



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/02/14 11:30
Report Date: 06/04/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Sample No: **4060049-01**
Sample Description: **Tank 3 Start-Up**

Collect Date: **06/02/14 08:26**
Matrix: **Waste Water Grab**

| Parameters | Result | Qual | Analysis Date | Analyst | Method |
|--|-------------|------|----------------|---------|------------------------|
| <u>Anions - STL</u> | | | | | |
| Nitrate-N | 0.58 mg/L | | 06/02/14 14:12 | DWM | EPA 300.0 R2.1 04KS |
| Nitrite-N | < 0.50 mg/L | | 06/02/14 14:12 | DWM | EPA 300.0 R2.1 04KS |
| <u>General Chemistry - STL</u> | | | | | |
| COD | 2300 mg/L | | 06/03/14 08:38 | DAW | SM 5220D 18Ed 04KS |
| Solids - total suspended solids (TSS) | 4800 mg/L | | 06/02/14 13:00 | DAW | SM 2540D 18Ed 04KS |
| Solids - total volatile suspended solids | 1600 mg/L | | 06/03/14 08:30 | DAW | SM 2540E 18Ed* |
| <u>Nutrients - STL</u> | | | | | |
| Ammonia-N | 52 mg/L | | 06/02/14 11:30 | ACV | SM(18) 4500 NH3 F 04KS |
| <u>Soluble Metals - STL</u> | | | | | |
| Zinc | 0.11 mg/L | | 06/04/14 12:08 | WPS | EPA 200.7 R4.4 04KS |
| <u>Soluble Nutrients - STL</u> | | | | | |
| Phosphorus - ortho as P | 4.3 mg/L | | 06/02/14 15:30 | ACV | SM 4500P B E 18ed* |
| <u>Total Metals - STL</u> | | | | | |
| Zinc | 0.91 mg/L | | 06/04/14 12:10 | WPS | EPA 200.7 R4.4 04KS |

Sample No: **4060049-02**
Sample Description: **Tank 2 Start-Up**

Collect Date: **06/02/14 08:31**
Matrix: **Waste Water**

| Parameters | Result | Qual | Analysis Date | Analyst | Method |
|---------------------------------------|------------|------|----------------|---------|------------------------|
| <u>General Chemistry - STL</u> | | | | | |
| COD | 54000 mg/L | | 06/03/14 08:38 | DAW | SM 5220D 18Ed 04KS |
| Solids - total suspended solids (TSS) | 5400 mg/L | | 06/02/14 13:00 | DAW | SM 2540D 18Ed 04KS |
| <u>Nutrients - STL</u> | | | | | |
| Ammonia-N | 740 mg/L | | 06/02/14 11:30 | ACV | SM(18) 4500 NH3 F 04KS |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/02/14 11:30
Report Date: 06/04/14
Customer #: 277310
PO#: 4167739

Laboratory Results

General Chemistry - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---------|--------|-------|-------------|---------------|------|-------------|-----|-----------|
|---------|--------|-------|-------------|---------------|------|-------------|-----|-----------|

Batch B408920 - 04-No Prep WC

| | | | | | | | | |
|---------------------------------------|-------|---|-------|------|----|----------|-----|---|
| Blank (B408920-BLK1) | | Prepared & Analyzed: 06/02/14 | | | | | | |
| Solids - total suspended solids (TSS) | < 2.0 | mg/L | | | | | | |
| LCS (B408920-BS1) | | Prepared & Analyzed: 06/02/14 | | | | | | |
| Solids - total suspended solids (TSS) | 96.0 | mg/L | 100.0 | | 96 | 82.9-110 | | |
| Duplicate (B408920-DUP1) | | Source: 4060049-01 Prepared & Analyzed: 06/02/14 | | | | | | |
| Solids - total suspended solids (TSS) | 4840 | mg/L | | 4820 | | | 0.4 | 5 |

Batch B408953 - 04-No Prep WC

| | | | | | | | | |
|---|-------|---|-------|-------|-----|--------|-----|----|
| Calibration Blank (B408953-CCB1) | | Prepared: 06/02/14 Analyzed: 06/03/14 | | | | | | |
| COD | -5.10 | mg/L | | | | | | |
| Calibration Check (B408953-CCV1) | | Prepared: 06/02/14 Analyzed: 06/03/14 | | | | | | |
| COD | 504 | mg/L | 500.0 | | 101 | 95-105 | | |
| Duplicate (B408953-DUP1) | | Source: 4060049-02 Prepared: 06/02/14 Analyzed: 06/03/14 | | | | | | |
| COD | 53200 | mg/L | | 53700 | | | 0.8 | 20 |

Batch B409034 - 04-No Prep WC

| | | | | | | | | |
|--|------|---|--|------|--|--|---|---|
| Duplicate (B409034-DUP1) | | Source: 4060049-01 Prepared & Analyzed: 06/03/14 | | | | | | |
| Solids - total volatile suspended solids | 1580 | mg/L | | 1560 | | | 1 | 5 |

Nutrients - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---------|--------|-------|-------------|---------------|------|-------------|-----|-----------|
|---------|--------|-------|-------------|---------------|------|-------------|-----|-----------|

Batch B408951 - 04-No Prep WC

| | | | | | | | | |
|--|--------|---|-------|-----|-----|--------|-----|----|
| Blank (B408951-BLK1) | | Prepared & Analyzed: 06/02/14 | | | | | | |
| Ammonia-N | < 0.10 | mg/L | | | | | | |
| LCS (B408951-BS1) | | Prepared & Analyzed: 06/02/14 | | | | | | |
| Ammonia-N | 10.1 | mg/L | 10.00 | | 101 | 80-120 | | |
| Matrix Spike (B408951-MS1) | | Source: 4060052-02 Prepared & Analyzed: 06/02/14 | | | | | | |
| Ammonia-N | 1740 | mg/L | 1000 | 754 | 99 | 80-120 | | |
| Matrix Spike Dup (B408951-MSD1) | | Source: 4060052-02 Prepared & Analyzed: 06/02/14 | | | | | | |
| Ammonia-N | 1750 | mg/L | 1000 | 754 | 100 | 80-120 | 0.6 | 20 |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/02/14 11:30
Report Date: 06/04/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Soluble Nutrients - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---------|-------|-------------------------------|---------------|------|-------------|-----|-----------|
| Batch B409020 - 04-No Prep WC | | | | | | | | |
| Calibration Blank (B409020-CCB1) | | | Prepared & Analyzed: 06/02/14 | | | | | |
| Phosphorus - ortho as P | 0.00 | mg/L | | | | | | |
| Calibration Check (B409020-CCV1) | | | Prepared & Analyzed: 06/02/14 | | | | | |
| Phosphorus - ortho as P | 0.514 | mg/L | 0.5000 | | 103 | 90-110 | | |
| Matrix Spike (B409020-MS1) | | | Prepared & Analyzed: 06/02/14 | | | | | |
| Phosphorus - ortho as P | Q4 8.88 | mg/L | 10.00 | 4.32 | 46 | 80-120 | | |
| Matrix Spike Dup (B409020-MSD1) | | | Prepared & Analyzed: 06/02/14 | | | | | |
| Phosphorus - ortho as P | Q4 9.36 | mg/L | 10.00 | 4.32 | 50 | 80-120 | 5 | 20 |

Total Metals - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|--|---------|-------|---------------------------------------|---------------|------|-------------|-----|-----------|
| Batch B408977 - 04 EPA 200.2 R2.8 | | | | | | | | |
| Blank (B408977-BLK1) | | | Prepared: 06/03/14 Analyzed: 06/04/14 | | | | | |
| Zinc | < 0.020 | mg/L | | | | | | |
| LCS (B408977-BS1) | | | Prepared: 06/03/14 Analyzed: 06/04/14 | | | | | |
| Zinc | 0.218 | mg/L | 0.2000 | | 109 | 85-115 | | |
| Matrix Spike (B408977-MS1) | | | Prepared: 06/03/14 Analyzed: 06/04/14 | | | | | |
| Zinc | 2.03 | mg/L | 1.000 | 0.907 | 112 | 70-130 | | |
| Matrix Spike Dup (B408977-MSD1) | | | Prepared: 06/03/14 Analyzed: 06/04/14 | | | | | |
| Zinc | 2.06 | mg/L | 1.000 | 0.907 | 115 | 70-130 | 1 | 20 |

Soluble Metals - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|--|---------|-------|---------------------------------------|---------------|------|-------------|-----|-----------|
| Batch B408977 - 04 EPA 200.2 R2.8 | | | | | | | | |
| Blank (B408977-BLK2) | | | Prepared: 06/03/14 Analyzed: 06/04/14 | | | | | |
| Zinc | < 0.020 | mg/L | | | | | | |
| LCS (B408977-BS1) | | | Prepared: 06/03/14 Analyzed: 06/04/14 | | | | | |
| Zinc | 0.218 | mg/L | 0.2000 | | 109 | 85-115 | | |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/02/14 11:30
Report Date: 06/04/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Anions - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|--------|-------|-------------------------------|---------------|-------------------------------|-------------|-----|-----------|
| Batch B408923 - 04-IC No Prep | | | | | | | | |
| Calibration Blank (B408923-CCB1) | | | Prepared & Analyzed: 06/02/14 | | | | | |
| Nitrite-N | 0.00 | mg/L | | | | | | |
| Nitrate-N | 0.00 | mg/L | | | | | | |
| Calibration Check (B408923-CCV1) | | | Prepared & Analyzed: 06/02/14 | | | | | |
| Nitrate-N | 1.22 | mg/L | 1.130 | | 108 | 90-110 | | |
| Nitrite-N | 2.14 | mg/L | 2.000 | | 107 | 90-110 | | |
| Matrix Spike (B408923-MS1) | | | Source: 4052899-07 | | Prepared & Analyzed: 06/02/14 | | | |
| Nitrate-N | 6.1 | mg/L | 5.648 | ND | 107 | 80-120 | | |
| Nitrite-N | 11.6 | mg/L | 12.50 | | 93 | 80-120 | | |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/02/14 11:30
Report Date: 06/04/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Notes

This report shall not be reproduced, except in full, without the written approval of the laboratory.

PDC Laboratories participates in the following accreditation/certification and proficiency programs at the following locations. Endorsement by Federal or State Governments or their agencies is not implied.

- PIA PDC Laboratories - Peoria, IL
NELAC Accreditation for Drinking Water, Wastewater, Hazardous and Solid Wastes Fields of Testing through IL EPA Lab No. 100230
Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 17553
Drinking Water Certifications: Kansas (E-10338); Missouri (870); Wisconsin (998284430); Iowa (240)
Wastewater Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
Hazardous/Solid Waste Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
UST Certification; Iowa (240)
- SPM PDC Laboratories - Springfield, MO
EPA DMR-QA Program
- STL PDC Laboratories - St. Louis, MO
NELAC Accreditation for Wastewater, Hazardous and Solid Wastes Fields of Testing
Drinking Water Certifications: Kansas (E-10389)

Q4 The matrix spike recovery result is unusable since the analyte concentration in the sample is greater than four times the spike level. The associated blank spike was acceptable.

Certified by: Roxann Shull, Client Services Supervisor



PDC Laboratories, Inc. – St. Louis
3278 N. Highway 67 (Lindbergh)
Florissant, MO 63033
 www.pdclab.com

CHAIN OF CUSTODY RECORD
 Phone (314) 432-0550 or (314) 921-4488
 Fax (314) 432-4977

State where samples collected MO

(Instructions/Sample Acceptance Policy on Reverse)

ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

| 1 CLIENT <u>BARR/BRIDGETON LF</u> ADDRESS CITY STATE ZIP CONTACT PERSON | PROJECT NUMBER | P. O. NUMBER | MEANS SHIPPED | | | 3 ANALYSIS REQUESTED COD + AMMONIA NITRATE/NITRITE NH3/NH4 LE DISZN + DISS PHOS TSS TOTAL ZN | 4 (FOR LAB USE ONLY) LOGIN # <u>4060049</u> LOGGED BY: <u>RS</u> LAB PROJ. # TEMPLATE: <u>RS</u> PROJ. MGR.: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|----------------|--|-------------------------------------|--|--------------|---|---|----------------|----------------|-------------|------|------|-------------|--------------|---------------|-------------|--------------|-------------------------------------|--|--------------|----------|---------------|-------------|--------------|-------------------------------------|--|--------------|----------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | PHONE NUMBER | FAX NUMBER | EMAIL ADDRESS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | SAMPLER | SAMPLER'S SIGNATURE <u>BILL ABERNATHY</u> | | MATRIX TYPES: WW-WASTEWATER DW-DRINKING WATER GW-GROUND WATER WWSL-SLUDGE NAS-SOLID L'CHT-LEACHATE NAL-NONAQUEOUS SOIL-SOILS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | REMARKS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 SAMPLE DESCRIPTION AS YOU WANT ON REPORT DATE COLLECTED TIME COLLECTED SAMPLE TYPE GRAB COMP MATRIX TYPE Bottle Count | | <table border="1"> <thead> <tr> <th>DATE COLLECTED</th> <th>TIME COLLECTED</th> <th>SAMPLE TYPE</th> <th>GRAB</th> <th>COMP</th> <th>MATRIX TYPE</th> <th>Bottle Count</th> </tr> </thead> <tbody> <tr> <td><u>6/2/14</u></td> <td><u>0826</u></td> <td><u>L'CHT</u></td> <td><input checked="" type="checkbox"/></td> <td></td> <td><u>L'CHT</u></td> <td><u>3</u></td> </tr> <tr> <td><u>6/2/14</u></td> <td><u>0831</u></td> <td><u>L'CHT</u></td> <td><input checked="" type="checkbox"/></td> <td></td> <td><u>L'CHT</u></td> <td><u>2</u></td> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table> | | | | | | DATE COLLECTED | TIME COLLECTED | SAMPLE TYPE | GRAB | COMP | MATRIX TYPE | Bottle Count | <u>6/2/14</u> | <u>0826</u> | <u>L'CHT</u> | <input checked="" type="checkbox"/> | | <u>L'CHT</u> | <u>3</u> | <u>6/2/14</u> | <u>0831</u> | <u>L'CHT</u> | <input checked="" type="checkbox"/> | | <u>L'CHT</u> | <u>2</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DATE COLLECTED | TIME COLLECTED | SAMPLE TYPE | GRAB | COMP | MATRIX TYPE | Bottle Count | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <u>6/2/14</u> | <u>0826</u> | <u>L'CHT</u> | <input checked="" type="checkbox"/> | | <u>L'CHT</u> | <u>3</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <u>6/2/14</u> | <u>0831</u> | <u>L'CHT</u> | <input checked="" type="checkbox"/> | | <u>L'CHT</u> | <u>2</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE) NORMAL (8-10 Bus. Days) RUSH (5 Bus. Days) <u>2 Bus. Days</u> Same Day DATE DUE <u>6/3/14</u> | | The sample temperature will be measured upon receipt at the lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RESULTS BY: E-MAIL FAX PHONE CALL PHONE/FAX# IF DIFFERENT FROM ABOVE | | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 RELINQUISHED BY: (SIGNATURE) <u>[Signature]</u> FBI | | DATE | TIME | RECEIVED BY: | DATE | TIME | 8 COMMENTS:(FOR LAB USE ONLY) SAMPLE TEMPERATURE UPON RECEIPT <u>7.53</u> °C CHILL PROCESS STARTED PRIOR TO RECEIPT SAMPLE(S) RECEIVED ON ICE PROPER BOTTLES RECEIVED IN GOOD CONDITION BOTTLES FILLED WITH ADEQUATE VOLUME SAMPLES RECEIVED WITHIN HOLD TIME(S) (EXCLUDES TYPICAL FIELD PARAMETERS) DATE AND TME TAKEN FROM SAMPLE BOTTLE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RELINQUISHED BY: (SIGNATURE) | | DATE | TIME | RECEIVED BY: | DATE | TIME | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RELINQUISHED BY: (SIGNATURE) | | DATE | TIME | RECEIVED BY: | DATE | TIME | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RELINQUISHED BY: (SIGNATURE) | | DATE | TIME | RECEIVED BY: | DATE | TIME | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/03/14 10:25
Report Date: 06/04/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Sample No: **4060132-01**
Sample Description: **Tank 3 Start-Up 6/03**

Collect Date: **06/03/14 08:30**
Matrix: **Waste Water Grab**

| Parameters | Result | Qual | Analysis Date | Analyst | Method |
|--|-------------|------|----------------|---------|---------------------------|
| <u>Anions - STL</u> | | | | | |
| Nitrate-N | 0.86 mg/L | | 06/03/14 16:41 | DWM | EPA 300.0 R2.1 04KS |
| Nitrite-N | < 0.50 mg/L | | 06/03/14 16:41 | DWM | EPA 300.0 R2.1 04KS |
| <u>General Chemistry - STL</u> | | | | | |
| COD | 2300 mg/L | | 06/04/14 08:26 | DAW | SM 5220D 18Ed 04KS |
| Solids - total suspended solids (TSS) | 3000 mg/L | | 06/03/14 11:35 | DAW | SM 2540D 18Ed 04KS |
| Solids - total volatile suspended solids | 920 mg/L | | 06/04/14 08:30 | DAW | SM 2540E 18Ed* |
| <u>Nutrients - STL</u> | | | | | |
| Ammonia-N | 47 mg/L | | 06/04/14 10:00 | ACV | SM(18) 4500 NH3 04KS F |

Sample No: **4060132-02**
Sample Description: **Tank 2 Start-Up 6/03**

Collect Date: **06/03/14 08:36**
Matrix: **Waste Water**

| Parameters | Result | Qual | Analysis Date | Analyst | Method |
|---------------------------------------|------------|------|----------------|---------|---------------------------|
| <u>General Chemistry - STL</u> | | | | | |
| COD | 55000 mg/L | | 06/04/14 08:26 | DAW | SM 5220D 18Ed 04KS |
| Solids - total suspended solids (TSS) | 4500 mg/L | | 06/03/14 11:35 | DAW | SM 2540D 18Ed 04KS |
| <u>Nutrients - STL</u> | | | | | |
| Ammonia-N | 600 mg/L | | 06/04/14 10:00 | ACV | SM(18) 4500 NH3 04KS F |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/03/14 10:25
Report Date: 06/04/14
Customer #: 277310
PO#: 4167739

Laboratory Results

General Chemistry - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---------|--------|-------|-------------|---------------|------|-------------|-----|-----------|
|---------|--------|-------|-------------|---------------|------|-------------|-----|-----------|

Batch B409018 - 04-No Prep WC

| | | | | | | | | |
|---------------------------------------|-------|------|--|------|----|----------|---|---|
| Blank (B409018-BLK1) | | | Prepared & Analyzed: 06/03/14 | | | | | |
| Solids - total suspended solids (TSS) | < 2.0 | mg/L | | | | | | |
| LCS (B409018-BS1) | | | Prepared & Analyzed: 06/03/14 | | | | | |
| Solids - total suspended solids (TSS) | 99.0 | mg/L | 100.0 | | 99 | 82.9-110 | | |
| Duplicate (B409018-DUP1) | | | Source: 4060073-01 Prepared & Analyzed: 06/03/14 | | | | | |
| Solids - total suspended solids (TSS) | 1520 | mg/L | | 1560 | | | 3 | 5 |
| Duplicate (B409018-DUP2) | | | Source: 4060132-01 Prepared & Analyzed: 06/03/14 | | | | | |
| Solids - total suspended solids (TSS) | 2940 | mg/L | | 2980 | | | 1 | 5 |

Batch B409071 - 04-No Prep WC

| | | | | | | | | |
|---|--------|------|--|-------|-----|--------|-----|----|
| Calibration Blank (B409071-CCB1) | | | Prepared: 06/03/14 Analyzed: 06/04/14 | | | | | |
| COD | -0.266 | mg/L | | | | | | |
| Calibration Blank (B409071-CCB2) | | | Prepared: 06/03/14 Analyzed: 06/04/14 | | | | | |
| COD | -5.07 | mg/L | | | | | | |
| Calibration Check (B409071-CCV1) | | | Prepared: 06/03/14 Analyzed: 06/04/14 | | | | | |
| COD | 97.6 | mg/L | 100.0 | | 98 | 95-105 | | |
| Calibration Check (B409071-CCV2) | | | Prepared: 06/03/14 Analyzed: 06/04/14 | | | | | |
| COD | 504 | mg/L | 500.0 | | 101 | 95-105 | | |
| Duplicate (B409071-DUP1) | | | Source: 4054089-01 Prepared: 06/03/14 Analyzed: 06/04/14 | | | | | |
| COD | 40.5 | mg/L | | 40.7 | | | 0.6 | 20 |
| Duplicate (B409071-DUP2) | | | Source: 4060132-02 Prepared: 06/03/14 Analyzed: 06/04/14 | | | | | |
| COD | 54800 | mg/L | | 55400 | | | 1 | 20 |

Batch B409117 - 04-No Prep WC

| | | | | | | | | |
|--|-----|------|--|-----|--|--|---|---|
| Duplicate (B409117-DUP1) | | | Source: 4060132-01 Prepared & Analyzed: 06/04/14 | | | | | |
| Solids - total volatile suspended solids | 940 | mg/L | | 920 | | | 2 | 5 |

Nutrients - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---------|--------|-------|-------------|---------------|------|-------------|-----|-----------|
|---------|--------|-------|-------------|---------------|------|-------------|-----|-----------|

Batch B409133 - 04-No Prep WC

| | | | | | | | | |
|---|------|------|-------------------------------|--|--|--|--|--|
| Calibration Blank (B409133-CCB1) | | | Prepared & Analyzed: 06/04/14 | | | | | |
| Ammonia-N | 0.00 | mg/L | | | | | | |
| Calibration Check (B409133-CCV1) | | | Prepared & Analyzed: 06/04/14 | | | | | |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/03/14 10:25
Report Date: 06/04/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Nutrients - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|--------|-------|-------------------------------|---------------|------|-------------|-----|-----------|
| Batch B409133 - 04-No Prep WC | | | | | | | | |
| Calibration Check (B409133-CCV1) | | | Prepared & Analyzed: 06/04/14 | | | | | |
| Ammonia-N | 9.92 | mg/L | 10.00 | | 99 | 90-110 | | |
| Matrix Spike (B409133-MS1) | | | Prepared & Analyzed: 06/04/14 | | | | | |
| Ammonia-N | 13.5 | mg/L | 10.00 | 3.84 | 97 | 80-120 | | |
| Matrix Spike Dup (B409133-MSD1) | | | Prepared & Analyzed: 06/04/14 | | | | | |
| Ammonia-N | 13.6 | mg/L | 10.00 | 3.84 | 98 | 80-120 | 0.7 | 20 |

Anions - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|--------|-------|-------------------------------|---------------|------|-------------|-----|-----------|
| Batch B409074 - 04-IC No Prep | | | | | | | | |
| Calibration Blank (B409074-CCB1) | | | Prepared & Analyzed: 06/03/14 | | | | | |
| Nitrate-N | 0.00 | mg/L | | | | | | |
| Nitrite-N | 0.00 | mg/L | | | | | | |
| Calibration Check (B409074-CCV1) | | | Prepared & Analyzed: 06/03/14 | | | | | |
| Nitrate-N | 1.24 | mg/L | 1.130 | | 110 | 90-110 | | |
| Nitrite-N | 2.18 | mg/L | 2.000 | | 109 | 90-110 | | |
| Matrix Spike (B409074-MS1) | | | Prepared & Analyzed: 06/03/14 | | | | | |
| Nitrite-N | 27.0 | mg/L | 25.00 | | 108 | 80-120 | | |
| Nitrate-N | 12 | mg/L | 11.30 | 0.39 | 104 | 80-120 | | |
| Matrix Spike Dup (B409074-MSD1) | | | Prepared & Analyzed: 06/03/14 | | | | | |
| Nitrate-N | 12 | mg/L | 11.30 | 0.39 | 101 | 80-120 | 3 | 20 |
| Nitrite-N | 26.0 | mg/L | 25.00 | | 104 | 80-120 | 4 | 20 |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/03/14 10:25
Report Date: 06/04/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Notes

This report shall not be reproduced, except in full, without the written approval of the laboratory.

