 81   | 130   | 262.00  | 98  | 21  | 482   | 1015   | 68   | 307  | <10  | 4 79  |  |  |
| FEBRUARY   | 2024  |   |   |  |  |   |   |   |   |   |  | 1  |  |  |   |  |  |
| DATE   | 2024<br>STATION<br>ID   | Temp<br>oC  | рH  | EC<br>mS/m   | DO<br>mg/l   | TSS<br>mg/l   | TDS<br>mg/l   | T.Alkalinity<br>mg/l as   | NO <sub>2</sub> -N<br>μg/l  | NO3-N<br>µg/l   | TN<br>μg/l   | NH3-N<br>µg/l  | TP<br>µg/l   | CI-<br>mg/l  | Total<br>Chloro   | Secchi<br>Disk   | FC<br>MPN/   |
| DATE   | 2024<br>STATION<br>ID   | Temp<br>oC  | pH  | EC<br>mS/m   | DO<br>mg/l   | TSS<br>mg/l   | TDS<br>mg/l   | T.Alkalinity<br>mg/l as<br>CaCO3  | NO <sub>2</sub> -N<br>μg/l  | NO <sub>3</sub> -N<br>µg/l  | ΤΝ<br>μg/l   | NH3-N<br>µg/l  | ΤΡ<br>μg/l   | CI-<br>mg/l  | Total<br>Chloro<br>μg/L   | Secchi<br>Disk<br>(m)  | FC<br>MPN/<br>100ml  |
| FEBRUARY 2<br>DATE<br>15.02.24   | 2024<br>STATION<br>ID<br>Charara  | Temp<br>oC<br>31.46   | рН<br>7.92  | EC<br>mS/m<br>10.80  | DO<br>mg/l<br>8.03   | TSS<br>mg/l   | TDS<br>mg/l<br>66.12  | T.Alkalinity<br>mg/l as<br>CaCO3<br>38  | NO <sub>2</sub> -N<br>μg/l  | NO3-N<br>µg/l   | TN<br>μg/l<br>445  | NH <sub>3</sub> -N<br>µg/l<br><10  | TP<br>μg/l<br>86   | CI-<br>mg/l  | Total<br>Chloro<br>μg/L<br>7.92   | Secchi<br>Disk<br>(m)<br>1.2   | FC<br>MPN/<br>100ml  |
| FEBRUARY 2<br>DATE<br>15.02.24<br>15.02.24   | 2024<br>STATION<br>ID<br>Charara<br>Andora  | Temp<br>oC<br>31.46<br>30.54  | pH<br>7.92<br>8.20  | EC<br>mS/m<br>10.80<br>11.20   | DO<br>mg/l<br>8.03<br>7.69   | TSS<br>mg/l<br>23<br>6  | TDS<br>mg/l<br>66.12<br>70.00   | T.Alkalinity<br>mg/l as<br>CaCO3<br>38<br>34  | NO <sub>2</sub> -N<br>μg/l  | NO <sub>3</sub> -N<br>μg/l<br>56<br>41  | TN<br>μg/l<br>445<br>406   | NH <sub>3</sub> -N<br>μg/l<br><10<br><10   | TP<br>μg/l<br>86<br>79   | CI-<br>mg/l<br><10<br><10  | Total<br>Chloro<br>μg/L<br>7.92<br>11.10  | Secchi<br>Disk<br>(m)<br>1.2<br>2.5  | FC<br>MPN/<br>100ml<br>4<br>3  |
| FEBRUARY 2<br>DATE<br>15.02.24<br>15.02.24<br>22.02.24<br>22.02.24   | 2024<br>STATION<br>ID<br>Charara<br>Andora<br>Manchinchi  | Temp<br>oC<br>31.46<br>30.54<br>31.41   | pH<br>7.92<br>8.20<br>8.70  | EC<br>mS/m<br>10.80<br>11.20<br>10.50  | DO<br>mg/l<br>8.03<br>7.69<br>8.11   | TSS<br>mg/l<br>23<br>6<br>3   | TDS<br>mg/l<br>66.12<br>70.00<br>64.44  | T.Alkalinity<br>mg/l as<br>CaCO3<br>38<br>34<br>36  | NO <sub>2</sub> -N<br>µg/l<br><3<br>3<br><3   | NO <sub>3</sub> -N<br>µg/l<br>56<br>41<br><3  | TN<br>μg/l<br>445<br>406<br>1545   | NH₃-N<br>µg/l<br><10<br><10<br><10   | TP<br>μg/l<br>86<br>79<br>53   | CI-<br>mg/l<br><10<br><10<br><10   | Total<br>Chloro<br>μg/L<br>7.92<br>11.10<br>1.90  | Secchi<br>Disk<br>(m)<br>1.2<br>2.5<br>2.3   | FC<br>MPN/<br>100ml<br>4<br>3<br>1   |
| FEBRUARY 2<br>DATE<br>15.02.24<br>15.02.24<br>22.02.24<br>22.02.24   | 2024<br>STATION<br>ID<br>Charara<br>Andora<br>Manchinchi<br>Damwall Up<br>Damwall   | Temp<br>oC<br>31.46<br>30.54<br>31.41<br>31.43  | pH<br>7.92<br>8.20<br>8.70<br>8.74  | EC<br>mS/m<br>10.80<br>11.20<br>10.50<br>10.50   | DO<br>mg/l<br>8.03<br>7.69<br>8.11<br>8.19   | TSS<br>mg/l<br>23<br>6<br>3<br>2  | TDS<br>mg/l<br>66.12<br>70.00<br>64.44<br>64.43   | T.Alkalinity<br>mg/l as<br>CaCO3<br>38<br>34<br>36<br>39  | NO <sub>2</sub> -N<br>µg/l<br><3<br><3<br><3<br><3  | NO <sub>3</sub> -N<br>µg/l<br>56<br>41<br><3<br><3  | TN<br>μg/l<br>445<br>406<br>1545<br>224  | NH₃-N<br>µg/l<br><10<br><10<br><10<br><10  | TP<br>µg/l<br>86<br>79<br>53<br>84   | CI-<br>mg/l<br><10<br><10<br><10<br><10  | Total<br>Chloro<br>μg/L<br>7.92<br>11.10<br>1.90<br>1.92  | Secchi<br>Disk<br>(m)<br>1.2<br>2.5<br>2.3<br>2.0  | FC<br>MPN/<br>100ml<br>4<br>3<br>1   |
| FEBRUARY 2<br>DATE<br>15.02.24<br>15.02.24<br>22.02.24<br>22.02.24<br>27.02.24<br>27.02.24   | 2024<br>STATION<br>ID<br>Charara<br>Andora<br>Manchinchi<br>Damwall<br>Down<br>Down   | Temp<br>oC<br>31.46<br>30.54<br>31.41<br>31.43<br>27.77   | pH<br>7.92<br>8.20<br>8.70<br>8.74<br>7.13  | EC<br>mS/m<br>10.80<br>11.20<br>10.50<br>10.50<br>9.60   | DO<br>mg/l<br>8.03<br>7.69<br>8.11<br>8.19<br>3.76   | TSS<br>mg/l<br>23<br>6<br>3<br>2<br>7   | TDS<br>mg/l<br>66.12<br>70.00<br>64.44<br>64.43<br>63.16  | T.Alkalinity<br>mg/l as<br>CaCO3<br>38<br>34<br>36<br>39<br>30  | NO <sub>2</sub> -N<br>µg/l<br><3<br><3<br><3<br><3<br><3<br><3  | NO <sub>3</sub> -N<br>µg/l<br>56<br>41<br><3<br><3<br>80  | TN<br>μg/l<br>445<br>406<br>1545<br>224<br>186   | NH <sub>3</sub> -N<br>µg/l<br><10<br><10<br><10<br><10<br><10  | TP<br>μg/l<br>86<br>79<br>53<br>84<br>48   | CI-<br>mg/l<br><10<br><10<br><10<br><10<br><10<br><10  | Total<br>Chloro<br>μg/L<br>7.92<br>11.10<br>1.90<br>1.92<br>1.24  | Secchi<br>Disk<br>(m)<br>1.2<br>2.5<br>2.3<br>2.0  | FC<br>MPN/<br>100ml<br>4<br>3<br>1<br>1  |
| FEBRUARY 2<br>DATE<br>15.02.24<br>15.02.24<br>22.02.24<br>22.02.24<br>27.02.24<br>22.02.24   | 2024<br>STATION<br>ID<br>Charara<br>Andora<br>Manchinchi<br>Damwall<br>Down<br>B 51 0.5m<br>D 51 4 0cc  | Temp<br>oC<br>31.46<br>30.54<br>31.41<br>31.43<br>27.77<br>31.26  | pH<br>7.92<br>8.20<br>8.70<br>8.74<br>7.13<br>8.70  | EC<br>mS/m<br>10.80<br>11.20<br>10.50<br>10.50<br>9.60<br>10.50  | DO<br>mg/l<br>8.03<br>7.69<br>8.11<br>8.19<br>3.76<br>8.02   | TSS<br>mg/l<br>23<br>6<br>3<br>2<br>7<br>7<br><1  | TDS<br>mg/l<br>66.12<br>70.00<br>64.44<br>64.43<br>63.16<br>64.46   | T.Alkalinity<br>mg/l as<br>CaCO3<br>38<br>34<br>36<br>39<br>30<br>30  | NO <sub>2</sub> -N         μg/l           <3  | NO <sub>3</sub> -N<br>μg/l<br>56<br>41<br><3<br><3<br>80<br>22  | TN<br>μg/l<br>445<br>406<br>1545<br>224<br>186<br>1481   | NH₃-N<br>µg/l<br><10<br><10<br><10<br><10<br><10<br><10<br><10   | TP<br>μg/l<br>86<br>79<br>53<br>84<br>48<br>70   | CI-<br>mg/l<br><10<br><10<br><10<br><10<br><10<br><10  | Total<br>Chloro<br>μg/L<br>7.92<br>11.10<br>1.90<br>1.92<br>1.24  | Secchi<br>Disk<br>(m)<br>1.2<br>2.5<br>2.3<br>2.0  | FC<br>MPN/<br>100ml<br>4<br>3<br>1<br>1<br>1<br><1   |
| FEBRUARY 2<br>DATE<br>15.02.24<br>15.02.24<br>22.02.24<br>22.02.24<br>27.02.24<br>22.02.24<br>22.02.24   | 2024<br>STATION<br>ID<br>Charara<br>Andora<br>Manchinchi<br>Damwall<br>Down<br>B 51 0.5m<br>B 51 10m  | Temp<br>oC<br>31.46<br>30.54<br>31.41<br>31.43<br>27.77<br>31.26<br>29.74   | pH<br>7.92<br>8.20<br>8.70<br>8.74<br>7.13<br>8.70<br>8.61<br>8.61  | EC<br>mS/m<br>10.80<br>11.20<br>10.50<br>10.50<br>9.60<br>10.50<br>10.00   | DO<br>mg/l<br>8.03<br>7.69<br>8.11<br>8.19<br>3.76<br>8.02<br>7.87   | TSS<br>mg/l<br>23<br>6<br>3<br>2<br>7<br><1<br>3  | TDS<br>mg/l<br>66.12<br>70.00<br>64.44<br>64.43<br>63.16<br>64.46<br>63.40<br>63.40   | T.Alkalinity<br>mg/l as<br>CaCO3<br>38<br>34<br>36<br>39<br>30<br>30<br>34<br>41  | NO2-N         μg/l           <3   | NO <sub>3</sub> -N<br>μg/l<br>56<br>41<br><3<br>80<br>22<br><3<br><3  | TN<br>μg/l<br>445<br>406<br>1545<br>224<br>186<br>1481<br>371<br>371   | NH <sub>3</sub> -N<br>µg/l<br><10<br><10<br><10<br><10<br><10<br><10<br><10<br>21  | TP<br>μg/l<br>86<br>79<br>53<br>84<br>48<br>70<br>67<br>67   | CI-<br>mg/l<br><10<br><10<br><10<br><10<br><10<br><10<br><10<br><10  | Total<br>Chloro<br>μg/L<br>7.92<br>11.10<br>1.90<br>1.92<br>1.24  | Secchi<br>Disk<br>(m)<br>1.2<br>2.5<br>2.3<br>2.0  | FC<br>MPN/<br>100ml<br>4<br>3<br>1<br>1<br><1  |
| FEBRUARY :<br>DATE<br>15.02.24<br>15.02.24<br>22.02.24<br>22.02.24<br>27.02.24<br>22.02.24   | 2024<br>STATION<br>ID<br>Charara<br>Andora<br>Manchinchi<br>Damwall Up<br>Damwall<br>Down<br>B 51 05m<br>B 51 10m<br>B 51 20m   | Temp<br>oC<br>31.46<br>30.54<br>31.41<br>31.43<br>27.77<br>31.26<br>29.74<br>28.02<br>25.00   | pH<br>7.92<br>8.20<br>8.70<br>8.74<br>7.13<br>8.70<br>8.61<br>7.26  | EC<br>mS/m<br>10.80<br>10.50<br>10.50<br>9.60<br>10.50<br>10.00<br>9.70<br>9.70  | DO<br>mg/l<br>8.03<br>7.69<br>8.11<br>8.19<br>3.76<br>8.02<br>7.87<br>3.53   | TSS<br>mg/l<br>23<br>6<br>3<br>2<br>7<br><1<br>3<br><1<br>2<br>7  | TDS<br>mg/l<br>66.12<br>70.00<br>64.44<br>64.43<br>63.16<br>64.46<br>63.40<br>63.23<br>63.23  | T.Alkalinity<br>mg/l as<br>CaCO3<br>38<br>34<br>36<br>39<br>30<br>30<br>34<br>41  | NO2-N<br>µg/l<br><3<br>3<br><3<br><3<br><3<br><3<br><3<br><3<br><3<br><3<br><3<br><3<br><3<br><   | NO <sub>3</sub> -N         μg/l           56         41           <3  | TN<br>μg/l<br>445<br>406<br>1545<br>224<br>186<br>1481<br>371<br>415   | NH₃-N         µg/l           <10   | TP         μg/l           86         79           53         84           48         70           67         68  | Cl-<br>mg/l<br><10<br><10<br><10<br><10<br><10<br><10<br><10<br><10<br><10<br><10  | Total<br>Chloro<br>µg/L<br>7.92<br>11.10<br>1.90<br>1.92<br>1.24  | Secchi<br>Disk<br>(m)<br>1.2<br>2.5<br>2.3<br>2.0  | FC<br>MPN/<br>100ml<br>4<br>3<br>1<br>1<br><1<br><1  |
| FEBRUARY :<br>DATE<br>15.02.24<br>15.02.24<br>22.02.24<br>22.02.24<br>27.02.24<br>22.02.24   | 2024<br>STATION<br>ID<br>Charara<br>Andora<br>Manchinchi<br>Damwall Up<br>Damwall<br>Down<br>B 51 0.5m<br>B 51 10m<br>B 51 10m<br>B 51 20m<br>B 51 20m  | Temp<br>oC<br>31.46<br>30.54<br>31.41<br>31.43<br>27.77<br>31.26<br>29.74<br>28.02<br>25.68<br>24.74  | pH<br>7.92<br>8.20<br>8.70<br>8.74<br>7.13<br>8.70<br>8.61<br>7.26<br>7.00  | EC<br>mS/m<br>10.80<br>11.20<br>10.50<br>9.60<br>10.50<br>10.00<br>9.70<br>9.10  | DO<br>mg/l<br>8.03<br>7.69<br>8.11<br>8.19<br>3.76<br>8.02<br>7.87<br>3.53<br>2.20<br>2.20   | TSS<br>mg/l<br>23<br>6<br>3<br>2<br>7<br><1<br>3<br><1<br>13<br>2   | TDS<br>mg/l<br>66.12<br>70.00<br>64.44<br>64.43<br>63.16<br>64.46<br>63.40<br>63.23<br>62.64<br>62.64   | T.Alkalinity<br>mg/l as<br>CaCO3<br>38<br>34<br>36<br>39<br>30<br>30<br>34<br>41<br>36<br>38<br>38  | NO <sub>2</sub> -N         μg/l           <3  | NO <sub>3</sub> -N<br>μg/l<br>56<br>41<br><3<br>80<br>22<br><3<br>67<br>4<br>60   | TN<br>µg/l<br>445<br>406<br>1545<br>224<br>186<br>1481<br>371<br>415<br>2474   | NH3-N<br>µg/l<br><10<br><10<br><10<br><10<br><10<br><10<br><10<br><10<br><10<br><10  | TP<br>µg/l<br>86<br>79<br>53<br>84<br>48<br>70<br>67<br>67<br>68<br>64<br>48   | Cl-<br>mg/l<br><10<br><10<br><10<br><10<br><10<br><10<br><10<br><10<br><10<br><10  | Total<br>Chloro<br>µg/L<br>7.92<br>11.10<br>1.90<br>1.92<br>1.24  | Secchi<br>Disk<br>(m)<br>1.2<br>2.5<br>2.3<br>2.0  | FC<br>MPN/<br>100ml<br>4<br>3<br>1<br>1<br><1<br><1  |
| FEBRUARY :<br>DATE<br>15.02.24<br>22.02.24<br>22.02.24<br>27.02.24<br>22.02.24<br>22.02.24   | 2024<br>STATION<br>ID<br>Charara<br>Andora<br>Manchinchi<br>Damwall Up<br>Damwall<br>Down<br>B 51 0.5m<br>B 51 10m<br>B 51 20m<br>B 51 30m<br>B 51 30m  | Temp<br>oC<br>31.46<br>30.54<br>31.41<br>31.43<br>27.77<br>31.26<br>29.74<br>28.02<br>25.68<br>24.71<br>29.72   | pH<br>7.92<br>8.20<br>8.70<br>8.74<br>7.13<br>8.70<br>8.61<br>7.26<br>7.00<br>7.38  | EC<br>mS/m<br>10.80<br>11.20<br>10.50<br>9.60<br>10.50<br>10.00<br>9.70<br>9.10<br>9.10<br>9.10  | DO<br>mg/l<br>8.03<br>7.69<br>8.11<br>8.19<br>3.76<br>8.02<br>7.87<br>3.53<br>2.20<br>2.46<br>5.57   | TSS<br>mg/l<br>23<br>6<br>3<br>2<br>7<br>7<br><1<br>3<br><1<br>13<br>2<br>2   | TDS<br>mg/l<br>66.12<br>70.00<br>64.44<br>64.43<br>63.16<br>64.46<br>63.40<br>63.23<br>62.64<br>63.61<br>63.61  | T.Alkalinity<br>mg/l as<br>CaCO3<br>38<br>34<br>36<br>39<br>30<br>30<br>34<br>41<br>36<br>38<br>38<br>39  | NO <sub>2</sub> -N         μg/l           «3         3           «3         3           «3         3           3         3           3         3           3         3           3         4           44         44  | NO <sub>3</sub> -N<br>µg/l<br>56<br>41<br><3<br><3<br>80<br>22<br><3<br>67<br>4<br>68<br>80<br>22<br><3   | TN<br>µg/l<br>445<br>406<br>1545<br>224<br>186<br>1481<br>371<br>415<br>2474<br>456  | NH3-N<br>µg/l<br><10<br><10<br><10<br><10<br><10<br><10<br><10<br><10<br><10<br>10<br><10<br><   | TP<br>µg/l<br>86<br>79<br>53<br>84<br>48<br>70<br>67<br>67<br>68<br>64<br>71<br>70   | Cl-<br>mg/l<br><10<br><10<br><10<br><10<br><10<br><10<br><10<br><10<br><10<br><10  | Total<br>Chloro<br>µg/L<br>7.92<br>11.10<br>1.90<br>1.92<br>1.24  | Secchi<br>Disk<br>(m)<br>1.2<br>2.5<br>2.3<br>2.0  | FC<br>MPN/<br>100ml<br>4<br>3<br>1<br>1<br><1<br><1  |
| FEBRUARY :<br>DATE<br>15.02.24<br>15.02.24<br>22.02.24<br>22.02.24<br>27.02.24<br>22.02.24<br>22.02.24<br>16.02.24   | 2024<br>STATION<br>ID<br>Charara<br>Andora<br>Manchinchi<br>Damwali Up<br>Damwali<br>Down<br>B 51 05<br>B 51 05<br>B 51 10m<br>B 51 10m<br>B 51 30m<br>B 51 30m<br>Sanyati 0.5m   | Temp<br>oC<br>31.46<br>30.54<br>31.41<br>31.43<br>27.77<br>31.26<br>29.74<br>28.02<br>25.68<br>24.71<br>30.73<br>29.24  | pH<br>7.92<br>8.20<br>8.70<br>8.74<br>7.13<br>8.70<br>8.61<br>7.26<br>7.00<br>7.38<br>7.70<br>7.22  | EC<br>mS/m<br>10.80<br>11.20<br>10.50<br>9.60<br>10.50<br>10.00<br>9.70<br>9.10<br>9.10<br>13.90<br>14.40  | DO<br>mg/l<br>8.03<br>7.69<br>8.11<br>8.19<br>3.76<br>8.02<br>7.87<br>3.53<br>2.20<br>2.46<br>5.27   | TSS<br>mg/l<br>23<br>6<br>3<br>2<br>7<br><1<br>3<br><1<br>13<br>2<br>13<br>2<br>2   | TDS<br>mg/l<br>66.12<br>70.00<br>64.44<br>64.43<br>63.16<br>63.40<br>63.23<br>62.64<br>63.61<br>87.42<br>87.42  | T.Alkalinity<br>mg/l as<br>CaCO3<br>38<br>34<br>36<br>39<br>30<br>30<br>34<br>41<br>36<br>38<br>39<br>46<br>20  | NO <sub>2</sub> -N         μg/l           <3  | NO <sub>3</sub> -N<br>µg/l<br>56<br>41<br><3<br>80<br>22<br><3<br>67<br>4<br>68<br>36<br>68<br>36   | TN<br>µg/l<br>445<br>406<br>1545<br>224<br>186<br>1481<br>371<br>415<br>2474<br>456<br>608   | NHa-N         µg/l           <10   | TP<br>µg/l<br>86<br>79<br>53<br>84<br>48<br>70<br>67<br>68<br>64<br>71<br>78<br>84   | CI-<br>mg/l<br><10<br><10<br><10<br><10<br><10<br><10<br><10<br><10<br><10<br><10  | Total<br>Chloro<br>µg/L<br>7.92<br>11.10<br>1.90<br>1.92<br>1.24<br>4.41  | Secchi<br>Disk<br>(m)<br>1.2<br>2.5<br>2.3<br>2.0<br>  | FC<br>MPN/<br>100ml<br>4<br>3<br>1<br>1<br><1<br><1<br>  |
| FEBRUARY :<br>DATE<br>15.02.24<br>15.02.24<br>22.02.24<br>27.02.24<br>27.02.24<br>22.02.24<br>16.02.24   | 2024 STATION ID Charara Andora Manchinchi Damwall Damwall Downall B 51 0.5m B 51 10m B 51 30m Canvall 0.5m Sanyatl 0.5m Sanya  | Temp<br>oC<br>31.46<br>30.54<br>31.41<br>31.43<br>27.77<br>31.26<br>29.74<br>28.02<br>25.68<br>24.71<br>30.73<br>29.34  | pH<br>7.92<br>8.20<br>8.70<br>8.74<br>7.13<br>8.70<br>8.61<br>7.26<br>7.38<br>7.70<br>7.38<br>7.70  | EC<br>mS/m<br>10.80<br>11.20<br>10.50<br>10.50<br>10.50<br>10.50<br>10.00<br>9.70<br>9.70<br>9.10<br>13.90<br>11.10  | DO<br>mg/l<br>8.03<br>7.69<br>8.11<br>8.19<br>3.76<br>8.02<br>7.87<br>3.53<br>2.20<br>2.46<br>5.27<br>3.99<br>2.77   | TSS<br>mg/l<br>23<br>6<br>3<br>2<br>7<br><1<br>3<br><1<br>3<br><1<br>13<br>2<br>2<br>13<br>2<br>2<br>2<br>2   | TDS<br>mg/l<br>66.12<br>70.00<br>64.44<br>64.43<br>63.16<br>64.46<br>63.40<br>63.23<br>62.64<br>63.64<br>87.42<br>71.01<br>87.42  | T.Alkalinity<br>mg/l as<br>CaCO3<br>38<br>34<br>36<br>39<br>30<br>30<br>34<br>41<br>36<br>38<br>39<br>46<br>32<br>22  | NO2-N<br>µg/l<br><3<br>3<br><3<br><3<br><3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>4<br>4<br>111<br>3<br>2  | NO <sub>3</sub> -N<br>µg/l<br>56<br>41<br><3<br><3<br>80<br>22<br><3<br>67<br>4<br>68<br>36<br>108<br>36  | TN<br>µg/l<br>445<br>406<br>1545<br>224<br>186<br>1481<br>371<br>415<br>2474<br>456<br>608<br>606<br>606   | NH3-N         µg/           <10  | TP<br>µg/l<br>86<br>79<br>53<br>84<br>48<br>70<br>67<br>68<br>64<br>71<br>78<br>91<br>20   | Cl-<br>mg/l<br><10<br><10<br><10<br><10<br><10<br><10<br><10<br><10<br><10<br><10  | Total<br>Chloro<br>µg/L<br>7.92<br>11.10<br>1.90<br>1.92<br>1.24<br>4.41  | Secchi<br>Disk<br>(m)<br>2.5<br>2.3<br>2.0<br>   | FC<br>MPN/<br>100ml<br>4<br>3<br>1<br>1<br><1<br><1<br><1<br>1<br>6  |
