

# BOD5 LOG

ANALYST: rubina

SUPERVISOR: Iwona

Analysis Date: 10/16/2024

QC BATCH ID: LB132966

BOD Water: WP110247

MANGANOUS SULFATE SOLUTION: W3103

Starch: W3149

Alkaline Iodide Azide: W3109

Sulfuric acid, 1N: WP108475

Sodium Thiosulfate, 0.025N: W3105

POLYSEED: WP110249

NaOH, 1N: WP108662

GGA: WP110248

IncubatorID: INCUBATOR #3

Chlorine Strips: W2965

GuageID: 0511062

pH Strips: W3104

Zero DO: WP110006

| 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     | 9.2                  | 18.6               | 9.4        | 9.4     |

Meter Calibration1: 8.88

Zero DO Reading1: 0.10 mg/L (<=0.2 Criteria)

Barometric Pressure1: 771 mmHg DO Meter BOD fluid reading for winkler comparison: 9.49

## After Incubation

Meter Calibration2: 9.31

Zero DO Reading2: 0.08 mg/L (<=0.2 Criteria)

Barometric Pressure2: 776 mmHg



QC BATCH ID: LB132966

INCUBATOR TEMP IN(C): 20.1

INCUBATOR TEMP OUT(C): 20.2

TIME IN: 17:10

TIME OUT: 12:00

DATE IN: 10/16/2024

DATE OUT: 10/21/2024

| 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 |
|--------------|------------|----------|------------|----------|---------|---------------|---------------|-------------|-----------|-------------------|-------------------|---------|
| LB132966BL   | 1          | No       | 6.79       | N/A      | 20.50   | 300           | 9.48          | 9.46        | 0.02      | 0.02              | 0.02              |         |
| POLYSEED     | 1          |          |            |          |         | 10            | 9.45          | 6.69        | 2.76      | 0.55              | 0.54              |         |
| POLYSEED     | 2          |          |            |          |         | 15            | 9.42          | 5.64        | 3.78      | 0.5               |                   |         |
| POLYSEED     | 3          |          |            |          |         | 20            | 9.40          | 3.69        | 5.71      | 0.57              |                   |         |
| GGA          | 1          |          |            |          |         | 6             | 9.46          | 5.11        | 4.35      | 190.5             | 194.83            |         |
| GGA          | 2          |          |            |          |         | 6             | 9.44          | 5.01        | 4.43      | 194.5             |                   |         |
| GGA          | 3          |          |            |          |         | 6             | 9.44          | 4.91        | 4.53      | 199.5             |                   |         |
| P4405-01     | 1          | No       | 7.13       | N/A      | 20.40   | 5             | 9.46          | 8.92        | -         | 0                 |                   |         |
| P4405-01     | 2          |          |            |          |         | 20            | 9.44          | 8.62        | -         | 0                 |                   |         |
| P4405-01     | 3          |          |            |          |         | 50            | 9.42          | 8.69        | -         | 0                 |                   |         |
| P4405-01     | 4          |          |            |          |         | 150           | 9.23          | 8.32        | -         | 0                 |                   |         |
| P4423-02     | 1          | No       | 6.75       | N/A      | 20.00   | 0.5           | 9.23          | 8.88        | -         | 0                 | 303               |         |
| P4423-02     | 2          |          |            |          |         | 1             | 8.99          | 7.42        | -         | 0                 |                   |         |
| P4423-02     | 3          |          |            |          |         | 2             | 8.89          | 7.28        | -         | 0                 |                   |         |
| P4423-02     | 4          |          |            |          |         | 3             | 8.81          | 5.24        | 3.57      | 303               |                   |         |
| P4423-02DUP  | 1          | No       | 6.75       | N/A      | 20.00   | 0.5           | 9.22          | 8.74        | -         | 0                 | 312               |         |
| P4423-02DUP  | 2          |          |            |          |         | 1             | 9.00          | 8.39        | -         | 0                 |                   |         |
| P4423-02DUP  | 3          |          |            |          |         | 2             | 8.90          | 7.19        | -         | 0                 |                   |         |
| P4423-02DUP  | 4          |          |            |          |         | 3             | 8.83          | 5.17        | 3.66      | 312               |                   |         |

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

NOTE (For, CBOD5): 0.16 g Nitrification Inhibitor added to GGA and all the Samples, but not in Blank.

# WORKLIST(Hardcopy Internal Chain)

16132966

WorkList Name : BOD5-10-16

WorkList ID : 184511

Department : Wet-Chemistry

Date : 10-16-2024 12:52:38

| Sample   | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method   |
|----------|-----------------|--------|------|--------------|----------|-----------------------------|--------------|----------|
| P4405-01 | MH-121          | Water  | BOD5 | Cool 4 deg C | PSEG03   | K41                         | 10/15/2024   | SM5210 B |

Date/Time 10/16/2024 15.15  
 Raw Sample Received by: RM CWC  
 Raw Sample Relinquished by: JH W

Date/Time 10/16/2024 17.00  
 Raw Sample Received by: JH CWC  
 Raw Sample Relinquished by: RM CWC

WORKLIST(Hardcopy Internal Chain)

16132966

WorkList Name : bod5-10-24\*

WorkList ID : 184533

Department : Wet-Chemistry

Date : 10-16-2024 16:16:56

| Sample   | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method   |
|----------|-----------------|--------|------|--------------|----------|-----------------------------|--------------|----------|
| P4423-02 | COMP            | Water  | BOD5 | Cool 4 deg C | ARAM01   | K11                         | 10/16/2024   | SM5210 B |

Date/Time 10/16/2024 16:45  
Raw Sample Received by: RM (wg) [Signature]  
Raw Sample Relinquished by: [Signature]

Date/Time 10/16/2024 17:00  
Raw Sample Received by: [Signature]  
Raw Sample Relinquished by: RM (wg) [Signature]