

Analysis Date: 09/19/2019

QC BATCH ID: LB105237

ANALYST: chirag

BOD Water: WP78210

SUPERVISOR: apatel

Starch: W2379

MANGANOUS SULFATE SOLUTION: W2520

Conc Sulfuric Acid: W2482

Alkaline Iodide Azide: W2472

POLYSEED: WP78211

Sodium Thiosulfate, 0.025N: WP76828

GGA: WP78212

NaOH, 0.25N: WP71104

Chlorine Strips: W2430

IncubatorID: Incubator#3

pH Strips: W2500

Zero DO: WP77776

| Lab SampleID | Client ID | Bottle No. | VOL. ML | Initial Reading (ML) | Final Reading (ML) | Difference | Average |
|--------------|-----------|------------|---------|----------------------|--------------------|------------|---------|
| WINKLER 1    | WINKLER 1 | 1          | 300     | 0.00                 | 8.7                | 8.7        | 8.65    |
| WINKLER 2    | WINKLER 2 | 2          | 300     | 8.7                  | 17.3               | 8.6        | 8.65    |

Meter Calibration1 : 8.65

Zero DO Reading1 : 0.00 mg/L ( $\leq 0.2$  Criteria)**After Incubation**

Meter Calibration2 : 8.65

Zero DO Reading2 : 0.00 mg/L ( $\leq 0.2$  Criteria)



QC BATCH ID: LB105237

INCUBATOR TEMP IN(C): 20.5

INCUBATOR TEMP OUT(C): 20.5

TIME IN: 13:00

TIME OUT: 13:30

DATE IN: 09/19/2019

DATE OUT: 09/24/2019

| 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 |
|--------------|------------|----------|------------|----------|---------|---------------|---------------|-------------|-----------|-------------------|-------------------|---------|
| LB105237BL   | 1          | No       | 6.2        | N/A      | 19.50   | 300           | 8.65          | 8.65        | 0         | 0                 | 0                 |         |
| POLYSEED     | 1          |          |            |          |         | 10            | 8.54          | 5.06        | 3.48      | 0.7               | 0.67              |         |
| POLYSEED     | 2          |          |            |          |         | 15            | 8.50          | 3.48        | 5.02      | 0.67              |                   |         |
| POLYSEED     | 3          |          |            |          |         | 20            | 8.45          | 1.98        | 6.47      | 0.65              |                   |         |
| GGA          | 1          |          |            |          |         | 6             | 8.60          | 3.50        | 5.1       | 221.5             | 221.5             |         |
| GGA          | 2          |          |            |          |         | 6             | 8.49          | 3.70        | 4.79      | 206               | 206               |         |
| GGA          | 3          |          |            |          |         | 6             | 8.55          | 3.45        | 5.1       | 221.5             | 221.5             |         |
| K4843-03     | 1          | No       | 7.0        | N/A      | 19.00   | 5             | 8.65          | 6.64        | 2.01      | 80.4              | 72.3              |         |
| K4843-03     | 2          |          |            |          |         | 10            | 8.65          | 5.48        | 3.17      | 75                |                   |         |
| K4843-03     | 3          |          |            |          |         | 20            | 8.65          | 3.88        | 4.77      | 61.5              |                   |         |
| K4843-03     | 4          |          |            |          |         | 50            | 8.65          | 0.13        | -         | 0                 |                   |         |
| K4952-03     | 1          | No       | 7.0        | N/A      | 19.00   | 5             | 8.63          | 7.70        | -         | 0                 |                   |         |
| K4952-03     | 2          |          |            |          |         | 20            | 8.63          | 7.58        | -         | 0                 |                   |         |
| K4952-03     | 3          |          |            |          |         | 50            | 8.59          | 7.50        | -         | 0                 |                   |         |
| K4952-03     | 4          |          |            |          |         | 150           | 8.55          | 7.14        | -         | 0                 |                   |         |
| K4952-03DUP  | 1          | No       | 7.0        | N/A      | 19.50   | 5             | 8.63          | 7.70        | -         | 0                 |                   |         |
| K4952-03DUP  | 2          |          |            |          |         | 20            | 8.63          | 7.58        | -         | 0                 |                   |         |
| K4952-03DUP  | 3          |          |            |          |         | 50            | 8.59          | 7.50        | -         | 0                 |                   |         |
| K4952-03DUP  | 4          |          |            |          |         | 150           | 8.55          | 7.14        | -         | 0                 |                   |         |
| K4973-02     | 1          | No       | 6.4        | N/A      | 20.50   | 0.5           | 8.64          | 7.55        | -         | 0                 | 144               |         |
| K4973-02     | 2          |          |            |          |         | 1             | 8.64          | 7.39        | -         | 0                 |                   |         |
| K4973-02     | 3          |          |            |          |         | 5             | 8.59          | 5.52        | 3.07      | 144               |                   |         |
| K4973-02     | 4          |          |            |          |         | 20            | 8.29          | 0.14        | -         | 0                 |                   |         |

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

CB105237

WORKLIST(Hardcopy Internal Chain)

WorkList Name : BOD091919      WorkList ID : 131110      Department : Wet-Chemistry      Date : 09-19-2019 07:30:25

| Due Date   | Matrix | Sample   | Test   | Preservative | Customer | Storage Location | Customer Sample   | Collect Date | Method   |
|------------|--------|----------|--------|--------------|----------|------------------|-------------------|--------------|----------|
| 09/19/2019 | Water  | K4952-03 | BOD5 E | Cool 4 deg C | SHAW22   | N12              | OUTFALL001-190917 | 09/17/2019   | SM5210 B |
| 09/20/2019 | Water  | K4973-02 | BOD5 b | Cool 4 deg C | ARDM01   | N22              | EFF-WW            | 09/18/2019   | SM5210 B |

Date/Time 9/19/19 12:45  
Received by: CT  
Relinquished by: SP

Date/Time 9/19/19 13:15  
Received by: SP  
Relinquished by: CT