| FEBRUARY :<br>DATE<br>15.02.24<br>15.02.24<br>22.02.24<br>22.02.24<br>27.02.24<br>22.02.24<br>22.02.24<br>16.02.24   | 2024<br>STATION<br>ID<br>Charara<br>Andora<br>Manchinchi<br>Damwall Up<br>Damwall<br>Down<br>B 51 10m<br>B 51 10m<br>B 51 30m<br>B 51 30m<br>B 51 30m<br>Sanyati 0am<br>Sanyati 10m<br>Sanyati 20m  | Temp<br>oC<br>31.46<br>30.54<br>31.41<br>31.43<br>27.77<br>31.26<br>29.74<br>28.02<br>25.68<br>24.71<br>30.73<br>29.34<br>27.22<br>26.61  | pH<br>7.92<br>8.20<br>8.70<br>8.74<br>7.13<br>8.70<br>8.61<br>7.26<br>7.00<br>7.38<br>7.70<br>7.27<br>7.00  | EC<br>mS/m<br>10.80<br>11.20<br>10.50<br>9.60<br>10.50<br>10.50<br>9.60<br>9.70<br>9.70<br>9.10<br>9.10<br>13.90<br>11.10<br>10.20   | DO<br>mg/l<br>8.03<br>7.69<br>8.11<br>8.19<br>3.76<br>8.02<br>7.87<br>3.53<br>2.20<br>2.46<br>5.27<br>3.99<br>2.57<br>3.99   | TSS<br>mg/l<br>23<br>6<br>3<br>2<br>7<br>7<br>41<br>3<br>41<br>13<br>2<br>13<br>2<br>13<br>2<br>8<br>3<br>145   | TDS<br>mg/l<br>66.12<br>70.00<br>64.44<br>64.43<br>63.16<br>64.46<br>63.23<br>62.64<br>63.23<br>62.64<br>63.61<br>87.42<br>71.01<br>67.54<br>66.75  | T.Alkalinity<br>mg/l as<br>CaCO3<br>38<br>34<br>36<br>39<br>30<br>30<br>34<br>41<br>36<br>38<br>39<br>46<br>32<br>32<br>27  | NO <sub>2</sub> -N<br>µg/l<br><3<br>3<br>3<br><3<br><3<br><3<br><3<br><3<br><3<br><3<br><3<br><3<br><3<br><3  | NO <sub>3</sub> -N<br>μg/l<br>56<br>41<br><3<br><3<br>80<br>22<br><3<br>67<br>4<br>68<br>36<br>68<br>36<br>108<br>235<br>5<br>170   | TN<br>µg/l<br>445<br>406<br>1545<br>224<br>186<br>1481<br>371<br>415<br>2474<br>456<br>608<br>606<br>782<br>677  | NH3-N         µg/l           <10   | TP<br>µg/l<br>86<br>79<br>53<br>84<br>48<br>70<br>67<br>68<br>64<br>71<br>78<br>91<br>90<br>94   | CI-<br>mg/l<br><10<br><10<br><10<br><10<br><10<br><10<br><10<br><10<br><10<br><10  | Total<br>Chloro<br>µg/L<br>7.92<br>11.10<br>1.90<br>1.92<br>1.24<br>4.41  | Secchi<br>Disk<br>(m)<br>1.2<br>2.5<br>2.3<br>2.0<br>  | FC<br>MPN/<br>100ml<br>4<br>3<br>1<br>1<br><1<br><1<br><1<br>16  |
| FEBRUARY :<br>DATE<br>15.02.24<br>15.02.24<br>22.02.24<br>22.02.24<br>22.02.24<br>22.02.24<br>22.02.24<br>16.02.24   | 2024<br>STATION<br>ID<br>Charara<br>Andora<br>Manchinchi<br>Damwall Up<br>Down<br>B 51 0.5m<br>B 51 0.5m<br>B 51 10m<br>B 51 20m<br>B 51 30m<br>B 51 30m<br>B 51 30m<br>B 51 30m<br>Sanyati 10m<br>Sanyati 10m<br>Sanyati 20m<br>Sanyati 20m  | Temp<br>oC<br>31.46<br>30.54<br>31.41<br>31.43<br>27.77<br>31.26<br>29.74<br>28.02<br>25.68<br>24.71<br>30.73<br>29.34<br>27.22<br>26.61<br>24.06   | pH<br>7.92<br>8.20<br>8.74<br>7.13<br>8.70<br>8.61<br>7.26<br>7.00<br>7.38<br>7.70<br>7.27<br>7.00<br>7.27<br>7.00<br>7.29  | EC<br>mS/m<br>10.80<br>11.20<br>10.50<br>9.60<br>9.60<br>9.70<br>9.70<br>9.70<br>9.70<br>9.70<br>9.10<br>13.90<br>11.10<br>10.20   | DO<br>mg/l<br>8.03<br>7.69<br>8.11<br>8.19<br>3.76<br>8.02<br>7.87<br>3.53<br>2.20<br>2.46<br>5.27<br>3.99<br>2.57<br>2.86<br>2.57<br>2.86<br>2.20   | TSS<br>mg/l<br>23<br>6<br>3<br>2<br>7<br>7<br><1<br>3<br>3<br><1<br>3<br>2<br>13<br>2<br>13<br>2<br>83<br>145<br>76   | TDS<br>mg/l<br>66.12<br>70.00<br>64.44<br>64.43<br>63.16<br>64.46<br>63.40<br>63.23<br>62.64<br>63.64<br>63.64<br>63.64<br>63.64<br>63.67<br>1<br>87.42<br>771.01<br>87.42<br>66.71<br>70.54<br>66.71   | T. Alkalinity<br>mg/l as<br>CaCO3<br>38<br>34<br>36<br>39<br>30<br>34<br>41<br>36<br>38<br>39<br>46<br>32<br>32<br>32<br>37<br>42   | NO <sub>2</sub> -N<br>µg/l<br><3<br><3<br><3<br><3<br><3<br><3<br><3<br><3<br><3<br><3<br><3<br><3<br><3  | NO <sub>3</sub> -N         μg/l           56         41           <3  | TN<br>µg/l<br>445<br>406<br>1545<br>224<br>186<br>1481<br>371<br>415<br>2474<br>456<br>608<br>606<br>608<br>608<br>607<br>782<br>677<br>522  | NH-N         µg/l           <10  | TP<br>µg/l<br>86<br>79<br>53<br>84<br>48<br>70<br>67<br>68<br>64<br>71<br>78<br>90<br>90<br>84<br>402  | CI-<br>mg/l<br><10<br><10<br><10<br><10<br><10<br><10<br><10<br><10<br><10<br><10  | Total<br>Chloro<br>µg/L<br>7.92<br>11.10<br>1.90<br>1.92<br>1.24  | Secchi<br>Disk<br>(m)<br>1.2<br>2.5<br>2.3<br>2.0<br>  | FC<br>MPN/<br>100ml<br>4<br>3<br>1<br>1<br><1<br><1<br><1<br>10<br>16  |
| FEBRUARY :<br>DATE<br>15.02.24<br>15.02.24<br>22.02.24<br>22.02.24<br>27.02.24<br>22.02.24<br>22.02.24<br>16.02.24   | 2024<br>STATION<br>ID<br>Charara<br>Andora<br>Manchinchi<br>Damwail<br>Down<br>B 51 0.5m<br>B 51 0.5m<br>B 51 10m<br>B 51 20m<br>B 51 30m<br>B 51 30m<br>B 51 30m<br>B 51 30m<br>Sanyati 0.5m<br>Sanyati 10m<br>Sanyati 10m<br>Sanyati 30m  | Temp oC<br>31.46<br>30.54<br>31.41<br>31.43<br>27.77<br>31.26<br>29.74<br>28.02<br>25.68<br>24.71<br>30.73<br>29.34<br>27.22<br>26.61<br>24.96  | pH<br>7.92<br>8.20<br>8.70<br>8.74<br>7.13<br>8.70<br>8.61<br>7.26<br>7.00<br>7.38<br>7.70<br>7.27<br>7.00<br>7.27<br>7.04<br>7.04<br>7.08  | EC<br>mS/m<br>10.80<br>11.20<br>10.50<br>9.60<br>10.50<br>9.60<br>9.70<br>9.10<br>9.70<br>9.10<br>9.10<br>13.90<br>11.10<br>10.20<br>9.90  | DO<br>mg/l<br>8.03<br>7.69<br>8.11<br>8.19<br>3.76<br>8.02<br>7.87<br>2.20<br>2.46<br>5.27<br>3.99<br>2.57<br>3.99<br>2.57<br>2.86<br>3.20   | TSS<br>mg/l<br>23<br>6<br>3<br>2<br>7<br>7<br><1<br>3<br><1<br>3<br><1<br>3<br>2<br>13<br>2<br>13<br>2<br>13<br>2<br>7<br>6   | TDS<br>mg/l<br>66.12<br>70.00<br>64.44<br>64.43<br>63.16<br>64.46<br>63.40<br>63.23<br>62.64<br>63.23<br>62.64<br>63.61<br>87.42<br>71.01<br>67.54<br>66.71<br>70.92  | T. Alkalinity<br>mg/l as<br>CaCO3<br>38<br>34<br>36<br>39<br>30<br>30<br>34<br>41<br>36<br>38<br>39<br>46<br>32<br>32<br>32<br>37<br>43   | NO2-N         μg/l           <3   | NO <sub>2</sub> -N         μg/l           56         -           41         -           -         3           80         -           22         -           -         3           67         -           4         -           68         -           36         -           108         -           235         -           179         43   | TN<br>µg/l<br>445<br>406<br>1545<br>224<br>186<br>1481<br>371<br>415<br>2474<br>456<br>608<br>606<br>608<br>606<br>782<br>2677<br>523  | NH₂-N         µg/l           <10   | TP<br>µg/l<br>86<br>79<br>53<br>84<br>48<br>70<br>67<br>67<br>68<br>64<br>71<br>78<br>91<br>99<br>90<br>90<br>84<br>103  | CI-<br>mg/l<br><10<br><10<br><10<br><10<br><10<br><10<br><10<br><10<br><10<br><10  | Total<br>Chloro<br>µg/L<br>7.92<br>11.10<br>1.90<br>1.92<br>1.24<br>4.41  | Secchi<br>Disk<br>(m)<br>1.2<br>2.5<br>2.3<br>2.0<br>  | FC<br>MPN/<br>100ml<br>4<br>3<br>1<br>1<br>1<br><1<br><1<br>   |
| FEBRUARY :<br>DATE<br>15 02 24<br>15 02 24<br>22 02 24<br>22 02 24<br>22 02 24<br>22 02 24<br>22 02 24<br>16 02 24   | 2024<br>STATION<br>ID<br>Charara<br>Andora<br>Manchinchi<br>Damwall Up<br>Damwall<br>Down<br>B 51 10m<br>B 51 10m<br>B 51 30m<br>B 51 30m<br>B 51 30m<br>Sanyati 05m<br>Sanyati 30m<br>Sanyati 30m<br>Sanyati 50m   | Temp<br>oC<br>31.46<br>30.54<br>31.41<br>31.43<br>27.77<br>31.26<br>29.74<br>28.02<br>25.68<br>24.71<br>30.73<br>29.34<br>27.22<br>26.61<br>24.96<br>30.74  | pH<br>7.92<br>8.20<br>8.74<br>7.13<br>8.71<br>7.26<br>7.20<br>7.38<br>7.70<br>7.38<br>7.70<br>7.00<br>7.04<br>7.08<br>7.72  | EC<br>mS/m<br>10.80<br>11.20<br>9.60<br>9.70<br>9.70<br>9.70<br>9.70<br>9.70<br>13.90<br>11.10<br>10.20<br>10.20<br>18.90  | DO<br>mg/l<br>8.03<br>7.69<br>8.11<br>8.19<br>3.76<br>8.02<br>7.87<br>3.53<br>2.20<br>5.45   | TSS<br>mg/l<br>23<br>6<br>3<br>2<br>7<br><1<br>3<br><1<br>13<br>2<br>13<br>2<br>13<br>2<br>13<br>2<br>51  | TDS<br>mg/l<br>66.12<br>70.00<br>64.44<br>64.43<br>63.40<br>63.23<br>62.64<br>63.23<br>71.01<br>67.54<br>66.71<br>70.92<br>117.20   | T. Alkalinity<br>mg/l as<br>CaCO3<br>38<br>34<br>36<br>39<br>30<br>34<br>41<br>36<br>38<br>39<br>46<br>32<br>32<br>37<br>37<br>37<br>43<br>66   | NO2-N         μμη           <3  | NO <sub>3</sub> -N<br>µg/l<br>56<br>41<br><3<br>80<br>22<br><3<br>67<br>4<br>68<br>68<br>68<br>68<br>68<br>68<br>68<br>108<br>235<br>179<br>9<br>43<br>95   | TN<br>µg/l<br>445<br>406<br>1545<br>224<br>186<br>1481<br>371<br>371<br>415<br>2474<br>415<br>2474<br>406<br>608<br>606<br>607<br>782<br>677<br>523<br>1631  | NH <sub>0</sub> -N         µg/l           <10  | TP<br>µg/l<br>86<br>79<br>53<br>84<br>48<br>70<br>67<br>68<br>64<br>71<br>78<br>91<br>90<br>84<br>103<br>153   | Cl <sup>-</sup><br>mg/l<br><10<br><10<br><10<br><10<br><10<br><10<br><10<br><10<br><10<br><10  | Total<br>Chloro<br>µg/L<br>7.92<br>11.10<br>1.90<br>1.92<br>1.24<br>4.41<br>4.41  | Secchi<br>Disk<br>(m)<br>1.2<br>2.5<br>2.3<br>2.0<br>  | FC<br>MPPV<br>100ml<br>4<br>3<br>1<br>1<br><1<br><1<br>  |
| FEBRUARY :<br>DATE<br>15.02.24<br>15.02.24<br>22.02.24<br>22.02.24<br>22.02.24<br>22.02.24<br>22.02.24<br>16.02.24<br>16.02.24   | 2024<br>STATION<br>ID<br>Charara<br>Andora<br>Manchinchi<br>Damwall Up<br>Damwall<br>Down<br>B 51 05m<br>B 51 05m<br>B 51 20m<br>B 51 20m<br>B 51 20m<br>B 51 20m<br>B 51 30m<br>B 51 30m<br>B 51 50m<br>Sanyati 0.5m<br>Sanyati 0.5m<br>Sanyati 0.5m<br>Sanyati 50m<br>Sanyati 50m<br>Sanyati 50m  | Temp<br>oC<br>31.46<br>30.54<br>31.41<br>31.43<br>27.77<br>31.26<br>29.74<br>28.02<br>25.68<br>24.71<br>30.73<br>29.34<br>27.22<br>26.61<br>29.34<br>29.34<br>27.22<br>26.61<br>30.74<br>31.58  | pH<br>7.92<br>8.20<br>8.74<br>7.13<br>8.74<br>7.13<br>8.71<br>7.26<br>7.00<br>7.27<br>7.00<br>7.27<br>7.00<br>7.04<br>7.08<br>7.72<br>7.50  | EC<br>mS/m<br>10.80<br>11.20<br>10.50<br>10.50<br>10.50<br>10.00<br>9.60<br>9.10<br>9.10<br>9.10<br>13.90<br>11.10<br>10.20<br>9.90<br>10.20<br>18.90<br>11.20   | DO<br>mg/l<br>8.03<br>7.69<br>8.11<br>8.19<br>3.76<br>8.02<br>7.87<br>3.53<br>2.20<br>2.46<br>5.27<br>2.86<br>3.20<br>5.45<br>6.75   | TSS<br>mg/l<br>23<br>6<br>3<br>2<br>7<br><1<br>13<br>2<br>13<br>2<br>13<br>2<br>83<br>2<br>13<br>2<br>51<br>12  | TDS<br>mg/l<br>66.12<br>70.00<br>64.43<br>63.16<br>64.43<br>63.16<br>64.46<br>63.40<br>63.23<br>62.64<br>63.61<br>87.42<br>71.01<br>87.42<br>71.01<br>87.42<br>71.02<br>87.42<br>71.02<br>87.42<br>71.02<br>87.42<br>71.02<br>87.42<br>71.02<br>87.42<br>71.02<br>87.42<br>71.02<br>87.42<br>71.02<br>87.42<br>71.02<br>87.42<br>71.02<br>87.42<br>71.02<br>87.42<br>71.02<br>87.42<br>71.02<br>87.42<br>71.02<br>87.42<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71.02<br>71. | T. Alkalinity<br>mg/l as<br>CaCO3<br>38<br>34<br>36<br>39<br>30<br>34<br>41<br>36<br>38<br>39<br>46<br>32<br>32<br>37<br>43<br>66<br>66<br>42   | Nor-N<br>µg/N<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3  | NO3-N<br>µg/l<br>56<br>41<br>43<br>43<br>80<br>22<br>4<br>3<br>67<br>4<br>68<br>67<br>4<br>68<br>36<br>77<br>9<br>5<br>12   | TN<br>µg/l<br>445<br>406<br>1545<br>224<br>186<br>1481<br>371<br>415<br>2474<br>456<br>608<br>606<br>677<br>523<br>1631<br>656   | NHb-N         μgЛ           <10  | TP<br>µg/l<br>86<br>79<br>53<br>84<br>48<br>70<br>67<br>68<br>64<br>71<br>78<br>91<br>90<br>84<br>103<br>153<br>91   | CI-<br>mg/l<br><10<br><10<br><10<br><10<br><10<br><10<br><10<br><10<br><10<br><10  | Total<br>Chloro<br>µg/L<br>7.92<br>11.10<br>1.92<br>1.24<br>4.41  | Secchi<br>Disk<br>(m)<br>12<br>2.5<br>2.3<br>2.0<br>0.9<br>0.9<br>0.9<br>0.5<br>1.8  | FC<br>MPN/<br>100ml<br>4<br>3<br>1<br>1<br>1<br>1<br>  |
| FEBRUARY :<br>DATE<br>15 02 24<br>15 02 24<br>22 02 24<br>22 02 24<br>22 02 24<br>22 02 24<br>22 02 24<br>16 02 24<br>16 02 24<br>16 02 24<br>15 02 24   | 2024<br>STATION<br>ID<br>Charara<br>Andora<br>Manchinchi<br>Damwali Up<br>Damwali<br>Down<br>B 51 0.5m<br>B 51 0.5m<br>S 51 0.5m<br>S 51 20m<br>B 51 30m<br>B 51 30m<br>B 51 30m<br>B 51 30m<br>S anyati 0.5m<br>Sanyati 0.5m<br>Sanyat   | Temp<br>oC<br>31.46<br>30.54<br>31.41<br>31.43<br>31.43<br>27.77<br>29.74<br>28.02<br>28.02<br>28.02<br>28.02<br>28.02<br>28.02<br>28.02<br>28.02<br>28.02<br>29.34<br>27.22<br>26.61<br>24.96<br>30.74<br>31.58<br>32.94   | pH<br>7.92<br>8.20<br>8.70<br>8.74<br>7.13<br>8.61<br>7.26<br>7.00<br>7.38<br>7.70<br>7.27<br>7.00<br>7.27<br>7.00<br>7.27<br>7.00<br>7.27<br>7.00<br>7.27<br>7.00<br>7.20<br>7.50<br>9.07  | EC<br>mS/m<br>10.80<br>11.20<br>10.50<br>10.50<br>9.60<br>9.70<br>9.10<br>9.70<br>9.10<br>9.70<br>9.10<br>13.90<br>11.10<br>10.20<br>18.90<br>10.20<br>11.20   | DO<br>mg/l<br>8.03<br>7.69<br>8.11<br>8.19<br>3.76<br>8.02<br>7.87<br>3.53<br>2.20<br>2.46<br>5.27<br>3.99<br>2.57<br>2.57<br>2.86<br>3.20<br>5.45<br>6.75<br>6.75   | TSS<br>mg/l<br>23<br>6<br>3<br>2<br>7<br>7<br><1<br>3<br>3<br><1<br>3<br>2<br>13<br>2<br>83<br>145<br>76<br>51<br>12<br>22  | TDS<br>mg/l<br>66.12<br>70.00<br>64.44<br>63.40<br>63.23<br>62.64<br>63.23<br>62.64<br>63.23<br>62.64<br>63.61<br>87.42<br>71.01<br>70.92<br>117.20<br>68.70<br>71.54   | T.Alkalinity<br>mg/l as<br>CaCO3<br>38<br>34<br>34<br>36<br>39<br>30<br>34<br>41<br>36<br>38<br>39<br>46<br>32<br>37<br>43<br>66<br>66<br>42  | NO2-N<br>µg/I<br><3<br>3<br><3<br><3<br><3<br><3<br><3<br><3<br><3<br><3  | NO <sub>3</sub> -N<br>µg/l<br>56<br>41<br><3<br>80<br>22<br><3<br>67<br>4<br>4<br>68<br>36<br>68<br>36<br>68<br>36<br>68<br>36<br>95<br>179<br>43<br>95<br>12<br>23<br>4  | TN<br>µg/l<br>445<br>406<br>1545<br>224<br>186<br>1481<br>371<br>415<br>2474<br>456<br>608<br>608<br>608<br>607<br>782<br>677<br>523<br>1631<br>656<br>1147  | NH <sub>0</sub> -N         µg/l           <10  | TP<br>µg/l<br>86<br>70<br>67<br>68<br>64<br>71<br>78<br>91<br>103<br>153<br>91<br>128  | Cl-mg/l           mg/l           <10   | Total<br>Chloro<br><u>µg/L</u><br>7.92<br>11.10<br>1.92<br>1.24<br>4.41<br>4.41<br>10.27<br>4.20<br>17.20   | Secchi<br>Disk<br>(m)<br>1.2<br>2.5<br>2.3<br>2.0<br>  | FC<br>MPN/<br>100ml<br>4<br>3<br>1<br>1<br>1<br><1<br>1<br><1<br>1<br>1<br>1<br>1<br>1<br>5<br>5<br>43   |
| FEBRUARY :<br>DATE<br>15.02.24<br>15.02.24<br>22.02.24<br>22.02.24<br>22.02.24<br>22.02.24<br>16.02.24<br>16.02.24<br>15.02.24<br>15.02.24   | 2024<br>STATION<br>ID<br>Charara<br>Andora<br>Manchinchi<br>Damwali Up<br>Damwali<br>Down<br>B 51 05m<br>B 51 05m<br>B 51 20m<br>B 51 20m<br>B 51 20m<br>B 51 30m<br>B 51 30m<br>B 51 30m<br>B 51 50m<br>Sanyati 05m<br>Sanyati 05m<br>Sanyati 05m<br>Sanyati 05m<br>Sanyati 05m<br>Sanyati 50m<br>Sanyati 50m<br>Sanyati 50m<br>Sanyati 50m<br>Sanyati 50m<br>Sanyati 50m<br>Sanyati 50m   | Temp<br>oC<br>31.46<br>30.54<br>31.41<br>31.43<br>27.77<br>31.26<br>29.74<br>28.02<br>25.68<br>24.71<br>30.73<br>29.34<br>27.22<br>26.61<br>24.96<br>30.74<br>31.58<br>30.74<br>31.58<br>30.87  | pH           7.92           8.20           8.71           8.72           8.74           7.13           8.70           7.73           8.70           7.72           7.04           7.50           9.07   | EC<br>mS/m<br>10.80<br>11.20<br>10.50<br>9.60<br>10.00<br>9.70<br>9.10<br>9.70<br>9.10<br>10.20<br>11.10<br>10.20<br>18.90<br>11.20<br>12.20   | DO<br>mg/l<br>8.03<br>7.69<br>8.11<br>8.19<br>3.76<br>8.02<br>7.87<br>3.53<br>2.20<br>2.46<br>5.27<br>2.86<br>3.20<br>5.45<br>6.75<br>11.63<br>5.23  | TSS<br>mg/l<br>23<br>6<br>3<br>2<br>7<br>7<br><1<br>3<br>3<br><1<br>1<br>3<br>2<br>2<br>8<br>3<br>145<br>76<br>51<br>12<br>225  | TDS<br>mg/l<br>66.12<br>70.00<br>64.44<br>63.46<br>63.40<br>63.23<br>62.64<br>63.60<br>63.20<br>63.60<br>63.60<br>63.67<br>71.01<br>67.54<br>66.71<br>77.052<br>117.20<br>68.70<br>71.54<br>77.68   | T. Alkalinity<br>mg/l as<br>CaCO3<br>34<br>36<br>39<br>30<br>34<br>41<br>41<br>36<br>38<br>39<br>46<br>32<br>32<br>37<br>43<br>32<br>37<br>43<br>66<br>66<br>42<br>42<br>46<br>38   | Nor-N<br>µg/N<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3  | NO3-N<br>µg/l<br>56<br>41<br>43<br>43<br>40<br>4<br>68<br>468<br>40<br>67<br>4<br>68<br>108<br>235<br>179<br>95<br>95<br>12<br>34<br>74   | TN<br>µg/l<br>4405<br>1545<br>224<br>186<br>1481<br>371<br>415<br>2474<br>456<br>608<br>608<br>608<br>677<br>523<br>1631<br>656<br>1147<br>1089  | NHb-N         µgЛ           <10  | TP           μg/l           86           79           53           84           48           66           67           68           71           78           91           90           84           103           153           91           128           91           121           141   | CI-<br>mg/l         mg/l           <10   | Total<br>Chloro<br>µg/L<br>7.92<br>11.10<br>1.90<br>1.92<br>1.24<br>4.41<br>1.24<br>1.24<br>1.24<br>1.24  | Secchi<br>Disk<br>(m)<br>1.2<br>2.3<br>2.0<br>0.9<br>0.9<br>0.9<br>0.5<br>1.8<br>0.9<br>0.9                                    | FC<br>MPN/<br>4<br>3<br>1<br>1<br>   |
