

Appendix G: Data Summary Reports

Houston-Galveston Area Council

Clean Rivers Program Data Summary

Data Information

Data Source: HG (source 1); HG (source 2)

Date Submitted: 02/22/2023

Tag ID Range: I051350 to I051375

Date Range: 09/20/2022 to 10/13/2022

Comments

1. This report addresses ambient and 24-hour dissolved oxygen monitoring data, all of which are attached to the data submission email.
 - a. During FY22-23, 24-HR DO monitoring includes Stations 11405, 16475, 16675, and 16676.
 - i. UI will be conducting the 24-HR DO monitoring at 11405 (Armand Bayou at Fairmont Pkwy) starting Jan 2023.
 - b. During Quarter 4, Station 18192 was considered a No Flow site with pools, but the accessible pool was not large enough to qualify according to SWQM guidelines. Limited results are included for this event.
 - c. Due to construction activities, Stations 11145 and 17937 were not sampled during this period.
2. Summary statistics for 24-hour DO monitoring events are calculated from raw data downloaded from the datasonde and are assumed to be correct if the datasonde has passed post-calibration and the data series shows the sonde was always in the water. Outliers flagged by the SWQMIS validation algorithm are reviewed and accepted by H-GAC. There are four (4) 24-hour DO events in this dataset.
3. The CRP QAPP specifies a limit of quantitation of 1 MPN/100 mL for *E.coli* (31699), achievable when 100 mL of sample is analyzed. Eastex Laboratory does not analyze 100 mL aliquots; the effective LOQ is 10 MPN/100 mL from 1:10 dilutions.

4. Water color (89969) and water odor (89971) are only reported as “Other” (“6” and “7” respectively) if H-GAC has confirmed that a description is included in the “Comments” field.
 - a. No results are identified as “other” in this dataset.
5. Total Kjeldahl nitrogen (TKN) is analyzed at 12 stations on a quarterly basis. There are 10 results:
 - a. TKN was not analyzed from Stations 11145 and 17937 (See Comment 1c).
6. There are 21 instantaneous flow (00061) and corresponding flow method (89835) results in the dataset.
7. H-GAC made the following changes in the dataset:
 - a. Changed incorrect “>” to “<” for 3 flow measurements (total of 4 measurements of “<0.01” cfs).
8. The following outliers were verified by H-GAC and/or Eastex Laboratory staff:
 - a. Instantaneous Flow (00061): 3 results were less than the SWQMIS minimum of 0.01 (confirmed with Flow Severity =1)
 - b. Nitrate (00620): 1 result was greater than the SWQMIS maximum of 11.61 mg/L
 - c. Total Phosphorus (00665): 2 results were greater than the SWQMIS maximum of 3.09 mg/L
 - d. Total Depth (82903): 3 results were less than the SWQMIS minimum of 0.1 m
 - e. Percent Pool Coverage (89870): 1 result was less than the SWQMIS minimum of 10%.

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Date 02/22/2023