

# AI-Powered River Pollution Monitoring Dashboard

Using Machine Learning and Image Annotations to Monitor Ganga, Sangam, and Yamuna

59.70K

Count of River

60K

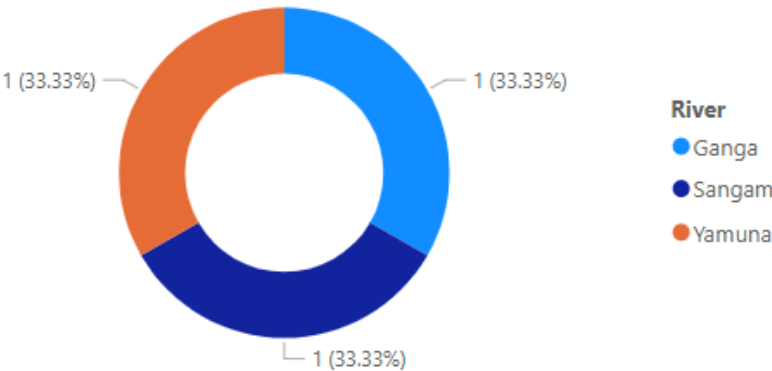
SensorCount

18

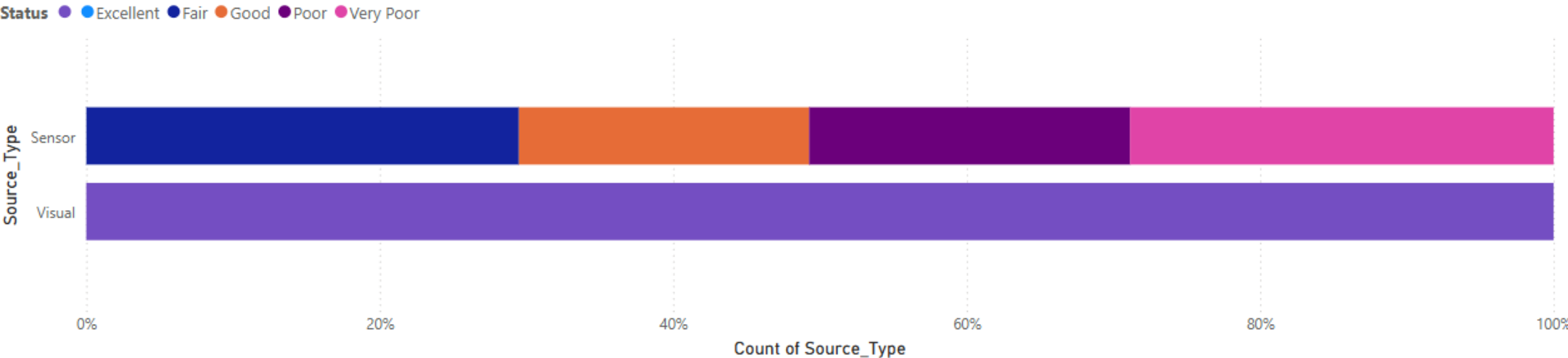
VisualCount