| FEBRUARY :<br>DATE<br>15 02 24<br>15 02 24<br>22 02 24<br>27 02 24<br>22 02 24<br>22 02 24<br>22 02 24<br>16 02 24<br>16 02 24<br>16 02 24<br>15 02 24<br>15 02 24   | 2024<br>STATION<br>ID<br>Charara<br>Andora<br>Manchinchi<br>Damwali Up<br>Damwali Up<br>Damwali Up<br>Damwali Up<br>B 51 05m<br>B 51 05m<br>B 51 30m<br>B 51 30m<br>B 51 30m<br>Sanyati 10m<br>Sanyati 05m<br>Sanyati 10m<br>Sanyati 30m<br>Sanyati  | Temp<br>oC<br>31.46<br>30.54<br>31.41<br>31.43<br>27.77<br>31.26<br>29.74<br>28.02<br>25.68<br>24.71<br>30.73<br>29.34<br>27.22<br>26.61<br>24.96<br>30.74<br>24.96<br>30.74<br>31.58<br>32.94<br>30.87<br>30.87  | pH<br>7.92<br>8.20<br>8.74<br>7.13<br>8.70<br>8.61<br>7.26<br>7.00<br>7.38<br>7.70<br>7.38<br>7.70<br>7.00<br>7.04<br>7.72<br>7.50<br>9.07<br>7.23  | EC<br>mS/m<br>10.80<br>11.20<br>10.50<br>9.60<br>9.70<br>9.10<br>13.90<br>11.10<br>10.20<br>11.20<br>10.20<br>11.20<br>11.20<br>11.20<br>12.00<br>12.00  | DO<br>mg/l<br>8.03<br>7.69<br>8.11<br>8.19<br>3.76<br>8.02<br>7.87<br>2.20<br>2.46<br>5.27<br>3.99<br>2.57<br>2.86<br>3.20<br>5.45<br>6.75<br>11.63<br>5.13  | TSS<br>mg/l<br>23<br>6<br>3<br>2<br>7<br>7<br>4<br>1<br>3<br>4<br>1<br>3<br>2<br>13<br>2<br>83<br>145<br>51<br>12<br>222<br>25<br>11  | TDS<br>mg/l<br>66.12<br>70.00<br>64.44<br>64.43<br>63.16<br>64.46<br>63.40<br>63.40<br>63.40<br>63.61<br>87.42<br>71.01<br>77.54<br>66.71<br>70.92<br>117.20<br>68.70<br>92<br>71.54<br>76.80<br>66.31  | T. Alkalinity<br>mg/l as<br>CaCO3<br>38<br>34<br>36<br>39<br>30<br>30<br>34<br>41<br>36<br>38<br>39<br>46<br>32<br>32<br>32<br>32<br>32<br>32<br>43<br>66<br>66<br>42<br>46<br>38<br>37   | Nor-N         yg/l           <3   | NO <sub>3</sub> -N<br>µg/l<br>56<br>41<br><3<br>80<br>22<br><3<br>67<br>4<br>4<br>68<br>68<br>36<br>68<br>36<br>68<br>36<br>67<br>43<br>95<br>179<br>43<br>95<br>12<br>34<br>73   | TN<br>µg/l<br>445<br>446<br>1545<br>224<br>1481<br>371<br>415<br>2474<br>456<br>608<br>608<br>608<br>608<br>608<br>608<br>608<br>1631<br>656<br>1147<br>1089<br>569  | NH <sub>3</sub> -N         μg/l           <10  | TP           μg/l           86           79           53           84           48           70           67           68           64           71           78           90           84           103           153           91           128           1411   | Cl-mg/l           mg/l           <10   | Total<br>Chloro<br><u>µg/L</u><br>7.92<br>11.10<br>1.92<br>1.24<br>4.41<br>4.41<br>10.27<br>4.20<br>17.20<br>13.50<br>6.41                                    | Secchi<br>Disk<br>(m)<br>1.2<br>2.5<br>2.3<br>2.0<br>0.9<br>0.9<br>0.9<br>0.5<br>1.8<br>0.9<br>0.9<br>1.4                      | FC<br>MPN/<br>100ml<br>4<br>3<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>5<br>4<br>3<br>148<br>5<br>22419.6  |
| FEBRUARY :<br>DATE<br>15.02.24<br>15.02.24<br>22.02.24<br>22.02.24<br>22.02.24<br>22.02.24<br>22.02.24<br>16.02.24<br>16.02.24<br>15.02.24<br>15.02.24<br>15.02.24<br>15.02.24<br>27.02.24   | 2024<br>STATION<br>ID<br>Charara<br>Andora<br>Manchinchi<br>Damwall Up<br>Damwall<br>Down<br>B 51 05m<br>B 51 10m<br>B 51 20m<br>B 51 20m<br>B 51 20m<br>B 51 50m<br>Sanyati 05m<br>Sanyati 05m<br>Sanyat   | Temp<br>oC<br>31.46<br>30.54<br>31.41<br>31.43<br>27.77<br>31.26<br>29.74<br>28.02<br>25.68<br>24.71<br>30.73<br>29.34<br>27.22<br>26.61<br>30.74<br>31.58<br>30.74<br>31.58<br>32.94<br>30.87<br>30.13<br>29.58  | pH           7.92           8.20           8.70           8.74           7.13           8.70           8.71           7.26           7.00           7.38           7.70           7.00           7.04           7.88           7.70           7.20           7.04           7.70           7.23           7.20           7.70   | EC<br>mS/m<br>10.80<br>11.20<br>10.50<br>9.60<br>9.70<br>9.70<br>9.70<br>9.70<br>9.70<br>9.70<br>9.70<br>9.7   | DO<br>mg/l<br>8.03<br>7.69<br>8.11<br>8.19<br>3.76<br>8.02<br>7.87<br>7.87<br>3.53<br>2.20<br>2.46<br>5.27<br>3.29<br>2.57<br>2.86<br>3.20<br>5.45<br>6.75<br>11.63<br>5.23<br>5.13<br>6.58  | TSS<br>mg/l<br>23<br>6<br>3<br>2<br>7<br>7<br><1<br>3<br>3<br>4<br>1<br>3<br>2<br>2<br>8<br>3<br>3<br>145<br>76<br>51<br>12<br>22<br>25<br>111<br>6   | TDS<br>mg/l<br>66.12<br>70.00<br>64.43<br>63.16<br>64.43<br>63.16<br>63.40<br>63.23<br>62.64<br>63.61<br>63.64<br>63.64<br>63.64<br>63.64<br>71.01<br>66.74<br>71.54<br>66.71<br>71.54<br>76.80<br>76.80<br>66.631<br>66.631  | T. Alkalinity<br>mg/l as<br>CaCO3         T. Alkalinity<br>mg/l as<br>CaCO3           38         38           34         36           39         30           34         41           36         38           39         36           36         38           39         36           36         36           37         37           43         66           42         46           38         37           33         33   | Nor-N<br>µg/l<br><3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3   | NO <sub>3</sub> -N<br>µg/l<br>56<br>41<br><3<br><3<br><3<br><3<br><7<br>4<br>68<br>67<br>4<br>68<br>68<br>67<br>4<br>68<br>36<br>77<br>95<br>12<br>34<br>95<br>12<br>34<br>74<br>74<br>74<br>74<br>530<br>22  | TN<br>µg/1<br>445<br>446<br>1545<br>224<br>186<br>1481<br>371<br>415<br>2474<br>456<br>608<br>606<br>677<br>523<br>1631<br>656<br>1147<br>1089<br>569<br>324   | NH <sub>2</sub> -N         μg/l           <10  | TP<br>µg/l<br>86<br>79<br>53<br>84<br>48<br>70<br>67<br>68<br>64<br>71<br>78<br>91<br>90<br>84<br>103<br>153<br>91<br>128<br>141<br>111<br>78  | Cl-mg/l           <10  | Total<br>Chloro<br>µg/L<br>7.92<br>1.24<br>1.24<br>4.41<br>10.27<br>4.20<br>17.20<br>13.50<br>6.41<br>1.95  | Secchi<br>Disk<br>(m)<br>1.2<br>2.5<br>2.3<br>2.0<br>0.9<br>0.9<br>0.9<br>1.8<br>0.9<br>0.9<br>1.4                             | FC<br>MPN/<br>100ml<br>4<br>3<br>1<br>1<br>  |
| FEBRUARY :<br>DATE<br>15.02.24<br>15.02.24<br>22.02.24<br>22.02.24<br>22.02.24<br>22.02.24<br>22.02.24<br>16.02.24<br>16.02.24<br>15.02.24<br>15.02.24<br>15.02.24<br>15.02.24<br>27.02.24<br>27.02.24   | 2024<br>STATION<br>ID<br>Charara<br>Andora<br>Manchinchi<br>Damwall Up<br>Dowm<br>B 51 0.5m<br>B 51 0.5m<br>B 51 0.5m<br>B 51 0.5m<br>B 51 30m<br>B 51 30m<br>Sanyati 0.5m<br>Sanyati 0.5m<br>Sanyati 0.5m<br>Sanyati 0.5m<br>Sanyati 30m<br>Sanyati 30m<br>Sanyati 30m<br>Sanyati 30m<br>Sanyati 20m<br>Sanyati 20m<br>Sanyati 20m<br>Sanyati 20m<br>Sanyati 30m<br>Sanyati 30m<br>Sanyat  | Temp<br>oC<br>31.46<br>30.54<br>31.41<br>31.43<br>27.77<br>3126<br>29.74<br>28.02<br>25.68<br>24.71<br>30.73<br>29.34<br>27.22<br>26.61<br>24.96<br>30.74<br>31.58<br>32.94<br>30.87<br>30.13<br>29.54<br>30.13<br>29.54<br>30.54<br>31.41<br>30.54<br>30.54<br>30.54<br>30.54<br>30.54<br>30.74<br>30.54<br>30.74<br>30.54<br>30.77<br>31.41<br>30.77<br>31.26<br>24.77<br>31.26<br>30.73<br>30.73<br>30.73<br>30.74<br>30.73<br>30.74<br>30.73<br>30.74<br>30.73<br>30.73<br>30.74<br>30.73<br>30.74<br>30.73<br>30.73<br>30.74<br>30.73<br>30.74<br>30.73<br>30.73<br>30.74<br>30.73<br>30.74<br>30.74<br>30.73<br>30.73<br>30.74<br>30.73<br>30.73<br>30.73<br>30.74<br>30.74<br>30.73<br>30.73<br>30.73<br>30.74<br>30.74<br>30.73<br>27.77<br>30.73<br>30.73<br>30.73<br>30.74<br>30.73<br>30.74<br>30.74<br>30.74<br>30.74<br>30.73<br>27.77<br>30.73<br>29.34<br>30.73<br>29.34<br>30.74<br>30.74<br>30.74<br>27.22<br>26.61<br>30.74<br>30.74<br>30.74<br>28.02<br>28.02<br>28.02<br>29.44<br>30.73<br>29.34<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.73<br>29.94<br>30.74<br>30.74<br>30.74<br>30.74<br>30.73<br>29.94<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75<br>30.75 | pH<br>7.92<br>8.20<br>8.70<br>8.71<br>7.13<br>8.70<br>8.61<br>7.70<br>7.38<br>7.70<br>7.27<br>7.00<br>7.27<br>7.00<br>7.27<br>7.00<br>7.27<br>7.08<br>7.72<br>7.50<br>9.07<br>7.23<br>7.24<br>7.70  | EC<br>mS/m<br>10.80<br>11.20<br>10.50<br>9.60<br>9.70<br>9.10<br>9.10<br>9.10<br>13.90<br>11.10<br>9.90<br>11.20<br>11.20<br>11.20<br>11.20<br>11.20<br>11.20<br>12.20<br>13.84<br>8.80  | DO<br>mg/l<br>8.03<br>7.69<br>8.11<br>8.19<br>3.76<br>8.02<br>7.87<br>2.20<br>5.27<br>3.99<br>2.57<br>2.86<br>5.27<br>3.90<br>5.45<br>6.75<br>11.63<br>5.23<br>5.13<br>6.58<br>7.05  | TSS<br>mg/l<br>23<br>6<br>3<br>2<br>7<br>7<br>≺1<br>3<br>3<br>4<br>1<br>3<br>2<br>13<br>2<br>13<br>2<br>51<br>51<br>12<br>225<br>25<br>21<br>11<br>16<br>7  | TDS<br>mg/l<br>66.12<br>70.00<br>64.44<br>64.43<br>63.16<br>64.46<br>63.40<br>63.40<br>63.40<br>63.40<br>63.61<br>87.42<br>71.01<br>67.54<br>87.42<br>71.01<br>66.71<br>70.92<br>117.20<br>68.70<br>71.54<br>76.80<br>66.31<br>66.62<br>57.61   | T. Alkalinity<br>mg/l as<br>CaCO3<br>38<br>34<br>36<br>39<br>30<br>34<br>41<br>36<br>38<br>39<br>46<br>32<br>32<br>37<br>43<br>66<br>42<br>43<br>66<br>42<br>43<br>37<br>37<br>33<br>32<br>32   | Nor-N         ygl           3         3           3         3           3         3           3         3           3         3           3         3           3         3           3         3           3         3           3         3           4         11           3         3           12         24           19         3           3         3           3         3           3         3           3         3           3         3           4         3           9         3           3         3           4         3           5         3           3         3           3         3           3         3           3         3           3         3           3         3           3         3           3         3           3         3           3         3           3 <td< td=""><td>NO<sub>3</sub>-N<br/>µg/l<br/>56<br/>41<br/>3<br/>3<br/>80<br/>22<br/>3<br/>67<br/>4<br/>68<br/>67<br/>68<br/>68<br/>67<br/>68<br/>68<br/>108<br/>235<br/>179<br/>43<br/>36<br/>108<br/>235<br/>179<br/>43<br/>34<br/>7<br/>4<br/>22<br/>7<br/>7</td><td>TN<br/>µg/1<br/>445<br/>406<br/>1545<br/>224<br/>186<br/>1481<br/>371<br/>2474<br/>445<br/>608<br/>608<br/>608<br/>608<br/>607<br/>627<br/>523<br/>1631<br/>656<br/>1147<br/>1089<br/>569<br/>324<br/>430</td><td><math display="block">\begin{array}{c c} NH_{3}-N \\ \mu g /l \\ &lt;10 \\ &lt;</math></td><td>TP<br/>µg/l<br/>86<br/>79<br/>53<br/>84<br/>48<br/>70<br/>67<br/>68<br/>64<br/>71<br/>78<br/>90<br/>84<br/>103<br/>153<br/>91<br/>128<br/>141<br/>111<br/>78<br/>476</td><td>Cl-<br/>mg/l           &lt;10</td>           &lt;10</td<> | NO <sub>3</sub> -N<br>µg/l<br>56<br>41<br>3<br>3<br>80<br>22<br>3<br>67<br>4<br>68<br>67<br>68<br>68<br>67<br>68<br>68<br>108<br>235<br>179<br>43<br>36<br>108<br>235<br>179<br>43<br>34<br>7<br>4<br>22<br>7<br>7  | TN<br>µg/1<br>445<br>406<br>1545<br>224<br>186<br>1481<br>371<br>2474<br>445<br>608<br>608<br>608<br>608<br>607<br>627<br>523<br>1631<br>656<br>1147<br>1089<br>569<br>324<br>430  | $\begin{array}{c c} NH_{3}-N \\ \mu g /l \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <$ | TP<br>µg/l<br>86<br>79<br>53<br>84<br>48<br>70<br>67<br>68<br>64<br>71<br>78<br>90<br>84<br>103<br>153<br>91<br>128<br>141<br>111<br>78<br>476   | Cl-<br>mg/l           <10  | Total<br>Chloro<br>µg/L<br>7.92<br>11.10<br>1.92<br>1.24<br>  | Secchi<br>Disk<br>(m)<br>1.2<br>2.3<br>2.0<br>0.9<br>0.9<br>0.5<br>1.8<br>0.9<br>0.9<br>0.9<br>1.4                             | FC<br>MPN/<br>100ml<br>4<br>3<br>1<br>1<br>1<br><1<br><1<br>5<br>4<br>3<br>16<br>5<br>43<br>148<br>6<br>14   |
| FEBRUARY :<br>DATE<br>15 02 24<br>15 02 24<br>22 02 24<br>22 02 24<br>22 02 24<br>22 02 24<br>22 02 24<br>22 02 24<br>16 02 24<br>16 02 24<br>15 02 24<br>15 02 24<br>15 02 24<br>27 02 24<br>29 02 24   | 2024<br>STATION<br>ID<br>Charara<br>Andora<br>Manchinchi<br>Damwall Up<br>Damwall<br>Down<br>B 51 10m<br>B 51 10m<br>B 51 10m<br>B 51 30m<br>B 51 30m<br>B 51 30m<br>S anyati 05m<br>Sanyati 05m<br>Sanya   | Temp<br>oC<br>31.46<br>30.54<br>31.41<br>27.77<br>31.26<br>29.74<br>28.02<br>25.68<br>24.71<br>30.73<br>29.34<br>24.71<br>29.34<br>24.96<br>30.74<br>31.58<br>32.94<br>30.87<br>30.87<br>30.87<br>30.87<br>30.58<br>29.58<br>29.58<br>29.58<br>29.58<br>29.58   | pH<br>7.92<br>8.20<br>8.74<br>8.74<br>7.13<br>8.70<br>8.61<br>7.26<br>7.00<br>7.26<br>7.00<br>7.04<br>7.00<br>7.04<br>7.08<br>7.70<br>7.04<br>7.70<br>7.50<br>9.07<br>7.23<br>7.23<br>7.23<br>7.20<br>8.14  | EC<br>mS/m<br>10.80<br>11.20<br>10.50<br>10.50<br>10.50<br>10.50<br>10.00<br>9.10<br>9.10<br>9.10<br>9.10<br>13.90<br>11.10<br>10.20<br>18.90<br>11.20<br>12.70<br>12.70<br>10.50<br>12.70<br>10.50<br>12.70<br>10.50<br>12.70<br>10.50<br>12.70<br>10.50<br>12.70<br>10.50<br>12.70<br>10.50<br>12.70<br>10.50<br>12.70<br>10.50<br>12.70<br>12.70<br>12.70<br>10.50<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12.70<br>12 | DO<br>mg/l<br>8.03<br>7.69<br>8.19<br>3.76<br>8.02<br>7.87<br>3.53<br>2.20<br>2.46<br>5.27<br>3.20<br>5.45<br>6.75<br>2.86<br>3.20<br>5.45<br>6.75<br>5.23<br>5.11.63<br>5.23<br>5.13<br>6.58<br>7.05<br>8.05  | TSS<br>mg/l<br>23<br>6<br>3<br>2<br>7<br><1<br>3<br>3<br>2<br>13<br>2<br>13<br>2<br>83<br>145<br>51<br>51<br>22<br>25<br>51<br>16<br>7<br>0   | TDS<br>mg/l<br>66.12<br>70.00<br>64.44<br>64.43<br>63.16<br>63.40<br>63.23<br>62.64<br>63.23<br>62.64<br>63.23<br>62.64<br>63.23<br>71.01<br>67.54<br>66.71<br>70.92<br>117.20<br>68.70<br>71.54<br>66.63<br>117.20<br>68.70<br>71.54<br>58.70<br>58.70   | T. Alkalinity<br>mg/l as<br>CaCO3<br>34<br>36<br>39<br>30<br>34<br>41<br>41<br>36<br>38<br>39<br>30<br>46<br>32<br>32<br>37<br>43<br>36<br>36<br>36<br>39<br>46<br>46<br>46<br>43<br>8<br>37<br>37<br>43<br>32<br>32<br>32  | NOF-N         PugN           43         3           3         3           3         3           3         3           3         3           3         3           3         3           3         3           3         3           3         3           3         3           3         3           3         3           4         11           3         12           24         19           3         7           <3  | NO <sub>3</sub> -N<br>µg/l<br>56<br>41<br><3<br><3<br><3<br><3<br>67<br>4<br>4<br>68<br>36<br>108<br>235<br>179<br>43<br>95<br>12<br>34<br>43<br>74<br>530<br>222<br>7<br>9   | TN<br>µg/1<br>445<br>406<br>1545<br>224<br>186<br>1481<br>371<br>415<br>2474<br>456<br>608<br>606<br>607<br>782<br>782<br>782<br>782<br>1631<br>1631<br>1147<br>1089<br>569<br>324<br>430<br>324<br>430  | NH <sub>2</sub> -N         μg/l           <10  | TP<br>µg/l<br>86<br>79<br>53<br>84<br>48<br>70<br>67<br>68<br>64<br>71<br>78<br>91<br>90<br>84<br>103<br>153<br>91<br>128<br>141<br>112<br>78<br>476<br>48   | Cl-mg/l           wg/l           <10   | Total<br>Chloro<br>µg/L<br>7.92<br>1.24<br>1.24<br>4.41<br>10.27<br>4.20<br>17.20<br>13.50<br>6.41<br>1.95<br>2.30<br>2.73                                    | Secchi<br>Disk<br>(m)<br>1.2<br>2.5<br>2.0<br>0.9<br>0.9<br>0.9<br>0.5<br>1.8<br>0.9<br>0.9<br>1.4                             | FC<br>MPN/<br>100ml<br>4<br>3<br>1<br>1<br>1<br>1         1           1         1           1         1           1         1           1         1           4         3           1         1           1         1           5         43           148         >2419.6 |