PDC Laboratories participates in the following accreditation/certification and proficiency programs at the following locations. Endorsement by Federal or State Governments or their agencies is not implied.

- PIA PDC Laboratories - Peoria, IL
NELAC Accreditation for Drinking Water, Wastewater, Hazardous and Solid Wastes Fields of Testing through IL EPA Lab No. 100230
Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 17553
Drinking Water Certifications: Kansas (E-10338); Missouri (870); Wisconsin (998284430); Iowa (240)
Wastewater Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
Hazardous/Solid Waste Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
UST Certification; Iowa (240)
- SPM PDC Laboratories - Springfield, MO
EPA DMR-QA Program
- STL PDC Laboratories - St. Louis, MO
NELAC Accreditation for Wastewater, Hazardous and Solid Wastes Fields of Testing
Drinking Water Certifications: Kansas (E-10389)

Certified by: Roxann Shull, Client Services Supervisor



PDC Laboratories, Inc. – St. Louis
3278 N. Highway 67 (Lindbergh)
Florissant, MO 63033
 www.pdclab.com

CHAIN OF CUSTODY RECORD
 Phone (314) 432-0550 or (314) 921-4488
 Fax (314) 432-4977

State where samples collected MO

(Instructions/Sample Acceptance Policy on Reverse)

ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

| | | | | | | | |
|---|--|---|------------------------------------|-------------------------------------|----------------------|--|---|
| 1 CLIENT <u>BARR/BRIDGETON LF</u> ADDRESS CITY STATE ZIP CONTACT PERSON | PROJECT NUMBER | P. O. NUMBER | MEANS SHIPPED | | | 3 ANALYSIS REQUESTED COD + Ammonia MLSS/ALYSS + N/A TSS | 4 (FOR-LAB USE ONLY) <u>4060132</u> LOGIN # LOGGED BY: <u>KS</u> LAB PROJ. # TEMPLATE: PROJ. MGR.: <u>KS</u> |
| | PHONE NUMBER | FAX NUMBER | EMAIL ADDRESS | | | | |
| | SAMPLER <u>BILL ABERNATHY</u> | MATRIX TYPES: WW-WASTEWATER DW-DRINKING WATER GW-GROUND WATER WWSL-SLUDGE NAS-SOLID L'CHT-LEACHATE NAL-NONAQUEOUS SOIL-SOILS | | | | | |
| | SAMPLER'S SIGNATURE <u>Bill Abernathy</u> | | | | | | |
| 2 SAMPLE DESCRIPTION AS YOU WANT ON REPORT | | DATE COLLECTED | TIME COLLECTED | SAMPLE TYPE GRAB | MATRIX COMP TYPE | Bottle Count | REMARKS |
| <u>T3 STARTUP</u> | | <u>6/3/14</u> | <u>0830</u> | <input checked="" type="checkbox"/> | <u>LCHT</u> | <u>2</u> | |
| <u>T2 STARTUP</u> | | <u>6/3/14</u> | <u>0836</u> | <input checked="" type="checkbox"/> | <u>LCHT</u> | <u>2</u> | |
| 5 TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE) NORMAL (8-10 Bus. Days) RUSH (5 Bus. Days) <u>Fastrak™ (3 Bus. Days)</u> <u>1-2 Bus. Days</u> Same Day DATE DUE <u>6/4/14</u> | | The sample temperature will be measured upon receipt at the lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature. | | | | | |
| RESULTS BY: E-MAIL FAX PHONE CALL PHONE/FAX# IF DIFFERENT FROM ABOVE | | 6 | | | | | |
| 7 RELINQUISHED BY: (SIGNATURE) <u>[Signature]</u> <u>FG1</u> | DATE <u>6-3-14</u> | TIME <u>10:00am</u> | RECEIVED BY: <u>[Signature]</u> | DATE <u>6/3/14</u> | TIME <u>10:00</u> | 8 COMMENTS:(FOR LAB USE ONLY) <u>203</u> | |
| RELINQUISHED BY: (SIGNATURE) <u>[Signature]</u> | DATE <u>6/3/14</u> | TIME <u>10:25</u> | RECEIVED BY: <u>[Signature]</u> | DATE <u>6/3/14</u> | TIME <u>10:25</u> | SAMPLE TEMPERATURE UPON RECEIPT _____ °C CHILL PROCESS STARTED PRIOR TO RECEIPT Y DR N SAMPLE(S) RECEIVED ON ICE Y DR N PROPER BOTTLES RECEIVED IN GOOD CONDITION Y DR N BOTTLES FILLED WITH ADEQUATE VOLUME Y DR N SAMPLES RECEIVED WITHIN HOLD TIME(S) Y DR N (EXCLUDES TYPICAL FIELD PARAMETERS) DATE AND TME TAKEN FROM SAMPLE BOTTLE | |
| RELINQUISHED BY: (SIGNATURE) | DATE | TIME | RECEIVED BY: | DATE | TIME | | |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/04/14 10:50
Report Date: 06/05/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Sample No: **4060465-01**
Sample Description: **Tank 3 Start-Up 6/04**

Collect Date: **06/04/14 00:00**
Matrix: **Waste Water Grab**

| Parameters | Result | Qual | Analysis Date | Analyst | Method |
|--|-------------|------|----------------|---------|---------------------------|
| <u>Anions - STL</u> | | | | | |
| Nitrate-N | 1.1 mg/L | | 06/04/14 14:04 | DWM | EPA 300.0 R2.1 04KS |
| Nitrite-N | < 0.50 mg/L | | 06/04/14 14:04 | DWM | EPA 300.0 R2.1 04KS |
| <u>General Chemistry - STL</u> | | | | | |
| COD | 690 mg/L | | 06/05/14 08:19 | DAW | SM 5220D 18Ed 04KS |
| Solids - total suspended solids (TSS) | 2800 mg/L | | 06/04/14 12:10 | DAW | SM 2540D 18Ed 04KS |
| Solids - total volatile suspended solids | 1000 mg/L | | 06/05/14 08:00 | DAW | SM 2540E 18Ed* |
| <u>Nutrients - STL</u> | | | | | |
| Ammonia-N | 34 mg/L | | 06/04/14 10:00 | ACV | SM(18) 4500 NH3 04KS F |

Sample No: **4060465-02**
Sample Description: **Tank 2 Start-Up 6/04**

Collect Date: **06/04/14 00:00**
Matrix: **Waste Water**

| Parameters | Result | Qual | Analysis Date | Analyst | Method |
|---------------------------------------|------------|------|----------------|---------|---------------------------|
| <u>General Chemistry - STL</u> | | | | | |
| COD | 52000 mg/L | | 06/05/14 08:20 | DAW | SM 5220D 18Ed 04KS |
| Solids - total suspended solids (TSS) | 3900 mg/L | | 06/04/14 12:10 | DAW | SM 2540D 18Ed 04KS |
| <u>Nutrients - STL</u> | | | | | |
| Ammonia-N | 650 mg/L | | 06/04/14 10:00 | ACV | SM(18) 4500 NH3 04KS F |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/04/14 10:50
Report Date: 06/05/14
Customer #: 277310
PO#: 4167739

Laboratory Results

General Chemistry - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|--|----------|-------|--|---------------|----------|-------------|-----|-----------|
| Batch B409118 - 04-No Prep WC | | | | | | | | |
| Blank (B409118-BLK1) | | | Prepared & Analyzed: 06/04/14 | | | | | |
| Solids - total suspended solids (TSS) | < 2.0 | mg/L | | | | | | |
| LCS (B409118-BS1) | | | Prepared & Analyzed: 06/04/14 | | | | | |
| Solids - total suspended solids (TSS) | 101 | mg/L | 100.0 | 101 | 82.9-110 | | | |
| Duplicate (B409118-DUP1) | | | Source: 4060465-01 Prepared & Analyzed: 06/04/14 | | | | | |
| Solids - total suspended solids (TSS) | 2740 | mg/L | | 2820 | | | 3 | 5 |
| Batch B409176 - 04-No Prep WC | | | | | | | | |
| Calibration Blank (B409176-CCB1) | | | Prepared: 06/04/14 Analyzed: 06/05/14 | | | | | |
| COD | -0.00477 | mg/L | | | | | | |
| Calibration Blank (B409176-CCB2) | | | Prepared: 06/04/14 Analyzed: 06/05/14 | | | | | |
| COD | -5.07 | mg/L | | | | | | |
| Calibration Check (B409176-CCV1) | | | Prepared: 06/04/14 Analyzed: 06/05/14 | | | | | |
| COD | 98.2 | mg/L | 100.0 | 98 | 95-105 | | | |
| Calibration Check (B409176-CCV2) | | | Prepared: 06/04/14 Analyzed: 06/05/14 | | | | | |
| COD | 484 | mg/L | 500.0 | 97 | 95-105 | | | |
| Duplicate (B409176-DUP1) | | | Source: 4060577-01 Prepared: 06/04/14 Analyzed: 06/05/14 | | | | | |
| COD | 15.4 | mg/L | | 15.4 | | | 0 | 20 |
| Duplicate (B409176-DUP2) | | | Source: 4060465-02 Prepared: 06/04/14 Analyzed: 06/05/14 | | | | | |
| COD | 51100 | mg/L | | 51700 | | | 1 | 20 |
| Batch B409204 - 04-No Prep WC | | | | | | | | |
| Duplicate (B409204-DUP1) | | | Source: 4060465-01 Prepared & Analyzed: 06/05/14 | | | | | |
| Solids - total volatile suspended solids | 1060 | mg/L | | 1040 | | | 2 | 5 |
| Nutrients - Quality Control | | | | | | | | |
| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
| Batch B409133 - 04-No Prep WC | | | | | | | | |
| Calibration Blank (B409133-CCB1) | | | Prepared & Analyzed: 06/04/14 | | | | | |
| Ammonia-N | 0.00 | mg/L | | | | | | |
| Calibration Check (B409133-CCV1) | | | Prepared & Analyzed: 06/04/14 | | | | | |
| Ammonia-N | 9.92 | mg/L | 10.00 | 99 | 90-110 | | | |
| Matrix Spike (B409133-MS1) | | | Source: 4060071-01 Prepared & Analyzed: 06/04/14 | | | | | |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/04/14 10:50
Report Date: 06/05/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Nutrients - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|--|--------|-------|---------------------------|---------------|-------------------------------|-------------|-----|-----------|
| Batch B409133 - 04-No Prep WC | | | | | | | | |
| Matrix Spike (B409133-MS1) | | | Source: 4060071-01 | | Prepared & Analyzed: 06/04/14 | | | |
| Ammonia-N | 13.5 | mg/L | 10.00 | 3.84 | 97 | 80-120 | | |
| Matrix Spike Dup (B409133-MSD1) | | | Source: 4060071-01 | | Prepared & Analyzed: 06/04/14 | | | |
| Ammonia-N | 13.6 | mg/L | 10.00 | 3.84 | 98 | 80-120 | 0.7 | 20 |

Anions - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|--------|-------|-------------------------------|---------------|-------------------------------|-------------|-----|-----------|
| Batch B409196 - 04-IC No Prep | | | | | | | | |
| Calibration Blank (B409196-CCB1) | | | Prepared & Analyzed: 06/04/14 | | | | | |
| Nitrite-N | 0.00 | mg/L | | | | | | |
| Nitrate-N | 0.00 | mg/L | | | | | | |
| Calibration Check (B409196-CCV1) | | | Prepared & Analyzed: 06/04/14 | | | | | |
| Nitrate-N | 1.24 | mg/L | | | | 90-110 | | |
| Nitrite-N | 2.16 | mg/L | | | | 90-110 | | |
| Matrix Spike (B409196-MS1) | | | Source: 4053545-01 | | Prepared & Analyzed: 06/04/14 | | | |
| Nitrate-N | Q1 13 | mg/L | 11.30 | 4.0 | 77 | 80-120 | | |
| Nitrite-N | 26.9 | mg/L | 25.00 | ND | 108 | 80-120 | | |
| Matrix Spike Dup (B409196-MSD1) | | | Source: 4053545-01 | | Prepared & Analyzed: 06/04/14 | | | |
| Nitrate-N | Q2 13 | mg/L | 11.30 | 4.0 | 76 | 80-120 | 0.9 | 20 |
| Nitrite-N | 26.5 | mg/L | 25.00 | ND | 106 | 80-120 | 1 | 20 |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/04/14 10:50
Report Date: 06/05/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Notes

This report shall not be reproduced, except in full, without the written approval of the laboratory.

PDC Laboratories participates in the following accreditation/certification and proficiency programs at the following locations. Endorsement by Federal or State Governments or their agencies is not implied.

- PIA PDC Laboratories - Peoria, IL
NELAC Accreditation for Drinking Water, Wastewater, Hazardous and Solid Wastes Fields of Testing through IL EPA Lab No. 100230
Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 17553
Drinking Water Certifications: Kansas (E-10338); Missouri (870); Wisconsin (998284430); Iowa (240)
Wastewater Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
Hazardous/Solid Waste Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
UST Certification; Iowa (240)
- SPM PDC Laboratories - Springfield, MO
EPA DMR-QA Program
- STL PDC Laboratories - St. Louis, MO
NELAC Accreditation for Wastewater, Hazardous and Solid Wastes Fields of Testing
Drinking Water Certifications: Kansas (E-10389)

- Q2 MSD failed %R
- Q1 MS Failed %R

Certified by: Roxann Shull, Client Services Supervisor



PDC Laboratories, Inc. – St. Louis
3278 N. Highway 67 (Lindbergh)
Florissant, MO 63033
 www.pdclab.com

CHAIN OF CUSTODY RECORD
 Phone (314) 432-0550 or (314) 921-4488
 Fax (314) 432-4977

State where samples collected MO

(Instructions/Sample Acceptance Policy on Reverse)

ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

| | | | | | | | | | | | | | | | | | | | | | |
|--|--|---------------------|------------------|--|---------------|---|--|--|--|--|--|---------|---|-------------------------------------|-------------------------------------|-------------------------------------|--|--|--|--|--|
| 1 CLIENT BARR/BRIDGETON LF | PROJECT NUMBER | P. O. NUMBER | MEANS SHIPPED | | | 3 ANALYSIS REQUESTED | 4 (FOR LAB USE ONLY) LOGIN # <u>40404040</u> LOGGED BY: <u>[Signature]</u> LAB PROJ. # TEMPLATE: PROJ. MGR.: <u>[Signature]</u> | | | | | | | | | | | | | | |
| | ADDRESS | PHONE NUMBER | FAX NUMBER | EMAIL ADDRESS | | | | | | | | | | | | | | | | | |
| | CITY STATE ZIP | SAMPLER | | MATRIX TYPES: WW-WASTEWATER DW-DRINKING WATER GW-GROUND WATER WWSL-SLUDGE NAS-SOLID L'CHT-LEACHATE NAL-NONAQUEOUS SOIL-SOILS | | | | | | | | | | | | | | | | | |
| | CONTACT PERSON | SAMPLER'S SIGNATURE | | | | | | | | | | | | | | | | | | | |
| 2 SAMPLE DESCRIPTION AS YOU WANT ON REPORT | DATE COLLECTED | TIME COLLECTED | SAMPLE TYPE GRAB | MATRIX COMP TYPE | Bottle Count | COD + AMMONIA TSS/ISS Nitrate/Nitrite TSS | | | | | | REMARKS | | | | | | | | | |
| | <u>T3 STARTUP</u> | <u>6/4/14</u> | | <input checked="" type="checkbox"/> | <u>LCHT</u> | | | | | | | | <u>2</u> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | |
| | <u>T2 STARTUP</u> | <u>6/4/14</u> | | <input checked="" type="checkbox"/> | <u>LCHT</u> | | | | | | | | <u>2</u> | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | 5 TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE) | | | | | | | | | | | | The sample temperature will be measured upon receipt at the lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature. | | | | | | | | |
| NORMAL (8-10 Bus. Days) RUSH (5 Bus. Days) <u>Fastrak™</u> (3 Bus. Days) <u>2 Bus. Days</u> Same Day DATE DUE <u>6/5/14</u> | | | | | | | | | | | | | | | | | | | | | |
| RESULTS BY: E-MAIL FAX PHONE CALL PHONE/FAX# IF DIFFERENT FROM ABOVE | | | | | | 6 | | | | | | | | | | | | | | | |
| 7 RELINQUISHED BY: (SIGNATURE) | | DATE | TIME | RECEIVED BY: | DATE | TIME | 8 COMMENTS:(FOR LAB USE ONLY) SAMPLE TEMPERATURE UPON RECEIPT CHILL PROCESS STARTED PRIOR TO RECEIPT SAMPLE(S) RECEIVED ON ICE PROPER BOTTLES RECEIVED IN GOOD CONDITION BOTTLES FILLED WITH ADEQUATE VOLUME SAMPLES RECEIVED WITHIN HOLD TIME(S) (EXCLUDES TYPICAL FIELD PARAMETERS) DATE AND TIME TAKEN FROM SAMPLE BOTTLE | | | | | | | | | | | | | | |
| <u>[Signature]</u> <u>FEI</u> | | <u>6-4-14</u> | <u>10:00am</u> | <u>[Signature]</u> | <u>6-4-14</u> | <u>10:00</u> | | | | | | | | | | | | | | | |
| <u>[Signature]</u> | | <u>6-4-14</u> | <u>10:30</u> | <u>[Signature]</u> | <u>6-4-14</u> | <u>10:50</u> | | | | | | | | | | | | | | | |
| <u>[Signature]</u> | | | | | | | | | | | | | | | | | | | | | |
| <u>[Signature]</u> | | | | | | | 200 FOR N FOR N FOR N FOR N | | | | | | | | | | | | | | |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/05/14 10:29
Report Date: 06/06/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Sample No: **4060795-01**
Sample Description: **Tank 3 Start-Up**

Collect Date: **06/05/14 09:00**
Matrix: **Waste Water Grab**

| Parameters | Result | Qual | Analysis Date | Analyst | Method |
|--|-------------|------|----------------|---------|------------------------|
| <u>Anions - STL</u> | | | | | |
| Nitrate-N | 0.93 mg/L | | 06/06/14 09:29 | DWM | EPA 300.0 R2.1 04KS |
| Nitrite-N | < 0.50 mg/L | | 06/06/14 09:29 | DWM | EPA 300.0 R2.1 04KS |
| <u>General Chemistry - STL</u> | | | | | |
| COD | 2400 mg/L | | 06/06/14 08:18 | DAW | SM 5220D 18Ed 04KS |
| Solids - total suspended solids (TSS) | 3300 mg/L | | 06/05/14 12:25 | DAW | SM 2540D 18Ed 04KS |
| Solids - total volatile suspended solids | 1100 mg/L | | 06/06/14 13:00 | DAW | SM 2540E 18Ed* |
| <u>Nutrients - STL</u> | | | | | |
| Ammonia-N | 67 mg/L | | 06/05/14 11:15 | ACV | SM(18) 4500 NH3 F 04KS |
| <u>Soluble Metals - STL</u> | | | | | |
| Zinc | 0.19 mg/L | | 06/06/14 14:04 | WPS | EPA 200.7 R4.4 04KS |
| <u>Soluble Nutrients - STL</u> | | | | | |
| Phosphorus - ortho as P | 0.69 mg/L | | 06/05/14 15:00 | ACV | SM 4500P B E 18ed* |
| <u>Total Metals - STL</u> | | | | | |
| Zinc | 0.99 mg/L | | 06/06/14 14:09 | WPS | EPA 200.7 R4.4 04KS |

