

**BOD5 LOG****ANALYST:** Rubina**SUPERVISOR:** Iwona**QC BATCH ID:** LB128247**Analysis Date:** 11/09/2023**BOD Water:** WP105227**MANGANOUS SULFATE SOLUTION:** W2913**Starch:** W2977**Alkaline Iodide Azide:** W2914**Sulfuric acid, 1N:** WP102923**Sodium Thiosulfate, 0.025N:** W2976**POLYSEED:** WP105229**NaOH, 1N:** WP103989**GGA:** WP105228**IncubatorID:** INCUBATOR #3**Chlorine Strips:** W2965**GuageID:** 0511064**pH Strips:** W3056**Zero DO:** WP105067

| Lab SampleID | Client ID | Bottle No. | VOL. ML | Initial Reading (ML) | Final Reading (ML) | Difference | Average |
|--------------|-----------|------------|---------|----------------------|--------------------|------------|---------|
| WINKLER 1    | WINKLER 1 | 1          | 300     | 0.0                  | 9.3                | 9.3        | 9.3     |
| WINKLER 2    | WINKLER 2 | 2          | 300     | 9.3                  | 18.6               | 9.3        | 9.3     |

Meter Calibration1: 8.59

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

Barometric Pressure1: 760 mmHg

DO Meter BOD fluid reading for winkler comparison: 9.35

**After Incubation**

Meter Calibration2: 9.04

Zero DO Reading2: 0.12 mg/L (&lt;=0.2 Criteria)

Barometric Pressure2: 771 mmHg



QC BATCH ID: LB128247

INCUBATOR TEMP IN(C): 20.3

INCUBATOR TEMP OUT(C): 20.0

TIME IN: 09:00

TIME OUT: 09:30

DATE IN: 11/09/2023

DATE OUT: 11/14/2023

| 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     |
|--------------|------------|----------|------------|----------|---------|---------------|---------------|-------------|-----------|-------------------|-------------------|-------------|
| LB128247BL   | 1          | No       | 6.67       | N/A      | 20.50   | 300           | 9.34          | 9.32        | 0.02      | 0.02              | 0.02              |             |
| POLYSEED     | 1          |          |            |          |         | 10            | 9.33          | 5.98        | 3.35      | 0.67              | 0.62              |             |
| POLYSEED     | 2          |          |            |          |         | 15            | 9.31          | 4.58        | 4.73      | 0.63              |                   |             |
| POLYSEED     | 3          |          |            |          |         | 20            | 9.30          | 3.62        | 5.68      | 0.57              |                   |             |
| GGA          | 1          |          |            |          |         | 6             | 9.30          | 5.21        | 4.09      | 173.5             | 189.17            |             |
| GGA          | 2          |          |            |          |         | 6             | 9.29          | 4.97        | 4.32      | 185               |                   |             |
| GGA          | 3          |          |            |          |         | 6             | 9.29          | 4.49        | 4.8       | 209               |                   |             |
| O5302-02     | 1          | No       | 6.36       | 6.69     | 20.00   | 0.5           | 9.33          | 7.48        | -         | 0                 | 1785              | pH Adjusted |
| O5302-02     | 2          |          |            |          |         | 1             | 9.30          | 2.73        | 6.57      | 1785              |                   |             |
| O5302-02     | 3          |          |            |          |         | 2             | 9.20          | 0.30        | -         | 0                 |                   |             |
| O5302-02     | 4          |          |            |          |         | 3             | 9.10          | 0.29        | -         | 0                 |                   |             |
| O5302-02DUP  | 1          | No       | 6.36       | 6.69     | 20.00   | 0.5           | 9.31          | 7.59        | -         | 0                 | 1731              | pH Adjusted |
| O5302-02DUP  | 2          |          |            |          |         | 1             | 9.29          | 2.90        | 6.39      | 1731              |                   |             |
| O5302-02DUP  | 3          |          |            |          |         | 2             | 9.19          | 0.34        | -         | 0                 |                   |             |
| O5302-02DUP  | 4          |          |            |          |         | 3             | 9.09          | 0.27        | -         | 0                 |                   |             |
| O5308-01     | 1          | No       | 8.38       | 7.40     | 20.00   | 5             | 9.32          | 7.78        | -         | 0                 | 9.46              | pH Adjusted |
| O5308-01     | 2          |          |            |          |         | 20            | 9.31          | 7.63        | -         | 0                 |                   |             |
| O5308-01     | 3          |          |            |          |         | 50            | 9.30          | 7.28        | 2.02      | 8.4               |                   |             |
| O5308-01     | 4          |          |            |          |         | 150           | 9.28          | 3.40        | 5.88      | 10.52             |                   |             |

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.

6128247

WORKLIST(Hardcopy Internal Chain)

WorkList Name : BOD5-11-08

WorkList ID : 175401

Department : Wet-Chemistry

Date : 11-08-2023 13:57:53

| Sample   | Customer Sample    | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method   |
|----------|--------------------|--------|------|--------------|----------|-----------------------------|--------------|----------|
| O5302-02 | COMP               | Water  | BOD5 | Cool 4 deg C | ARAM01   | L11                         | 11/08/2023   | SM5210 B |
| O5308-01 | WEEKLY-OUTFALL-002 | Water  | BOD5 | Cool 4 deg C | INFR01   | L11                         | 11/08/2023   | SM5210 B |

Date/Time 11/09/2023 0730  
Raw Sample Received by: RM cwc  
Raw Sample Relinquished by: RM (cwc)

Date/Time 11/09/2023 08:50  
Raw Sample Received by: RM (cwc)  
Raw Sample Relinquished by: RM cwc