| FEBRUARY :<br>DATE<br>15.02.24<br>15.02.24<br>22.02.24<br>22.02.24<br>22.02.24<br>22.02.24<br>22.02.24<br>16.02.24<br>16.02.24<br>15.02.24<br>15.02.24<br>15.02.24<br>15.02.24<br>27.02.24<br>29.02.24<br>29.02.24<br>29.02.24                                     | 2024<br>STATION<br>ID<br>Charara<br>Andora<br>Manchinchi<br>Damwall Up<br>Down<br>B 51 0.5m<br>B 51 0.5m<br>B 51 0.5m<br>B 51 0.5m<br>B 51 0.5m<br>B 51 0.5m<br>B 51 30m<br>B 51 30m<br>Sanyati 10m<br>Sanyati 30m<br>Sanyati 30m<br>Sa   | Temp<br>oC<br>31.46<br>30.54<br>31.41<br>31.43<br>27.77<br>31.26<br>29.74<br>28.02<br>25.68<br>24.71<br>30.73<br>29.34<br>27.22<br>26.61<br>24.96<br>30.74<br>31.58<br>32.94<br>30.87<br>30.13<br>29.58<br>28.13<br>29.58<br>28.13<br>29.58<br>28.13<br>29.58<br>28.13<br>29.58<br>28.13<br>29.58<br>28.13<br>29.58<br>28.13<br>29.58<br>28.13<br>29.58<br>28.13<br>29.58<br>28.13<br>29.58<br>29.58<br>29.58<br>29.58<br>29.58<br>29.58<br>29.58<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.54<br>20.55<br>20.54<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.55<br>20.5 | pH           7.92           8.20           8.70           8.71           8.70           8.71           8.70           8.71           7.13           8.70           8.71           7.13           7.70           7.70           7.00           7.04           7.70           7.05           9.07           7.24           7.68           8.14           8.16   | EC<br>mS/m<br>10.80<br>11.20<br>10.50<br>9.60<br>9.70<br>9.70<br>9.70<br>9.70<br>9.70<br>9.70<br>9.70<br>9.7   | DO<br>mg/l<br>8.03<br>7.69<br>8.11<br>8.19<br>3.76<br>8.02<br>7.87<br>3.53<br>2.20<br>2.46<br>5.27<br>2.86<br>3.20<br>5.27<br>2.86<br>3.20<br>5.45<br>6.75<br>11.63<br>5.23<br>5.13<br>6.58<br>7.05<br>8.02  | TSS<br>mg/l<br>23<br>6<br>3<br>2<br>7<br>7<br><1<br>3<br>3<br>13<br>2<br>2<br>13<br>3<br>3<br>145<br>76<br>51<br>12<br>22<br>5<br>111<br>12<br>22<br>5<br>111<br>10   | TDS<br>mg/l<br>66.12<br>70.00<br>64.44<br>64.43<br>63.46<br>63.40<br>63.40<br>63.23<br>62.64<br>63.61<br>87.42<br>71.01<br>66.71<br>70.92<br>117.20<br>88.70<br>71.54<br>76.80<br>66.31<br>66.62<br>57.61<br>58.70<br>77.84.50  | T. Alkalinity<br>mg/l as<br>CaCO3<br>38<br>34<br>36<br>39<br>30<br>34<br>41<br>36<br>38<br>39<br>46<br>32<br>32<br>37<br>43<br>66<br>42<br>43<br>66<br>42<br>43<br>37<br>37<br>37<br>37<br>37<br>37<br>32<br>32<br>32<br>32<br>32<br>32<br>32<br>32<br>32   | Nor-N         yugin           3         3           3         3           3         3           3         3           3         3           3         3           3         3           3         3           3         3           3         3           3         3           111         3           3         3           12         24           19         3           3         3           7         <3   | NO3-N<br>µg/l<br>56<br>41<br>3<br>3<br>80<br>22<br>3<br>4<br>4<br>68<br>67<br>4<br>68<br>68<br>60<br>7<br>9<br>5<br>108<br>235<br>235<br>179<br>43<br>34<br>43<br>36<br>108<br>232<br>37<br>4<br>3<br>4<br>3<br>4<br>3<br>4<br>3<br>4<br>3<br>4<br>3<br>4<br>3<br>3<br>6<br>5<br>6<br>5<br>6<br>5<br>6<br>5<br>6<br>5<br>6<br>5<br>6<br>5<br>6<br>5<br>6<br>5   | TN<br>µg/l<br>445<br>406<br>1545<br>224<br>186<br>1481<br>371<br>415<br>2474<br>445<br>608<br>608<br>608<br>608<br>608<br>608<br>608<br>608  | NH <sub>3</sub> -N         μg/l           <10  | TP<br>µg/l<br>86<br>79<br>53<br>84<br>48<br>70<br>67<br>68<br>64<br>71<br>78<br>90<br>90<br>84<br>103<br>153<br>91<br>128<br>141<br>1111<br>1111<br>78<br>98<br>448<br>48<br>48<br>48<br>98<br>48<br>48<br>48<br>48<br>48<br>48<br>48<br>48<br>48<br>4   | Cl-<br>mg/l           <10  | Total<br>Chloro<br>µg/L<br>7.92<br>1.1.10<br>1.90<br>1.92<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.2                                      | Secchi<br>Disk<br>(m)<br>1.2<br>2.5<br>2.3<br>2.0<br>0.9<br>0.9<br>0.9<br>0.9<br>0.9<br>0.9<br>0.5<br>1.8<br>0.9<br>0.9<br>0.9 | FC<br>MPN/<br>100ml<br>4<br>3<br>1<br>1<br>1<br><1<br><1<br><1<br>5<br>5<br>43<br>148<br>×2419.6<br>14   |
| FEBRUARY :<br>DATE<br>15 02 24<br>15 02 24<br>22 02 24<br>22 02 24<br>22 02 24<br>22 02 24<br>22 02 24<br>22 02 24<br>16 02 24<br>16 02 24<br>15 02 24<br>15 02 24<br>15 02 24<br>27 02 24<br>29 02 24<br>29 02 24<br>29 02 24<br>29 02 24<br>29 02 24<br>29 02 24 | 2024<br>STATION<br>ID<br>Charara<br>Andora<br>Manchinchi<br>Damwall Up<br>Damwall<br>Down<br>B 51 10m<br>B 51 10m<br>B 51 30m<br>B 51 30m<br>Sanyati 05m<br>Sanyati 05m   | Temp<br>oC<br>31.46<br>30.54<br>31.41<br>31.41<br>31.43<br>27.77<br>28.02<br>28.02<br>25.68<br>24.71<br>28.02<br>25.68<br>24.71<br>30.73<br>30.73<br>30.73<br>30.74<br>31.58<br>32.94<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.97<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.97<br>30.87<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.77<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.97<br>30.9 | pH<br>7 92<br>8 20<br>8 70<br>7 13<br>8 74<br>7 13<br>8 74<br>7 726<br>7 700<br>7 727<br>7 738<br>7 70<br>7 727<br>7 738<br>7 70<br>7 727<br>7 70<br>7 727<br>7 727<br>7 727<br>7 727<br>7 727<br>7 727<br>7 727<br>7 72<br>7 726<br>8 14<br>7 8<br>8 14<br>8 16<br>8 14<br>7 8<br>7 8<br>7 8<br>7 8<br>7 8<br>7 8<br>7 8<br>7 8<br>7 8<br>7 8  | EC<br>mS/m<br>10.80<br>11.20<br>10.50<br>10.50<br>10.50<br>9.60<br>9.70<br>9.70<br>9.70<br>9.70<br>9.70<br>9.70<br>9.70<br>9.7   | DO<br>mg/l<br>8.03<br>7.69<br>8.11<br>8.19<br>3.76<br>8.02<br>7.87<br>3.53<br>2.20<br>2.46<br>5.27<br>3.90<br>2.45<br>5.27<br>2.86<br>3.20<br>5.45<br>6.75<br>5.45<br>6.75<br>5.23<br>5.45<br>6.58<br>7.05<br>8.05<br>8.05<br>8.05   | TSS<br>mg/l<br>23<br>6<br>3<br>2<br>7<br><1<br>3<br>3<br><1<br>2<br>13<br>2<br>2<br>13<br>2<br>2<br>83<br>3<br>45<br>76<br>51<br>12<br>22<br>25<br>51<br>16<br>7<br>7<br>10<br>10<br>10<br>10<br>38   | TDS<br>mg/l<br>66.12<br>70.00<br>64.44<br>64.43<br>63.16<br>63.23<br>62.64<br>63.23<br>62.64<br>63.23<br>62.64<br>63.23<br>62.64<br>63.23<br>62.64<br>63.23<br>62.64<br>63.70<br>77.052<br>68.70<br>77.65<br>66.62<br>57.61<br>58.70<br>77.84.50<br>738.50  | T. Alkalinity<br>mg/l as<br>CaCO3         T. Alkalinity<br>mg/l as           34         36           39         30           34         36           39         30           34         36           35         37           37         32           37         43           66         42           46         38           37         32           32         32           32         32           32         32           32         32           125         69   | Nor-N         ypgN            3           3         3           <3  | NO <sub>3</sub> -N<br>µg/l<br>56<br>41<br>43<br>43<br>80<br>22<br>4<br>4<br>68<br>36<br>108<br>235<br>179<br>43<br>43<br>43<br>95<br>12<br>43<br>95<br>12<br>43<br>95<br>12<br>43<br>34<br>34<br>34<br>34<br>34<br>34<br>34<br>34<br>34<br>34<br>34<br>34   | TN         μg/l           μg/l         445           406         1545           224         186           1481         371           415         2474           456         608           606         782           7523         1631           656         677           1089         324           430         347           426         432 | NH <sub>2</sub> -N         μg/l           <10  | TP<br>µg/l<br>86<br>79<br>53<br>84<br>48<br>70<br>67<br>68<br>64<br>71<br>78<br>91<br>90<br>90<br>84<br>91<br>90<br>91<br>90<br>103<br>153<br>91<br>128<br>141<br>111<br>78<br>476<br>48<br>448<br>98<br>9100  | Cl-mg/l           wg/l           <10   | Total<br>Chloro<br>µg/L<br>7.92<br>1.1.10<br>1.90<br>1.92<br>1.24<br>4.41<br>4.41<br>10.27<br>4.20<br>13.50<br>6.41<br>1.95<br>2.33<br>2.73<br>10.62<br>2.220 | Secchi<br>Disk<br>(m)<br>1.2<br>2.5<br>2.3<br>2.0<br>0.9<br>0.9<br>0.9<br>0.9<br>0.5<br>1.8<br>0.9<br>0.9<br>0.9<br>1.4        | FC<br>MPN/<br>100ml<br>4<br>3<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>5<br>5<br>43<br>148<br>>2419.6<br>14  |
| FEBRUARY :<br>DATE<br>15.02.24<br>15.02.24<br>22.02.24<br>22.02.24<br>22.02.24<br>22.02.24<br>22.02.24<br>16.02.24<br>16.02.24<br>15.02.24<br>15.02.24<br>15.02.24<br>15.02.24<br>15.02.24<br>27.02.24<br>29.02.24<br>29.02.24<br>29.02.24<br>29.02.24             | 2024<br>STATION<br>ID<br>Charara<br>Andora<br>Manchinchi<br>Damwall Up<br>Damwall<br>Down<br>B 51 05m<br>B 51 05m<br>S 51 20m<br>S 30 20m | Temp<br>oC<br>31.46<br>30.54<br>31.41<br>31.43<br>27.77<br>31.26<br>29.74<br>29.74<br>29.74<br>29.74<br>29.74<br>29.74<br>29.74<br>29.74<br>29.74<br>29.74<br>29.74<br>29.34<br>27.22<br>26.61<br>30.73<br>30.74<br>30.87<br>30.74<br>30.87<br>30.13<br>29.58<br>28.13<br>29.58<br>28.13<br>29.58<br>28.22<br>23.187  | pH<br>7 92<br>8 20<br>8 70<br>7 13<br>8 70<br>7 13<br>8 70<br>7 70<br>7 70<br>7 70<br>7 70<br>7 70<br>7 70<br>7 70  | EC<br>mS/m<br>10.80<br>11.20<br>10.50<br>9.60<br>9.70<br>9.70<br>9.10<br>13.90<br>11.10<br>10.20<br>13.90<br>10.20<br>18.90<br>11.20<br>12.20<br>12.20<br>12.20<br>10.50<br>13.90<br>2.27<br>10.50<br>10.50<br>12.90<br>12.90<br>12.90<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.20<br>10.20<br>11.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12. | DO<br>mg/l<br>8.03<br>7.69<br>8.11<br>8.19<br>3.76<br>8.02<br>7.87<br>3.53<br>2.20<br>2.46<br>5.27<br>3.99<br>2.57<br>2.86<br>3.20<br>5.45<br>6.75<br>11.63<br>5.23<br>5.13<br>6.58<br>7.05<br>8.02<br>5.80<br>5.45  | TSS<br>mg/l<br>23<br>6<br>3<br>2<br>7<br>7<br>4<br>1<br>3<br>4<br>1<br>3<br>2<br>3<br>3<br>4<br>1<br>3<br>2<br>3<br>3<br>4<br>5<br>1<br>2<br>2<br>5<br>1<br>12<br>225<br>51<br>11<br>2<br>225<br>51<br>11<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10 | TDS<br>mg/l<br>66.12<br>70.00<br>64.44<br>64.43<br>63.46<br>63.46<br>63.46<br>63.46<br>63.46<br>63.61<br>87.42<br>71.01<br>66.71<br>70.92<br>117.20<br>68.70<br>71.54<br>76.80<br>66.31<br>66.63<br>117.54<br>76.80<br>66.63<br>155.761<br>58.761<br>58.761<br>58.701<br>135.50   | T. Alkalinity<br>mg/l as<br>CaCO3<br>34<br>36<br>39<br>30<br>34<br>41<br>36<br>38<br>39<br>46<br>32<br>32<br>37<br>43<br>66<br>66<br>42<br>42<br>46<br>38<br>37<br>37<br>33<br>32<br>32<br>32<br>32<br>32<br>32<br>32<br>32<br>32<br>32<br>32<br>32   | Nor-N         yg/l            3           3         3           <3  | NO3-N<br>µg/l<br>56<br>41<br>3<br>3<br>3<br>80<br>22<br>3<br>4<br>4<br>6<br>8<br>9<br>6<br>7<br>4<br>4<br>6<br>8<br>36<br>6<br>7<br>179<br>43<br>34<br>43<br>5<br>30<br>235<br>12<br>34<br>43<br>5<br>30<br>235<br>7<br>7<br>9<br>9<br>3<br>3<br>4<br>3<br>5<br>3<br>6<br>3<br>6<br>7<br>7<br>9<br>9<br>7<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9   | TN<br>µg/l<br>445<br>406<br>1545<br>224<br>186<br>1481<br>371<br>371<br>415<br>2474<br>456<br>608<br>606<br>606<br>606<br>606<br>606<br>606<br>607<br>782<br>2474<br>456<br>608<br>606<br>609<br>656<br>1147<br>1631<br>656<br>1147<br>430<br>347<br>430<br>432<br>448   | NH <sub>3</sub> -N         μg/l           <10  | TP<br>µg/l<br>86<br>79<br>53<br>84<br>48<br>48<br>67<br>67<br>66<br>44<br>71<br>78<br>91<br>90<br>84<br>103<br>153<br>91<br>128<br>141<br>111<br>111<br>111<br>128<br>476<br>48<br>98<br>98<br>90<br>57  | Cl-mg/l           <10  | Total<br>Chloro<br>μg/L           7.92           11.10           1.90           1.92           1.24   | Secchi<br>Disk<br>(m)<br>1.2<br>2.3<br>2.0<br>0.9<br>0.9<br>0.9<br>0.9<br>0.9<br>0.9<br>0.9<br>0.9<br>0.9<br>0                 | FC<br>MPN/<br>100ml<br>4<br>3<br>1<br>1<br>1<br><1<br><1<br>   |
| FEBRUARY :<br>DATE<br>15 02 24<br>15 02 24<br>22 02 24<br>22 02 24<br>22 02 24<br>22 02 24<br>22 02 24<br>22 02 24<br>16 02 24<br>16 02 24<br>15 02 24<br>15 02 24<br>15 02 24<br>27 02 24<br>29 02 24<br>29 02 24<br>29 02 24<br>29 02 24                         | 2024<br>STATION<br>ID<br>Charara<br>Andora<br>Manchinchi<br>Damwali Up<br>Damwali<br>Down<br>B 51 10m<br>B 51 10m<br>B 51 30m<br>B 51 30m<br>Sanyati 05m<br>Sanyati 05m<br>Sanyati 05m<br>Sanyati 05m<br>Sanyati 05m<br>Sanyati 30m<br>Sanyati 30m<br>Sanyati 30m<br>Sanyati 50m<br>Sanyati 50m   | Temp<br>oC<br>31.46<br>30.54<br>31.41<br>31.41<br>31.43<br>27.72<br>28.62<br>28.62<br>24.71<br>30.73<br>30.73<br>30.73<br>30.73<br>30.74<br>30.74<br>31.58<br>32.94<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.74<br>30.87<br>30.87<br>30.74<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.87<br>30.8 | pH<br>7.92<br>8.20<br>8.74<br>7.13<br>8.76<br>7.20<br>7.20<br>7.20<br>7.20<br>7.20<br>7.20<br>7.20<br>7.20  | EC<br>m8/m<br>10.80<br>11.20<br>10.50<br>10.50<br>10.50<br>10.50<br>10.00<br>9.70<br>9.70<br>9.70<br>9.70<br>9.70<br>9.70<br>9.70  | DO<br>mg/l<br>8.03<br>7.69<br>8.11<br>8.19<br>3.76<br>2.40<br>2.46<br>2.46<br>2.46<br>2.46<br>2.27<br>3.90<br>2.57<br>2.86<br>3.20<br>2.57<br>2.86<br>3.20<br>5.45<br>6.75<br>5.45<br>6.75<br>5.23<br>5.13<br>5.13<br>5.13<br>5.23<br>5.13<br>5.23<br>5.13<br>5.23<br>5.15<br>5.23<br>5.15<br>5.23<br>5.55<br>5.23<br>5.55<br>5.23<br>5.55<br>5.23<br>5.55<br>5.23<br>5.55<br>5.23<br>5.55<br>5.23<br>5.55<br>5.23<br>5.55<br>5.23<br>5.55<br>5.23<br>5.55<br>5.23<br>5.55<br>5.23<br>5.55<br>5.23<br>5.55<br>5.23<br>5.55<br>5.23<br>5.55<br>5.23<br>5.55<br>5.23<br>5.55<br>5.23<br>5.55<br>5.23<br>5.55<br>5.23<br>5.55<br>5.23<br>5.55<br>5.23<br>5.55<br>5.23<br>5.55<br>5.23<br>5.55<br>5.23<br>5.55<br>5.23<br>5.55<br>5.23<br>5.55<br>5.23<br>5.55<br>5.23<br>5.55<br>5.23<br>5.55<br>5.23<br>5.55<br>5.23<br>5.55<br>5.23<br>5.55<br>5.23<br>5.55<br>5.23<br>5.55<br>5.23<br>5.55<br>5.23<br>5.55<br>5.23<br>5.55<br>5.23<br>5.55<br>5.23<br>5.55<br>5.23<br>5.55<br>5.23<br>5.55<br>5.55 | TSS mg/l 23 6 3 2 7 - 1 3 - 2 3 - 1 1 3 2 2 3 3 2 2 3 3 1 2 2 5 1 1 1 5 1 2 2 2 5 1 1 1 1 6 7 7 1 0 0 1 0 1 0 1 0 8 8 8   | TDS<br>mg/l<br>66.12<br>70.00<br>64.44<br>64.43<br>63.16<br>63.40<br>63.23<br>62.64<br>63.61<br>87.42<br>71.01<br>87.42<br>71.05<br>117.20<br>68.70<br>71.54<br>76.80<br>66.21<br>71.55<br>71.55<br>75.61<br>58.70<br>784.50<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>135.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56<br>155.56  | T. Alkalinity<br>mg/l as<br>CaCO3<br>34<br>36<br>39<br>30<br>34<br>41<br>36<br>38<br>39<br>46<br>42<br>32<br>37<br>37<br>37<br>43<br>66<br>42<br>43<br>66<br>42<br>44<br>38<br>37<br>37<br>32<br>32<br>32<br>32<br>45<br>66<br>30<br>30<br>30<br>30<br>30<br>30<br>30<br>30<br>30<br>30<br>30<br>30<br>30   | NOF-N           µpgN           43           4           3   | NO <sub>3</sub> -N<br>µg/l<br>56<br>41<br>3<br>3<br>3<br>3<br>3<br>3<br>4<br>4<br>4<br>6<br>36<br>108<br>235<br>179<br>43<br>95<br>12<br>43<br>95<br>12<br>43<br>77<br>4<br>3<br>3<br>5<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3   | TN µ9/1<br>445<br>406<br>1545<br>224<br>186<br>1481<br>1481<br>224<br>1481<br>415<br>666<br>608<br>6086<br>6086<br>6086<br>6086<br>677<br>7523<br>1631<br>1631<br>6569<br>324<br>432<br>432<br>432<br>442<br>442<br>246  | NH <sub>2</sub> -N         μg/l           <10  | TP<br>µg/l<br>86<br>79<br>53<br>53<br>84<br>48<br>48<br>48<br>48<br>70<br>67<br>78<br>91<br>99<br>99<br>99<br>91<br>103<br>153<br>153<br>153<br>153<br>44<br>103<br>153<br>44<br>84<br>84<br>91<br>91<br>95<br>76<br>96<br>67<br>67<br>67<br>67<br>95<br>67<br>95<br>67<br>95<br>84<br>84<br>84<br>84<br>84<br>84<br>84<br>84<br>84<br>84<br>84<br>84<br>84  | Cl-mg/l <td< td=""><td>Total<br/>Chloro<br/>µg/L<br/>7.92<br/>1.24<br/>1.24<br/>4.41<br/>10.27<br/>4.20<br/>13.50<br/>6.41<br/>1.95<br/>2.30<br/>2.73<br/>10.62<br/>2.20</td><td>Secchi<br/>Disk<br/>(m)<br/>1.2<br/>2.5<br/>2.0<br/>0.9<br/>0.9<br/>0.9<br/>0.9<br/>0.9<br/>0.9<br/>0.9<br/>0.9<br/>0.9<br/>1.4</td><td>FC<br/>MFN/<br/>100ml<br/>4<br/>3<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>6<br/>5<br/>43<br/>148<br/>&gt;2419.6<br/>14</td></td<> | Total<br>Chloro<br>µg/L<br>7.92<br>1.24<br>1.24<br>4.41<br>10.27<br>4.20<br>13.50<br>6.41<br>1.95<br>2.30<br>2.73<br>10.62<br>2.20                            | Secchi<br>Disk<br>(m)<br>1.2<br>2.5<br>2.0<br>0.9<br>0.9<br>0.9<br>0.9<br>0.9<br>0.9<br>0.9<br>0.9<br>0.9<br>1.4               | FC<br>MFN/<br>100ml<br>4<br>3<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>6<br>5<br>43<br>148<br>>2419.6<br>14   |
