

**BOD5 LOG****Analysis Date:** 05/27/2018**QC BATCH ID:** LB95661**ANALYST:** Indiana**BOD Water:** WP64860**SUPERVISOR:** apatel**Starch:** W2121**MANGANOUS SULFATE SOLUTION:** W2191**Conc Sulfuric Acid:** W2151**Alkaline Iodide Azide:** W2241**POLYSEED:** WP64861**Sodium Thiosulfate, 0.025N:** W2276**GGA:** WP64862**NaOH, 0.25N:** WP62942**Chlorine Strips:** W2068**IncubatorID:** Incubator-3**pH Strips:** W2106**Zero DO:** WP64752

| Lab SampleID | Client ID | Bottle No. | VOL. ML | Initial Reading (ML) | Final Reading (ML) | Difference | Average |
|--------------|-----------|------------|---------|----------------------|--------------------|------------|---------|
| WINKLER1     | WINKLER 1 | 1          | 300     | 0.0                  | 8.5                | 8.5        | 8.55    |
| WINKLER2     | WINKLER 2 | 2          | 300     | 8.5                  | 17.1               | 8.6        |         |

Meter Calibration1 : 8.55

Zero DO Reading1 : 0.19 mg/L (&lt;=0.2 Criteria)

**After Incubation**

Meter Calibration2 : 8.55

Zero DO Reading2 : 0.16 mg/L (&lt;=0.2 Criteria)

QC BATCH ID: LB95661

INCUBATOR TEMP IN(C): 20.5

INCUBATOR TEMP OUT(C): 20.5

TIME IN: 08:50

TIME OUT: 10:00

DATE IN: 05/27/2018

DATE OUT: 06/01/2018

| 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     |
|--------------|------------|----------|------------|----------|---------|---------------|---------------|-------------|-----------|-------------------|-------------------|-------------|
| LB95661BL    | 1          | No       | 6.0        | N/A      | 19.9    | 300           | 8.54          | 8.52        | 0.02      | 0.02              | 0.02              |             |
| POLYSEED     | 1          |          |            |          |         | 10            | 8.54          | 5.22        | 3.32      | 0.66              | 0.65              |             |
| POLYSEED     | 2          |          |            |          |         | 15            | 8.51          | 3.45        | 5.06      | 0.67              |                   |             |
| POLYSEED     | 3          |          |            |          |         | 20            | 8.49          | 2.21        | 6.28      | 0.63              |                   |             |
| GGA          | 1          |          |            |          |         | 6             | 8.50          | 4.10        | 4.4       | 187.5             | 187.5             |             |
| GGA          | 2          |          |            |          |         | 6             | 8.53          | 3.99        | 4.54      | 194.5             | 194.5             |             |
| GGA          | 3          |          |            |          |         | 6             | 8.51          | 4.06        | 4.45      | 190               | 190               |             |
| J3169-01     | 1          | No       | 7.0        | N/A      | 18.9    | 5             | 8.54          | 7.48        | -         | 0                 | 9.96              |             |
| J3169-01     | 2          |          |            |          |         | 20            | 8.50          | 6.59        | -         | 0                 |                   |             |
| J3169-01     | 3          |          |            |          |         | 50            | 8.41          | 6.10        | 2.31      | 9.96              |                   |             |
| J3169-01     | 4          |          |            |          |         | 150           | 7.74          | 0.80        | -         | 0                 |                   |             |
| J3169-04     | 1          | No       | 6.8        | N/A      | 18.8    | 5             | 8.54          | 7.29        | -         | 0                 | 8.98              |             |
| J3169-04     | 2          |          |            |          |         | 20            | 8.43          | 6.71        | -         | 0                 |                   |             |
| J3169-04     | 3          |          |            |          |         | 50            | 8.18          | 5.73        | 2.45      | 10.8              |                   |             |
| J3169-04     | 4          |          |            |          |         | 150           | 6.94          | 2.71        | 4.23      | 7.16              |                   |             |
| J3169-07     | 1          | No       | 9.76       | 7.0      | 18.8    | 5             | 8.52          | 7.13        | -         | 0                 | 18.78             | pH Adjusted |
| J3169-07     | 2          |          |            |          |         | 20            | 8.41          | 6.60        | -         | 0                 |                   |             |
| J3169-07     | 3          |          |            |          |         | 50            | 8.26          | 3.34        | 4.92      | 25.62             |                   |             |
| J3169-07     | 4          |          |            |          |         | 150           | 7.68          | 1.06        | 6.62      | 11.94             |                   |             |
| J3169-10     | 1          | No       | 6.0        | N/A      | 18.8    | 5             | 8.55          | 6.86        | -         | 0                 |                   |             |
| J3169-10     | 2          |          |            |          |         | 20            | 8.62          | 7.50        | -         | 0                 |                   |             |
| J3169-10     | 3          |          |            |          |         | 50            | 8.78          | 7.52        | -         | 0                 |                   |             |
| J3169-10     | 4          |          |            |          |         | 150           | 9.44          | 7.69        | -         | 0                 |                   |             |
| J3169-14     | 1          | No       | 6.8        | N/A      | 18.8    | 5             | 8.54          | 7.35        | -         | 0                 | 22.88             |             |
| J3169-14     | 2          |          |            |          |         | 20            | 8.34          | 6.06        | 2.28      | 24.45             |                   |             |
| J3169-14     | 3          |          |            |          |         | 50            | 8.01          | 3.81        | 4.2       | 21.3              |                   |             |
| J3169-14     | 4          |          |            |          |         | 150           | 6.50          | 0.38        | -         | 0                 |                   |             |
| J3169-14DUP  | 1          | No       | 6.8        | N/A      | 18.8    | 5             | 8.53          | 7.33        | -         | 0                 | 22.92             |             |
| J3169-14DUP  | 2          |          |            |          |         | 20            | 8.36          | 6.07        | 2.29      | 24.6              |                   |             |
| J3169-14DUP  | 3          |          |            |          |         | 50            | 7.98          | 3.79        | 4.19      | 21.24             |                   |             |
| J3169-14DUP  | 4          |          |            |          |         | 150           | 6.52          | 0.39        | -         | 0                 |                   |             |

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

2895661

## WORKLIST(Hardcopy Internal Chain)

WorkList Name : BOD052718

WorkList ID : 112654

Date : 5/27/2018 8:08:26 AM

| Due Date   | Matrix | Sample   | Test | Preservative | Customer | Storage Location | Customer Sample | Collect Date | Method   |
|------------|--------|----------|------|--------------|----------|------------------|-----------------|--------------|----------|
| 05/27/2018 | Water  | J3169-01 | BOD5 | Cool 4 deg C | WOOD06   | N13              | GMW-7           | 05/25/2018   | SM5210 B |
| 05/27/2018 | Water  | J3169-04 | BOD5 | Cool 4 deg C | WOOD06   | N13              | GMW-X           | 05/25/2018   | SM5210 B |
| 05/27/2018 | Water  | J3169-07 | BOD5 | Cool 4 deg C | WOOD06   | N13              | GMW-11          | 05/25/2018   | SM5210 B |
| 05/27/2018 | Water  | J3169-10 | BOD5 | Cool 4 deg C | WOOD06   | N13              | FIELD-BLANK     | 05/25/2018   | SM5210 B |
| 05/27/2018 | Water  | J3169-14 | BOD5 | Cool 4 deg C | WOOD06   | N13              | GMW-1           | 05/25/2018   | SM5210 B |

Date/Time 05/27/18 8:10

Received by: IB

Relinquished by: JB

Date/Time 05/27/18 10:00

Received by: JB

Relinquished by: IB