Sample No: **4060795-02**
Sample Description: **Tank 2 Start-Up**

Collect Date: **06/05/14 09:17**
Matrix: **Waste Water**

| Parameters | Result | Qual | Analysis Date | Analyst | Method |
|---------------------------------------|------------|------|----------------|---------|------------------------|
| <u>General Chemistry - STL</u> | | | | | |
| COD | 51000 mg/L | | 06/06/14 08:18 | DAW | SM 5220D 18Ed 04KS |
| Solids - total suspended solids (TSS) | 3500 mg/L | | 06/05/14 12:25 | DAW | SM 2540D 18Ed 04KS |
| <u>Nutrients - STL</u> | | | | | |
| Ammonia-N | 590 mg/L | | 06/05/14 11:15 | ACV | SM(18) 4500 NH3 F 04KS |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/05/14 10:29
Report Date: 06/06/14
Customer #: 277310
PO#: 4167739

Laboratory Results

General Chemistry - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|--|--------|-------|--|---------------|------|-------------|-----|-----------|
| Batch B409205 - 04-No Prep WC | | | | | | | | |
| Blank (B409205-BLK1) | | | Prepared & Analyzed: 06/05/14 | | | | | |
| Solids - total suspended solids (TSS) | < 2.0 | mg/L | | | | | | |
| LCS (B409205-BS1) | | | Prepared & Analyzed: 06/05/14 | | | | | |
| Solids - total suspended solids (TSS) | 99.0 | mg/L | 100.0 | | 99 | 82.9-110 | | |
| Duplicate (B409205-DUP1) | | | Source: 4060628-02 Prepared & Analyzed: 06/05/14 | | | | | |
| Solids - total suspended solids (TSS) | 12.8 | mg/L | | 12.4 | | | 3 | 5 |
| Duplicate (B409205-DUP2) | | | Source: 4060795-01 Prepared & Analyzed: 06/05/14 | | | | | |
| Solids - total suspended solids (TSS) | 3240 | mg/L | | 3300 | | | 2 | 5 |
| Batch B409275 - 04-No Prep WC | | | | | | | | |
| Calibration Blank (B409275-CCB1) | | | Prepared: 06/05/14 Analyzed: 06/06/14 | | | | | |
| COD | -0.266 | mg/L | | | | | | |
| Calibration Blank (B409275-CCB2) | | | Prepared: 06/05/14 Analyzed: 06/06/14 | | | | | |
| COD | -5.07 | mg/L | | | | | | |
| Calibration Check (B409275-CCV1) | | | Prepared: 06/05/14 Analyzed: 06/06/14 | | | | | |
| COD | 102 | mg/L | 100.0 | | 102 | 95-105 | | |
| Calibration Check (B409275-CCV2) | | | Prepared: 06/05/14 Analyzed: 06/06/14 | | | | | |
| COD | 498 | mg/L | 500.0 | | 100 | 95-105 | | |
| Duplicate (B409275-DUP1) | | | Source: 4060676-01 Prepared: 06/05/14 Analyzed: 06/06/14 | | | | | |
| COD | 10.2 | mg/L | | 9.92 | | | 3 | 20 |
| Duplicate (B409275-DUP2) | | | Source: 4060795-02 Prepared: 06/05/14 Analyzed: 06/06/14 | | | | | |
| COD | 50600 | mg/L | | 50800 | | | 0.4 | 20 |
| Batch B409345 - 04-No Prep WC | | | | | | | | |
| Duplicate (B409345-DUP1) | | | Source: 4060795-01 Prepared & Analyzed: 06/06/14 | | | | | |
| Solids - total volatile suspended solids | 1060 | mg/L | | 1060 | | | 0 | 5 |
| Duplicate (B409345-DUP2) | | | Source: 4061092-01 Prepared & Analyzed: 06/06/14 | | | | | |
| Solids - total volatile suspended solids | 960 | mg/L | | 940 | | | 2 | 5 |
| Nutrients - Quality Control | | | | | | | | |
| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
| Batch B409272 - 04-No Prep WC | | | | | | | | |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/05/14 10:29
Report Date: 06/06/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Nutrients - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|--------|-------|---|---------------|------|-------------|-----|-----------|
| Batch B409272 - 04-No Prep WC | | | | | | | | |
| Calibration Blank (B409272-CCB1) | | | Prepared & Analyzed: 06/05/14 | | | | | |
| Ammonia-N | 0.00 | mg/L | | | | | | |
| Calibration Blank (B409272-CCB2) | | | Prepared & Analyzed: 06/05/14 | | | | | |
| Ammonia-N | 0.00 | mg/L | | | | | | |
| Calibration Check (B409272-CCV1) | | | Prepared & Analyzed: 06/05/14 | | | | | |
| Ammonia-N | 10.1 | mg/L | 10.00 | | 101 | 90-110 | | |
| Calibration Check (B409272-CCV2) | | | Prepared & Analyzed: 06/05/14 | | | | | |
| Ammonia-N | 9.86 | mg/L | 10.00 | | 99 | 90-110 | | |
| Matrix Spike (B409272-MS1) | | | Source: 4060751-01 Prepared & Analyzed: 06/05/14 | | | | | |
| Ammonia-N | 29.1 | mg/L | 10.00 | 19.5 | 96 | 80-120 | | |
| Matrix Spike (B409272-MS2) | | | Source: 4060384-02 Prepared & Analyzed: 06/05/14 | | | | | |
| Ammonia-N | 10.0 | mg/L | 10.00 | 0.160 | 98 | 80-120 | | |
| Matrix Spike Dup (B409272-MSD1) | | | Source: 4060751-01 Prepared & Analyzed: 06/05/14 | | | | | |
| Ammonia-N | 29.0 | mg/L | 10.00 | 19.5 | 95 | 80-120 | 0.3 | 20 |
| Matrix Spike Dup (B409272-MSD2) | | | Source: 4060384-02 Prepared & Analyzed: 06/05/14 | | | | | |
| Ammonia-N | 10.0 | mg/L | 10.00 | 0.160 | 98 | 80-120 | 0 | 20 |

Soluble Nutrients - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|--------|-------|---|---------------|------|-------------|-----|-----------|
| Batch B409276 - 04-No Prep WC | | | | | | | | |
| Calibration Blank (B409276-CCB1) | | | Prepared & Analyzed: 06/05/14 | | | | | |
| Phosphorus - ortho as P | 0.00 | mg/L | | | | | | |
| Calibration Check (B409276-CCV1) | | | Prepared & Analyzed: 06/05/14 | | | | | |
| Phosphorus - ortho as P | 0.509 | mg/L | 0.5000 | | 102 | 90-110 | | |
| Matrix Spike (B409276-MS1) | | | Source: 4060795-01 Prepared & Analyzed: 06/05/14 | | | | | |
| Phosphorus - ortho as P | 5.74 | mg/L | 5.000 | 0.690 | 101 | 80-120 | | |
| Matrix Spike Dup (B409276-MSD1) | | | Source: 4060795-01 Prepared & Analyzed: 06/05/14 | | | | | |
| Phosphorus - ortho as P | 5.76 | mg/L | 5.000 | 0.690 | 101 | 80-120 | 0.3 | 20 |

Total Metals - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---------|--------|-------|-------------|---------------|------|-------------|-----|-----------|
|---------|--------|-------|-------------|---------------|------|-------------|-----|-----------|



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/05/14 10:29
Report Date: 06/06/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Total Metals - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|--|---------|-------|---------------------------------------|---------------|------|-------------|-----|-----------|
| Batch B409222 - 04 EPA 200.2 R2.8 | | | | | | | | |
| Blank (B409222-BLK1) | | | Prepared: 06/05/14 Analyzed: 06/06/14 | | | | | |
| Zinc | < 0.020 | mg/L | | | | | | |
| LCS (B409222-BS1) | | | Prepared: 06/05/14 Analyzed: 06/06/14 | | | | | |
| Zinc | 0.220 | mg/L | 0.2000 | | 110 | 85-115 | | |

Soluble Metals - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|--|---------|-------|--|---------------|------|-------------|-----|-----------|
| Batch B409222 - 04 EPA 200.2 R2.8 | | | | | | | | |
| Blank (B409222-BLK1) | | | Prepared: 06/05/14 Analyzed: 06/06/14 | | | | | |
| Zinc | < 0.020 | mg/L | | | | | | |
| LCS (B409222-BS1) | | | Prepared: 06/05/14 Analyzed: 06/06/14 | | | | | |
| Zinc | 0.220 | mg/L | 0.2000 | | 110 | 85-115 | | |
| Matrix Spike (B409222-MS1) | | | Source: 4060795-01 Prepared: 06/05/14 Analyzed: 06/06/14 | | | | | |
| Zinc | 1.27 | mg/L | 1.000 | 0.194 | 107 | 70-130 | | |
| Matrix Spike Dup (B409222-MSD1) | | | Source: 4060795-01 Prepared: 06/05/14 Analyzed: 06/06/14 | | | | | |
| Zinc | 1.25 | mg/L | 1.000 | 0.194 | 105 | 70-130 | 2 | 20 |

Anions - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|--------|-------|-------------------------------|---------------|------|-------------|-----|-----------|
| Batch B409294 - 04-IC No Prep | | | | | | | | |
| Calibration Blank (B409294-CCB1) | | | Prepared & Analyzed: 06/06/14 | | | | | |
| Nitrite-N | 0.00 | mg/L | | | | | | |
| Nitrate-N | 0.00 | mg/L | | | | | | |
| Calibration Check (B409294-CCV1) | | | Prepared & Analyzed: 06/06/14 | | | | | |
| Nitrite-N | 2.12 | mg/L | 2.000 | | 106 | 90-110 | | |
| Nitrate-N | 1.23 | mg/L | 1.130 | | 109 | 90-110 | | |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/05/14 10:29
Report Date: 06/06/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Notes

This report shall not be reproduced, except in full, without the written approval of the laboratory.

PDC Laboratories participates in the following accreditation/certification and proficiency programs at the following locations. Endorsement by Federal or State Governments or their agencies is not implied.

- PIA PDC Laboratories - Peoria, IL
NELAC Accreditation for Drinking Water, Wastewater, Hazardous and Solid Wastes Fields of Testing through IL EPA Lab No. 100230
Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 17553
Drinking Water Certifications: Kansas (E-10338); Missouri (870); Wisconsin (998284430); Iowa (240)
Wastewater Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
Hazardous/Solid Waste Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
UST Certification; Iowa (240)
- SPM PDC Laboratories - Springfield, MO
EPA DMR-QA Program
- STL PDC Laboratories - St. Louis, MO
NELAC Accreditation for Wastewater, Hazardous and Solid Wastes Fields of Testing
Drinking Water Certifications: Kansas (E-10389)

Certified by: Roxann Shull, Client Services Supervisor



PDC Laboratories, Inc. – St. Louis
3278 N. Highway 67 (Lindbergh)
Florissant, MO 63033

www.pdclab.com

CHAIN OF CUSTODY RECORD

Phone (314) 432-0550 or (314) 921-4488

Fax (314) 432-4977

State where samples collected MO

(Instructions/Sample Acceptance Policy on Reverse)

ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

| | | | | | | | | | | | | | | | | | |
|----------|--|---------------------|----------------|-------------------------------------|---|--------------|--|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|------------------------|---------|------------------------------------|--------------------|----------------|-----------|
| 1 | CLIENT <i>BARR/BRIDGETON LF</i> | PROJECT NUMBER | P. O. NUMBER | MEANS SHIPPED | | | 3 | ANALYSIS REQUESTED | | | | | | 4 | (FOR LAB USE ONLY) | | |
| | ADDRESS | PHONE NUMBER | FAX NUMBER | EMAIL ADDRESS | | | | COD + AMMONIA | TSS/TSS (FIBER) / NITRITE | TOTAL ZN | DISS ZN (FIELD FILTER) | DISS PH (FIELD FILTER) | TSS | | LOGIN # | <i>4060795</i> | |
| | CITY STATE ZIP | SAMPLER | | | MATRIX TYPES: WW-WASTEWATER DW-DRINKING WATER GW-GROUND WATER WWSL-SLUDGE NAS-SOLID L'CHT-LEACHATE NAL-NON-AQUEOUS SOIL-SOILS | | | | | | | | | | LOGGED BY: | <i>RS</i> | |
| | CONTACT PERSON | SAMPLER'S SIGNATURE | | | | | | | | | | | | | LAB PROJ. # | | TEMPLATE: |
| 2 | SAMPLE DESCRIPTION AS YOU WANT ON REPORT | DATE COLLECTED | TIME COLLECTED | SAMPLE TYPE | MATRIX TYPE | Bottle Count | | | | | | | REMARKS | | | | |
| | <i>T3 STARTUP</i> | <i>6/5/14</i> | <i>0900</i> | <input checked="" type="checkbox"/> | <i>LCHT</i> | <i>5</i> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | |
| | <i>T2 STARTUP</i> | <i>6/5/14</i> | <i>0917</i> | <input checked="" type="checkbox"/> | <i>LCHT</i> | <i>2</i> | <input checked="" type="checkbox"/> | | | | <input checked="" type="checkbox"/> | | | | | | |
| 5 | TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE) NORMAL (8-10 Bus. Days) RUSH (5 Bus. Days) <i>Fastrak™</i> (3 Bus. Days) <u>1-2 Bus. Days</u> Same Day DATE DUE <i>6/6/14</i> | | | | The sample temperature will be measured upon receipt at the lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature. | | | | | | | | | | | | |
| | RESULTS BY: E-MAIL FAX PHONE CALL PHONE/FAX# IF DIFFERENT FROM ABOVE | | | | 6 | | | | | | | | | | | | |
| 7 | RELINQUISHED BY: (SIGNATURE) | DATE | TIME | RECEIVED BY: | DATE | TIME | 8 | | | | | | | COMMENTS:(FOR LAB USE ONLY) | | | |
| | <i>[Signature]</i> | <i>6-5-14</i> | <i>10:05am</i> | <i>[Signature]</i> | <i>6-5-14</i> | <i>10:05</i> | | | | | | | | | | | |
| | RELINQUISHED BY: (SIGNATURE) | DATE | TIME | RECEIVED BY: | DATE | TIME | | | | | | | | | | | |
| | <i>[Signature]</i> | <i>6-5-14</i> | <i>10:29</i> | <i>[Signature]</i> | <i>6/5/14</i> | <i>10:29</i> | | | | | | | | | | | |
| | RELINQUISHED BY: (SIGNATURE) | DATE | TIME | RECEIVED BY: | DATE | TIME | SAMPLE TEMPERATURE UPON RECEIPT _____ °C CHILL PROCESS STARTED PRIOR TO RECEIPT Y OR N SAMPLE(S) RECEIVED ON ICE Y OR N PROPER BOTTLES RECEIVED IN GOOD CONDITION Y OR N BOTTLES FILLED WITH ADEQUATE VOLUME Y OR N SAMPLES RECEIVED WITHIN HOLD TIME(S) Y OR N (EXCLUDES TYPICAL FIELD PARAMETERS) DATE AND TME TAKEN FROM SAMPLE BOTTLE _____ | | | | | | | | | | |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/06/14 10:36
Report Date: 06/10/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Sample No: **4061092-01**
Sample Description: **Tank 3 Start-Up 6/06**

Collect Date: **06/06/14 09:05**
Matrix: **Waste Water Grab**

| Parameters | Result | Qual | Analysis Date | Analyst | Method |
|--|-------------|------|----------------|---------|---------------------------|
| <u>Anions - STL</u> | | | | | |
| Nitrate-N | 0.83 mg/L | | 06/07/14 11:27 | DWM | EPA 300.0 R2.1 04KS |
| Nitrite-N | < 0.50 mg/L | | 06/07/14 11:27 | DWM | EPA 300.0 R2.1 04KS |
| <u>General Chemistry - STL</u> | | | | | |
| COD | 2200 mg/L | | 06/06/14 14:01 | DAW | SM 5220D 18Ed 04KS |
| Solids - total suspended solids (TSS) | 3300 mg/L | | 06/06/14 12:00 | DAW | SM 2540D 18Ed 04KS |
| Solids - total volatile suspended solids | 940 mg/L | | 06/06/14 13:00 | DAW | SM 2540E 18Ed* |
| <u>Nutrients - STL</u> | | | | | |
| Ammonia-N | 74 mg/L | | 06/06/14 12:00 | ACV | SM(18) 4500 NH3 04KS F |

Sample No: **4061092-02**
Sample Description: **Tank 2 Start-Up 6/06**

Collect Date: **06/06/14 09:15**
Matrix: **Waste Water**

| Parameters | Result | Qual | Analysis Date | Analyst | Method |
|---------------------------------------|------------|------|----------------|---------|---------------------------|
| <u>General Chemistry - STL</u> | | | | | |
| COD | 35000 mg/L | | 06/06/14 14:01 | DAW | SM 5220D 18Ed 04KS |
| Solids - total suspended solids (TSS) | 3600 mg/L | | 06/06/14 12:00 | DAW | SM 2540D 18Ed 04KS |
| <u>Nutrients - STL</u> | | | | | |
| Ammonia-N | 420 mg/L | | 06/06/14 12:00 | ACV | SM(18) 4500 NH3 04KS F |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/06/14 10:36
Report Date: 06/10/14
Customer #: 277310
PO#: 4167739

Laboratory Results

General Chemistry - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---------|--------|-------|-------------|---------------|------|-------------|-----|-----------|
|---------|--------|-------|-------------|---------------|------|-------------|-----|-----------|

Batch B409306 - 04-No Prep WC

| | | | | | | | | |
|---------------------------------------|-------|--|-------|------|----------|--|-----|---|
| Blank (B409306-BLK1) | | Prepared & Analyzed: 06/06/14 | | | | | | |
| Solids - total suspended solids (TSS) | < 2.0 | mg/L | | | | | | |
| LCS (B409306-BS1) | | Prepared & Analyzed: 06/06/14 | | | | | | |
| Solids - total suspended solids (TSS) | 100 | mg/L | 100.0 | 100 | 82.9-110 | | | |
| Duplicate (B409306-DUP1) | | Source: 4061003-01 Prepared & Analyzed: 06/06/14 | | | | | | |
| Solids - total suspended solids (TSS) | 1420 | mg/L | | 1420 | | | 0 | 5 |
| Duplicate (B409306-DUP2) | | Source: 4061092-01 Prepared & Analyzed: 06/06/14 | | | | | | |
| Solids - total suspended solids (TSS) | 3300 | mg/L | | 3280 | | | 0.6 | 5 |

Batch B409339 - 04-No Prep WC

| | | | | | | | | |
|---|----------|--|-------|-------|--------|--|---|----|
| Calibration Blank (B409339-CCB1) | | Prepared & Analyzed: 06/06/14 | | | | | | |
| COD | -0.00477 | mg/L | | | | | | |
| Calibration Blank (B409339-CCB2) | | Prepared & Analyzed: 06/06/14 | | | | | | |
| COD | -5.07 | mg/L | | | | | | |
| Calibration Check (B409339-CCV1) | | Prepared & Analyzed: 06/06/14 | | | | | | |
| COD | 101 | mg/L | 100.0 | 101 | 95-105 | | | |
| Calibration Check (B409339-CCV2) | | Prepared & Analyzed: 06/06/14 | | | | | | |
| COD | 493 | mg/L | 500.0 | 99 | 95-105 | | | |
| Duplicate (B409339-DUP1) | | Source: 4061062-01 Prepared & Analyzed: 06/06/14 | | | | | | |
| COD | < 5.0 | mg/L | | ND | | | | 20 |
| Duplicate (B409339-DUP2) | | Source: 4061092-02 Prepared & Analyzed: 06/06/14 | | | | | | |
| COD | 35600 | mg/L | | 35000 | | | 2 | 20 |

Batch B409345 - 04-No Prep WC

| | | | | | | | | |
|--|------|--|--|------|--|--|---|---|
| Duplicate (B409345-DUP1) | | Source: 4060795-01 Prepared & Analyzed: 06/06/14 | | | | | | |
| Solids - total volatile suspended solids | 1060 | mg/L | | 1060 | | | 0 | 5 |
| Duplicate (B409345-DUP2) | | Source: 4061092-01 Prepared & Analyzed: 06/06/14 | | | | | | |
| Solids - total volatile suspended solids | 960 | mg/L | | 940 | | | 2 | 5 |

Nutrients - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---------|--------|-------|-------------|---------------|------|-------------|-----|-----------|
|---------|--------|-------|-------------|---------------|------|-------------|-----|-----------|

Batch B409347 - 04-No Prep WC



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/06/14 10:36
Report Date: 06/10/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Nutrients - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|--|--------|-------|-------------------------------|---------------|------|-------------|-----|-----------|
| Batch B409347 - 04-No Prep WC | | | | | | | | |
| Blank (B409347-BLK1) | | | Prepared & Analyzed: 06/06/14 | | | | | |
| Ammonia-N | < 0.10 | mg/L | | | | | | |
| LCS (B409347-BS1) | | | Prepared & Analyzed: 06/06/14 | | | | | |
| Ammonia-N | 10.1 | mg/L | 10.00 | | 101 | 80-120 | | |
| Matrix Spike (B409347-MS1) | | | Prepared & Analyzed: 06/06/14 | | | | | |
| Ammonia-N | 10.1 | mg/L | 10.00 | 0.342 | 98 | 80-120 | | |
| Matrix Spike Dup (B409347-MSD1) | | | Prepared & Analyzed: 06/06/14 | | | | | |
| Ammonia-N | 10.2 | mg/L | 10.00 | 0.342 | 99 | 80-120 | 1 | 20 |

Anions - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|--------|-------|-------------------------------|---------------|------|-------------|-----|-----------|
| Batch B409513 - 04-IC No Prep | | | | | | | | |
| Calibration Blank (B409513-CCB1) | | | Prepared & Analyzed: 06/07/14 | | | | | |
| Nitrate-N | 0.00 | mg/L | | | | | | |
| Nitrite-N | 0.00 | mg/L | | | | | | |
| Calibration Check (B409513-CCV1) | | | Prepared & Analyzed: 06/07/14 | | | | | |
| Nitrate-N | 1.24 | mg/L | | | | 90-110 | | |
| Nitrite-N | 2.14 | mg/L | | | | 90-110 | | |
| Matrix Spike (B409513-MS1) | | | Prepared & Analyzed: 06/07/14 | | | | | |
| Nitrate-N | 12 | mg/L | 11.30 | 0.89 | 101 | 80-120 | | |
| Nitrite-N | 15.5 | mg/L | 25.00 | ND | 62 | 80-120 | | |
| Matrix Spike Dup (B409513-MSD1) | | | Prepared & Analyzed: 06/07/14 | | | | | |
| Nitrite-N | 15.3 | mg/L | 25.00 | ND | 61 | 80-120 | 2 | 20 |
| Nitrate-N | 12 | mg/L | 11.30 | 0.89 | 101 | 80-120 | 0.2 | 20 |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/06/14 10:36
Report Date: 06/10/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Notes

This report shall not be reproduced, except in full, without the written approval of the laboratory.