| FEBRUARY :<br>DATE<br>15.02.24<br>15.02.24<br>22.02.24<br>22.02.24<br>22.02.24<br>22.02.24<br>16.02.24<br>16.02.24<br>16.02.24<br>15.02.24<br>15.02.24<br>15.02.24<br>15.02.24<br>27.02.24<br>29.02.24<br>29.02.24<br>29.02.24                                     | 2024<br>STATION<br>ID<br>Charara<br>Andora<br>Manchinchi<br>Damwali Up<br>Damwali<br>Down<br>B 51 05m<br>B 51 05m<br>B 51 20m<br>B 51 20m<br>B 51 20m<br>B 51 30m<br>B 51 20m<br>B 51 30m<br>B 51 30m<br>B 51 50m<br>Sanyati 05m<br>Sanyati 05m<br>Sanyat  | Temp<br>oC<br>31.46<br>30.54<br>31.41<br>31.43<br>27.77<br>31.26<br>29.74<br>29.74<br>29.74<br>29.74<br>29.74<br>29.74<br>29.74<br>29.74<br>29.74<br>29.74<br>29.74<br>29.74<br>29.74<br>29.74<br>20.74<br>30.73<br>30.74<br>31.58<br>30.74<br>31.58<br>30.87<br>30.13<br>29.58<br>28.13<br>29.58<br>28.13<br>29.58<br>28.13<br>29.58<br>28.13<br>29.58<br>28.13<br>29.58<br>28.13<br>29.58<br>28.13<br>29.58<br>28.13<br>29.58<br>28.13<br>29.59<br>28.13<br>29.59<br>28.13<br>29.59<br>28.13<br>29.59<br>28.13<br>29.59<br>28.13<br>29.59<br>28.13<br>29.59<br>28.13<br>29.59<br>28.13<br>29.59<br>28.13<br>29.59<br>30.13<br>30.25<br>31.58<br>32.25<br>31.87<br>30.14<br>31.58<br>32.25<br>31.87<br>30.14<br>31.58<br>32.25<br>31.87<br>30.13<br>29.56<br>32.25<br>31.87<br>30.14<br>30.54<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.74<br>30.7 | pH<br>7 92<br>8 20<br>8 70<br>7 13<br>8 74<br>7 13<br>8 70<br>7 26<br>7 700<br>7 72<br>7 700<br>7 704<br>7 708<br>7 727<br>7 700<br>7 704<br>7 709<br>7 723<br>7 724<br>7 700<br>7 723<br>7 724<br>7 700<br>7 723<br>7 720<br>7 700<br>7 700<br>700 | EC<br>mS/m<br>10.80<br>11.20<br>10.50<br>9.60<br>10.50<br>9.70<br>9.10<br>13.90<br>11.10<br>10.20<br>9.90<br>11.10<br>10.20<br>9.90<br>11.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12. | DO<br>mg/l<br>8.03<br>7.69<br>8.11<br>8.19<br>3.76<br>8.02<br>7.87<br>3.53<br>2.20<br>2.46<br>5.27<br>2.86<br>3.20<br>2.57<br>2.86<br>3.20<br>3.20<br>5.45<br>6.75<br>11.63<br>5.23<br>5.13<br>6.58<br>7.05<br>8.05<br>8.02<br>5.89  | TSS<br>mg/l<br>23<br>6<br>3<br>2<br>7<br>7<br>4<br>1<br>3<br>2<br>2<br>7<br>7<br>3<br>4<br>1<br>3<br>13<br>13<br>2<br>2<br>83<br>145<br>5<br>11<br>12<br>225<br>511<br>16<br>7<br>7<br>0<br>10<br>10<br>8<br>30<br>8<br>8<br>9<br>9   | TDS<br>mg/l<br>66.12<br>70.00<br>64.44<br>63.46<br>63.46<br>63.46<br>63.46<br>63.46<br>63.46<br>63.46<br>63.61<br>87.42<br>71.01<br>66.71<br>70.92<br>117.20<br>68.70<br>71.54<br>76.80<br>66.31<br>66.63<br>107.64<br>77.64<br>96.63<br>107.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64<br>97.64     | T. Alkalinity<br>mg/l as<br>CaCO3           34           36           39           30           34           41           36           39           30           34           41           36           37           32           32           37           43           66           42           46           38           37           33           32           33           32           33           34  | Noz-N         yg/l           <3   | NO3-N<br>µg/l<br>56<br>41<br>3<br>3<br>3<br>3<br>80<br>22<br>3<br>4<br>4<br>6<br>7<br>4<br>4<br>6<br>8<br>36<br>7<br>4<br>4<br>36<br>108<br>235<br>179<br>95<br>12<br>34<br>4<br>3<br>5<br>95<br>12<br>34<br>4<br>3<br>4<br>3<br>4<br>3<br>3<br>4<br>3<br>3<br>4<br>3<br>3<br>4<br>3<br>3<br>4<br>3<br>3<br>4<br>3<br>3<br>4<br>3<br>3<br>5<br>5<br>10<br>8<br>9<br>10<br>8<br>9<br>10<br>8<br>9<br>10<br>8<br>9<br>10<br>8<br>10<br>8<br>1 | TN µg/l<br>445<br>406<br>1545<br>224<br>1651<br>1545<br>224<br>1651<br>1545<br>224<br>1651<br>1656<br>608<br>607<br>782<br>677<br>7523<br>1631<br>1631<br>1639<br>1639<br>1639<br>1639<br>464<br>465<br>464<br>465<br>465<br>465<br>465<br>465   | NH <sub>3</sub> -N         μg/l           <10  | TP           µg/l           86           79           83           84           48           70           67           68           91           103           91           128           91           128           91           128           91           128           91           128           91           128           91           128           91           128           91           128           91           128           91           128           91           92           93           94           95           96           97           98           900           91           92           93           94           95           96           97           64           98 | Cl-mp/l  | Total<br>Chloro<br>µg/L<br>7.92<br>1.24<br>1.24<br>4.41<br>1.24<br>1.24<br>1.24<br>1.24<br>1.2  | Secchi<br>Disk<br>(m)<br>1.2<br>2.3<br>2.0<br>0.9<br>0.9<br>0.9<br>0.9<br>0.5<br>1.8<br>0.9<br>0.9<br>1.4                      | FC<br>MPN/<br>100ml<br>4<br>3<br>1<br>1<br>1<br><1<br><1<br><1<br>5<br>16<br>5<br>43<br>148<br>>2419.6<br>14   |
| FEBRUARY :<br>DATE<br>15 02 24<br>15 02 24<br>22 02 24<br>22 02 24<br>22 02 24<br>22 02 24<br>22 02 24<br>16 02 24<br>16 02 24<br>16 02 24<br>15 02 24<br>15 02 24<br>15 02 24<br>15 02 24<br>15 02 24<br>29 02 24<br>29 02 24<br>29 02 24                         | 2024<br>STATION<br>ID<br>Charara<br>Andora<br>Manchinchi<br>Damwali Up<br>Damwali<br>Down<br>B 51 10m<br>B 51 10m<br>B 51 30m<br>B 51 30m<br>B 51 30m<br>B 51 30m<br>Sanyati 20m<br>Sanyati 20m<br>Sanyati 20m<br>Sanyati 20m<br>Sanyati 20m<br>Sanyati 20m<br>Sanyati 20m<br>Sanyati 50m<br>Sanyati 50m<br>Sanyat   | Temp<br>oC<br>31.46<br>30.54<br>31.41<br>31.43<br>27.77<br>31.26<br>29.74<br>28.02<br>25.68<br>24.71<br>30.73<br>29.34<br>27.22<br>26.61<br>24.96<br>30.74<br>30.73<br>31.58<br>32.94<br>30.87<br>30.13<br>30.958<br>22.94<br>30.013<br>30.013<br>32.92<br>32.81<br>32.94<br>30.21<br>32.94<br>30.21<br>32.94<br>30.21<br>32.94<br>30.21<br>32.94<br>30.21<br>32.94<br>30.21<br>32.94<br>30.21<br>32.94<br>30.21<br>32.94<br>30.21<br>32.94<br>30.21<br>32.94<br>30.21<br>32.94<br>30.21<br>31.95<br>32.94<br>30.21<br>31.95<br>32.94<br>30.21<br>31.95<br>32.94<br>30.21<br>31.95<br>32.94<br>30.21<br>31.95<br>32.94<br>30.21<br>31.95<br>32.94<br>30.21<br>31.95<br>32.94<br>30.21<br>31.95<br>32.94<br>30.21<br>31.95<br>32.94<br>30.21<br>31.95<br>32.94<br>30.21<br>31.95<br>32.94<br>30.21<br>31.95<br>32.94<br>30.21<br>31.95<br>32.94<br>30.21<br>32.94<br>30.21<br>32.94<br>30.21<br>31.95<br>32.94<br>30.21<br>31.95<br>31.95<br>31.95<br>31.95<br>31.95<br>31.95<br>31.95<br>31.95<br>31.95<br>31.95<br>31.95<br>31.95<br>31.95<br>31.95<br>31.95<br>31.95<br>31.95<br>31.95<br>31.95<br>31.95<br>31.95<br>31.95<br>31.95<br>31.95<br>31.95<br>31.95<br>31.95<br>31.95<br>31.95<br>31.95<br>31.95<br>31.95<br>31.95<br>31.95<br>31.95<br>31.95<br>31.95<br>31.95<br>31.95<br>31.95<br>31.95<br>31.95<br>31.95<br>32.94<br>30.73<br>30.13<br>32.94<br>32.94<br>32.94<br>32.94<br>32.94<br>32.94<br>32.94<br>32.94<br>32.94<br>32.94<br>32.94<br>32.94<br>32.94<br>32.94<br>32.94<br>32.94<br>32.94<br>32.94<br>32.94<br>32.94<br>32.94<br>32.94<br>32.94<br>32.94<br>32.94<br>32.94<br>32.94<br>32.94<br>32.94<br>32.94<br>32.94<br>32.94<br>32.94<br>32.94<br>32.94<br>32.94<br>32.94<br>32.94<br>32.94<br>32.94<br>32.94<br>32.94<br>32.94<br>32.94<br>32.94<br>32.94<br>32.94<br>32.94<br>32.94<br>32.94<br>32.94<br>32.94<br>32.94<br>32.94<br>32.94<br>32.94<br>32.94<br>32.94<br>32.94<br>32.94<br>32.94<br>32.94<br>32.94<br>32.94<br>32.94<br>32.94<br>32.94<br>32.94<br>32.94<br>32.94<br>32.94<br>32.94<br>32.94<br>32.94<br>32.94<br>32.94<br>32.94<br>32.94<br>32.94<br>32.94<br>32.94<br>32.94<br>32.94<br>32.94<br>32.94<br>32.94<br>32.94<br>32.94<br>32.94<br>32.94<br>32.94<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>31.87<br>3 | pH<br>7.92<br>8.20<br>8.74<br>7.13<br>8.70<br>7.28<br>7.00<br>7.27<br>7.00<br>7.27<br>7.00<br>7.70<br>7.70<br>7.70  | EC<br>m8/m<br>10.80<br>11.20<br>10.50<br>9.60<br>10.50<br>9.70<br>9.70<br>9.70<br>9.70<br>9.70<br>9.70<br>11.10<br>10.20<br>11.10<br>10.20<br>11.20<br>10.20<br>11.20<br>10.20<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.50<br>10.00<br>10.50<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.20<br>10.00<br>10.20<br>10.00<br>10.20<br>10.00<br>10.20<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00<br>12.00 | DO<br>mg/l<br>8.03<br>7.69<br>8.11<br>8.19<br>3.76<br>8.02<br>7.87<br>3.53<br>2.20<br>2.46<br>5.27<br>3.99<br>2.57<br>2.86<br>5.27<br>3.90<br>2.57<br>2.86<br>5.23<br>5.45<br>6.75<br>5.23<br>5.23<br>5.23<br>5.23<br>5.23<br>5.545<br>8.05<br>8.05<br>8.05<br>8.05  | TSS mg/l 23 6 3 2 7 7 7 3 3 4 1 3 2 3 3 2 3 3 1 4 5 5 1 1 2 2 2 5 5 1 1 1 6 6 7 1 0 1 0 1 0 1 0 8 8 9 9   | TDS<br>mg/l<br>66.12<br>70.00<br>64.44<br>64.43<br>63.16<br>63.40<br>63.23<br>62.64<br>63.23<br>62.64<br>63.23<br>71.01<br>67.54<br>66.71<br>71.05<br>117.20<br>68.70<br>71.54<br>76.80<br>66.82<br>71.68<br>71.68<br>75.69<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71.55<br>71 | T. Alkalimity<br>mg/l as<br>CaCO3         T. Alkalimity<br>mg/l as           34         36           39         30           34         36           39         30           34         36           39         36           30         34           41         36           38         39           46         32           32         32           33         33           32         32           32         32           32         32           32         32           32         32           32         32           32         32           33         32           32         32           32         32           32         32           32         32           33         32           33         32           33         33           33         33           34         - | Nor-N         yugin           3         3           3         3           3         3           3         3           3         3           3         3           3         3           3         3           3         3           3         3           4         3           4         3           3         3           4         12           24         3           3         3           4         3           3         3           4         3           4         3           4         3           4         3           4         3           4         3           4         3           4         3           4         3           4         3           4         3           4         3           4         3           4         3           4         3           4         3           4 <td< td=""><td>NO₁-N         µg/l           56         41           &lt;3</td>         80           22         3           67         4           68         36           108         23           36         179           43         95           12         34           74         530           222         7           9         &lt;3</td<>  | NO₁-N         µg/l           56         41           <3   | TN<br>µg/l<br>1445<br>1545<br>224<br>1686<br>1487<br>1487<br>1487<br>1487<br>1545<br>2474<br>456<br>608<br>606<br>677<br>523<br>1631<br>1631<br>1655<br>1655<br>1655<br>1655<br>1645<br>244<br>430<br>430<br>430<br>430<br>430<br>430<br>430<br>4  | NH <sub>3</sub> -N         μg/l           <10  | TP<br>µg/l<br>86<br>79<br>84<br>48<br>48<br>48<br>91<br>103<br>153<br>153<br>153<br>153<br>90<br>90<br>91<br>128<br>141<br>111<br>178<br>84<br>91<br>128<br>141<br>111<br>78<br>89<br>91<br>957<br>64<br>45<br>53  | Cl-mg/l<br><100<br><100<br><100<br><100<br><100<br><100<br><100<br><10   | Total<br>Chloro<br>µg/L<br>7.92<br>1.24<br>1.92<br>1.24<br>4.41<br>10.27<br>4.20<br>17.20<br>13.50<br>6.41<br>1.95<br>2.30<br>2.73<br>10.62<br>2.220          | Secchi<br>Disk<br>(m)<br>1.2<br>2.5<br>2.0<br>0.9<br>0.9<br>0.9<br>0.9<br>0.5<br>1.8<br>0.9<br>0.9<br>0.9<br>1.4               | FC<br>MPN/<br>100ml<br>4<br>3<br>1<br>1<br>1<br><1<br>1<br><1<br>5<br>43<br>148<br>5<br>24196<br>14  |
| FEBRUARY :<br>DATE<br>15.02.24<br>15.02.24<br>22.02.24<br>22.02.24<br>22.02.24<br>22.02.24<br>22.02.24<br>16.02.24<br>16.02.24<br>15.02.24<br>15.02.24<br>15.02.24<br>15.02.24<br>27.02.24<br>29.02.24<br>29.02.24<br>29.02.24                                     | 2024<br>STATION<br>ID<br>Charara<br>Andora<br>Manchinchi<br>Damwall Up<br>Damwall<br>Down<br>B 51 05m<br>B 51 10m<br>B 51 20m<br>B 51 20m<br>B 51 20m<br>B 51 30m<br>B 51 30m<br>B 51 30m<br>B 51 50m<br>Sanyati 05m<br>Sanyati 05m<br>San  | Temp<br>oC<br>31.46<br>30.54<br>31.41<br>31.41<br>31.43<br>27.77<br>29.74<br>29.74<br>29.74<br>29.74<br>29.74<br>29.74<br>29.74<br>29.74<br>29.74<br>29.74<br>29.74<br>29.74<br>29.74<br>24.96<br>30.74<br>31.58<br>30.74<br>31.58<br>30.74<br>31.58<br>32.94<br>30.87<br>30.13<br>29.58<br>28.13<br>29.06<br>32.22<br>31.87  | pH<br>7.92<br>8.20<br>8.74<br>7.13<br>8.74<br>7.26<br>8.71<br>7.26<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.70<br>7.7   | EC<br>mS/m<br>10.80<br>11.20<br>10.50<br>9.60<br>10.50<br>9.10<br>9.10<br>9.10<br>13.90<br>11.10<br>10.20<br>19.90<br>11.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12.20<br>12 | DO<br>mg/l<br>8.03<br>7.69<br>8.11<br>8.19<br>3.76<br>7.87<br>3.53<br>2.20<br>2.246<br>5.27<br>2.26<br>5.27<br>2.26<br>5.27<br>3.99<br>2.57<br>2.26<br>5.45<br>6.75<br>11.63<br>5.23<br>5.13<br>6.58<br>7.05<br>8.02<br>5.89   | TSS<br>mg/l<br>23<br>6<br>3<br>2<br>7<br>7<br>7<br>7<br>3<br>4<br>1<br>3<br>3<br>2<br>2<br>13<br>13<br>13<br>13<br>2<br>3<br>14<br>5<br>51<br>12<br>225<br>51<br>11<br>16<br>7<br>7<br>0<br>0<br>0<br>8<br>8<br>30<br>8<br>9<br>9   | TDS<br>mg/l<br>66.12<br>70.00<br>64.44<br>63.40<br>63.46<br>63.40<br>63.23<br>71.01<br>65.24<br>71.01<br>66.71<br>77.54<br>76.50<br>71.54<br>76.80<br>66.31<br>66.63<br>117.20<br>68.70<br>71.54<br>76.80<br>66.31<br>66.62<br>117.20<br>77.84<br>58.70<br>784.50<br>135.50   | T. Alkalinity<br>mg/l as<br>CaCO3           34           36           39           30           34           41           36           39           30           34           41           36           38           39           46           32           32           37           43           66           42           46           38           37           32           32           32           32           32           32           32           32           33           32           32           32           32           32           32           32           32           32           32           32           32           32           32           32           33           32           30  | NOr-N         PupI            3           3         3           3         3           3         3           3         3           3         3           3         3           3         3           3         3           3         3           4         11           3         3           12         24           19         3           3         3           4         3           4         3           4         3           3         3           4         9           UTTLE 0         0   | NO₁-N         µg/l           56         41           43         <3  | TN<br>µg/l<br>1545<br>224<br>1866<br>608<br>608<br>607<br>82<br>677<br>1631<br>1631<br>656<br>673<br>1631<br>1631<br>656<br>674<br>1147<br>426<br>426<br>422<br>426<br>219   | NH <sub>2</sub> -N         μg/l           <10  | TP           µg/l           86           79           84           48           70           67           68           91           153           91           128           91           128           91           128           91           128           91           128           91           128           91           128           91           128           91           128           91           128           92           93           94           95           64           57           64           53  | CI-mp/l  | Total<br>Chloro<br>µg/L<br>7.92<br>1.24<br>1.24<br>4.41<br>10.27<br>4.20<br>17.20<br>13.50<br>6.41<br>1.95<br>2.30<br>2.73<br>10.62<br>22.20                  | Secchi<br>Disk<br>(m)<br>1.2<br>2.5<br>2.3<br>2.0<br>0.9<br>0.9<br>0.9<br>1.8<br>0.9<br>1.4                                    | FC<br>MPN/<br>100ml<br>4<br>3<br>1<br>1<br>1<br><1<br>5<br>5<br>5<br>4<br>3<br>148<br>>2419.6<br>14  |