Count of River by River

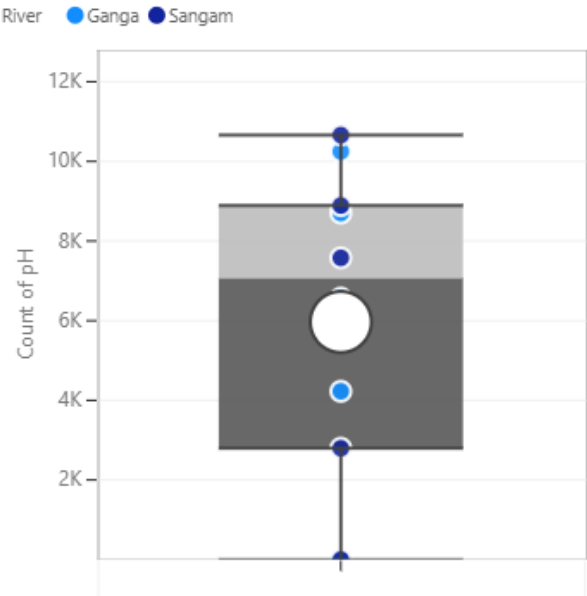


Count of Source\_Type by Source\_Type and Status

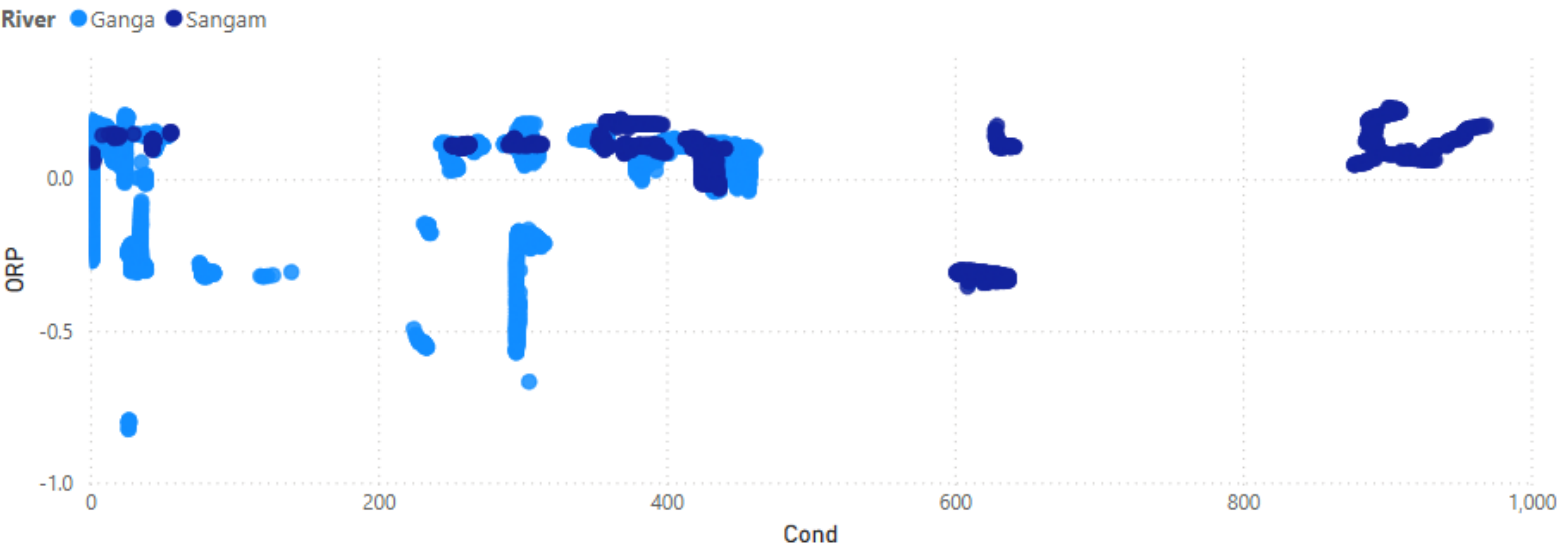


# Sensor-Based Water Quality Analysis – Ganga & Sangam

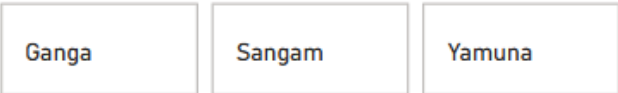
Count of pH by Status and River