PDC Laboratories participates in the following accreditation/certification and proficiency programs at the following locations. Endorsement by Federal or State Governments or their agencies is not implied.

- PIA PDC Laboratories - Peoria, IL
NELAC Accreditation for Drinking Water, Wastewater, Hazardous and Solid Wastes Fields of Testing through IL EPA Lab No. 100230
Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 17553
Drinking Water Certifications: Kansas (E-10338); Missouri (870); Wisconsin (998284430); Iowa (240)
Wastewater Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
Hazardous/Solid Waste Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
UST Certification; Iowa (240)
- SPM PDC Laboratories - Springfield, MO
EPA DMR-QA Program
- STL PDC Laboratories - St. Louis, MO
NELAC Accreditation for Wastewater, Hazardous and Solid Wastes Fields of Testing
Drinking Water Certifications: Kansas (E-10389)

Certified by: Roxann Shull, Client Services Supervisor



PDC Laboratories, Inc. – St. Louis
3278 N. Highway 67 (Lindbergh)
Florissant, MO 63033

www.pdclab.com

CHAIN OF CUSTODY RECORD
 Phone (314) 432-0550 or (314) 921-4488
 Fax (314) 432-4977

State where samples collected _____

(Instructions/Sample Acceptance Policy on Reverse)

ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

| | | | | | | |
|--|----------------------------|--|---|--|---|---|
| 1 CLIENT RSI Bridge ton ADDRESS CITY STATE ZIP CONTACT PERSON | PROJECT NUMBER Leachate | P. O. NUMBER | MEANS SHIPPED | 3 ANALYSIS REQUESTED COD ammonia TSS MLSS/mLSS Nitrate/Nitrite | 4 (FOR LAB USE ONLY) LOGIN # 4061092 LOGGED BY: [Signature] LAB PROJ. # TEMPLATE: PROJ. MGR.: [Signature] | |
| | PHONE NUMBER | FAX NUMBER | EMAIL ADDRESS | | | |
| | SAMPLER | MATRIX TYPES: WW-WASTEWATER DW-DRINKING WATER GW-GROUND WATER WWSL-SLUDGE NAS-SOLID L'CHT-LEACHATE NAL-NONAQUEOUS SOIL-SOILS | | | | |
| | SAMPLER'S SIGNATURE | | | | | |
| 2 SAMPLE DESCRIPTION AS YOU WANT ON REPORT | DATE COLLECTED | TIME COLLECTED | SAMPLE TYPE GRAB | MATRIX COMP TYPE | Bottle Count | REMARKS |
| Tank 3 Startup | 6-6-14 | 9:05am | X | L'cht | 2 | |
| Tank 2 Startup | 6-6-14 | 9:15am | X | L'cht | 2 | |
| 5 TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE) NORMAL (8-10 Bus. Days) RUSH (5 Bus. Days) Fastrak™ (3 Bus. Days) <u>1-2 Bus. Days</u> Same Day DATE DUE <u>6-7-2014</u> | | | The sample temperature will be measured upon receipt at the lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature. | | | |
| RESULTS BY: E-MAIL FAX PHONE CALL PHONE/FAX# IF DIFFERENT FROM ABOVE | | | 6 | | | |
| 7 RELINQUISHED BY: (SIGNATURE) [Signature] RELINQUISHED BY: (SIGNATURE) [Signature] RELINQUISHED BY: (SIGNATURE) [Signature] | DATE 6-6-14 | TIME 10:05 | RECEIVED BY: [Signature] | DATE 6/6/14 | TIME 10:05 | 8 COMMENTS:(FOR LAB USE ONLY) SAMPLE TEMPERATURE UPON RECEIPT <u>25.3</u> °C CHILL PROCESS STARTED PRIOR TO RECEIPT Y OR N SAMPLE(S) RECEIVED ON ICE Y OR N PROPER BOTTLES RECEIVED IN GOOD CONDITION Y OR N BOTTLES FILLED WITH ADEQUATE VOLUME Y OR N SAMPLES RECEIVED WITHIN HOLD TIME(S) (EXCLUDES TYPICAL FIELD PARAMETERS) Y OR N DATE AND TME TAKEN FROM SAMPLE BOTTLE |
| | DATE 6/6/14 | TIME 10:36 | RECEIVED BY: [Signature] | DATE 6/6/14 | TIME 10:36 | |
| | DATE | TIME | RECEIVED BY: | DATE | TIME | |
| | DATE | TIME | RECEIVED BY: | DATE | TIME | |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/09/14 11:08
Report Date: 06/10/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Sample No: **4061255-01**
Sample Description: **Tank 3 Start-Up**

Collect Date: **06/07/14 09:33**
Matrix: **Waste Water Grab**

| Parameters | Result | Qual | Analysis Date | Analyst | Method |
|--|-------------|------|----------------|---------|---------------------------|
| <u>Anions - STL</u> | | | | | |
| Nitrate-N | 0.89 mg/L | | 06/07/14 12:00 | DWM | EPA 300.0 R2.1 04KS |
| Nitrite-N | < 0.50 mg/L | Q3 | 06/07/14 12:00 | DWM | EPA 300.0 R2.1 04KS |
| <u>General Chemistry - STL</u> | | | | | |
| COD | 2000 mg/L | | 06/07/14 13:00 | DWM | SM 5220D 18Ed 04KS |
| Solids - total suspended solids (TSS) | 2800 mg/L | | 06/07/14 11:00 | DWM | SM 2540D 18Ed 04KS |
| Solids - total volatile suspended solids | 880 mg/L | | 06/09/14 13:00 | DAW | SM 2540E 18Ed* |
| <u>Nutrients - STL</u> | | | | | |
| Ammonia-N | 68 mg/L | | 06/07/14 11:45 | ACV | SM(18) 4500 NH3 04KS F |

Sample No: **4061255-02**
Sample Description: **Tank 2 Start-Up**

Collect Date: **06/07/14 09:36**
Matrix: **Waste Water**

| Parameters | Result | Qual | Analysis Date | Analyst | Method |
|---------------------------------------|------------|------|----------------|---------|---------------------------|
| <u>General Chemistry - STL</u> | | | | | |
| COD | 21000 mg/L | | 06/07/14 13:00 | DWM | SM 5220D 18Ed 04KS |
| Solids - total suspended solids (TSS) | 3400 mg/L | | 06/07/14 11:00 | DWM | SM 2540D 18Ed 04KS |
| <u>Nutrients - STL</u> | | | | | |
| Ammonia-N | 290 mg/L | | 06/07/14 11:45 | ACV | SM(18) 4500 NH3 04KS F |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/09/14 11:08
Report Date: 06/10/14
Customer #: 277310
PO#: 4167739

Laboratory Results

General Chemistry - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|--|--------|-------|--|---------------|------|-------------|-----|-----------|
| Batch B409417 - 04-No Prep WC | | | | | | | | |
| Blank (B409417-BLK1) | | | Prepared & Analyzed: 06/07/14 | | | | | |
| Solids - total suspended solids (TSS) | < 2.0 | mg/L | | | | | | |
| LCS (B409417-BS1) | | | Prepared & Analyzed: 06/07/14 | | | | | |
| Solids - total suspended solids (TSS) | 94.0 | mg/L | 100.0 | | 94 | 82.9-110 | | |
| Duplicate (B409417-DUP1) | | | Source: 4061255-02 Prepared & Analyzed: 06/07/14 | | | | | |
| Solids - total suspended solids (TSS) | 3460 | mg/L | | 3440 | | | 0.6 | 5 |
| Batch B409418 - 04-No Prep WC | | | | | | | | |
| Calibration Blank (B409418-CCB1) | | | Prepared & Analyzed: 06/07/14 | | | | | |
| COD | -5.10 | mg/L | | | | | | |
| Calibration Check (B409418-CCV1) | | | Prepared & Analyzed: 06/07/14 | | | | | |
| COD | 482 | mg/L | 500.0 | | 96 | 95-105 | | |
| Batch B409435 - 04-No Prep WC | | | | | | | | |
| Duplicate (B409435-DUP1) | | | Source: 4061256-01 Prepared & Analyzed: 06/09/14 | | | | | |
| Solids - total volatile suspended solids | 900 | mg/L | | 880 | | | 2 | 5 |

Nutrients - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|--------|-------|--|---------------|------|-------------|-----|-----------|
| Batch B409437 - 04-No Prep WC | | | | | | | | |
| Calibration Blank (B409437-CCB1) | | | Prepared & Analyzed: 06/07/14 | | | | | |
| Ammonia-N | 0.00 | mg/L | | | | | | |
| Calibration Check (B409437-CCV1) | | | Prepared & Analyzed: 06/07/14 | | | | | |
| Ammonia-N | 10.2 | mg/L | 10.00 | | 102 | 90-110 | | |
| Matrix Spike (B409437-MS1) | | | Source: 4061255-02 Prepared & Analyzed: 06/07/14 | | | | | |
| Ammonia-N | 393 | mg/L | 100.0 | 290 | 103 | 80-120 | | |
| Matrix Spike Dup (B409437-MSD1) | | | Source: 4061255-02 Prepared & Analyzed: 06/07/14 | | | | | |
| Ammonia-N | 392 | mg/L | 100.0 | 290 | 102 | 80-120 | 0.3 | 20 |

Anions - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|--------------------------------------|--------|-------|-------------|---------------|------|-------------|-----|-----------|
| Batch B409437 - 04-No Prep WC | | | | | | | | |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/09/14 11:08
Report Date: 06/10/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Anions - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|--------|-------|-------------------------------|---------------|-------------------------------|-------------|-----|-----------|
| Batch B409513 - 04-IC No Prep | | | | | | | | |
| Calibration Blank (B409513-CCB1) | | | Prepared & Analyzed: 06/07/14 | | | | | |
| Nitrate-N | 0.00 | mg/L | | | | | | |
| Nitrite-N | 0.00 | mg/L | | | | | | |
| Calibration Check (B409513-CCV1) | | | Prepared & Analyzed: 06/07/14 | | | | | |
| Nitrate-N | 1.24 | mg/L | | | | 90-110 | | |
| Nitrite-N | 2.14 | mg/L | | | | 90-110 | | |
| Matrix Spike (B409513-MS1) | | | Source: 4061255-01 | | Prepared & Analyzed: 06/07/14 | | | |
| Nitrate-N | 12 | mg/L | 11.30 | 0.89 | 101 | 80-120 | | |
| Nitrite-N | 15.5 | mg/L | 25.00 | ND | 62 | 80-120 | | |
| Matrix Spike Dup (B409513-MSD1) | | | Source: 4061255-01 | | Prepared & Analyzed: 06/07/14 | | | |
| Nitrite-N | 15.3 | mg/L | 25.00 | ND | 61 | 80-120 | 2 | 20 |
| Nitrate-N | 12 | mg/L | 11.30 | 0.89 | 101 | 80-120 | 0.2 | 20 |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/09/14 11:08
Report Date: 06/10/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Notes

This report shall not be reproduced, except in full, without the written approval of the laboratory.

PDC Laboratories participates in the following accreditation/certification and proficiency programs at the following locations. Endorsement by Federal or State Governments or their agencies is not implied.

- PIA PDC Laboratories - Peoria, IL
NELAC Accreditation for Drinking Water, Wastewater, Hazardous and Solid Wastes Fields of Testing through IL EPA Lab No. 100230
Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 17553
Drinking Water Certifications: Kansas (E-10338); Missouri (870); Wisconsin (998284430); Iowa (240)
Wastewater Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
Hazardous/Solid Waste Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
UST Certification; Iowa (240)
- SPM PDC Laboratories - Springfield, MO
EPA DMR-QA Program
- STL PDC Laboratories - St. Louis, MO
NELAC Accreditation for Wastewater, Hazardous and Solid Wastes Fields of Testing
Drinking Water Certifications: Kansas (E-10389)

Q3 MS/MSD both failed %R

Certified by: Roxann Shull, Client Services Supervisor



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/09/14 11:15
Report Date: 06/10/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Sample No: **4061256-01**
Sample Description: **Tank 3 Start-Up**

Collect Date: **06/08/14 09:37**
Matrix: **Waste Water Grab**

| Parameters | Result | Qual | Analysis Date | Analyst | Method |
|--|-------------|------|----------------|---------|---------------------------|
| <u>Anions - STL</u> | | | | | |
| Nitrate-N | 0.82 mg/L | | 06/09/14 16:09 | DWM | EPA 300.0 R2.1 04KS |
| Nitrite-N | < 0.50 mg/L | | 06/09/14 16:09 | DWM | EPA 300.0 R2.1 04KS |
| <u>General Chemistry - STL</u> | | | | | |
| COD | 2200 mg/L | | 06/09/14 14:19 | DAW | SM 5220D 18Ed 04KS |
| Solids - total suspended solids (TSS) | 3100 mg/L | | 06/09/14 11:45 | DAW | SM 2540D 18Ed 04KS |
| Solids - total volatile suspended solids | 880 mg/L | | 06/09/14 13:00 | DAW | SM 2540E 18Ed* |
| <u>Nutrients - STL</u> | | | | | |
| Ammonia-N | 62 mg/L | | 06/09/14 12:30 | ACV | SM(18) 4500 NH3 04KS F |

Sample No: **4061256-02**
Sample Description: **Tank 2 Start-Up**

Collect Date: **06/08/14 09:41**
Matrix: **Waste Water**

| Parameters | Result | Qual | Analysis Date | Analyst | Method |
|---------------------------------------|------------|------|----------------|---------|---------------------------|
| <u>General Chemistry - STL</u> | | | | | |
| COD | 27000 mg/L | | 06/09/14 14:19 | DAW | SM 5220D 18Ed 04KS |
| Solids - total suspended solids (TSS) | 4000 mg/L | | 06/09/14 11:45 | DAW | SM 2540D 18Ed 04KS |
| <u>Nutrients - STL</u> | | | | | |
| Ammonia-N | 290 mg/L | | 06/09/14 12:30 | ACV | SM(18) 4500 NH3 04KS F |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/09/14 11:15
Report Date: 06/10/14
Customer #: 277310
PO#: 4167739

Laboratory Results

General Chemistry - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|--|--------|-------|--|---------------|------|-------------|-----|-----------|
| Batch B409405 - 04-No Prep WC | | | | | | | | |
| Blank (B409405-BLK1) | | | Prepared & Analyzed: 06/09/14 | | | | | |
| Solids - total suspended solids (TSS) | < 2.0 | mg/L | | | | | | |
| LCS (B409405-BS1) | | | Prepared & Analyzed: 06/09/14 | | | | | |
| Solids - total suspended solids (TSS) | 99.0 | mg/L | 100.0 | | 99 | 82.9-110 | | |
| Duplicate (B409405-DUP1) | | | Source: 4061256-01 Prepared & Analyzed: 06/09/14 | | | | | |
| Solids - total suspended solids (TSS) | 3020 | mg/L | | 3060 | | | 1 | 5 |
| Batch B409429 - 04-No Prep WC | | | | | | | | |
| Calibration Blank (B409429-CCB2) | | | Prepared & Analyzed: 06/09/14 | | | | | |
| COD | -5.10 | mg/L | | | | | | |
| Calibration Check (B409429-CCV2) | | | Prepared & Analyzed: 06/09/14 | | | | | |
| COD | 498 | mg/L | 500.0 | | 100 | 95-105 | | |
| Duplicate (B409429-DUP2) | | | Source: 4061256-02 Prepared & Analyzed: 06/09/14 | | | | | |
| COD | 26700 | mg/L | | 26500 | | | 0.8 | 20 |
| Batch B409435 - 04-No Prep WC | | | | | | | | |
| Duplicate (B409435-DUP1) | | | Source: 4061256-01 Prepared & Analyzed: 06/09/14 | | | | | |
| Solids - total volatile suspended solids | 900 | mg/L | | 880 | | | 2 | 5 |
| Nutrients - Quality Control | | | | | | | | |
| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
| Batch B409436 - 04-No Prep WC | | | | | | | | |
| Calibration Blank (B409436-CCB1) | | | Prepared & Analyzed: 06/09/14 | | | | | |
| Ammonia-N | 0.00 | mg/L | | | | | | |
| Calibration Check (B409436-CCV1) | | | Prepared & Analyzed: 06/09/14 | | | | | |
| Ammonia-N | 10.1 | mg/L | 10.00 | | 101 | 90-110 | | |
| Matrix Spike (B409436-MS1) | | | Source: 4061256-01 Prepared & Analyzed: 06/09/14 | | | | | |
| Ammonia-N | 72.1 | mg/L | 10.00 | 62.5 | 96 | 80-120 | | |
| Matrix Spike Dup (B409436-MSD1) | | | Source: 4061256-01 Prepared & Analyzed: 06/09/14 | | | | | |
| Ammonia-N | 72.3 | mg/L | 10.00 | 62.5 | 98 | 80-120 | 0.3 | 20 |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/09/14 11:15
Report Date: 06/10/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Anions - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|--------|-------|---------------------------------------|---------------|------|-------------------------------|-----|-----------|
| Batch B409442 - 04-IC No Prep | | | | | | | | |
| Calibration Blank (B409442-CCB1) | | | Prepared: 06/09/14 Analyzed: 06/10/14 | | | | | |
| Nitrate-N | 0.00 | mg/L | | | | | | |
| Nitrite-N | 0.00 | mg/L | | | | | | |
| Calibration Check (B409442-CCV1) | | | Prepared: 06/09/14 Analyzed: 06/10/14 | | | | | |
| Nitrate-N | 1.24 | mg/L | 1.130 | | 109 | 90-110 | | |
| Nitrite-N | 2.16 | mg/L | 2.000 | | 108 | 90-110 | | |
| Matrix Spike (B409442-MS1) | | | Source: 4061256-01 | | | Prepared & Analyzed: 06/09/14 | | |
| Nitrate-N | 13 | mg/L | 11.30 | 0.82 | 109 | 80-120 | | |
| Nitrite-N | 27.1 | mg/L | 25.00 | ND | 108 | 80-120 | | |
| Matrix Spike Dup (B409442-MSD1) | | | Source: 4061256-01 | | | Prepared & Analyzed: 06/09/14 | | |
| Nitrite-N | 28.2 | mg/L | 25.00 | ND | 113 | 80-120 | 4 | 20 |
| Nitrate-N | 13 | mg/L | 11.30 | 0.82 | 105 | 80-120 | 4 | 20 |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/09/14 11:15
Report Date: 06/10/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Notes

This report shall not be reproduced, except in full, without the written approval of the laboratory.

PDC Laboratories participates in the following accreditation/certification and proficiency programs at the following locations. Endorsement by Federal or State Governments or their agencies is not implied.