| MARCH 2024 |                 |       |      |        |      |       |        |              |                    |                    |      |                    |      |      |        |        |         |
|------------|-----------------|-------|------|--------|------|-------|--------|--------------|--------------------|--------------------|------|--------------------|------|------|--------|--------|---------|
| DATE       | STATION         | Temp  | pН   | EC     | DO   | TSS   | TDS    | T.Alkalinity | NO <sub>2</sub> -N | NO <sub>3</sub> -N | TN   | NH <sub>3</sub> -N | TP   | CI-  | Total  | Secchi | FC      |
|            | ID              | oC    |      | mS/m   | mg/l | mg/l  | mg/l   | mg/l as      | µg/l               | µg/I               | µg/l | µg/l               | µg/l | mg/l | Chloro | Disk   | MPN/    |
|            |                 |       |      |        |      |       |        | CaCO3        |                    |                    |      |                    |      |      | μg/L   | (m)    | 100ml   |
| 19.03.24   | Charara         | 29.96 | 7.49 | 10.50  | 5.25 | 4.00  | 66.30  | 34           | <3                 | <3                 | 583  | <10                | 39   | <10  | 3.3    | 1.40   | 9       |
| 20.03.24   | Andora          | 30.92 | 8.07 | 10.90  | 7.10 | <0.1  | 67.70  | 17           | <3                 | <3                 | 436  | 24                 | 79   | <10  | 3.4    | 1.50   | 548     |
| 27.03.24   | Manchinchi      | 29.97 | 8.01 | 10.60  | 7.13 | 2.00  | 66.72  | 33           | <3                 | 13                 | 587  | <10                | 55   | <10  | 1.9    |        | 190     |
| 20.03.24   | Damwall Up      | 30.25 | 8.18 | 10.50  | 7.23 | <0.1  | 65.80  | 33           | <3                 | <3                 | 515  | 27                 | 65   | <10  | 1.5    | 2.50   |         |
| 27.03.24   | Damwall Down    | 28.97 | 7.86 | 10.30  | 6.83 | 8.00  | 66.00  | 33           | 5                  | 128                | 245  | <10                | 64   | <10  | 3.0    |        | 72      |
| 20.03.24   | B 51 0.5m       | 30.36 | 8.21 | 10.60  | 7.23 | <0.1  | 66.03  | 33           | <3                 | 23                 | 534  | 18                 | 68   | <10  | 1.1    | 2.60   | <1      |
|            | B 51 10m        | 29.62 | 8.24 | 10.30  | 7.37 | <0.1  | 65.60  | 35           | <3                 | <3                 | 492  | <10                | 73   | <10  |        |        |         |
|            | B 51 20m        | 29.12 | 7.92 | 10.20  | 6.70 | <0.1  | 65.60  | 32           | <3                 | <3                 | 533  | <10                | 66   | <10  |        |        |         |
|            | B 51 30m        | 28.42 | 7.60 | 10.10  | 5.17 | 4.00  | 65.40  | 35           | <3                 | <3                 | 360  | <10                | 157  | <10  |        |        |         |
|            | B 51 50m        | 26.99 | 7.29 | 9.80   | 3.35 | 4.00  | 65.65  | 33           | <3                 | <3                 | 889  | 18                 | 53   | <10  |        |        |         |
| 20.03.24   | Sanyati 0.5m    | 31.00 | 8.18 | 11.40  | 7.14 | 10.00 | 73.50  | 36           | <3                 | <3                 | 246  | 16                 | 66   | <10  | 2.0    | 1.80   | <1      |
|            | Sanyati 10m     | 29.74 | 7.75 | 11.90  | 5.87 | 10.00 | 75.22  | 39           | <3                 | 4                  | 577  | 12                 | 67   | <10  |        |        |         |
|            | Sanyati 20m     | 29.41 | 7.63 | 11.60  | 5.67 | 10.00 | 73.50  | 37           | <3                 | 4                  | 742  | 47                 | 52   | <10  |        |        |         |
|            | Sanyati 30m     | 27.39 | 7.02 | 10.50  | 1.79 | 33.00 | 69.40  | 35           | <3                 | 14                 | 294  | 80                 | 61   | <10  |        |        |         |
|            | Sanyati 50m     | 26.07 | 6.99 | 11.10  | 1.76 | 37.00 | 75.30  | 39           | <3                 | 34                 | 511  | 283                | 88   | <10  |        |        |         |
| 20.03.24   | Sanyati further | 30.38 | 7.55 | 16.10  | 4.86 | 23.00 | 100.44 | 51           | <3                 | 7                  | 501  | 26                 | 91   | <10  | 7.7    | 0.60   |         |
| 19.03.24   | Nyaodza         | 30.52 | 8.03 | 11.10  | 7.48 | 10.00 | 68.90  | 37           | <3                 | 14                 | 508  | 24                 | 69   | <10  | 8.3    | 1.30   | 17      |
| 19.03.24   | Gatchegatche    | 31.40 | 8.31 | 11.80  | 8.48 | 18.00 | 72.54  | 40           | <3                 | 6                  | 524  | 23                 | 131  | <10  | 15.1   | 1.10   | 47      |
| 19.03.24   | ULKRS           | 30.38 | 7.74 | 13.30  | 6.29 | 18.00 | 70.40  | 35           | <3                 | 58                 | 1210 | 49                 | 115  | <10  | 6.2    | 0.70   | 435     |
| 19.03.24   | Croc Farm       | 30.26 | 7.46 | 11.10  | 5.41 | 9.00  | 69.30  | 34           | <3                 | 34                 | 814  | 354                | 124  | <10  | 6.5    | 1.20   | >2419.6 |
| 14.03.24   | Chirundu        | 30.23 | 7.70 | 10.60  | 6.50 | 16.00 | 66.60  | 34           | <3                 | 234                | 543  | 195                | 66   | <10  | 1.6    |        | 980     |
| 11.03.24   | Vic falls       | 29.26 | 7.80 | 9.00   | 7.01 | 7.00  | 57.30  | 27           | 4                  | 438                | 474  | 458                | 75   | <10  | 2.2    |        |         |
| 11.03.24   | ZESA Pump       | 29.97 | 8.14 | 9.20   | 8.13 | 9.00  | 57.85  | 29           | <3                 | 23                 | 735  | <10                | 59   | <10  | 2.4    |        |         |
| 11.03.24   | Deka            | 32.90 | 8.10 | 146.40 | 7.65 | 13.00 | 876.90 | 115          | <3                 | 24                 | 939  | 124                | 99   | 48.8 | 12.4   |        |         |
| 13.03.24   | Zongwe          | 32.20 | 8.46 | 24.40  | 8.50 | 9.00  | 147.84 | 89           | <3                 | 12                 | 962  | 23                 | 131  | <10  | 6.2    |        |         |

