

**BOD5 LOG****ANALYST:** Rubina**SUPERVISOR:** Iwona**Analysis Date:** 12/14/2023**QC BATCH ID:** LB128732**BOD Water:** WP105705**Starch:** W2977**Sulfuric acid, 1N:** WP102923**POLYSEED:** WP105707**GGA:** WP105706**Chlorine Strips:** W2965**pH Strips:** W3056**MANGANOUS SULFATE SOLUTION:** W2913**Alkaline Iodide Azide:** W2914**Sodium Thiosulfate, 0.025N:** W2976**NaOH, 1N:** WP103989**IncubatorID:** INCUBATOR #3**GuageID:** 0511064**Zero DO:** WP105589

| 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: 9.36

Zero DO Reading1: 0.12 mg/L (&lt;=0.2 Criteria)

Barometric Pressure1: 776 mmHg

DO Meter BOD fluid reading for winkler comparison: 9.45

**After Incubation**

Meter Calibration2: 8.95

Zero DO Reading2: 0.14 mg/L (&lt;=0.2 Criteria)

Barometric Pressure2: 765 mmHg



QC BATCH ID: LB128732

INCUBATOR TEMP IN(C): 20.0

INCUBATOR TEMP OUT(C): 20.2

TIME IN: 14:30

TIME OUT: 10:00

DATE IN: 12/14/2023

DATE OUT: 12/19/2023

| 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     |
|--------------|------------|----------|------------|----------|---------|---------------|---------------|-------------|-----------|-------------------|-------------------|-------------|
| LB128732BL   | 1          | No       | 6.80       | N/A      | 20.50   | 300           | 9.44          | 9.42        | 0.02      | 0.02              | 0.02              |             |
| POLYSEED     | 1          |          |            |          |         | 10            | 9.43          | 6.34        | 3.09      | 0.62              | 0.6               |             |
| POLYSEED     | 2          |          |            |          |         | 15            | 9.42          | 4.91        | 4.51      | 0.6               |                   |             |
| POLYSEED     | 3          |          |            |          |         | 20            | 9.38          | 3.67        | 5.71      | 0.57              |                   |             |
| GGA          | 1          |          |            |          |         | 6             | 9.42          | 4.98        | 4.44      | 192               | 201.33            |             |
| GGA          | 2          |          |            |          |         | 6             | 9.40          | 4.70        | 4.7       | 205               |                   |             |
| GGA          | 3          |          |            |          |         | 6             | 9.38          | 4.64        | 4.74      | 207               |                   |             |
| O5820-01     | 1          | No       | 8.40       | 7.32     | 20.00   | 5             | 9.43          | 8.98        | -         | 0                 |                   | pH Adjusted |
| O5820-01     | 2          |          |            |          |         | 20            | 9.40          | 8.76        | -         | 0                 |                   |             |
| O5820-01     | 3          |          |            |          |         | 50            | 9.38          | 8.40        | -         | 0                 |                   |             |
| O5820-01     | 4          |          |            |          |         | 150           | 9.36          | 8.06        | -         | 0                 |                   |             |
| O5822-02     | 1          | No       | 6.59       | N/A      | 20.00   | 0.5           | 9.42          | 7.36        | 2.06      | 876               | 791.63            |             |
| O5822-02     | 2          |          |            |          |         | 1             | 9.21          | 5.62        | 3.59      | 897               |                   |             |
| O5822-02     | 3          |          |            |          |         | 2             | 9.05          | 3.62        | 5.43      | 724.5             |                   |             |
| O5822-02     | 4          |          |            |          |         | 3             | 8.81          | 1.52        | 7.29      | 669               |                   |             |
| O5822-02DUP  | 1          | No       | 6.59       | N/A      | 20.00   | 0.5           | 9.40          | 7.25        | 2.15      | 930               | 809.88            |             |
| O5822-02DUP  | 2          |          |            |          |         | 1             | 9.20          | 5.61        | 3.59      | 897               |                   |             |
| O5822-02DUP  | 3          |          |            |          |         | 2             | 9.03          | 3.50        | 5.53      | 739.5             |                   |             |
| O5822-02DUP  | 4          |          |            |          |         | 3             | 8.82          | 1.49        | 7.33      | 673               |                   |             |

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)

66128732

WorkList Name : bod5-12-14      WorkList ID : 176352      Department : Wet-Chemistry      Date : 12-14-2023 08:17:40

| Sample   | Customer Sample    | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method   |
|----------|--------------------|--------|------|--------------|----------|-----------------------------|--------------|----------|
| O5820-01 | WEEKLY-OUTFALL-002 | Water  | BOD5 | Cool 4 deg C | INFR01   | L11                         | 12/13/2023   | SM5210 B |
| O5822-02 | COMP               | Water  | BOD5 | Cool 4 deg C | ARAM01   | L11                         | 12/13/2023   | SM5210 B |

Date/Time 12/14/2023 13:00  
 Raw Sample Received by: RM CWG  
 Raw Sample Relinquished by: JH CWC

Date/Time 12/14/2023 14:00  
 Raw Sample Received by: JH CWC  
 Raw Sample Relinquished by: RM CWC