- PIA PDC Laboratories - Peoria, IL
NELAC Accreditation for Drinking Water, Wastewater, Hazardous and Solid Wastes Fields of Testing through IL EPA Lab No. 100230
Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 17553
Drinking Water Certifications: Kansas (E-10338); Missouri (870); Wisconsin (998284430); Iowa (240)
Wastewater Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
Hazardous/Solid Waste Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
UST Certification; Iowa (240)
- SPM PDC Laboratories - Springfield, MO
EPA DMR-QA Program
- STL PDC Laboratories - St. Louis, MO
NELAC Accreditation for Wastewater, Hazardous and Solid Wastes Fields of Testing
Drinking Water Certifications: Kansas (E-10389)

Certified by: Roxann Shull, Client Services Supervisor



PDC Laboratories, Inc. – St. Louis
3278 N. Highway 67 (Lindbergh)
Florissant, MO 63033
 www.pdclab.com

CHAIN OF CUSTODY RECORD
 Phone (314) 432-0550 or (314) 921-4488
 Fax (314) 432-4977

State where samples collected _____
 (Instructions/Sample Acceptance Policy on Reverse)

ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

| | | | | | | | |
|---|--|---|--|--|--|--|--|
| 1 CLIENT <i>Bridgetan</i> ADDRESS CITY, STATE, ZIP CONTACT PERSON | | PROJECT NUMBER <i>Leachate</i> PHONE NUMBER P.O. NUMBER FAX NUMBER EMAIL ADDRESS | MEANS SHIPPED ANALYSIS REQUESTED <i>COA</i> <i>Ammonia</i> <i>TSS</i> <i>MSS/MBSS</i> <i>Nitrate/Nitrite</i> | 4 (FOR LAB USE ONLY) LOGIN # <i>4061256</i> LOGGED BY: <i>HE</i> LAB PROJ. # TEMPLATE: PROJ. MGR.: | | | |
| 2 SAMPLE DESCRIPTION AS YOU WANT ON REPORT DATE COLLECTED TIME COLLECTED SAMPLE TYPE MATRIX TYPE Bottle Count | | SAMPLER <i>Hunter King</i> SAMPLER'S SIGNATURE <i>Hunter King</i> MATRIX TYPES: WW-WASTEWATER DW-DRINKING WATER GW-GROUND WATER WWSL-SLUDGE NAS-SOLID LCHT-LEACHATE NAL-NONAQUEOUS SOIL-SOILS | | REMARKS | | | |
| <i>Tank 3 startup</i> <i>Tank 2 startup</i> | | <i>6/8/14</i> <i>9:37</i> <i>9:41</i> | <i>X</i> <i>X</i> | <i>LHT</i> <i>LHT</i> | <i>2</i> <i>2</i> | <i>X</i> <i>X</i> <i>X</i> <i>X</i> | |
| 5 TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE) NORMAL (8-10 Bus. Days) RUSH (5 Bus. Days) Fastrak™ (3 Bus. Days) <u>1-2 Bus. Days</u> Same Day DATE DUE <i>6/19/14</i> | | The sample temperature will be measured upon receipt at the lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature. | | 6 | | | |
| RESULTS BY: E-MAIL FAX PHONE CALL PHONE/FAX# IF DIFFERENT FROM ABOVE | | | | | | | |
| 7 RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i> <i>FBI</i> RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i> RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i> RELINQUISHED BY: (SIGNATURE) | | DATE <i>6-9-14</i> TIME <i>10:30am</i> DATE <i>6-9-14</i> TIME <i>10:50</i> DATE DATE | RECEIVED BY: <i>[Signature]</i> RECEIVED BY: <i>[Signature]</i> RECEIVED BY: RECEIVED BY: | DATE <i>6-9-14</i> TIME <i>10:30</i> DATE <i>6/9/14</i> TIME <i>10:50</i> DATE TIME | 8 COMMENTS: (FOR LAB USE ONLY) SAMPLE TEMPERATURE UPON RECEIPT CHILL PROCESS STARTED PRIOR TO RECEIPT SAMPLE(S) RECEIVED ON ICE PROPER BOTTLES RECEIVED IN GOOD CONDITION BOTTLES FILLED WITH ADEQUATE VOLUME SAMPLES RECEIVED WITHIN HOLD TIME(S) (EXCLUDES TYPICAL FIELD PARAMETERS) DATE AND TIME TAKEN FROM SAMPLE BOTTLE <i>4.4</i> <i>°C</i> YOR N YOR N YOR N YOR N YOR N | | |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/09/14 11:20
Report Date: 06/10/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Sample No: **4061259-01**
Sample Description: **Tank 3 Start-Up**

Collect Date: **06/09/14 09:40**
Matrix: **Waste Water Grab**

| Parameters | Result | Qual | Analysis Date | Analyst | Method |
|--|-------------|------|----------------|---------|------------------------|
| <u>Anions - STL</u> | | | | | |
| Nitrate-N | 0.96 mg/L | | 06/09/14 16:39 | DWM | EPA 300.0 R2.1 04KS |
| Nitrite-N | < 0.50 mg/L | | 06/09/14 16:39 | DWM | EPA 300.0 R2.1 04KS |
| <u>General Chemistry - STL</u> | | | | | |
| COD | 2000 mg/L | | 06/09/14 14:20 | DAW | SM 5220D 18Ed 04KS |
| Solids - total suspended solids (TSS) | 2100 mg/L | | 06/09/14 11:45 | DAW | SM 2540D 18Ed 04KS |
| Solids - total volatile suspended solids | 600 mg/L | | 06/09/14 13:00 | DAW | SM 2540E 18Ed* |
| <u>Nutrients - STL</u> | | | | | |
| Ammonia-N | 63 mg/L | | 06/09/14 12:30 | ACV | SM(18) 4500 NH3 F 04KS |
| <u>Soluble Metals - STL</u> | | | | | |
| Zinc | 0.17 mg/L | | 06/10/14 10:10 | WPS | EPA 200.7 R4.4 04KS |
| <u>Soluble Nutrients - STL</u> | | | | | |
| Phosphorus - ortho as P | 11 mg/L | | 06/09/14 13:30 | ACV | SM 4500P B E 18ed* |
| <u>Total Metals - STL</u> | | | | | |
| Zinc | 1.1 mg/L | | 06/10/14 10:09 | WPS | EPA 200.7 R4.4 04KS |

Sample No: **4061259-02**
Sample Description: **Tank 2 Start-Up**

Collect Date: **06/09/14 09:45**
Matrix: **Waste Water**

| Parameters | Result | Qual | Analysis Date | Analyst | Method |
|---------------------------------------|------------|------|----------------|---------|------------------------|
| <u>General Chemistry - STL</u> | | | | | |
| COD | 26000 mg/L | | 06/09/14 14:20 | DAW | SM 5220D 18Ed 04KS |
| Solids - total suspended solids (TSS) | 4400 mg/L | | 06/09/14 11:45 | DAW | SM 2540D 18Ed 04KS |
| <u>Nutrients - STL</u> | | | | | |
| Ammonia-N | 290 mg/L | | 06/09/14 12:30 | ACV | SM(18) 4500 NH3 F 04KS |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/09/14 11:20
Report Date: 06/10/14
Customer #: 277310
PO#: 4167739

Laboratory Results

General Chemistry - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|--|--------|-------|--|---------------|------|-------------|-----|-----------|
| Batch B409405 - 04-No Prep WC | | | | | | | | |
| Blank (B409405-BLK1) | | | Prepared & Analyzed: 06/09/14 | | | | | |
| Solids - total suspended solids (TSS) | < 2.0 | mg/L | | | | | | |
| LCS (B409405-BS1) | | | Prepared & Analyzed: 06/09/14 | | | | | |
| Solids - total suspended solids (TSS) | 99.0 | mg/L | 100.0 | | 99 | 82.9-110 | | |
| Duplicate (B409405-DUP1) | | | Source: 4061256-01 Prepared & Analyzed: 06/09/14 | | | | | |
| Solids - total suspended solids (TSS) | 3020 | mg/L | | 3060 | | | 1 | 5 |
| Batch B409429 - 04-No Prep WC | | | | | | | | |
| Calibration Blank (B409429-CCB2) | | | Prepared & Analyzed: 06/09/14 | | | | | |
| COD | -5.10 | mg/L | | | | | | |
| Calibration Check (B409429-CCV2) | | | Prepared & Analyzed: 06/09/14 | | | | | |
| COD | 498 | mg/L | 500.0 | | 100 | 95-105 | | |
| Duplicate (B409429-DUP2) | | | Source: 4061256-02 Prepared & Analyzed: 06/09/14 | | | | | |
| COD | 26700 | mg/L | | 26500 | | | 0.8 | 20 |
| Batch B409435 - 04-No Prep WC | | | | | | | | |
| Duplicate (B409435-DUP1) | | | Source: 4061256-01 Prepared & Analyzed: 06/09/14 | | | | | |
| Solids - total volatile suspended solids | 900 | mg/L | | 880 | | | 2 | 5 |
| Nutrients - Quality Control | | | | | | | | |
| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
| Batch B409436 - 04-No Prep WC | | | | | | | | |
| Calibration Blank (B409436-CCB1) | | | Prepared & Analyzed: 06/09/14 | | | | | |
| Ammonia-N | 0.00 | mg/L | | | | | | |
| Calibration Check (B409436-CCV1) | | | Prepared & Analyzed: 06/09/14 | | | | | |
| Ammonia-N | 10.1 | mg/L | 10.00 | | 101 | 90-110 | | |
| Matrix Spike (B409436-MS1) | | | Source: 4061256-01 Prepared & Analyzed: 06/09/14 | | | | | |
| Ammonia-N | 72.1 | mg/L | 10.00 | 62.5 | 96 | 80-120 | | |
| Matrix Spike Dup (B409436-MSD1) | | | Source: 4061256-01 Prepared & Analyzed: 06/09/14 | | | | | |
| Ammonia-N | 72.3 | mg/L | 10.00 | 62.5 | 98 | 80-120 | 0.3 | 20 |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/09/14 11:20
Report Date: 06/10/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Soluble Nutrients - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---------|-------|-------------------------------|---------------|------|-------------|-----|-----------|
| Batch B409444 - 04-No Prep WC | | | | | | | | |
| Calibration Blank (B409444-CCB1) | | | Prepared & Analyzed: 06/09/14 | | | | | |
| Phosphorus - ortho as P | 0.00 | mg/L | | | | | | |
| Calibration Check (B409444-CCV1) | | | Prepared & Analyzed: 06/09/14 | | | | | |
| Phosphorus - ortho as P | 0.515 | mg/L | 0.5000 | | 103 | 90-110 | | |
| Matrix Spike (B409444-MS1) | | | Prepared & Analyzed: 06/09/14 | | | | | |
| Phosphorus - ortho as P | Q1 14.1 | mg/L | 5.000 | 11.0 | 62 | 80-120 | | |
| Matrix Spike Dup (B409444-MSD1) | | | Prepared & Analyzed: 06/09/14 | | | | | |
| Phosphorus - ortho as P | 15.9 | mg/L | 5.000 | 11.0 | 98 | 80-120 | 12 | 20 |

Total Metals - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|--|---------|-------|---------------------------------------|---------------|------|-------------|-----|-----------|
| Batch B409413 - 04 EPA 200.2 R2.8 | | | | | | | | |
| Blank (B409413-BLK1) | | | Prepared: 06/09/14 Analyzed: 06/10/14 | | | | | |
| Zinc | < 0.020 | mg/L | | | | | | |
| LCS (B409413-BS1) | | | Prepared: 06/09/14 Analyzed: 06/10/14 | | | | | |
| Zinc | 0.223 | mg/L | 0.2000 | | 111 | 85-115 | | |

Soluble Metals - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|--|---------|-------|---------------------------------------|---------------|------|-------------|-----|-----------|
| Batch B409413 - 04 EPA 200.2 R2.8 | | | | | | | | |
| Blank (B409413-BLK1) | | | Prepared: 06/09/14 Analyzed: 06/10/14 | | | | | |
| Zinc | < 0.020 | mg/L | | | | | | |
| LCS (B409413-BS1) | | | Prepared: 06/09/14 Analyzed: 06/10/14 | | | | | |
| Zinc | 0.223 | mg/L | 0.2000 | | 111 | 85-115 | | |
| Matrix Spike (B409413-MS1) | | | Prepared: 06/09/14 Analyzed: 06/10/14 | | | | | |
| Zinc | 1.26 | mg/L | 1.000 | 0.169 | 109 | 70-130 | | |
| Matrix Spike Dup (B409413-MSD1) | | | Prepared: 06/09/14 Analyzed: 06/10/14 | | | | | |
| Zinc | 1.26 | mg/L | 1.000 | 0.169 | 109 | 70-130 | 0.6 | 20 |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/09/14 11:20
Report Date: 06/10/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Anions - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|--------|-------|---------------------------------------|---------------|------|-------------------------------|-----|-----------|
| Batch B409442 - 04-IC No Prep | | | | | | | | |
| Calibration Blank (B409442-CCB1) | | | Prepared: 06/09/14 Analyzed: 06/10/14 | | | | | |
| Nitrite-N | 0.00 | mg/L | | | | | | |
| Nitrate-N | 0.00 | mg/L | | | | | | |
| Calibration Check (B409442-CCV1) | | | Prepared: 06/09/14 Analyzed: 06/10/14 | | | | | |
| Nitrate-N | 1.24 | mg/L | 1.130 | | 109 | 90-110 | | |
| Nitrite-N | 2.16 | mg/L | 2.000 | | 108 | 90-110 | | |
| Matrix Spike (B409442-MS1) | | | Source: 4061256-01 | | | Prepared & Analyzed: 06/09/14 | | |
| Nitrite-N | 27.1 | mg/L | 25.00 | ND | 108 | 80-120 | | |
| Nitrate-N | 13 | mg/L | 11.30 | 0.82 | 109 | 80-120 | | |
| Matrix Spike Dup (B409442-MSD1) | | | Source: 4061256-01 | | | Prepared & Analyzed: 06/09/14 | | |
| Nitrate-N | 13 | mg/L | 11.30 | 0.82 | 105 | 80-120 | 4 | 20 |
| Nitrite-N | 28.2 | mg/L | 25.00 | ND | 113 | 80-120 | 4 | 20 |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/09/14 11:20
Report Date: 06/10/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Notes

This report shall not be reproduced, except in full, without the written approval of the laboratory.

PDC Laboratories participates in the following accreditation/certification and proficiency programs at the following locations. Endorsement by Federal or State Governments or their agencies is not implied.

- PIA PDC Laboratories - Peoria, IL
NELAC Accreditation for Drinking Water, Wastewater, Hazardous and Solid Wastes Fields of Testing through IL EPA Lab No. 100230
Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 17553
Drinking Water Certifications: Kansas (E-10338); Missouri (870); Wisconsin (998284430); Iowa (240)
Wastewater Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
Hazardous/Solid Waste Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
UST Certification; Iowa (240)
- SPM PDC Laboratories - Springfield, MO
EPA DMR-QA Program
- STL PDC Laboratories - St. Louis, MO
NELAC Accreditation for Wastewater, Hazardous and Solid Wastes Fields of Testing
Drinking Water Certifications: Kansas (E-10389)

Q1 MS Failed %R

Certified by: Roxann Shull, Client Services Supervisor



PDC Laboratories, Inc. – St. Louis
3278 N. Highway 67 (Lindbergh)
Florissant, MO 63033
 www.pdcclab.com

CHAIN OF CUSTODY RECORD
 Phone (314) 432-0550 or (314) 921-4488
 Fax (314) 432-4977

State where samples collected MO

(Instructions/Sample Acceptance Policy on Reverse)

ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

| | | | | | | | | | | | | | | |
|--|---|-------------------------------|---|--------------------|---|---|---|----------|--|--|--|----------------------|--|--|
| 1 | CLIENT <u>Barr/Bridgeton LF</u> | PROJECT NUMBER | P.O. NUMBER | MEANS SHIPPED | 3 | ANALYSIS REQUESTED | | | | | | 4 (FOR LAB USE ONLY) | | |
| | ADDRESS | PHONE NUMBER | FAX NUMBER | EMAIL ADDRESS | | <u>COD + Ammonia</u> <u>TSS/SS Matrix/Water</u> <u>Total Zn</u> <u>Diss Zn (Field Filter)</u> <u>Diss Pol (Field Filter)</u> <u>TSS</u> | <u>4001259</u> LOGIN # <u>HE</u> LOGGED BY: LAB PROJ. # TEMPLATE: PROJ. MGR.: | | | | | | | |
| | CITY STATE ZIP <u>Bridgeton Mo</u> | SAMPLER <u>Arnon Weber</u> | MATRIX TYPES: WW-WASTEWATER DW-DRINKING WATER GW-GROUND WATER WW-SLUDGE NAS-SOLID LGT-LEACHATE NAL-NON-AQUEOUS SOIL-SOILS | | | | | | | | | | | |
| CONTACT PERSON <u>Bill Abernathy</u> | SAMPLER'S SIGNATURE <u>Arnon Weber</u> | | | | | | | | | | | | | |
| 2 | SAMPLE DESCRIPTION AS YOU WANT ON REPORT | | DATE COLLECTED | TIME COLLECTED | SAMPLE TYPE GRAB | MATRIX COMP | Bottle Count | | | | | | | |
| | <u>T3 Startup</u> | | <u>6-9-14</u> | <u>9:40</u> | <u>X</u> | | | <u>5</u> | | | | | | |
| | <u>T2 Startup</u> | | <u>6-9-14</u> | <u>9:45</u> | <u>X</u> | | | <u>2</u> | | | | | | |
| 5 | TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE) | | | | The sample temperature will be measured upon receipt at the lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature. | | | | | | | | | |
| | NORMAL (8-10 Bus. Days) RUSH (5 Bus. Days) <u>Fastrak™ (3 Bus. Days)</u> <u>1-2 Bus. Days</u> Same Day DATE DUE <u>6-10-14</u> | | | | | | | | | | | | | |
| RESULTS BY: E-MAIL FAX PHONE CALL PHONE/FAX# IF DIFFERENT FROM ABOVE | | | | 6 | | | | | | | | | | |
| 7 | RELINQUISHED BY: (SIGNATURE) | DATE | TIME | RECEIVED BY: | DATE | TIME | 8 COMMENTS: (FOR LAB USE ONLY) | | | | | | | |
| | <u>[Signature]</u> | <u>6-9-14</u> | <u>10:30am</u> | <u>[Signature]</u> | <u>6-9-14</u> | <u>10:30</u> | | | | | | | | |
| | RELINQUISHED BY: (SIGNATURE) | DATE | TIME | RECEIVED BY: | DATE | TIME | | | | | | | | |
| | <u>[Signature]</u> | <u>6-9-14</u> | <u>10:50</u> | <u>[Signature]</u> | <u>6/9/14</u> | <u>10:50</u> | | | | | | | | |
| RELINQUISHED BY: (SIGNATURE) | DATE | TIME | RECEIVED BY: | DATE | TIME | SAMPLE TEMPERATURE UPON RECEIPT CHILL PROCESS STARTED PRIOR TO RECEIPT SAMPLE(S) RECEIVED ON ICE PROPER BOTTLES RECEIVED IN GOOD CONDITION BOTTLES FILLED WITH ADEQUATE VOLUME SAMPLES RECEIVED WITHIN HOLD TIME(S) (EXCLUDES TYPICAL FIELD PARAMETERS) DATE AND TIME TAKEN FROM SAMPLE BOTTLE | | | | | | | | |
| RELINQUISHED BY: (SIGNATURE) | DATE | TIME | RECEIVED BY: | DATE | TIME | | | | | | | | | |

Thank you for using PDC Laboratories, Inc. Locations in Peoria, IL; St. Louis, MO; and Springfield, MO

PAGE ____ OF ____



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/10/14 10:55
Report Date: 06/11/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Sample No: **4061358-01**
Sample Description: **Tank 3 Start-Up**

Collect Date: **06/10/14 09:05**
Matrix: **Waste Water Grab**

| Parameters | Result | Qual | Analysis Date | Analyst | Method |
|--|-------------|------|----------------|---------|---------------------------|
| <u>Anions - STL</u> | | | | | |
| Nitrate-N | 0.91 mg/L | | 06/11/14 12:04 | DWM | EPA 300.0 R2.1 04KS |
| Nitrite-N | < 0.50 mg/L | | 06/11/14 12:04 | DWM | EPA 300.0 R2.1 04KS |
| <u>General Chemistry - STL</u> | | | | | |
| COD | 1700 mg/L | | 06/11/14 07:25 | DAW | SM 5220D 18Ed 04KS |
| Solids - total suspended solids (TSS) | 2400 mg/L | | 06/10/14 11:45 | DAW | SM 2540D 18Ed 04KS |
| Solids - total volatile suspended solids | 680 mg/L | | 06/11/14 08:00 | DAW | SM 2540E 18Ed* |
| <u>Nutrients - STL</u> | | | | | |
| Ammonia-N | 70 mg/L | | 06/11/14 12:30 | DAW | SM(18) 4500 NH3 04KS F |

Sample No: **4061358-02**
Sample Description: **Tank 2 Start-Up**

Collect Date: **06/10/14 09:15**
Matrix: **Waste Water**

| Parameters | Result | Qual | Analysis Date | Analyst | Method |
|---------------------------------------|------------|------|----------------|---------|---------------------------|
| <u>General Chemistry - STL</u> | | | | | |
| COD | 24000 mg/L | | 06/11/14 07:25 | DAW | SM 5220D 18Ed 04KS |
| Solids - total suspended solids (TSS) | 4300 mg/L | | 06/10/14 11:45 | DAW | SM 2540D 18Ed 04KS |
| <u>Nutrients - STL</u> | | | | | |
| Ammonia-N | 310 mg/L | | 06/11/14 12:30 | DAW | SM(18) 4500 NH3 04KS F |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/10/14 10:55
Report Date: 06/11/14
Customer #: 277310
PO#: 4167739

Laboratory Results

General Chemistry - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---------|--------|-------|-------------|---------------|------|-------------|-----|-----------|
|---------|--------|-------|-------------|---------------|------|-------------|-----|-----------|

Batch B409486 - 04-No Prep WC

| | | | | | | | | |
|---------------------------------------|-------|------|--|------|----------|--|---|---|
| Blank (B409486-BLK1) | | | Prepared & Analyzed: 06/10/14 | | | | | |
| Solids - total suspended solids (TSS) | < 2.0 | mg/L | | | | | | |
| LCS (B409486-BS1) | | | Prepared & Analyzed: 06/10/14 | | | | | |
| Solids - total suspended solids (TSS) | 103 | mg/L | 100.0 | 103 | 82.9-110 | | | |
| Duplicate (B409486-DUP1) | | | Source: 4061270-01 Prepared & Analyzed: 06/10/14 | | | | | |
| Solids - total suspended solids (TSS) | 1560 | mg/L | | 1540 | | | 1 | 5 |
| Duplicate (B409486-DUP2) | | | Source: 4061358-01 Prepared & Analyzed: 06/10/14 | | | | | |
| Solids - total suspended solids (TSS) | 2320 | mg/L | | 2420 | | | 4 | 5 |