#### AUGUST 2024

| DATE     | STATION         | Temp  | pН   | EC     | DO   | TSS  | TDS    | T.Alkalinity | NO <sub>2</sub> -N | NO <sub>3</sub> -N | TN   | NH <sub>3</sub> -N | TP   | CI-   | Total  | Secchi | FC    |
|----------|-----------------|-------|------|--------|------|------|--------|--------------|--------------------|--------------------|------|--------------------|------|-------|--------|--------|-------|
|          | ID              | oC    |      | mS/m   | mg/l | mg/l | mg/l   | mg/I as      | µg/l               | µg/l               | µg/l | µg/l               | µg/l | mg/l  | Chloro | Disk   | MPN/  |
|          |                 |       |      |        |      |      |        | CaCO3        |                    |                    |      |                    |      |       | μg/L   | (m)    | 100ml |
| 14.08.24 | Charara         | 24.36 | 7.74 | 10.30  | 6.81 | 11   | 67.70  | 44           | <3                 | 10                 | 397  | 32                 | 65   | 1.80  | 5.47   | 1.60   | 2     |
| 14.08.24 | Andora          | 24.86 | 8.48 | 10.30  | 8.07 | 7    | 67.13  | 44           | <3                 | 40                 | 325  | 24                 | 48   | 1.60  | 3.60   | 2.10   | 5     |
| 22.08.24 | Manchinchi      | 27.84 | 8.78 | 10.70  | 8.41 | 1    | 66.22  | 40           | <3                 | <3                 | 548  | 25                 | 42   | 1.30  | 2.30   | 1.90   | 5     |
| 22.08.24 | Damwall Up      | 27.72 | 8.84 | 10.70  | 8.68 | 1    | 66.21  | 40           | <3                 | 3                  | 297  | 25                 | 64   | 1.00  | 2.52   | 2.20   |       |
| 28.08.24 | Damwall Down    | 27.99 | 8.65 | 10.80  | 7.71 | 2    | 66.43  | 42           | 27                 | 187                | 261  | 34                 | 47   | 1.10  | 3.70   |        | <1    |
| 22.08.24 | B 51 0.5m       | 26.96 | 8.85 | 10.90  | 8.87 | 2    | 65.71  | 42           | <3                 | <3                 | 339  | 32                 | 35   | 1.20  | 2.50   | 1.90   | <1    |
|          | B 51 10m        | 24.78 | 8.80 | 9.90   | 9.20 | 2    | 64.71  | 41           | 19                 | <3                 | 283  | 21                 | 27   | 1.00  |        |        |       |
|          | B 51 20m        | 23.67 | 7.47 | 9.70   | 8.81 | <1   | 64.50  | 40           | <3                 | 67                 | 320  | 34                 | 49   | 1.00  |        |        |       |
|          | B 51 30m        | 23.74 | 7.48 | 9.70   | 5.89 | <1   | 64.62  | 38           | <3                 | 60                 | 380  | 28                 | 57   | 0.80  |        |        |       |
|          | B 51 50m        | 24.71 | 7.31 | 9.80   | 5.28 | 1    | 64.30  | 41           | <3                 | 76                 | 407  | 38                 | 72   | 0.90  |        |        |       |
| 14.08.24 | Sanyati 0.5m    | 25.26 | 7.83 | 10.30  | 7.01 | 3    | 66.60  | 41           | <3                 | 52                 | 379  | 24                 | 35   | 1.40  | 3.10   | 2.50   | <1    |
|          | Sanyati 10m     | 24.21 | 7.74 | 10.00  | 6.70 | 3    | 60.15  | 41           | <3                 | 27                 | 312  | 46                 | 61   | 1.40  |        |        |       |
|          | Sanyati 20m     | 23.80 | 7.50 | 10.00  | 5.83 | 2    | 69.20  | 45           | <3                 | 55                 | 287  | 25                 | 50   | 1.00  |        |        |       |
|          | Sanyati 30m     | 23.57 | 7.26 | 10.10  | 3.21 | 3    | 67.18  | 45           | 6                  | 79                 | 321  | 27                 | 38   | 0.90  |        |        |       |
|          | Sanyati 50m     | 25.11 | 7.32 | 10.60  | 4.94 | 17   | 68.90  | 45           | 3                  | 84                 | 331  | 21                 | 53   | 1.00  |        |        |       |
| 14.08.24 | Sanyati Further | 24.85 | 7.46 | 11.00  | 4.60 | 7    | 72.00  | 50           | <3                 | 9                  | 317  | 42                 | 47   | 1.50  | 5.32   | 1.50   |       |
| 14.08.24 | Nyaodza         | 24.83 | 7.82 | 10.30  | 7.34 | 8    | 67.10  | 43           | <3                 | 29                 | 338  | 19                 | 57   | 1.10  | 5.14   | 1.40   | 1     |
| 14.08.24 | Gatchegatche    | 24.86 | 7.41 | 11.50  | 5.72 | 8    | 74.70  | 48           | <3                 | 15                 | 520  | 35                 | 70   | 1.00  | 9.84   | 1.70   | <1    |
| 14.08.24 | ULKRS           | 24.41 | 8.15 | 10.80  | 7.36 | 21   | 70.85  | 48           | <3                 | 182                | 507  | 56                 | 83   | 2.10  | 8.90   | 1.70   | 5     |
| 14.08.24 | Croc Farm       | 24.55 | 8.18 | 10.10  | 7.48 | 9    | 66.40  | 46           | <3                 | 3                  | 465  | 31                 | 65   | 0.80  | 8.80   | 1.70   | 33    |
| 29.08.24 | Chirundu        | 26.77 | 7.84 | 10.70  | 7.38 | 6    | 67.50  | 41           | 18                 | 26                 | 413  | 18                 | 57   | 0.80  | 1.80   |        | 27    |
| 30.08.24 | VIcfalls        | 27.34 | 7.97 | 12.60  | 7.47 | 4    | 78.30  | 50           | 3                  | 28                 | 289  | 39                 | 55   | 2.30  | 2.52   |        |       |
| 30.08.24 | ZESA Pump       | 27.55 | 8.15 | 12.90  | 7.93 | 1    | 79.72  | 49           | <3                 | 52                 | 177  | 39                 | 36   | 2.00  | 2.90   |        |       |
| 30.08.24 | Deka            | 29.32 | 7.85 | 201.70 | 7.86 | 10   | 1211.9 | 106          | 10                 | 100                | 433  | 32                 | 60   | 50.60 | 5.82   |        |       |
| 20.08.24 | Zongwe/Kanzinze | 26.20 | 7.72 | 32.40  | 6.76 | 19   | 205.80 | 84           | <3                 | <3                 | 513  | 47                 | 92   | 0.20  | 9.60   |        |       |