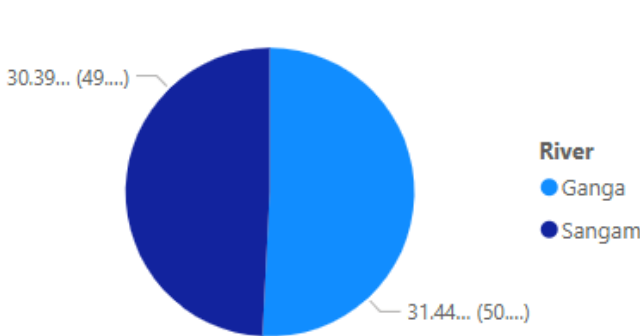
River, Cond and ORP



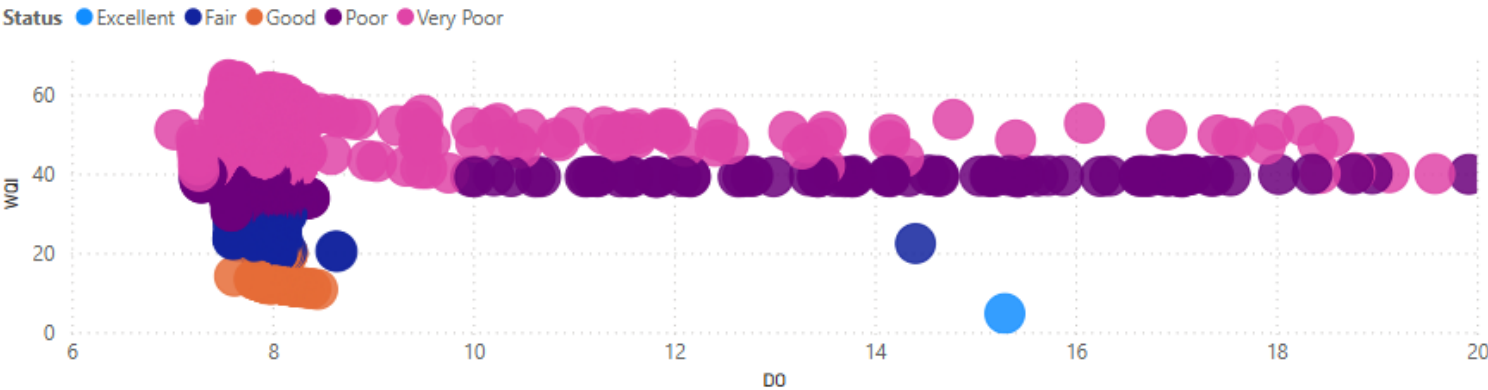
River



Average of WQI by River



Count of Temp by Status, DO and WQI

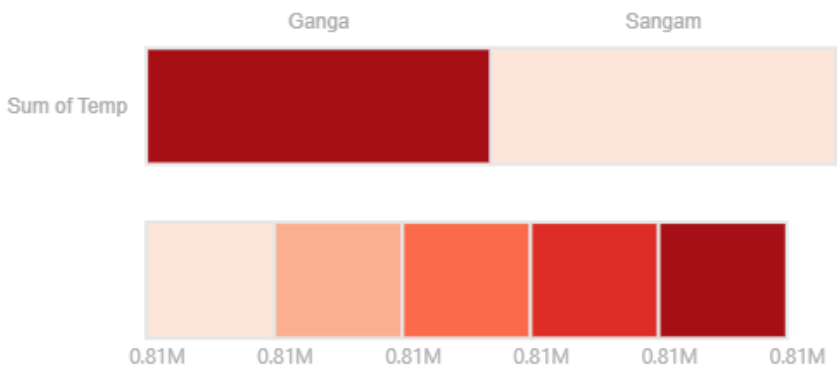


# Visual Annotation Analysis – Yamuna River

Average of pH and Count of River