Batch B409546 - 04-No Prep WC

| | | | | | | | | |
|---|----------|------|--|-------|--------|--|-----|----|
| Calibration Blank (B409546-CCB1) | | | Prepared: 06/10/14 Analyzed: 06/11/14 | | | | | |
| COD | -0.00477 | mg/L | | | | | | |
| Calibration Blank (B409546-CCB2) | | | Prepared: 06/10/14 Analyzed: 06/11/14 | | | | | |
| COD | -5.07 | mg/L | | | | | | |
| Calibration Check (B409546-CCV1) | | | Prepared: 06/10/14 Analyzed: 06/11/14 | | | | | |
| COD | 101 | mg/L | 100.0 | 101 | 95-105 | | | |
| Calibration Check (B409546-CCV2) | | | Prepared: 06/10/14 Analyzed: 06/11/14 | | | | | |
| COD | 491 | mg/L | 500.0 | 98 | 95-105 | | | |
| Duplicate (B409546-DUP1) | | | Source: 4061285-01 Prepared: 06/10/14 Analyzed: 06/11/14 | | | | | |
| COD | 15.9 | mg/L | | 16.4 | | | 3 | 20 |
| Duplicate (B409546-DUP2) | | | Source: 4061358-02 Prepared: 06/10/14 Analyzed: 06/11/14 | | | | | |
| COD | 23900 | mg/L | | 23700 | | | 0.9 | 20 |

Batch B409571 - 04-No Prep WC

| | | | | | | | | |
|--|-----|------|--|-----|--|--|---|---|
| Duplicate (B409571-DUP1) | | | Source: 4061358-01 Prepared & Analyzed: 06/11/14 | | | | | |
| Solids - total volatile suspended solids | 680 | mg/L | | 680 | | | 0 | 5 |

Nutrients - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---------|--------|-------|-------------|---------------|------|-------------|-----|-----------|
|---------|--------|-------|-------------|---------------|------|-------------|-----|-----------|

Batch B409603 - 04-No Prep WC

| | | | | | | | | |
|-----------------------------|--------|------|-------------------------------|--|--|--|--|--|
| Blank (B409603-BLK1) | | | Prepared & Analyzed: 06/11/14 | | | | | |
| Ammonia-N | < 0.10 | mg/L | | | | | | |
| LCS (B409603-BS1) | | | Prepared & Analyzed: 06/11/14 | | | | | |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/10/14 10:55
Report Date: 06/11/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Nutrients - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|--|--------|-------|-------------------------------|---------------|------|-------------|-----|-----------|
| Batch B409603 - 04-No Prep WC | | | | | | | | |
| LCS (B409603-BS1) | | | Prepared & Analyzed: 06/11/14 | | | | | |
| Ammonia-N | 10.1 | mg/L | 10.00 | | 101 | 80-120 | | |
| Matrix Spike (B409603-MS1) | | | Prepared & Analyzed: 06/11/14 | | | | | |
| Ammonia-N | 9.98 | mg/L | 10.00 | 0.0332 | 99 | 80-120 | | |
| Matrix Spike Dup (B409603-MSD1) | | | Prepared & Analyzed: 06/11/14 | | | | | |
| Ammonia-N | 9.74 | mg/L | 10.00 | 0.0332 | 97 | 80-120 | 2 | 20 |

Anions - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|--------|-------|-------------------------------|---------------|------|-------------|-----|-----------|
| Batch B409589 - 04-IC No Prep | | | | | | | | |
| Calibration Blank (B409589-CCB1) | | | Prepared & Analyzed: 06/11/14 | | | | | |
| Nitrate-N | 0.00 | mg/L | | | | | | |
| Nitrite-N | 0.00 | mg/L | | | | | | |
| Calibration Check (B409589-CCV1) | | | Prepared & Analyzed: 06/11/14 | | | | | |
| Nitrate-N | 1.23 | mg/L | 1.130 | | 109 | 90-110 | | |
| Nitrite-N | 2.13 | mg/L | 2.000 | | 107 | 90-110 | | |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/10/14 10:55
Report Date: 06/11/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Notes

This report shall not be reproduced, except in full, without the written approval of the laboratory.

PDC Laboratories participates in the following accreditation/certification and proficiency programs at the following locations. Endorsement by Federal or State Governments or their agencies is not implied.

- PIA PDC Laboratories - Peoria, IL
NELAC Accreditation for Drinking Water, Wastewater, Hazardous and Solid Wastes Fields of Testing through IL EPA Lab No. 100230
Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 17553
Drinking Water Certifications: Kansas (E-10338); Missouri (870); Wisconsin (998284430); Iowa (240)
Wastewater Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
Hazardous/Solid Waste Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
UST Certification; Iowa (240)
- SPM PDC Laboratories - Springfield, MO
EPA DMR-QA Program
- STL PDC Laboratories - St. Louis, MO
NELAC Accreditation for Wastewater, Hazardous and Solid Wastes Fields of Testing
Drinking Water Certifications: Kansas (E-10389)

Certified by: Roxann Shull, Client Services Supervisor



PDC Laboratories, Inc. – St. Louis
3278 N. Highway 67 (Lindbergh)
Florissant, MO 63033
 www.pdcclab.com

CHAIN OF CUSTODY RECORD
 Phone (314) 432-0550 or (314) 921-4488
 Fax (314) 432-4977

State where samples collected _____

(Instructions/Sample Acceptance Policy on Reverse)

ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

| | | | | | | | | | | | | | | | | |
|---|---|-----------------------------------|-------------------|--|----------------|----------------------|---|----------------|----------------|-------------------------|---------------------------|---|-------------------------|-------------|-----------|-------------|
| 1 | CLIENT <i>RS2/Bridgeton LF</i> | PROJECT NUMBER <i>Leadrate</i> | P. O. NUMBER | MEANS SHIPPED | 3 | ANALYSIS REQUESTED | | | | | | 4 | (FOR LAB USE ONLY) | | | |
| | ADDRESS | PHONE NUMBER | FAX NUMBER | EMAIL ADDRESS | | <i>COD + Ammonia</i> | <i>TSS</i> | <i>Nitrate</i> | <i>Nitrite</i> | <i>MISS/ALN Nitrite</i> | LOGIN # <i>4061358</i> | | LOGGED BY: <i>HE</i> | LAB PROJ. # | TEMPLATE: | PROJ. MGR.: |
| | CITY STATE ZIP | SAMPLER <i>Arzon Weber</i> | | MATRIX TYPES: <small> WW-WASTEWATER DW-DRINKING WATER GW-GROUND WATER WW-SLUDGE NAS-SOLID LCH-LEACHATE NAL-NON-AQUEOUS SOIL-SOILS </small> | | | | | | | REMARKS | | | | | |
| CONTACT PERSON | SAMPLER'S SIGNATURE <i>Arzon Weber</i> | | | | | | | | | | | | | | | |
| 2 | SAMPLE DESCRIPTION AS YOU WANT ON REPORT | DATE COLLECTED | TIME COLLECTED | SAMPLE TYPE GRAB | MATRIX COMP | Bottle TYPE | Count | | | | | | | | | |
| | <i>T3 Start up</i> | <i>6-10-14</i> | <i>9:05</i> | <i>X</i> | <i>Licht</i> | <i>2</i> | <i>1</i> | <i>X</i> | <i>X</i> | | | | | | | |
| | <i>T2 Start up</i> | <i>6-10-14</i> | <i>9:15</i> | <i>X</i> | <i>Licht</i> | <i>2</i> | <i>2</i> | <i>X</i> | <i>X</i> | | | | | | | |
| 5 TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE) NORMAL (8-10 Bus. Days) RUSH (5 Bus. Days) <i>Fastrak™</i> (3 Bus. Days) <u>2 Bus. Days</u> Same Day DATE DUE <i>6-11-14</i> | | | | | | | | | | | | 6 The sample temperature will be measured upon receipt at the lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature. | | | | |
| RESULTS BY: E-MAIL FAX PHONE CALL PHONE/FAX# IF DIFFERENT FROM ABOVE | | | | | | | | | | | | 8 COMMENTS:(FOR LAB USE ONLY) | | | | |
| 7 RELINQUISHED BY: (SIGNATURE) | | DATE | TIME | RECEIVED BY: | DATE | TIME | 8 | | | | | | | | | |
| <i>FBI</i> | | <i>6-10-14</i> | <i>10:15am</i> | <i>Rod Cook</i> | <i>6/10/14</i> | <i>10:13</i> | SAMPLE TEMPERATURE UPON RECEIPT CHILL PROCESS STARTED PRIOR TO RECEIPT SAMPLE(S) RECEIVED ON ICE PROPER BOTTLES RECEIVED IN GOOD CONDITION BOTTLES FILLED WITH ADEQUATE VOLUME SAMPLES RECEIVED WITHIN HOLD TIME(S) (EXCLUDES TYPICAL FIELD PARAMETERS) DATE AND TIME TAKEN FROM SAMPLE BOTTLE | | | | | | | | | |
| <i>Rod Cook</i> | | <i>6-10-14</i> | <i>10:32</i> | <i>Heather Carlant</i> | <i>6/10/14</i> | <i>10:32</i> | | | | | | | | | | |
| | | DATE | TIME | RECEIVED BY: | DATE | TIME | | | | | | | | | | |
| | | DATE | TIME | RECEIVED BY: | DATE | TIME | | | | | | | | | | |

Thank you for using PDC Laboratories, Inc. Locations in Peoria, IL; St. Louis, MO; and Springfield, MO

PAGE ____ OF ____



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/11/14 11:13
Report Date: 06/12/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Sample No: **4061623-01**
Sample Description: **Tank 3 Start-Up**

Collect Date: **06/11/14 09:14**
Matrix: **Waste Water Grab**

| Parameters | Result | Qual | Analysis Date | Analyst | Method |
|--|-------------|------|----------------|---------|---------------------------|
| <u>Anions - STL</u> | | | | | |
| Nitrate-N | 0.94 mg/L | | 06/11/14 12:54 | DWM | EPA 300.0 R2.1 04KS |
| Nitrite-N | < 0.50 mg/L | | 06/11/14 12:54 | DWM | EPA 300.0 R2.1 04KS |
| <u>General Chemistry - STL</u> | | | | | |
| COD | 1700 mg/L | | 06/12/14 07:35 | DAW | SM 5220D 18Ed 04KS |
| Solids - total suspended solids (TSS) | 2300 mg/L | | 06/11/14 11:30 | DAW | SM 2540D 18Ed 04KS |
| Solids - total volatile suspended solids | 660 mg/L | | 06/12/14 07:45 | DAW | SM 2540E 18Ed* |
| <u>Nutrients - STL</u> | | | | | |
| Ammonia-N | 64 mg/L | | 06/11/14 12:30 | DAW | SM(18) 4500 NH3 04KS F |

Sample No: **4061623-02**
Sample Description: **Tank 2 Start-Up**

Collect Date: **06/11/14 09:20**
Matrix: **Waste Water**

| Parameters | Result | Qual | Analysis Date | Analyst | Method |
|---------------------------------------|------------|------|----------------|---------|---------------------------|
| <u>General Chemistry - STL</u> | | | | | |
| COD | 24000 mg/L | | 06/12/14 07:36 | DAW | SM 5220D 18Ed 04KS |
| Solids - total suspended solids (TSS) | 4400 mg/L | | 06/11/14 11:30 | DAW | SM 2540D 18Ed 04KS |
| <u>Nutrients - STL</u> | | | | | |
| Ammonia-N | 320 mg/L | | 06/11/14 12:30 | DAW | SM(18) 4500 NH3 04KS F |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/11/14 11:13
Report Date: 06/12/14
Customer #: 277310
PO#: 4167739

Laboratory Results

General Chemistry - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|--|----------|-------|--|---------------|------|-------------|-----|-----------|
| Batch B409577 - 04-No Prep WC | | | | | | | | |
| Blank (B409577-BLK1) | | | Prepared & Analyzed: 06/11/14 | | | | | |
| Solids - total suspended solids (TSS) | < 2.0 | mg/L | | | | | | |
| LCS (B409577-BS1) | | | Prepared & Analyzed: 06/11/14 | | | | | |
| Solids - total suspended solids (TSS) | 97.0 | mg/L | 100.0 | | 97 | 82.9-110 | | |
| Duplicate (B409577-DUP1) | | | Source: 4061623-01 Prepared & Analyzed: 06/11/14 | | | | | |
| Solids - total suspended solids (TSS) | 2200 | mg/L | | 2260 | | | 3 | 5 |
| Batch B409623 - 04-No Prep WC | | | | | | | | |
| Calibration Blank (B409623-CCB1) | | | Prepared: 06/11/14 Analyzed: 06/12/14 | | | | | |
| COD | -0.00477 | mg/L | | | | | | |
| Calibration Blank (B409623-CCB2) | | | Prepared: 06/11/14 Analyzed: 06/12/14 | | | | | |
| COD | -5.07 | mg/L | | | | | | |
| Calibration Check (B409623-CCV1) | | | Prepared: 06/11/14 Analyzed: 06/12/14 | | | | | |
| COD | 101 | mg/L | 100.0 | | 101 | 95-105 | | |
| Calibration Check (B409623-CCV2) | | | Prepared: 06/11/14 Analyzed: 06/12/14 | | | | | |
| COD | 495 | mg/L | 500.0 | | 99 | 95-105 | | |
| Duplicate (B409623-DUP1) | | | Source: 4061673-01 Prepared: 06/11/14 Analyzed: 06/12/14 | | | | | |
| COD | < 5.0 | mg/L | | ND | | | | 20 |
| Duplicate (B409623-DUP2) | | | Source: 4061623-02 Prepared: 06/11/14 Analyzed: 06/12/14 | | | | | |
| COD | 24200 | mg/L | | 24000 | | | 0.9 | 20 |
| Batch B409651 - 04-No Prep WC | | | | | | | | |
| Duplicate (B409651-DUP1) | | | Source: 4061623-01 Prepared & Analyzed: 06/12/14 | | | | | |
| Solids - total volatile suspended solids | 680 | mg/L | | 660 | | | 3 | 5 |
| Nutrients - Quality Control | | | | | | | | |
| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
| Batch B409603 - 04-No Prep WC | | | | | | | | |
| Blank (B409603-BLK1) | | | Prepared & Analyzed: 06/11/14 | | | | | |
| Ammonia-N | < 0.10 | mg/L | | | | | | |
| LCS (B409603-BS1) | | | Prepared & Analyzed: 06/11/14 | | | | | |
| Ammonia-N | 10.1 | mg/L | 10.00 | | 101 | 80-120 | | |
| Matrix Spike (B409603-MS1) | | | Source: 4061673-03 Prepared & Analyzed: 06/11/14 | | | | | |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/11/14 11:13
Report Date: 06/12/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Nutrients - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|--|--------|-------|---------------------------|---------------|-------------------------------|-------------|-----|-----------|
| Batch B409603 - 04-No Prep WC | | | | | | | | |
| Matrix Spike (B409603-MS1) | | | Source: 4061673-03 | | Prepared & Analyzed: 06/11/14 | | | |
| Ammonia-N | 9.98 | mg/L | 10.00 | 0.0332 | 99 | 80-120 | | |
| Matrix Spike Dup (B409603-MSD1) | | | Source: 4061673-03 | | Prepared & Analyzed: 06/11/14 | | | |
| Ammonia-N | 9.74 | mg/L | 10.00 | 0.0332 | 97 | 80-120 | 2 | 20 |

Anions - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|--------|-------|-------------------------------|---------------|------|-------------|-----|-----------|
| Batch B409589 - 04-IC No Prep | | | | | | | | |
| Calibration Blank (B409589-CCB1) | | | Prepared & Analyzed: 06/11/14 | | | | | |
| Nitrite-N | 0.00 | mg/L | | | | | | |
| Nitrate-N | 0.00 | mg/L | | | | | | |
| Calibration Check (B409589-CCV1) | | | Prepared & Analyzed: 06/11/14 | | | | | |
| Nitrate-N | 1.23 | mg/L | 1.130 | | 109 | 90-110 | | |
| Nitrite-N | 2.13 | mg/L | 2.000 | | 107 | 90-110 | | |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/11/14 11:13
Report Date: 06/12/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Notes

This report shall not be reproduced, except in full, without the written approval of the laboratory.

PDC Laboratories participates in the following accreditation/certification and proficiency programs at the following locations. Endorsement by Federal or State Governments or their agencies is not implied.

- PIA PDC Laboratories - Peoria, IL
NELAC Accreditation for Drinking Water, Wastewater, Hazardous and Solid Wastes Fields of Testing through IL EPA Lab No. 100230
Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 17553
Drinking Water Certifications: Kansas (E-10338); Missouri (870); Wisconsin (998284430); Iowa (240)
Wastewater Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
Hazardous/Solid Waste Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
UST Certification; Iowa (240)
- SPM PDC Laboratories - Springfield, MO
EPA DMR-QA Program
- STL PDC Laboratories - St. Louis, MO
NELAC Accreditation for Wastewater, Hazardous and Solid Wastes Fields of Testing
Drinking Water Certifications: Kansas (E-10389)

Certified by: Roxann Shull, Client Services Supervisor



PDC Laboratories, Inc. – St. Louis
3278 N. Highway 67 (Lindbergh)
Florissant, MO 63033

www.pdc-lab.com

CHAIN OF CUSTODY RECORD
 Phone (314) 432-0550 or (314) 921-4488
 Fax (314) 432-4977

State where samples collected MO
 (Instructions/Sample Acceptance Policy on Reverse)

ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

| | | | | | | | |
|--|---|---|----------------|---|---|--|--|
| 1 CLIENT BARR/BRIDGETON LF ADDRESS: CITY: STATE: ZIP: CONTACT PERSON: | PROJECT NUMBER | P. O. NUMBER | MEANS SHIPPED | | 3 ANALYSIS REQUESTED COD + Ammonia TSS/SS + NITRATE/NITRITE TSS | 4 (FOR LAB USE ONLY) LOGIN # <u>4061623</u> LOGGED BY: <u>HC</u> LAB PROJ. # TEMPLATE: PROJ. MGR.: | |
| | PHONE NUMBER | FAX NUMBER | EMAIL ADDRESS | | | | |
| | SAMPLER | MATRIX TYPES: WW-WASTEWATER DW-DRINKING WATER GW-GROUND WATER WWSL-SLUDGE WAS-SOLID L'CHT-LEACHATE NAL-NON-AQUEOUS SOIL-SOILS | | | | | |
| | SAMPLER'S SIGNATURE | | | | | | |
| 2 | SAMPLE DESCRIPTION AS YOU WANT ON REPORT | DATE COLLECTED | TIME COLLECTED | SAMPLE TYPE GRAB COMP | MATRIX TYPE | Bottle Count | REMARKS |
| | T3 STARTUP | 6/11/14 | 0914 | ✓ | LCHT | 2 | ✓ ✓ |
| | T2 STARTUP | 6/11/14 | 0920 | ✓ | LCHT | 2 | ✓ ✓ |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| 5 | TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE) NORMAL (8-10 Bus. Days) RUSH (5 Bus. Days) <u>Fastrak™ (3 Bus. Days)</u> <u>1-2 Bus. Days</u> Same Day DATE DUE <u>6/12/14</u> | | | The sample temperature will be measured upon receipt at the lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature. | | | |
| RESULTS BY: E-MAIL FAX PHONE CALL PHONE/FAX# IF DIFFERENT FROM ABOVE | | 6 | | | | | |
| 7 | RELINQUISHED BY: (SIGNATURE) | DATE | TIME | RECEIVED BY: [Signature] | DATE | TIME | 8 COMMENTS: (FOR LAB USE ONLY) SAMPLE TEMPERATURE UPON RECEIPT CHILL PROCESS STARTED PRIOR TO RECEIPT SAMPLE(S) RECEIVED ON ICE PROPER BOTTLES RECEIVED IN GOOD CONDITION BOTTLES FILLED WITH ADEQUATE VOLUME SAMPLES RECEIVED WITHIN HOLD TIME(S) (EXCLUDES TYPICAL FIELD PARAMETERS) DATE AND TIME TAKEN FROM SAMPLE BOTTLE |
| | [Signature] | 6-11-14 | 10:30 | [Signature] | 6-11-14 | 10:30am | |
| | [Signature] | 6-11-14 | 10:47 | [Signature] | 6/11/14 | 10:47 | |
| | [Signature] | | | | | | |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/12/14 10:27
Report Date: 06/13/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Sample No: **4061844-01**
Sample Description: **Tank 3 Start-Up**

Collect Date: **06/12/14 09:04**
Matrix: **Waste Water Grab**

| Parameters | Result | Qual | Analysis Date | Analyst | Method |
|--|-----------|------|----------------|---------|------------------------|
| <u>Anions - STL</u> | | | | | |
| Nitrate-N | 17 mg/L | | 06/13/14 09:04 | DWM | EPA 300.0 R2.1 04KS |
| Nitrite-N | 5.0 mg/L | | 06/13/14 09:04 | DWM | EPA 300.0 R2.1 04KS |
| <u>General Chemistry - STL</u> | | | | | |
| COD | 400 mg/L | | 06/13/14 13:09 | DAW | SM 5220D 18Ed 04KS |
| Solids - total suspended solids (TSS) | 2100 mg/L | | 06/12/14 15:00 | DAW | SM 2540D 18Ed 04KS |
| Solids - total volatile suspended solids | 540 mg/L | | 06/13/14 12:45 | DAW | SM 2540E 18Ed* |
| <u>Nutrients - STL</u> | | | | | |
| Ammonia-N | 65 mg/L | | 06/12/14 12:00 | ACV | SM(18) 4500 NH3 F 04KS |
| <u>Soluble Metals - STL</u> | | | | | |
| Zinc | 0.20 mg/L | | 06/13/14 13:55 | WPS | EPA 200.7 R4.4 04KS |
| <u>Soluble Nutrients - STL</u> | | | | | |
| Phosphorus - ortho as P | 0.97 mg/L | | 06/12/14 16:30 | ACV | SM 4500P B E 18ed* |
| <u>Total Metals - STL</u> | | | | | |
| Zinc | 0.93 mg/L | | 06/13/14 14:00 | WPS | EPA 200.7 R4.4 04KS |