### SEPTEMBER 2024

| DATE     | STATION         | Temp  | pH   | EC     | DO   | TSS  | TDS    | T.Alkalinity | NO <sub>2</sub> -N | NO <sub>3</sub> -N | TN   | NH <sub>3</sub> -N | TP   | CI-   | Total  | Secchi | FC    |
|----------|-----------------|-------|------|--------|------|------|--------|--------------|--------------------|--------------------|------|--------------------|------|-------|--------|--------|-------|
|          | ID              | oC    |      | mS/m   | mg/l | mg/l | mg/l   | mg/l as      | µg/l               | µg/l               | µg/l | µg/l               | µg/l | mg/l  | Chloro | Disk   | MPN/  |
|          |                 |       |      |        |      |      |        | CaCO3        |                    |                    |      |                    |      |       | μg/L   | (m)    | 100ml |
| 14.09.24 | Charara         | 24.36 | 7.74 | 10.30  | 6.81 | 11   | 67.70  | 44           | <3                 | 10                 | 397  | 32                 | 65   | 1.80  | 5.47   | 1.60   | 2     |
| 14.09.24 | Andora          | 24.86 | 8.48 | 10.30  | 8.07 | 7    | 67.13  | 44           | <3                 | 40                 | 325  | 24                 | 48   | 1.60  | 3.60   | 2.10   | 5     |
| 22.09.24 | Manchinchi      | 27.84 | 8.78 | 10.70  | 8.41 | 1    | 66.22  | 40           | <3                 | <3                 | 548  | 25                 | 42   | 1.30  | 2.30   | 1.90   | 5     |
| 22.09.24 | Damwall Up      | 27.72 | 8.84 | 10.70  | 8.68 | 1    | 66.21  | 40           | <3                 | 3                  | 297  | 25                 | 64   | 1.00  | 2.52   | 2.20   |       |
| 28.09.24 | Damwall Down    | 27.99 | 8.65 | 10.80  | 7.71 | 2    | 66.43  | 42           | 27                 | 187                | 261  | 34                 | 47   | 1.10  | 3.70   |        | <1    |
| 22.09.24 | B 51 0.5m       | 26.96 | 8.85 | 10.90  | 8.87 | 2    | 65.71  | 42           | <3                 | <3                 | 339  | 32                 | 35   | 1.20  | 2.50   | 1.90   | <1    |
|          | B 51 10m        | 24.78 | 8.80 | 9.90   | 9.20 | 2    | 64.71  | 41           | 19                 | <3                 | 283  | 21                 | 27   | 1.00  |        |        |       |
|          | B 51 20m        | 23.67 | 7.47 | 9.70   | 8.81 | <1   | 64.50  | 40           | <3                 | 67                 | 320  | 34                 | 49   | 1.00  |        |        |       |
|          | B 51 30m        | 23.74 | 7.48 | 9.70   | 5.89 | <1   | 64.62  | 38           | <3                 | 60                 | 380  | 28                 | 57   | 0.80  |        |        |       |
|          | B 51 50m        | 24.71 | 7.31 | 9.80   | 5.28 | 1    | 64.30  | 41           | <3                 | 76                 | 407  | 38                 | 72   | 0.90  |        |        |       |
| 14.09.24 | Sanyati 0.5m    | 25.26 | 7.83 | 10.30  | 7.01 | 3    | 66.60  | 41           | <3                 | 52                 | 379  | 24                 | 35   | 1.40  | 3.10   | 2.50   | <1    |
|          | Sanyati 10m     | 24.21 | 7.74 | 10.00  | 6.70 | 3    | 60.15  | 41           | <3                 | 27                 | 312  | 46                 | 61   | 1.40  |        |        |       |
|          | Sanyati 20m     | 23.80 | 7.50 | 10.00  | 5.83 | 2    | 69.20  | 45           | <3                 | 55                 | 287  | 25                 | 50   | 1.00  |        |        |       |
|          | Sanyati 30m     | 23.57 | 7.26 | 10.10  | 3.21 | 3    | 67.18  | 45           | 6                  | 79                 | 321  | 27                 | 38   | 0.90  |        |        |       |
|          | Sanyati 50m     | 25.11 | 7.32 | 10.60  | 4.94 | 17   | 68.90  | 45           | 3                  | 84                 | 331  | 21                 | 53   | 1.00  |        |        |       |
| 14.09.24 | Sanyati Further | 24.85 | 7.46 | 11.00  | 4.60 | 7    | 72.00  | 50           | <3                 | 9                  | 317  | 42                 | 47   | 1.50  | 5.32   | 1.50   |       |
| 14.09.24 | Nyaodza         | 24.83 | 7.82 | 10.30  | 7.34 | 8    | 67.10  | 43           | <3                 | 29                 | 338  | 19                 | 57   | 1.10  | 5.14   | 1.40   | 1     |
| 14.09.24 | Gatchegatche    | 24.86 | 7.41 | 11.50  | 5.72 | 8    | 74.70  | 48           | <3                 | 15                 | 520  | 35                 | 70   | 1.00  | 9.84   | 1.70   | <1    |
| 14.09.24 | ULKRS           | 24.41 | 8.15 | 10.80  | 7.36 | 21   | 70.85  | 48           | <3                 | 182                | 507  | 56                 | 83   | 2.10  | 8.90   | 1.70   | 5     |
| 14.09.24 | Croc Farm       | 24.55 | 8.18 | 10.10  | 7.48 | 9    | 66.40  | 46           | <3                 | 3                  | 465  | 31                 | 65   | 0.80  | 8.80   | 1.70   | 33    |
| 29.09.24 | Chirundu        | 26.77 | 7.84 | 10.70  | 7.38 | 6    | 67.50  | 41           | 18                 | 26                 | 413  | 18                 | 57   | 0.80  | 1.80   |        | 27    |
| 30.09.24 | VIcfalls        | 27.34 | 7.97 | 12.60  | 7.47 | 4    | 78.30  | 50           | 3                  | 28                 | 289  | 39                 | 55   | 2.30  | 2.52   |        |       |
| 30.09.24 | ZESA Pump       | 27.55 | 8.15 | 12.90  | 7.93 | 1    | 79.72  | 49           | <3                 | 52                 | 177  | 39                 | 36   | 2.00  | 2.90   |        |       |
| 30.09.24 | Deka            | 29.32 | 7.85 | 201.70 | 7.86 | 10   | 1211.9 | 106          | 10                 | 100                | 433  | 32                 | 60   | 50.60 | 5.82   |        |       |
| 20.09.24 | Zongwe/Kanzinze | 26.20 | 7.72 | 32.40  | 6.76 | 19   | 205.80 | 84           | <3                 | <3                 | 513  | 47                 | 92   | 0.20  | 9.60   |        |       |
|          | Kalomo          |       |      |        |      |      |        |              | Little             | or no flow         |      |                    |      |       |        |        |       |
|          | Gwayi           | ]     |      |        |      |      |        |              |                    |                    |      |                    |      |       |        |        |       |
|          | Sikalamba       | ]     |      |        |      |      |        |              |                    |                    |      |                    |      |       |        |        |       |

#### OCTOBER 2024

| DATE      | STATION         | Tomp  | nH   | EC     | DO   | тее  | TDO    | T Alkolinity | NO- N  | NO-N       | TN   | NH- N    | тр   | CI-   | Total  | Pacchi | EC   |
|-----------|-----------------|-------|------|--------|------|------|--------|--------------|--------|------------|------|----------|------|-------|--------|--------|------|
| DATE      | STATION         | remp  | рп   | EC     | 00   | 133  | 103    | T.Alkalinity | NO2-N  | NO3-N      | 115  | INF13=IN | 115  |       | Oblasa | Dials  | MDN/ |
|           |                 | 00    |      | ms/m   | mg/i | mg/i | mg/i   | mg/ras       | µg/i   | µg/i       | µg/i | µg/i     | µg/i | mg/i  | Chioro | DISK   | MPN/ |
|           |                 |       |      |        |      |      |        | CaCO3        |        |            |      |          |      |       | µg/L   | (m)    | TUUM |
| 14.10.24  | Charara         | 24.36 | 7.74 | 10.30  | 6.81 | 11   | 67.70  | 44           | <3     | 10         | 397  | 32       | 65   | 1.80  | 5.47   | 1.60   | 2    |
| 14.10.24  | Andora          | 24.86 | 8.48 | 10.30  | 8.07 | 7    | 67.13  | 44           | <3     | 40         | 325  | 24       | 48   | 1.60  | 3.60   | 2.10   | 5    |
| 22.10.24  | Manchinchi      | 27.84 | 8.78 | 10.70  | 8.41 | 1    | 66.22  | 40           | <3     | <3         | 548  | 25       | 42   | 1.30  | 2.30   | 1.90   | 5    |
| 22.10.24  | Damwall Up      | 27.72 | 8.84 | 10.70  | 8.68 | 1    | 66.21  | 40           | <3     | 3          | 297  | 25       | 64   | 1.00  | 2.52   | 2.20   |      |
| 28.10.24  | Damwall Down    | 27.99 | 8.65 | 10.80  | 7.71 | 2    | 66.43  | 42           | 27     | 187        | 261  | 34       | 47   | 1.10  | 3.70   |        | <1   |
| 22.10.24  | B 51 0.5m       | 26.96 | 8.85 | 10.90  | 8.87 | 2    | 65.71  | 42           | <3     | <3         | 339  | 32       | 35   | 1.20  | 2.50   | 1.90   | <1   |
|           | B 51 50m        | 24.71 | 7.31 | 9.80   | 5.28 | 1    | 64.30  | 41           | <3     | 76         | 407  | 38       | 72   | 0.90  |        |        |      |
| 14.10.24  | Sanyati 0.5m    | 25.26 | 7.83 | 10.30  | 7.01 | 3    | 66.60  | 41           | <3     | 52         | 379  | 24       | 35   | 1.40  | 3.10   | 2.50   | <1   |
|           | Sanyati 50m     | 25.11 | 7.32 | 10.60  | 4.94 | 17   | 68.90  | 45           | 3      | 84         | 331  | 21       | 53   | 1.00  |        |        |      |
| 14.10.24  | Sanyati Further | 24.85 | 7.46 | 11.00  | 4.60 | 7    | 72.00  | 50           | <3     | 9          | 317  | 42       | 47   | 1.50  | 5.32   | 1.50   |      |
| 14.10.24  | Nyaodza         | 24.83 | 7.82 | 10.30  | 7.34 | 8    | 67.10  | 43           | <3     | 29         | 338  | 19       | 57   | 1.10  | 5.14   | 1.40   | 1    |
| 14.10.24  | Gatchegatche    | 24.86 | 7.41 | 11.50  | 5.72 | 8    | 74.70  | 48           | <3     | 15         | 520  | 35       | 70   | 1.00  | 9.84   | 1.70   | <1   |
| 14.10.24  | ULKRS           | 24.41 | 8.15 | 10.80  | 7.36 | 21   | 70.85  | 48           | <3     | 182        | 507  | 56       | 83   | 2.10  | 8.90   | 1.70   | 5    |
| 14.10.24  | Croc Farm       | 24.55 | 8.18 | 10.10  | 7.48 | 9    | 66.40  | 46           | <3     | 3          | 465  | 31       | 65   | 0.80  | 8.80   | 1.70   | 33   |
| 29.010.24 | Chirundu        | 26.77 | 7.84 | 10.70  | 7.38 | 6    | 67.50  | 41           | 18     | 26         | 413  | 18       | 57   | 0.80  | 1.80   |        | 27   |
| 30.10.24  | VIcfalls        | 27.34 | 7.97 | 12.60  | 7.47 | 4    | 78.30  | 50           | 3      | 28         | 289  | 39       | 55   | 2.30  | 2.52   |        |      |
| 30.10.24  | ZESA Pump       | 27.55 | 8.15 | 12.90  | 7.93 | 1    | 79.72  | 49           | <3     | 52         | 177  | 39       | 36   | 2.00  | 2.90   |        |      |
| 30.10.24  | Deka            | 29.32 | 7.85 | 201.70 | 7.86 | 10   | 1211.9 | 106          | 10     | 100        | 433  | 32       | 60   | 50.60 | 5.82   |        |      |
| 20.10.24  | Zongwe/Kanzinze | 26.20 | 7.72 | 32.40  | 6.76 | 19   | 205.80 | 84           | <3     | <3         | 513  | 47       | 92   | 0.20  | 9.60   |        |      |
|           | Kalomo          |       |      |        |      |      |        |              | Little | or no flow |      |          |      |       |        |        |      |
|           | Gwayi           |       |      |        |      |      |        |              |        |            |      |          |      |       |        |        |      |
|           | Sikalamba       | 1     |      |        |      |      |        |              |        |            |      |          |      |       |        |        |      |

August- October results 2024

It was observed that pollution levels for certain water quality parameters peaked during the high-flow season (January to March 2024). In contrast, water quality significantly improved during the low-flow season (August to October), largely because some tributaries—identified as point sources of pollution—had ceased flowing.

The primary sources of pollution were found to be tributaries such as Deka, Gwayi, and Sanyati on the Zimbabwean side, and Kalomo and Kanzinze on the Zambian side. During the high-flow season, the Deka River exhibited elevated alkalinity levels. Meanwhile, the Gwayi and Sanyati Rivers showed high concentrations of Total Suspended Solids (TSS), Total Nitrogen (TN), and Dissolved Oxygen (DO), largely due to ongoing gold panning activities along these tributaries.

Among the parameters of concern, Total Suspended Solids, Total Nitrogen, Alkalinity, and Dissolved Oxygen were consistently highlighted as critical indicators of water quality deterioration in the basin.

# **KEY FINDINGS AND RESULTS**















### **DISCUSSION**

### **Seasonal Characteristics of Pollution**

The data obtained using the FIAlab test, as presented in the figure, highlights seasonal trends in pollution levels. The results clearly indicate that October, which falls within the low flow season, is characterized by very safe water quality based on the ten parameters assessed in this study.

When comparing the 16 sampled locations, it was found that tributaries discharging into Lake Kariba and the Zambezi River contributed the most to water quality degradation. Field results from locations such as the Gwayi River, Kariba at Sanyati-Further, Kalomo River, and Deka River showed higher pollution levels, suggesting that these tributaries are key sources of contaminants.

The data further reveals that water quality deteriorates during the high - flow season (January to March), reaching its worst levels due to increased surface runoff that carries pollutants from inland areas, particularly from human settlements and agricultural lands. As the low - flow season progresses, water quality gradually improves, reaching optimal conditions in the low- flow season (August to October), before declining again with the onset of the next rainy season. This cyclical pattern suggests that the start of the dry season in October marks a period of pollutant settling and reduced runoff, leading to cleaner water.

Bacteriological analysis further supports these findings. The method proved effective for rapidly detecting fecal contamination and identifying pollution sources, particularly in tributaries such as the Gwayi, Kalomo, and Deka Rivers. The presence of fecal coliforms showed clear seasonal variation, with higher Most Probable Number (MPN) values observed in February—during the peak of the rainy season. This spike is linked to increased surface runoff transporting contaminants into the lake.

In contrast, significantly lower MPN values were recorded in October, confirming improved water conditions during the dry season. This improvement is likely due to minimal runoff and greater dilution capacity from elevated water levels in Lake Kariba.

These results underscore the significant influence of seasonal hydrological dynamics on both chemical and microbial water quality. They highlight the importance of implementing targeted water safety and pollution control measures during the rainy season to protect public health and the integrity of aquatic ecosystems in the Lake Kariba and Zambezi River system.

### **CONCLUSION**

The findings of this study reveal that the water quality deterioration along Lake Kariba, Zambezi River and its tributaries is particularly in a critical condition during the rainy reason. In February we had less pollution, and we had more water pollution in September and hence more care is particularly needed when using the water from the watershed during these seasons. Furthermore, using principal factor analysis, the ten parameters yielded four factors and the most predominant (as evidenced from factor loadings) factors controlling water quality along the watershed are: factor 1 dominated by turbidity, factor 2 dominated by TDS, factor 3 dominated by DO and factor 4 by temperature. These parameters were found to be very momentous, as reviewed by factor loadings, in explaining water quality across the seasons. By far the biggest problems (frequently exceeding their PVs) were caused by turbidity followed by alkalinity as CaCO3, then TSS and to a less extent by total phosphorus. It is also important to note that the tributaries feeding Lake Kariba are the most polluted. Furthermore, the watershed waters (after traversing between Zambia and Zimbabwe) flows into the neighboring Mozambique and the results show that the water exiting Lake Kariba is generally free of any significant pollution, across all seasons, probably a consequence of the diluting effect of the vast water resources of the Lake. However, it is vitally important to alert the users of the water by the banks and further downstream of some of the hazards found in the water with changing seasons and especially during the late rainy season.

# **ACKNOWLEDGEMENT**

The authors would like to earnestly express their gratitude to Zambezi River Authority for providing the raw river data on the Zambezi River, Kariba dam and its tributaries.

### REFERENCES

Ahluwalia, V. K., and Malhotra, S. (2007), Environmental Science. Boca Raton: CRC press

APECwater. (n.d.), What is Alkalinity? Water Contamination.

Baird, C., and Cann, M. (2008), Environmental Chemistry (4th ed.). New York: W. H. Freeman and Company.

Chiou, et al., (2000), Sorption of Selected Organic Compounds from Water to a Peat Soil and Its Humic-Acid and Humin Fractions: Potential Sources of the Sorption Nonlinearity. Environmental Science & Technology, 34(7), 1254-1258

Dombrowsky, I. (2007), Conflict, Cooperation and Institutions in International Water Management: An Economic Analysis. Cheltenham, UK Northampton, MA: E. Elgar.

Drolc et al., (2002), Estimation of sources of total phosphorus in a river basin and assessment of alternatives for river pollution reduction. Environment International, 28(5), 393-400.

Zambezi river pollution warning. (2007), Healthcare Today. http://www.healthcare-today.co.uk/news/zambezi-river-pollution-warning/1582/ [Accessed 10 June 2012

ZambiaNationalTouristBoard.(n.d.),TheZambeziRiver.http://www.zambiatourism.com/travel/places/zambezir.htm[Accessed 4 June 2012]

Waterwatch Australia. (2002), Waterwatch Australia national technical manual: module 4 - physical and chemical parameters: methods - electrical conductivity. Canberra: Environment Australia.

Water for Life and Greening Australia (n.d.), Community Water Monitoring – Top end field manual. http://www.greeningaustralia. org.au/uploads/General%20pdfs/NT\_Community\_Water\_Monitoring.pdf [Accessed 4 June 2012].