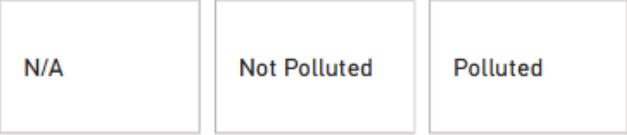
Sum of Temp by River



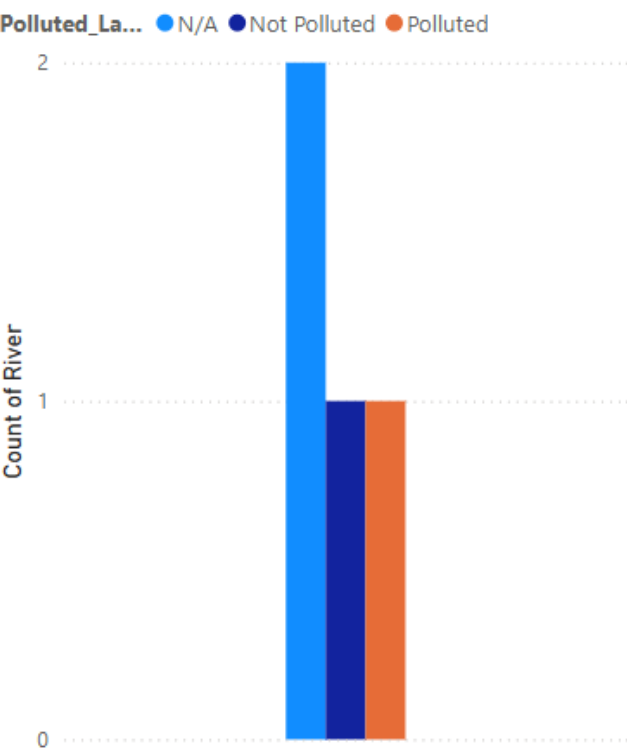
River



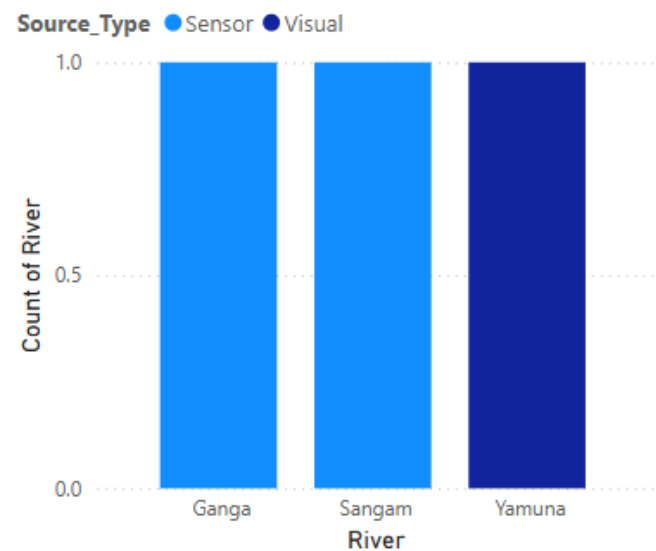
Polluted\_Label



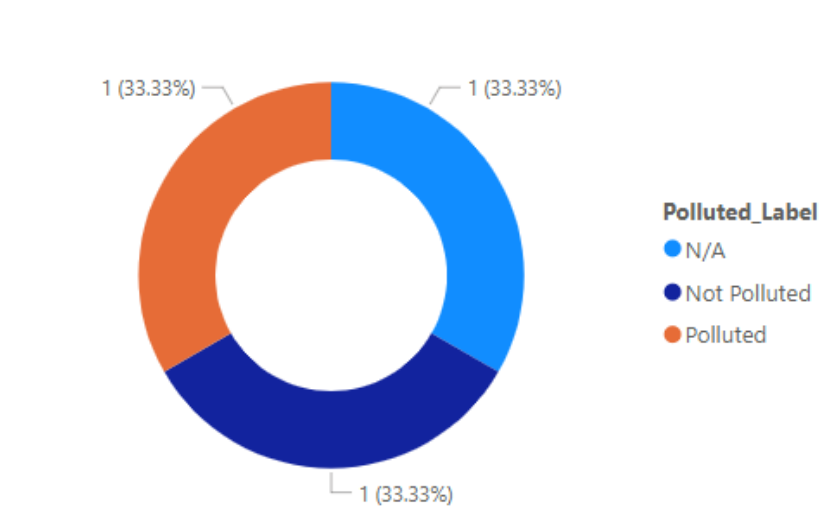
Count of River by Polluted\_Label