Sample No: **4061844-02**
Sample Description: **Tank 2 Start-Up**

Collect Date: **06/12/14 08:59**
Matrix: **Waste Water**

| Parameters | Result | Qual | Analysis Date | Analyst | Method |
|---------------------------------------|------------|------|----------------|---------|------------------------|
| <u>General Chemistry - STL</u> | | | | | |
| COD | 24000 mg/L | | 06/13/14 13:09 | DAW | SM 5220D 18Ed 04KS |
| Solids - total suspended solids (TSS) | 3500 mg/L | | 06/12/14 15:00 | DAW | SM 2540D 18Ed 04KS |
| <u>Nutrients - STL</u> | | | | | |
| Ammonia-N | 310 mg/L | | 06/12/14 12:00 | ACV | SM(18) 4500 NH3 F 04KS |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/12/14 10:27
Report Date: 06/13/14
Customer #: 277310
PO#: 4167739

Laboratory Results

General Chemistry - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|--|--------|-------|--|---------------|------|-------------|-----|-----------|
| Batch B409677 - 04-No Prep WC | | | | | | | | |
| Blank (B409677-BLK1) | | | Prepared & Analyzed: 06/12/14 | | | | | |
| Solids - total suspended solids (TSS) | < 2.0 | mg/L | | | | | | |
| LCS (B409677-BS1) | | | Prepared & Analyzed: 06/12/14 | | | | | |
| Solids - total suspended solids (TSS) | 100 | mg/L | 100.0 | | 100 | 82.9-110 | | |
| Duplicate (B409677-DUP1) | | | Source: 4061844-01 Prepared & Analyzed: 06/12/14 | | | | | |
| Solids - total suspended solids (TSS) | 2140 | mg/L | | 2140 | | | 0 | 5 |
| Duplicate (B409677-DUP2) | | | Source: 4061846-01 Prepared & Analyzed: 06/12/14 | | | | | |
| Solids - total suspended solids (TSS) | 1600 | mg/L | | 1660 | | | 4 | 5 |
| Batch B409768 - 04-No Prep WC | | | | | | | | |
| Duplicate (B409768-DUP1) | | | Source: 4061844-01 Prepared & Analyzed: 06/13/14 | | | | | |
| Solids - total volatile suspended solids | 560 | mg/L | | 540 | | | 4 | 5 |
| Duplicate (B409768-DUP2) | | | Source: 4062120-01 Prepared & Analyzed: 06/13/14 | | | | | |
| Solids - total volatile suspended solids | 740 | mg/L | | 740 | | | 0 | 5 |
| Batch B409770 - 04-No Prep WC | | | | | | | | |
| Calibration Blank (B409770-CCB2) | | | Prepared & Analyzed: 06/13/14 | | | | | |
| COD | -5.10 | mg/L | | | | | | |
| Calibration Check (B409770-CCV2) | | | Prepared & Analyzed: 06/13/14 | | | | | |
| COD | 500 | mg/L | 500.0 | | 100 | 95-105 | | |
| Duplicate (B409770-DUP2) | | | Source: 4061844-02 Prepared & Analyzed: 06/13/14 | | | | | |
| COD | 24200 | mg/L | | 24300 | | | 0.4 | 20 |
| Nutrients - Quality Control | | | | | | | | |
| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
| Batch B409694 - 04-No Prep WC | | | | | | | | |
| Calibration Blank (B409694-CCB1) | | | Prepared & Analyzed: 06/12/14 | | | | | |
| Ammonia-N | 0.00 | mg/L | | | | | | |
| Calibration Check (B409694-CCV1) | | | Prepared & Analyzed: 06/12/14 | | | | | |
| Ammonia-N | 10.0 | mg/L | 10.00 | | 100 | 90-110 | | |
| Matrix Spike (B409694-MS1) | | | Source: 4061904-01 Prepared & Analyzed: 06/12/14 | | | | | |
| Ammonia-N | 9.92 | mg/L | 10.00 | ND | 99 | 80-120 | | |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/12/14 10:27
Report Date: 06/13/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Nutrients - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|--|--------|-------|---------------------------|---------------|-------------------------------|-------------|-----|-----------|
| Batch B409694 - 04-No Prep WC | | | | | | | | |
| Matrix Spike Dup (B409694-MSD1) | | | Source: 4061904-01 | | Prepared & Analyzed: 06/12/14 | | | |
| Ammonia-N | 9.86 | mg/L | 10.00 | ND | 99 | 80-120 | 0.6 | 20 |

Soluble Nutrients - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---------|-------|-------------------------------|---------------|------|-------------|-----|-----------|
| Batch B409787 - 04-No Prep WC | | | | | | | | |
| Calibration Blank (B409787-CCB1) | | | Prepared & Analyzed: 06/12/14 | | | | | |
| Phosphorus - ortho as P | 0.00 | mg/L | | | | | | |
| Calibration Check (B409787-CCV1) | | | Prepared & Analyzed: 06/12/14 | | | | | |
| Phosphorus - ortho as P | 0.506 | mg/L | 0.5000 | | 101 | 90-110 | | |
| Matrix Spike (B409787-MS1) | | | Prepared & Analyzed: 06/12/14 | | | | | |
| Phosphorus - ortho as P | Q1 1.67 | mg/L | 0.5000 | 0.970 | 140 | 80-120 | | |
| Matrix Spike Dup (B409787-MSD1) | | | Prepared & Analyzed: 06/12/14 | | | | | |
| Phosphorus - ortho as P | 1.55 | mg/L | 0.5000 | 0.970 | 116 | 80-120 | 7 | 20 |

Total Metals - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|--|---------|-------|---------------------------------------|---------------|------|-------------|-----|-----------|
| Batch B409688 - 04 EPA 200.2 R2.8 | | | | | | | | |
| Blank (B409688-BLK1) | | | Prepared: 06/12/14 Analyzed: 06/13/14 | | | | | |
| Zinc | < 0.020 | mg/L | | | | | | |
| LCS (B409688-BS1) | | | Prepared: 06/12/14 Analyzed: 06/13/14 | | | | | |
| Zinc | 0.228 | mg/L | 0.2000 | | 114 | 85-115 | | |

Soluble Metals - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|--|---------|-------|---------------------------------------|---------------|------|-------------|-----|-----------|
| Batch B409688 - 04 EPA 200.2 R2.8 | | | | | | | | |
| Blank (B409688-BLK1) | | | Prepared: 06/12/14 Analyzed: 06/13/14 | | | | | |
| Zinc | < 0.020 | mg/L | | | | | | |
| LCS (B409688-BS1) | | | Prepared: 06/12/14 Analyzed: 06/13/14 | | | | | |
| Zinc | 0.228 | mg/L | 0.2000 | | 114 | 85-115 | | |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/12/14 10:27
Report Date: 06/13/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Soluble Metals - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|--|--------|-------|---------------------------|---------------|---------------------------------------|-------------|-----|-----------|
| Batch B409688 - 04 EPA 200.2 R2.8 | | | | | | | | |
| Matrix Spike (B409688-MS1) | | | Source: 4061844-01 | | Prepared: 06/12/14 Analyzed: 06/13/14 | | | |
| Zinc | 1.28 | mg/L | 1.000 | 0.203 | 108 | 70-130 | | |
| Matrix Spike Dup (B409688-MSD1) | | | Source: 4061844-01 | | Prepared: 06/12/14 Analyzed: 06/13/14 | | | |
| Zinc | 1.34 | mg/L | 1.000 | 0.203 | 113 | 70-130 | 4 | 20 |

Anions - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|--------|-------|-------------------------------|---------------|-------------------------------|-------------|-----|-----------|
| Batch B409743 - 04-IC No Prep | | | | | | | | |
| Calibration Blank (B409743-CCB1) | | | Prepared & Analyzed: 06/12/14 | | | | | |
| Nitrate-N | 0.00 | mg/L | | | | | | |
| Nitrite-N | 0.00 | mg/L | | | | | | |
| Calibration Check (B409743-CCV1) | | | Prepared & Analyzed: 06/12/14 | | | | | |
| Nitrite-N | 2.11 | mg/L | | | | 90-110 | | |
| Nitrate-N | 1.24 | mg/L | | | | 90-110 | | |
| Matrix Spike (B409743-MS1) | | | Source: 4060747-03 | | Prepared & Analyzed: 06/12/14 | | | |
| Nitrate-N | 12 | mg/L | 11.30 | 3.6 | 78 | 80-120 | | |
| Nitrite-N | 27.1 | mg/L | 25.00 | 2.44 | 99 | 80-120 | | |
| Matrix Spike Dup (B409743-MSD1) | | | Source: 4060747-03 | | Prepared & Analyzed: 06/12/14 | | | |
| Nitrate-N | 12 | mg/L | 11.30 | 3.6 | 77 | 80-120 | 0.6 | 20 |
| Nitrite-N | 26.8 | mg/L | 25.00 | 2.44 | 97 | 80-120 | 1 | 20 |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/12/14 10:27
Report Date: 06/13/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Notes

This report shall not be reproduced, except in full, without the written approval of the laboratory.

PDC Laboratories participates in the following accreditation/certification and proficiency programs at the following locations. Endorsement by Federal or State Governments or their agencies is not implied.

- PIA PDC Laboratories - Peoria, IL
NELAC Accreditation for Drinking Water, Wastewater, Hazardous and Solid Wastes Fields of Testing through IL EPA Lab No. 100230
Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 17553
Drinking Water Certifications: Kansas (E-10338); Missouri (870); Wisconsin (998284430); Iowa (240)
Wastewater Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
Hazardous/Solid Waste Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
UST Certification; Iowa (240)
- SPM PDC Laboratories - Springfield, MO
EPA DMR-QA Program
- STL PDC Laboratories - St. Louis, MO
NELAC Accreditation for Wastewater, Hazardous and Solid Wastes Fields of Testing
Drinking Water Certifications: Kansas (E-10389)

Q1 MS Failed %R

Certified by: Roxann Shull, Client Services Supervisor



PDC Laboratories, Inc. – St. Louis
3278 N. Highway 67 (Lindbergh)
Florissant, MO 63033
 www.pdclab.com

CHAIN OF CUSTODY RECORD
 Phone (314) 432-0550 or (314) 921-4488
 Fax (314) 432-4977

State where samples collected MO

(Instructions/Sample Acceptance Policy on Reverse)

ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

| | | | | | | |
|--|----------------|---------------------|-------------------------------------|---|--|---|
| 1 CLIENT <u>BARR/BRIDGETON LF</u> ADDRESS CITY STATE ZIP CONTACT PERSON | PROJECT NUMBER | P.O. NUMBER | MEANS SHIPPED | | 3 ANALYSIS REQUESTED COD + AMMONIA TSS/VSS + NITRATE/NITRITE DISS ZINC TOTAL ZINC DISS PH TSS | 4 (FOR LAB USE ONLY) LOGIN # <u>4061844</u> LOGGED BY: <u>HE</u> LAB PROJ. # TEMPLATE: PROJ. MGR.: |
| | PHONE NUMBER | FAX NUMBER | EMAIL ADDRESS | | | |
| | SAMPLER | SAMPLER'S SIGNATURE | | MATRIX TYPES: WW-WASTEWATER DW-DRINKING WATER GW-GROUND WATER WWSL-SLUDGE NAS-SOLID LCHT-LEACHATE NAL-NONAQUEOUS SOIL-SOILS | | |
| | REMARKS | | | | | |
| 2 SAMPLE DESCRIPTION AS YOU WANT ON REPORT | DATE COLLECTED | TIME COLLECTED | SAMPLE TYPE GRAB | MATRIX COMP TYPE | Bottle Count | |
| | <u>6/12/14</u> | <u>0904</u> | <input checked="" type="checkbox"/> | <u>LCHT</u> | <u>5</u> | <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> |
| <u>T3 STARTUP</u> | <u>6/12/14</u> | <u>0859</u> | <input checked="" type="checkbox"/> | <u>LCHT</u> | <u>2</u> | <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| <u>T2 STARTUP</u> | | | | | | |
| 5 TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE) NORMAL (8-10 Bus. Days) RUSH (5 Bus. Days) <u>Fastrak™</u> (3 Bus. Days) <u>1-2 Bus. Days</u> Same Day DATE DUE <u>6/13/14</u> RESULTS BY: E-MAIL FAX PHONE CALL PHONE/FAX# IF DIFFERENT FROM ABOVE | | | | | | The sample temperature will be measured upon receipt at the lab. By initiating this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initiating this area, you allow the lab to proceed with analytical testing regardless of the sample temperature. |
| 7 RELINQUISHED BY: (SIGNATURE) <u>[Signature]</u> <u>FBI</u> DATE <u>6-12-14</u> TIME <u>9:45am</u> RECEIVED BY: <u>[Signature]</u> DATE <u>6-12-14</u> TIME <u>9:45am</u> | | | | | | 8 COMMENTS: (FOR LAB USE ONLY) SAMPLE TEMPERATURE UPON RECEIPT CHILL PROCESS STARTED PRIOR TO RECEIPT SAMPLE(S) RECEIVED ON ICE PROPER BOTTLES RECEIVED IN GOOD CONDITION BOTTLES FILLED WITH ADEQUATE VOLUME SAMPLES RECEIVED WITHIN HOLD TIME(S) (EXCLUDES TYPICAL FIELD PARAMETERS) DATE AND TIME TAKEN FROM SAMPLE BOTTLE <u>17.5</u> YORN YORN YORN YORN |
| RELINQUISHED BY: (SIGNATURE) <u>[Signature]</u> DATE <u>6/12/14</u> TIME <u>10:10</u> RECEIVED BY: <u>Hester Leadcraft</u> DATE <u>6/12/14</u> TIME <u>10:10</u> | | | | | | |
| RELINQUISHED BY: (SIGNATURE) DATE TIME RECEIVED BY: DATE TIME | | | | | | |
| RELINQUISHED BY: (SIGNATURE) DATE TIME RECEIVED BY: DATE TIME | | | | | | |

Thank you for using PDC Laboratories, Inc. Locations in Peoria, IL; St. Louis, MO; and Springfield, MO



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/13/14 10:52
Report Date: 06/16/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Sample No: **4062120-01**
Sample Description: **Tank 3 Start-Up**

Collect Date: **06/13/14 09:14**
Matrix: **Waste Water Grab**

| Parameters | Result | Qual | Analysis Date | Analyst | Method |
|--|------------|------|----------------|---------|---------------------------|
| <u>Anions - STL</u> | | | | | |
| Nitrate-N | 29 mg/L | | 06/13/14 14:31 | DWM | EPA 300.0 R2.1 04KS |
| Nitrite-N | < 5.0 mg/L | | 06/13/14 14:31 | DWM | EPA 300.0 R2.1 04KS |
| <u>General Chemistry - STL</u> | | | | | |
| COD | 500 mg/L | | 06/13/14 13:10 | DAW | SM 5220D 18Ed 04KS |
| Solids - total suspended solids (TSS) | 2600 mg/L | | 06/13/14 11:25 | DAW | SM 2540D 18Ed 04KS |
| Solids - total volatile suspended solids | 740 mg/L | | 06/13/14 12:45 | DAW | SM 2540E 18Ed* |
| <u>Nutrients - STL</u> | | | | | |
| Ammonia-N | 91 mg/L | | 06/14/14 09:30 | ACV | SM(18) 4500 NH3 04KS F |

Sample No: **4062120-02**
Sample Description: **Tank 2 Start-Up**

Collect Date: **06/13/14 09:08**
Matrix: **Waste Water**

| Parameters | Result | Qual | Analysis Date | Analyst | Method |
|---------------------------------------|------------|------|----------------|---------|---------------------------|
| <u>General Chemistry - STL</u> | | | | | |
| COD | 25000 mg/L | | 06/13/14 13:10 | DAW | SM 5220D 18Ed 04KS |
| Solids - total suspended solids (TSS) | 3400 mg/L | | 06/13/14 11:25 | DAW | SM 2540D 18Ed 04KS |
| <u>Nutrients - STL</u> | | | | | |
| Ammonia-N | 260 mg/L | | 06/14/14 09:30 | ACV | SM(18) 4500 NH3 04KS F |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/13/14 10:52
Report Date: 06/16/14
Customer #: 277310
PO#: 4167739

Laboratory Results

General Chemistry - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|--|--------|-------|--|---------------|----------|-------------|-----|-----------|
| Batch B409739 - 04-No Prep WC | | | | | | | | |
| Blank (B409739-BLK1) | | | Prepared & Analyzed: 06/13/14 | | | | | |
| Solids - total suspended solids (TSS) | < 2.0 | mg/L | | | | | | |
| LCS (B409739-BS1) | | | Prepared & Analyzed: 06/13/14 | | | | | |
| Solids - total suspended solids (TSS) | 102 | mg/L | 100.0 | 102 | 82.9-110 | | | |
| Duplicate (B409739-DUP1) | | | Source: 4062048-01 Prepared & Analyzed: 06/13/14 | | | | | |
| Solids - total suspended solids (TSS) | 4.40 | mg/L | 4.80 | | | | 9 | 5 |
| Duplicate (B409739-DUP2) | | | Source: 4062120-01 Prepared & Analyzed: 06/13/14 | | | | | |
| Solids - total suspended solids (TSS) | 2520 | mg/L | 2580 | | | | 2 | 5 |
| Batch B409768 - 04-No Prep WC | | | | | | | | |
| Duplicate (B409768-DUP1) | | | Source: 4061844-01 Prepared & Analyzed: 06/13/14 | | | | | |
| Solids - total volatile suspended solids | 560 | mg/L | 540 | | | | 4 | 5 |
| Duplicate (B409768-DUP2) | | | Source: 4062120-01 Prepared & Analyzed: 06/13/14 | | | | | |
| Solids - total volatile suspended solids | 740 | mg/L | 740 | | | | 0 | 5 |
| Batch B409770 - 04-No Prep WC | | | | | | | | |
| Calibration Blank (B409770-CCB2) | | | Prepared & Analyzed: 06/13/14 | | | | | |
| COD | -5.10 | mg/L | | | | | | |
| Calibration Check (B409770-CCV2) | | | Prepared & Analyzed: 06/13/14 | | | | | |
| COD | 500 | mg/L | 500.0 | 100 | 95-105 | | | |
| Duplicate (B409770-DUP2) | | | Source: 4061844-02 Prepared & Analyzed: 06/13/14 | | | | | |
| COD | 24200 | mg/L | 24300 | | | | 0.4 | 20 |

Nutrients - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|--------|-------|--|---------------|--------|-------------|-----|-----------|
| Batch B409825 - 04-No Prep WC | | | | | | | | |
| Calibration Blank (B409825-CCB1) | | | Prepared & Analyzed: 06/14/14 | | | | | |
| Ammonia-N | 0.00 | mg/L | | | | | | |
| Calibration Check (B409825-CCV1) | | | Prepared & Analyzed: 06/14/14 | | | | | |
| Ammonia-N | 10.1 | mg/L | 10.00 | 101 | 90-110 | | | |
| Matrix Spike (B409825-MS1) | | | Source: 4062166-01 Prepared & Analyzed: 06/14/14 | | | | | |
| Ammonia-N | 9.42 | mg/L | 10.00 | ND | 94 | 80-120 | | |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/13/14 10:52
Report Date: 06/16/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Nutrients - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|--|--------|-------|---------------------------|---------------|-------------------------------|-------------|-----|-----------|
| Batch B409825 - 04-No Prep WC | | | | | | | | |
| Matrix Spike Dup (B409825-MSD1) | | | Source: 4062166-01 | | Prepared & Analyzed: 06/14/14 | | | |
| Ammonia-N | 9.68 | mg/L | 10.00 | ND | 97 | 80-120 | 3 | 20 |

Anions - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|--------|-------|-------------------------------|---------------|-------------------------------|-------------|-----|-----------|
| Batch B409868 - 04-IC No Prep | | | | | | | | |
| Calibration Blank (B409868-CCB1) | | | Prepared & Analyzed: 06/13/14 | | | | | |
| Nitrate-N | 0.00 | mg/L | | | | | | |
| Nitrite-N | 0.00 | mg/L | | | | | | |
| Calibration Check (B409868-CCV1) | | | Prepared & Analyzed: 06/13/14 | | | | | |
| Nitrate-N | 1.23 | mg/L | 1.130 | | 109 | 90-110 | | |
| Nitrite-N | 2.18 | mg/L | 2.000 | | 109 | 90-110 | | |
| Matrix Spike (B409868-MS1) | | | Source: 4060891-02 | | Prepared & Analyzed: 06/13/14 | | | |
| Nitrate-N | Q3 120 | mg/L | 113.0 | 37 | 78 | 80-120 | | |
| Nitrite-N | Q3 540 | mg/L | 250.0 | ND | 216 | 80-120 | | |
| Matrix Spike Dup (B409868-MSD1) | | | Source: 4060891-02 | | Prepared & Analyzed: 06/13/14 | | | |
| Nitrite-N | Q3 547 | mg/L | 250.0 | ND | 219 | 80-120 | 1 | 20 |
| Nitrate-N | Q3 130 | mg/L | 113.0 | 37 | 79 | 80-120 | 0.7 | 20 |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/13/14 10:52
Report Date: 06/16/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Notes

This report shall not be reproduced, except in full, without the written approval of the laboratory.

