

**BOD5 LOG****ANALYST:** Rubina**SUPERVISOR:** Iwona**Analysis Date:** 01/06/2023**QC BATCH ID:** LB123558**BOD Water:** WP100513**Starch:** W2977**Sulfuric acid, 1N:** WP100509**POLYSEED:** WP100515**GGA:** WP100514**Chlorine Strips:** W2011**pH Strips:** W2716**MANGANOUS SULFATE SOLUTION:** W2913**Alkaline Iodide Azide:** W2914**Sodium Thiosulfate, 0.025N:** W2941**NaOH, 1N:** WP99896**IncubatorID:** INCUBATOR #3**GuageID:** 0511064**Zero DO:** WP100199

| Lab SampleID | Client ID | Bottle No. | VOL. ML | Initial Reading (ML) | Final Reading (ML) | Difference | Average |
|--------------|-----------|------------|---------|----------------------|--------------------|------------|---------|
| WINKLER 1    | WINKLER 1 | 1          | 300     | 0.0                  | 8.70               | 8.7        | 8.7     |
| WINKLER 2    | WINKLER 2 | 2          | 300     | 8.70                 | 17.4               | 8.7        | 8.7     |

Meter Calibration1: 8.78Barometric Pressure1: 755 mmHgZero DO Reading1: 0.09 mg/L (<=0.2 Criteria)Winkler titrated BOD fluid DO reading1: 8.78**After Incubation**Meter Calibration2: 8.78Barometric Pressure2: 771 mmHgZero DO Reading2: 0.08 mg/L (<=0.2 Criteria)Winkler titrated BOD fluid DO reading2: 8.76

QC BATCH ID: LB123558

INCUBATOR TEMP IN(C): 19.8

INCUBATOR TEMP OUT(C): 19.9

TIME IN: 11:30

TIME OUT: 12:30

DATE IN: 01/06/2023

DATE OUT: 01/11/2023

| 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     |
|--------------|------------|----------|------------|----------|---------|---------------|---------------|-------------|-----------|-------------------|-------------------|-------------|
| LB123558BL   | 1          | No       | 6.82       | N/A      | 20.00   | 300           | 8.77          | 8.75        | 0.02      | 0.02              | 0.02              |             |
| POLYSEED     | 1          |          |            |          |         | 10            | 8.57          | 4.60        | 3.97      | 0.79              | 0.62              |             |
| POLYSEED     | 2          |          |            |          |         | 15            | 8.48          | 4.15        | 4.33      | 0.58              |                   |             |
| POLYSEED     | 3          |          |            |          |         | 20            | 8.40          | 3.62        | 4.78      | 0.48              |                   |             |
| GGA          | 1          |          |            |          |         | 6             | 8.70          | 4.22        | 4.48      | 193               | 193.5             |             |
| GGA          | 2          |          |            |          |         | 6             | 8.68          | 4.19        | 4.49      | 193.5             |                   |             |
| GGA          | 3          |          |            |          |         | 6             | 8.65          | 4.15        | 4.5       | 194               |                   |             |
| O1040-02     | 1          | No       | 6.78       | N/A      | 20.00   | 5             | 8.75          | 8.09        | -         | 0                 |                   |             |
| O1040-02     | 2          |          |            |          |         | 20            | 8.73          | 7.43        | -         | 0                 |                   |             |
| O1040-02     | 3          |          |            |          |         | 50            | 8.72          | 7.40        | -         | 0                 |                   |             |
| O1040-02     | 4          |          |            |          |         | 150           | 8.71          | 7.33        | -         | 0                 |                   |             |
| O1040-02DUP  | 1          | No       | 6.78       | N/A      | 20.00   | 5             | 8.76          | 8.07        | -         | 0                 |                   |             |
| O1040-02DUP  | 2          |          |            |          |         | 20            | 8.74          | 7.45        | -         | 0                 |                   |             |
| O1040-02DUP  | 3          |          |            |          |         | 50            | 8.73          | 7.42        | -         | 0                 |                   |             |
| O1040-02DUP  | 4          |          |            |          |         | 150           | 8.72          | 7.35        | -         | 0                 |                   |             |
| O1040-04     | 1          | No       | 7.11       | N/A      | 20.10   | 5             | 8.76          | 8.23        | -         | 0                 | 11.82             |             |
| O1040-04     | 2          |          |            |          |         | 20            | 8.75          | 7.88        | -         | 0                 |                   |             |
| O1040-04     | 3          |          |            |          |         | 50            | 8.74          | 7.25        | -         | 0                 |                   |             |
| O1040-04     | 4          |          |            |          |         | 150           | 8.72          | 2.19        | 6.53      | 11.82             |                   |             |
| O1040-05     | 1          | No       | 7.16       | N/A      | 20.30   | 5             | 8.75          | 8.04        | -         | 0                 |                   |             |
| O1040-05     | 2          |          |            |          |         | 20            | 8.72          | 7.95        | -         | 0                 |                   |             |
| O1040-05     | 3          |          |            |          |         | 50            | 8.71          | 7.93        | -         | 0                 |                   |             |
| O1040-05     | 4          |          |            |          |         | 150           | 8.70          | 6.98        | -         | 0                 |                   |             |
| O1044-01     | 1          | No       | 7.14       | N/A      | 20.60   | 5             | 8.72          | 8.30        | -         | 0                 |                   |             |
| O1044-01     | 2          |          |            |          |         | 20            | 8.71          | 8.00        | -         | 0                 |                   |             |
| O1044-01     | 3          |          |            |          |         | 50            | 8.70          | 7.34        | -         | 0                 |                   |             |
| O1044-01     | 4          |          |            |          |         | 150           | 8.69          | 7.25        | -         | 0                 |                   |             |
| O1045-01     | 1          | No       | 7.49       | N/A      | 20.60   | 5             | 8.71          | 8.19        | -         | 0                 |                   |             |
| O1045-01     | 2          |          |            |          |         | 20            | 8.68          | 7.89        | -         | 0                 |                   |             |
| O1045-01     | 3          |          |            |          |         | 50            | 8.67          | 7.87        | -         | 0                 |                   |             |
| O1045-01     | 4          |          |            |          |         | 150           | 8.66          | 7.08        | -         | 0                 |                   |             |
| O1046-01     | 1          | No       | 7.52       | 7.22     | 20.60   | 5             | 8.68          | 7.98        | -         | 0                 | 3.9               | pH Adjusted |
| O1046-01     | 2          |          |            |          |         | 20            | 8.67          | 7.91        | -         | 0                 |                   |             |
| O1046-01     | 3          |          |            |          |         | 50            | 8.66          | 7.09        | -         | 0                 |                   |             |
| O1046-01     | 4          |          |            |          |         | 150           | 8.65          | 6.08        | 2.57      | 3.9               |                   |             |