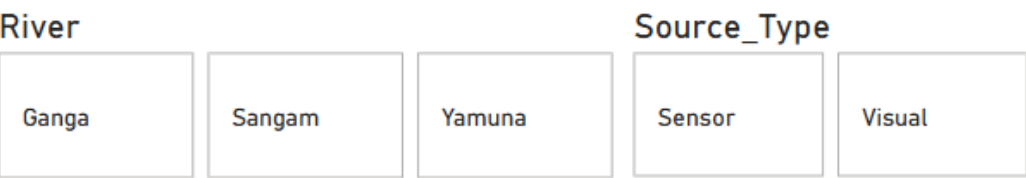
Count of River by River and Source\_Type



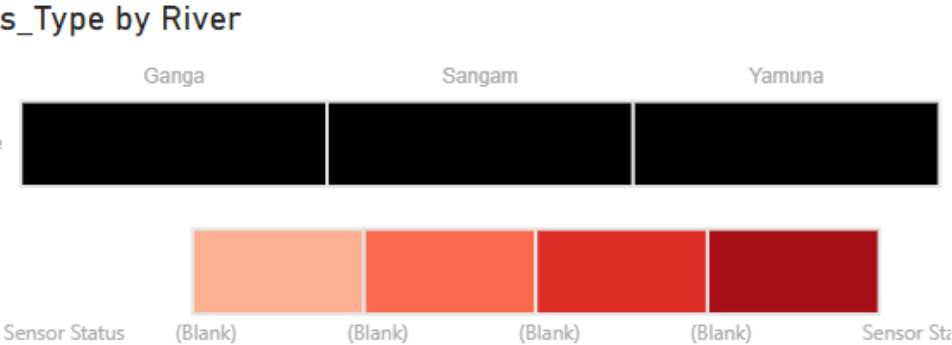
Count of Polluted\_Label by Polluted\_Label



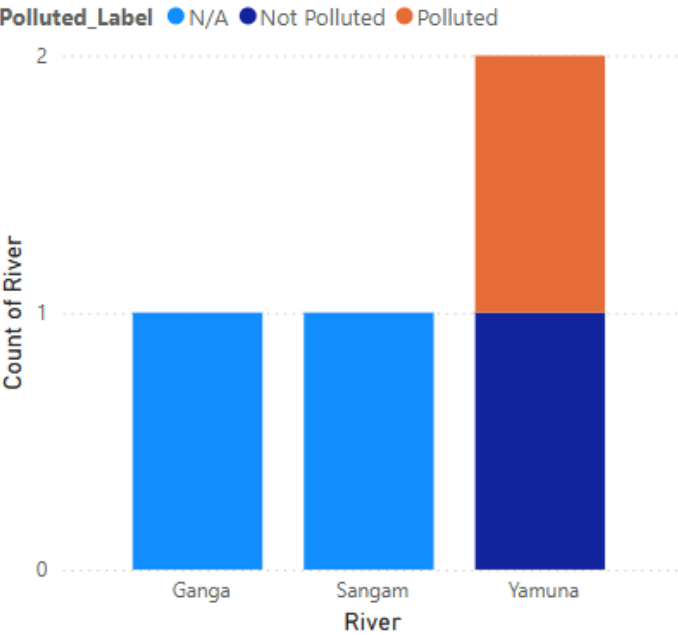
# Combined Pollution Insights – Sensor vs Visual Analysis



