**A one line description of the data:** Mashu WWTW Field Data Collection for Wastewater Characterization.

**A one paragraph, three sentence description of the data:** From 17/09/24 to 23/09/2024, Dr. Lungi conducted a comprehensive analysis of the wastewater treatment plant, collecting data from each sampling point. The measured parameters included pH, Total Dissolved Solids (TDS) in ppm, conductivity in μS, and temperature in °F. This detailed dataset provides critical insights into the chemical and physical properties of the wastewater at various stages of treatment.

**Field Data Collection for Wastewater Characterization**

**Table 2. Sampling Site: Conventional Mashu WWTW, Durban, South Africa**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Date & Time of sampling** | **Measured Parameters** | **Inlet** | **Secondary Effluent** | **Return Activated Sludge** | **Primary Settler Tank** | **Outlet** |
| **17/09/24** | **Ph** | 6.42 | 6.08 | 5.65 | 5.15 | 6.07 |
| 09:40 – 10:30 | **TDS/ ppm** | 355 | 343 | 372 | 484 | 342 |
|  | **Conductivity /μS** | 715 | 685 | 667 | 972 | 686 |
|  | **Temp/ ºF** | 72.0 | 70.6 | 69.5 | 70.6 | 72.8 |
| **23/09/2024** | **pH** | 6.08 | 5.78 | 5.60 | 5.38 | 6.15 |
| 10:00 – 11:00 | **TDS/ ppm** | 350 | 328 | 315 | 392 | 282 |
|  | **Conductivity /μS** | 705 | 660 | 631 | 782 | 564 |
|  | **Temp/ ºF** | 71.5 | 70.5 | 69.8 | 71.3 | 73.7 |