

# BOD5 LOG

ANALYST: Rubina

SUPERVISOR: Iwona

Analysis Date: 06/13/2024

QC BATCH ID: LB131228

BOD Water: WP108450

Starch: W2977

Sulfuric acid, 1N: WP105744

POLYSEED: WP108452

GGA: WP108451

Chlorine Strips: W2965

pH Strips: W3056

MANGANOUS SULFATE SOLUTION: W3103

Alkaline Iodide Azide: W3109

Sodium Thiosulfate, 0.025N: W3105

NaOH, 1N: WP106529

IncubatorID: INCUBATOR#3

GuageID: 0511064

Zero DO: WP108093

| Lab SampleID | Client ID | Bottle No. | VOL. ML | Initial Reading (ML) | Final Reading (ML) | Difference | Average |
|--------------|-----------|------------|---------|----------------------|--------------------|------------|---------|
| WINKLER 1    | WINKLER 1 | 1          | 300     | 0.0                  | 9.4                | 9.4        | 9.4     |
| WINKLER 2    | WINKLER 2 | 2          | 300     | 9.4                  | 18.8               | 9.4        | 9.4     |

Meter Calibration1: 9.49

Zero DO Reading1: 0.14 mg/L (<=0.2 Criteria)

Barometric Pressure1: 765 mmHg

DO Meter BOD fluid reading for winkler comparison: 9.48

## After Incubation

Meter Calibration2: 9.42

Zero DO Reading2: 0.14 mg/L (<=0.2 Criteria)

Barometric Pressure2: 771 mmHg



QC BATCH ID: LB131228

INCUBATOR TEMP IN(C): 20.0

INCUBATOR TEMP OUT(C): 20.0

TIME IN: 17:20

TIME OUT: 13:00

DATE IN: 06/13/2024

DATE OUT: 06/18/2024

| Lab SampleID | Bottle No. | Check CL | Initial PH | Final PH | Temp °C | Sam Vol. (mL) | D.O.1 Initial | D.O.2 Final | Depletion | BOD Result (mg/L) | Avg Result (mg/L) | Comment     |
|--------------|------------|----------|------------|----------|---------|---------------|---------------|-------------|-----------|-------------------|-------------------|-------------|
| LB131228BL   | 1          | No       | 6.69       | N/A      | 20.40   | 300           | 9.47          | 9.45        | 0.02      | 0.02              | 0.02              |             |
| POLYSEED     | 1          |          |            |          |         | 10            | 9.45          | 6.45        | 3         | 0.6               | 0.6               |             |
| POLYSEED     | 2          |          |            |          |         | 15            | 9.42          | 5.22        | 4.2       | 0.56              |                   |             |
| POLYSEED     | 3          |          |            |          |         | 20            | 9.40          | 2.90        | 6.5       | 0.65              |                   |             |
| GGA          | 1          |          |            |          |         | 6             | 9.44          | 5.02        | 4.42      | 191               | 194.33            |             |
| GGA          | 2          |          |            |          |         | 6             | 9.38          | 4.92        | 4.46      | 193               |                   |             |
| GGA          | 3          |          |            |          |         | 6             | 9.43          | 4.85        | 4.58      | 199               |                   |             |
| P2863-02     | 1          | No       | 6.39       | 6.79     | 20.40   | 0.5           | 9.43          | 7.03        | 2.4       | 1080              | 942.13            | pH Adjusted |
| P2863-02     | 2          |          |            |          |         | 1             | 9.40          | 5.31        | 4.09      | 1047              |                   |             |
| P2863-02     | 3          |          |            |          |         | 2             | 9.37          | 2.38        | 6.99      | 958.5             |                   |             |
| P2863-02     | 4          |          |            |          |         | 3             | 9.16          | 1.73        | 7.43      | 683               |                   |             |
| P2863-02DUP  | 1          | No       | 6.39       | 6.79     | 20.40   | 0.5           | 9.44          | 7.29        | 2.15      | 930               | 919.38            | pH Adjusted |
| P2863-02DUP  | 2          |          |            |          |         | 1             | 9.38          | 5.06        | 4.32      | 1116              |                   |             |
| P2863-02DUP  | 3          |          |            |          |         | 2             | 9.35          | 2.44        | 6.91      | 946.5             |                   |             |
| P2863-02DUP  | 4          |          |            |          |         | 3             | 9.15          | 1.70        | 7.45      | 685               |                   |             |
| P2886-02     | 1          | No       | 6.51       | N/A      | 20.30   | 0.5           | 9.40          | 7.26        | 2.14      | 924               | 567.38            |             |
| P2886-02     | 2          |          |            |          |         | 1             | 9.36          | 7.02        | 2.34      | 522               |                   |             |
| P2886-02     | 3          |          |            |          |         | 2             | 9.24          | 5.79        | 3.45      | 427.5             |                   |             |
| P2886-02     | 4          |          |            |          |         | 3             | 9.11          | 4.55        | 4.56      | 396               |                   |             |

NOTE: 2ml POLYSEED added to GGA and all the Samples, but not in Blank.

NOTE: 0.16 g Nitrification Inhibitor added to GGA and all the Samples, but not in Blank.

# WORKLIST(Hardcopy Internal Chain)

61312287

WorkList Name : bod-6-13

WorkList ID : 181055

Department : Wet-Chemistry

Date : 06-13-2024 14:42:16

| Sample     | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method   |
|------------|-----------------|--------|------|--------------|----------|-----------------------------|--------------|----------|
| P2863-02 A | COMP            | Water  | BOD5 | Cool 4 deg C | ARAM01   | K11                         | 06/12/2024   | SM5210 B |
| P2886-02 B | EFF-VWW         | Water  | BOD5 | Cool 4 deg C | ARDM01   | M21                         | 06/13/2024   | SM5210 B |

Date/Time 06/13/2024 15:30  
 Raw Sample Received by: RM CWG  
 Raw Sample Relinquished by: RM CWG

Date/Time 06/13/2024 17:30  
 Raw Sample Received by: RM CWG  
 Raw Sample Relinquished by: RM CWG