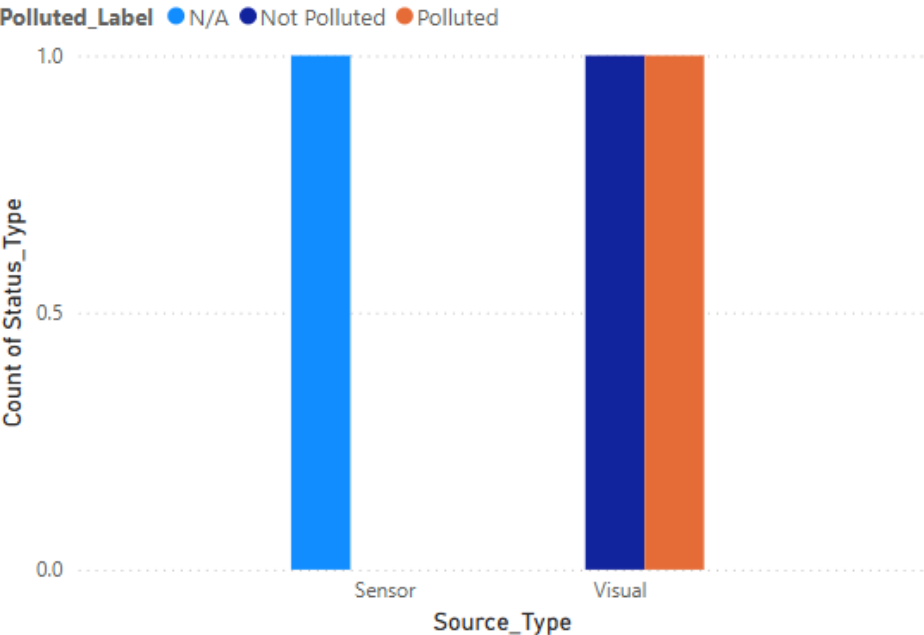
Status_Type	N/A	Not Polluted	Polluted	Total
Sensor Status	59677	10	8	59695
Total	59677	10	8	59695



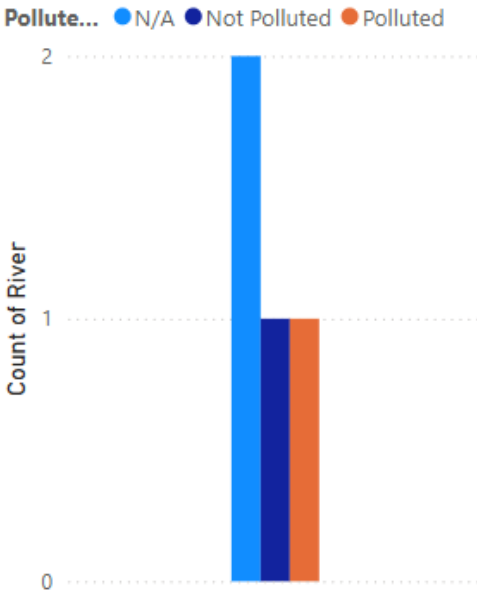
Count of River by River and Polluted\_Label