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

# WORKLIST(Hardcopy Internal Chain)

16123558

WorkList Name : bod1-6

WorkList ID : 166348

Department : Wet-Chemistry

Date : 01-06-2023 08:22:33

| Due Date   | Matrix | Sample   | Test   | Preservative | Customer | Raw Sample Storage Location | Customer Sample                 | Collect Date | Method   |
|------------|--------|----------|--------|--------------|----------|-----------------------------|---------------------------------|--------------|----------|
| 01/07/2023 | Water  | O1040-02 | F BOD5 | Cool 4 deg C | PSEG04   | N31                         | DSN001                          | 01/05/2023   | SM5210 B |
| 01/07/2023 | Water  | O1040-04 | F BOD5 | Cool 4 deg C | PSEG04   | N31                         | DSN002                          | 01/05/2023   | SM5210 B |
| 01/07/2023 | Water  | O1040-05 | F BOD5 | Cool 4 deg C | PSEG04   | N31                         | DSN003                          | 01/05/2023   | SM5210 B |
| 01/06/2023 | Water  | O1044-01 | D BOD5 | Cool 4 deg C | ENV170   | N31                         | COMP-SAMPLE-TANK-10-34-35       | 01/04/2023   | SM5210 B |
| 01/06/2023 | Water  | O1045-01 | D BOD5 | Cool 4 deg C | ENV170   | N31                         | COMP-SAMPLE-TANK-11-12-31-32-33 | 01/04/2023   | SM5210 B |
| 01/06/2023 | Water  | O1046-01 | D BOD5 | Cool 4 deg C | ENV170   | N31                         | COMP-SAMPLE-API-3               | 01/04/2023   | SM5210 B |

Date/Time 01/06/2023 10:00  
 Raw Sample Received by: RM (WC)  
 Raw Sample Relinquished by: SP (AC)

Date/Time 01/06/2023 12:00  
 Raw Sample Received by: SP (AC)  
 Raw Sample Relinquished by: RM (WC)