Count of Status\_Type by Source\_Type and Polluted\_Label



Count of River by Polluted\_Label



River ▾	Source_Type ▾	DO ▾	pH ▾	ORP ▾	Temp ▾	Cond ▾	WQI ▾	Status ▾	Polluted_Label ▾	Status_Type ▾
Sangam	Sensor	9.49421203775998	13.7659335965253	0.14840198	17.830261	12.954404	54.8119876071068	Very Poor	N/A	Sensor Status
Sangam	Sensor	9.50040623311116	13.3375347750773	0.1445036	17.798553	8.547796	51.4880504389546	Very Poor	N/A	Sensor Status
Sangam	Sensor	9.48744774381165	13.1984631679141	0.13437152	17.86493	16.847918	50.4207017999509	Very Poor	N/A	Sensor Status
Sangam	Sensor	9.48612103633256	12.7321161428046	0.14270854	17.871735	16.884756	46.901646035597	Very Poor	N/A	Sensor Status
Sangam	Sensor	9.48521095853562	13.2844667520691	0.13752413	17.876404	16.987082	51.1046547808416	Very Poor	N/A	Sensor Status
Sangam	Sensor	18.413895	13.107571620515	0.1368258	17.872925	20.01182	47.7042493239018	Very Poor	N/A	Sensor Status
Sangam	Sensor	17.560917	13.2727341777079	0.1375587	17.889435	16.825544	48.9722394938505	Very Poor	N/A	Sensor Status
Sangam	Sensor	17.419922	13.3805912182792	0.1378684	17.892822	16.851637	49.799334605665	Very Poor	N/A	Sensor Status
Sangam	Sensor	17.972828	13.5494269604853	0.13840961	17.894867	17.008675	51.0943410253013	Very Poor	N/A	Sensor Status
Sangam	Sensor	9.48054395114254	13.0497725521605	0.14549327	17.90036	16.815346	49.3697408823009	Very Poor	N/A	Sensor Status
Sangam	Sensor	9.47934358211963	13.2021248604111	0.15039897	17.906525	16.794378	50.5667467560403	Very Poor	N/A	Sensor Status
Sangam	Sensor	16.906841	13.5433787631311	0.13906145	17.901947	16.893757	51.0515481362413	Very Poor	N/A	Sensor Status
Sangam	Sensor	16.089485	13.763604795342	0.13977051	17.91803	16.870562	52.7407504511065	Very Poor	N/A	Sensor Status
Sangam	Sensor	17.893639	13.068315550603	0.14504504	17.868164	21.078703	47.4478301769974	Very Poor	N/A	Sensor Status
Sangam	Sensor	10.478089	12.9352654478944	0.14376736	17.883911	19.73823	46.4227721244829	Very Poor	N/A	Sensor Status
Sangam	Sensor	18.264702	13.677879	0.1488905	17.734894	30.233757	52.1332711870277	Very Poor	N/A	Sensor Status
Sangam	Sensor	18.571953	13.308844	0.1546197	18.148315	56.188896	49.3393141524943	Very Poor	N/A	Sensor Status
Sangam	Sensor	17.599611	13.232145	0.15548062	17.74704	55.421597	48.7569440810657	Very Poor	N/A	Sensor Status
Sangam	Sensor	11.472302	13.474664	0.15571022	18.152557	55.843636	50.6141868361678	Very Poor	N/A	Sensor Status
Sangam	Sensor	9.42847816151953	13.517412	0.15609312	18.169067	56.188408	53.2113349508862	Very Poor	N/A	Sensor Status
Sangam	Sensor	7.8851333	13.56478	0.15524364	18.17035	56.13059	59.6936787403628	Very Poor	N/A	Sensor Status
Sangam	Sensor	9.981016	13.61183	0.15442467	18.214691	56.250393	51.7323730904195	Very Poor	N/A	Sensor Status
Sangam	Sensor	10.187486	13.64016	0.15337634	18.355286	56.53426	51.8682349280045	Very Poor	N/A	Sensor Status
Sangam	Sensor	10.544628	13.560082	0.15329051	18.253143	56.411568	51.2549332876984	Very Poor	N/A	Sensor Status
Sangam	Sensor	10.990856	13.624706	0.15211177	18.380585	56.536198	51.7431900376984	Very Poor	N/A	Sensor Status
Sangam	Sensor	11.895802	13.585626	0.15155673	18.33081	56.429455	51.4411349764739	Very Poor	N/A	Sensor Status
Sangam	Sensor	11.60454	13.578875	0.15112495	18.452179	56.255924	51.3871560530045	Very Poor	N/A	Sensor Status
Sangam	Sensor	11.950031	13.565178	0.15069938	18.472809	56.22306	51.280052234127	Very Poor	N/A	Sensor Status
Sangam	Sensor	12.435467	13.573656	0.15014124	18.461151	56.210205	51.3419448514739	Very Poor	N/A	Sensor Status
Sangam	Sensor	13.516116	13.479082	0.14957976	18.306274	55.624557	50.6151563106576	Very Poor	N/A	Sensor Status