PDC Laboratories participates in the following accreditation/certification and proficiency programs at the following locations. Endorsement by Federal or State Governments or their agencies is not implied.

- PIA PDC Laboratories - Peoria, IL
NELAC Accreditation for Drinking Water, Wastewater, Hazardous and Solid Wastes Fields of Testing through IL EPA Lab No. 100230
Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 17553
Drinking Water Certifications: Kansas (E-10338); Missouri (870); Wisconsin (998284430); Iowa (240)
Wastewater Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
Hazardous/Solid Waste Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
UST Certification; Iowa (240)
- SPM PDC Laboratories - Springfield, MO
EPA DMR-QA Program
- STL PDC Laboratories - St. Louis, MO
NELAC Accreditation for Wastewater, Hazardous and Solid Wastes Fields of Testing
Drinking Water Certifications: Kansas (E-10389)

Q3 MS/MSD both failed %R

Certified by: Roxann Shull, Client Services Supervisor



PDC Laboratories, Inc. – St. Louis
3278 N. Highway 67 (Lindbergh)
Florissant, MO 63033
 www.pdclab.com

CHAIN OF CUSTODY RECORD
 Phone (314) 432-0550 or (314) 921-4488
 Fax (314) 432-4977

State where samples collected MO
 (Instructions/Sample Acceptance Policy on Reverse)

ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

| | | | | | | | | | | | | |
|--|--|---|----------------|--|-------------|--|--------------|---|--|--|--|---------|
| 1 CLIENT <u>BARR/BRIDGETON LF</u> | | PROJECT NUMBER | P.O. NUMBER | MEANS SHIPPED | | 3 ANALYSIS REQUESTED | | | | 4 (FOR LAB USE ONLY) LOGIN # <u>4062120</u> LOGGED BY: <u>HE</u> LAB PROJ. # TEMPLATE: PROJ. MGR.: | | |
| ADDRESS | | PHONE NUMBER | FAX NUMBER | EMAIL ADDRESS | | COD + AMMONIA TSS/SS + NITRATE/NITRITE TSS | | | | | | REMARKS |
| CITY STATE ZIP | | SAMPLER | | MATRIX TYPES: WW-WASTEWATER DW-DRINKING WATER GW-GROUND WATER WWSL-SLUDGE MAS-SOLID LCHT-LEACHATE MAL-NON-AQUEOUS SOIL-SOILS | | | | | | | | |
| CONTACT PERSON | | SAMPLER'S SIGNATURE | | | | | | | | | | |
| 2 SAMPLE DESCRIPTION AS YOU WANT ON REPORT | | DATE COLLECTED | TIME COLLECTED | SAMPLE TYPE GRAB | MATRIX COMP | Bottle Count | | | | | | |
| <u>T3 STARTUP</u> | | <u>6/13/14</u> | <u>0914</u> | <input checked="" type="checkbox"/> | | <u>2</u> | | | | | | |
| <u>T2 STARTUP</u> | | <u>6/13/14</u> | <u>0908</u> | <input checked="" type="checkbox"/> | | <u>2</u> | | | | | | |
| 5 TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE) NORMAL (8-10 Bus. Days) RUSH (5 Bus. Days) <u>Fastrak™ (3 Bus. Days)</u> <u>1-2 Bus. Days</u> Same Day DATE DUE <u>6/14/14</u> | | The sample temperature will be measured upon receipt at the lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature. | | | | | | | | | | |
| RESULTS BY: E-MAIL FAX PHONE CALL PHONE/FAX# IF DIFFERENT FROM ABOVE | | 6 | | | | | | | | | | |
| 7 RELINQUISHED BY: (SIGNATURE) <u>Greg M. Sehe</u> | | DATE | TIME | RECEIVED BY: | | DATE | TIME | 8 COMMENTS (FOR LAB USE ONLY) | | | | |
| RELINQUISHED BY: (SIGNATURE) <u>Red Eohl</u> | | <u>6/13</u> | <u>10:19</u> | <u>[Signature]</u> | | <u>6/13/14</u> | <u>10:19</u> | SAMPLE TEMPERATURE UPON RECEIPT <u>17.5°C</u> CHILL PROCESS STARTED PRIOR TO RECEIPT SAMPLE(S) RECEIVED ON ICE PROPER BOTTLES RECEIVED IN GOOD CONDITION BOTTLES FILLED WITH ADEQUATE VOLUME SAMPLES RECEIVED WITHIN HOLD TIME(S) (EXCLUDES TYPICAL FIELD PARAMETERS) DATE AND TIME TAKEN FROM SAMPLE BOTTLE YORN YORN YORN YORN | | | | |
| RELINQUISHED BY: (SIGNATURE) | | <u>6/13/14</u> | <u>10:40</u> | <u>[Signature]</u> | | <u>6/13/14</u> | <u>10:40</u> | | | | | |
| RELINQUISHED BY: (SIGNATURE) | | DATE | TIME | RECEIVED BY: | | DATE | TIME | | | | | |
| RELINQUISHED BY: (SIGNATURE) | | DATE | TIME | RECEIVED BY: | | DATE | TIME | | | | | |

Thank you for using PDC Laboratories, Inc. Locations in Peoria, IL; St. Louis, MO; and Springfield, MO



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/14/14 9:16
Report Date: 06/16/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Sample No: **4062270-01**
Sample Description: **Tank 3 Start-Up**

Collect Date: **06/14/14 09:17**
Matrix: **Waste Water Grab**

| Parameters | Result | Qual | Analysis Date | Analyst | Method |
|--|-----------|------|----------------|---------|---------------------------|
| <u>Anions - STL</u> | | | | | |
| Nitrate-N | 69 mg/L | | 06/14/14 11:05 | DAW | EPA 300.0 R2.1 04KS |
| Nitrite-N | 43 mg/L | | 06/14/14 11:05 | DAW | EPA 300.0 R2.1 04KS |
| <u>General Chemistry - STL</u> | | | | | |
| COD | 1600 mg/L | | 06/16/14 10:15 | DAW | SM 5220D 18Ed 04KS |
| Solids - total suspended solids (TSS) | 2600 mg/L | | 06/14/14 11:15 | DAW | SM 2540D 18Ed 04KS |
| Solids - total volatile suspended solids | 900 mg/L | | 06/16/14 13:00 | DAW | SM 2540E 18Ed* |
| <u>Nutrients - STL</u> | | | | | |
| Ammonia-N | 13 mg/L | | 06/14/14 09:30 | ACV | SM(18) 4500 NH3 04KS F |

Sample No: **4062270-02**
Sample Description: **Tank 2 Start-Up**

Collect Date: **06/14/14 09:26**
Matrix: **Waste Water**

| Parameters | Result | Qual | Analysis Date | Analyst | Method |
|---------------------------------------|------------|------|----------------|---------|---------------------------|
| <u>General Chemistry - STL</u> | | | | | |
| COD | 23000 mg/L | | 06/16/14 10:15 | DAW | SM 5220D 18Ed 04KS |
| Solids - total suspended solids (TSS) | 2800 mg/L | | 06/14/14 11:15 | DAW | SM 2540D 18Ed 04KS |
| <u>Nutrients - STL</u> | | | | | |
| Ammonia-N | 380 mg/L | | 06/14/14 09:30 | ACV | SM(18) 4500 NH3 04KS F |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/14/14 9:16
Report Date: 06/16/14
Customer #: 277310
PO#: 4167739

Laboratory Results

General Chemistry - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|--|----------|-------|--|---------------|------|-------------|-----|-----------|
| Batch B409792 - 04-No Prep WC | | | | | | | | |
| Blank (B409792-BLK1) | | | Prepared & Analyzed: 06/14/14 | | | | | |
| Solids - total suspended solids (TSS) | < 2.0 | mg/L | | | | | | |
| LCS (B409792-BS1) | | | Prepared & Analyzed: 06/14/14 | | | | | |
| Solids - total suspended solids (TSS) | 98.0 | mg/L | 100.0 | | 98 | 82.9-110 | | |
| Duplicate (B409792-DUP1) | | | Source: 4062178-01 Prepared & Analyzed: 06/14/14 | | | | | |
| Solids - total suspended solids (TSS) | 2820 | mg/L | | 2740 | | | 3 | 5 |
| Duplicate (B409792-DUP2) | | | Source: 4062270-01 Prepared & Analyzed: 06/14/14 | | | | | |
| Solids - total suspended solids (TSS) | 2600 | mg/L | | 2560 | | | 2 | 5 |
| Batch B409793 - 04-No Prep WC | | | | | | | | |
| Calibration Blank (B409793-CCB1) | | | Prepared & Analyzed: 06/14/14 | | | | | |
| COD | -0.00477 | mg/L | | | | | | |
| Calibration Blank (B409793-CCB2) | | | Prepared & Analyzed: 06/14/14 | | | | | |
| COD | -5.07 | mg/L | | | | | | |
| Calibration Check (B409793-CCV1) | | | Prepared & Analyzed: 06/14/14 | | | | | |
| COD | 102 | mg/L | 100.0 | | 102 | 95-105 | | |
| Calibration Check (B409793-CCV2) | | | Prepared & Analyzed: 06/14/14 | | | | | |
| COD | 495 | mg/L | 500.0 | | 99 | 95-105 | | |
| Duplicate (B409793-DUP1) | | | Source: 4061609-01 Prepared & Analyzed: 06/14/14 | | | | | |
| COD | 18.5 | mg/L | | 18.8 | | | 1 | 20 |
| Duplicate (B409793-DUP2) | | | Source: 4061704-01 Prepared & Analyzed: 06/14/14 | | | | | |
| COD | 9690 | mg/L | | 9780 | | | 0.9 | 20 |
| Batch B409885 - 04-No Prep WC | | | | | | | | |
| Duplicate (B409885-DUP1) | | | Source: 4062270-01 Prepared & Analyzed: 06/16/14 | | | | | |
| Solids - total volatile suspended solids | 880 | mg/L | | 900 | | | 2 | 5 |
| Nutrients - Quality Control | | | | | | | | |
| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
| Batch B409825 - 04-No Prep WC | | | | | | | | |
| Calibration Blank (B409825-CCB1) | | | Prepared & Analyzed: 06/14/14 | | | | | |
| Ammonia-N | 0.00 | mg/L | | | | | | |
| Calibration Check (B409825-CCV1) | | | Prepared & Analyzed: 06/14/14 | | | | | |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/14/14 9:16
Report Date: 06/16/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Nutrients - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|--------|-------|--|---------------|------|-------------|-----|-----------|
| Batch B409825 - 04-No Prep WC | | | | | | | | |
| Calibration Check (B409825-CCV1) | | | Prepared & Analyzed: 06/14/14 | | | | | |
| Ammonia-N | 10.1 | mg/L | 10.00 | | 101 | 90-110 | | |
| Matrix Spike (B409825-MS1) | | | Source: 4062166-01 Prepared & Analyzed: 06/14/14 | | | | | |
| Ammonia-N | 9.42 | mg/L | 10.00 | ND | 94 | 80-120 | | |
| Matrix Spike Dup (B409825-MSD1) | | | Source: 4062166-01 Prepared & Analyzed: 06/14/14 | | | | | |
| Ammonia-N | 9.68 | mg/L | 10.00 | ND | 97 | 80-120 | 3 | 20 |

Anions - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|--------|-------|--|---------------|------|-------------|-----|-----------|
| Batch B409868 - 04-IC No Prep | | | | | | | | |
| Calibration Blank (B409868-CCB1) | | | Prepared & Analyzed: 06/13/14 | | | | | |
| Nitrate-N | 0.00 | mg/L | | | | | | |
| Nitrite-N | 0.00 | mg/L | | | | | | |
| Calibration Check (B409868-CCV1) | | | Prepared & Analyzed: 06/13/14 | | | | | |
| Nitrate-N | 1.23 | mg/L | 1.130 | | 109 | 90-110 | | |
| Nitrite-N | 2.18 | mg/L | 2.000 | | 109 | 90-110 | | |
| Matrix Spike (B409868-MS1) | | | Source: 4060891-02 Prepared & Analyzed: 06/13/14 | | | | | |
| Nitrate-N | Q3 120 | mg/L | 113.0 | 37 | 78 | 80-120 | | |
| Nitrite-N | Q3 540 | mg/L | 250.0 | ND | 216 | 80-120 | | |
| Matrix Spike Dup (B409868-MSD1) | | | Source: 4060891-02 Prepared & Analyzed: 06/13/14 | | | | | |
| Nitrate-N | Q3 130 | mg/L | 113.0 | 37 | 79 | 80-120 | 0.7 | 20 |
| Nitrite-N | Q3 547 | mg/L | 250.0 | ND | 219 | 80-120 | 1 | 20 |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/14/14 9:16
Report Date: 06/16/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Notes

This report shall not be reproduced, except in full, without the written approval of the laboratory.

PDC Laboratories participates in the following accreditation/certification and proficiency programs at the following locations. Endorsement by Federal or State Governments or their agencies is not implied.

- PIA PDC Laboratories - Peoria, IL
NELAC Accreditation for Drinking Water, Wastewater, Hazardous and Solid Wastes Fields of Testing through IL EPA Lab No. 100230
Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 17553
Drinking Water Certifications: Kansas (E-10338); Missouri (870); Wisconsin (998284430); Iowa (240)
Wastewater Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
Hazardous/Solid Waste Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
UST Certification; Iowa (240)
- SPM PDC Laboratories - Springfield, MO
EPA DMR-QA Program
- STL PDC Laboratories - St. Louis, MO
NELAC Accreditation for Wastewater, Hazardous and Solid Wastes Fields of Testing
Drinking Water Certifications: Kansas (E-10389)

Q3 MS/MSD both failed %R

Certified by: Roxann Shull, Client Services Supervisor



CHAIN OF CUSTODY RECORD

ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

| 1 CLIENT | | PROJECT NUMBER | P.O. NUMBER | MEANS SHIPPED | 3 ANALYSIS REQUESTED | | | 4 (FOR LAB USE ONLY) | |
|---|---------------------|---|----------------|---|---|--------------|--------------------------------|------------------------|---------|
| <u>BARR/BRIDLETON LF</u> | | | | | COD + AMMONIA TSS/MS5 + NITRATE/NITRITE TSS | | | LOGIN # <u>4060270</u> | REMARKS |
| ADDRESS | | PHONE NUMBER | FAX NUMBER | EMAIL ADDRESS | | | | LOGGED BY: <u>HE</u> | |
| CITY STATE ZIP | SAMPLER | MATRIX TYPES: WW-WASTEWATER DW-DRINKING WATER GW-GROUND WATER WWSL-SLUDGE NAS-SOLID LCHTL-LEACHATE NAL-NON-AQUEOUS SOIL-SOILS | | LAB PROJ. # | | | | | |
| CONTACT PERSON | SAMPLER'S SIGNATURE | TEMPLATE: | | PROJ. MGR.: | | | | | |
| 2 SAMPLE DESCRIPTION AS YOU WANT ON REPORT | | DATE COLLECTED | TIME COLLECTED | SAMPLE TYPE GRAB | MATRIX COMP TYPE | Bottle Count | | | |
| <u>T3 STARTUP</u> | | <u>6/14/14</u> | <u>0917</u> | <input checked="" type="checkbox"/> | <u>LCHT</u> | <u>2</u> | | | |
| <u>T2 STARTUP</u> | | <u>6/14/14</u> | <u>0926</u> | <input checked="" type="checkbox"/> | <u>LCHT</u> | <u>2</u> | | | |
| 5 TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE) | | | | 6 The sample temperature will be measured upon receipt at the lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature. | | | | | |
| NORMAL (8-10 Bus. Days) RUSH (5 Bus. Days) <i>Fastrak™</i> (3 Bus. Days) 1-2 Bus. Days Same Day DATE DUE <u>6/15/14</u> | | | | RESULTS BY: E-MAIL FAX PHONE CALL PHONE/FAX# IF DIFFERENT FROM ABOVE | | | | | |
| 7 RELINQUISHED BY: (SIGNATURE) | | DATE | TIME | RECEIVED BY: | DATE | TIME | 8 COMMENTS: (FOR LAB USE ONLY) | | |
| <u>Arnon Wilson</u> | | <u>6-14-14</u> | <u>10:07</u> | <u>Heather Eubank</u> | <u>6/14/14</u> | <u>10:07</u> | | | |
| <u>[Signature]</u> | | <u>6/14/14</u> | <u>10:28</u> | <u>[Signature]</u> | <u>6/14/14</u> | <u>08:40</u> | | | |
| <u>[Signature]</u> | | | | | | | | | |
| SAMPLE TEMPERATURE UPON RECEIPT <u>4.3 °C</u> CHILL PROCESS STARTED PRIOR TO RECEIPT SAMPLE(S) RECEIVED ON ICE PROPER BOTTLES RECEIVED IN GOOD CONDITION BOTTLES FILLED WITH ADEQUATE VOLUME SAMPLES RECEIVED WITHIN HOLD TIME(S) (EXCLUDES TYPICAL FIELD PARAMETERS) DATE AND TIME TAKEN FROM SAMPLE BOTTLE | | | | | | | | | |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/15/14 13:54
Report Date: 06/17/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Sample No: **4062341-01**
Sample Description: **Tank 3 Start-Up**

Collect Date: **06/15/14 09:06**
Matrix: **Waste Water Grab**

| Parameters | Result | Qual | Analysis Date | Analyst | Method |
|--|-----------|------|----------------|---------|---------------------------|
| <u>Anions - STL</u> | | | | | |
| Nitrate-N | 100 mg/L | | 06/16/14 16:05 | BP | EPA 300.0 R2.1 04KS |
| Nitrite-N | 15 mg/L | | 06/16/14 16:05 | BP | EPA 300.0 R2.1 04KS |
| <u>General Chemistry - STL</u> | | | | | |
| COD | 1800 mg/L | | 06/17/14 08:16 | DAW | SM 5220D 18Ed 04KS |
| Solids - total suspended solids (TSS) | 2300 mg/L | | 06/16/14 14:15 | DAW | SM 2540D 18Ed 04KS |
| Solids - total volatile suspended solids | 780 mg/L | | 06/17/14 08:45 | DAW | SM 2540E 18Ed* |
| <u>Nutrients - STL</u> | | | | | |
| Ammonia-N | 0.39 mg/L | | 06/16/14 12:30 | ACV | SM(18) 4500 NH3 04KS F |

Sample No: **4062341-02**
Sample Description: **Tank 2 Start-Up**

Collect Date: **06/15/14 09:14**
Matrix: **Waste Water**

| Parameters | Result | Qual | Analysis Date | Analyst | Method |
|---------------------------------------|------------|------|----------------|---------|---------------------------|
| <u>General Chemistry - STL</u> | | | | | |
| COD | 23000 mg/L | | 06/17/14 08:17 | DAW | SM 5220D 18Ed 04KS |
| Solids - total suspended solids (TSS) | 3100 mg/L | | 06/16/14 14:15 | DAW | SM 2540D 18Ed 04KS |
| <u>Nutrients - STL</u> | | | | | |
| Ammonia-N | 420 mg/L | | 06/16/14 12:30 | ACV | SM(18) 4500 NH3 04KS F |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/15/14 13:54
Report Date: 06/17/14
Customer #: 277310
PO#: 4167739

Laboratory Results

General Chemistry - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---------|--------|-------|-------------|---------------|------|-------------|-----|-----------|
|---------|--------|-------|-------------|---------------|------|-------------|-----|-----------|

Batch B409877 - 04-No Prep WC

Blank (B409877-BLK1) Prepared & Analyzed: 06/16/14

| | | | | | | | | |
|---------------------------------------|-------|------|--|--|--|--|--|--|
| Solids - total suspended solids (TSS) | < 2.0 | mg/L | | | | | | |
|---------------------------------------|-------|------|--|--|--|--|--|--|

LCS (B409877-BS1) Prepared & Analyzed: 06/16/14

| | | | | | | | | |
|---------------------------------------|------|------|-------|--|----|----------|--|--|
| Solids - total suspended solids (TSS) | 99.0 | mg/L | 100.0 | | 99 | 82.9-110 | | |
|---------------------------------------|------|------|-------|--|----|----------|--|--|

Duplicate (B409877-DUP1) Source: 4062267-01 Prepared & Analyzed: 06/16/14

| | | | | | | | | |
|---------------------------------------|------|------|--|------|--|--|---|---|
| Solids - total suspended solids (TSS) | 1640 | mg/L | | 1720 | | | 5 | 5 |
|---------------------------------------|------|------|--|------|--|--|---|---|

Duplicate (B409877-DUP2) Source: 4062341-01 Prepared & Analyzed: 06/16/14

| | | | | | | | | |
|---------------------------------------|------|------|--|------|--|--|-----|---|
| Solids - total suspended solids (TSS) | 2280 | mg/L | | 2260 | | | 0.9 | 5 |
|---------------------------------------|------|------|--|------|--|--|-----|---|

Batch B409898 - 04-No Prep WC

Calibration Blank (B409898-CCB1) Prepared: 06/16/14 Analyzed: 06/17/14

| | | | | | | | | |
|-----|--------|------|--|--|--|--|--|--|
| COD | -0.300 | mg/L | | | | | | |
|-----|--------|------|--|--|--|--|--|--|

Calibration Blank (B409898-CCB2) Prepared: 06/16/14 Analyzed: 06/17/14

| | | | | | | | | |
|-----|-------|------|--|--|--|--|--|--|
| COD | -5.10 | mg/L | | | | | | |
|-----|-------|------|--|--|--|--|--|--|

Calibration Check (B409898-CCV1) Prepared: 06/16/14 Analyzed: 06/17/14

| | | | | | | | | |
|-----|-----|------|-------|--|-----|--------|--|--|
| COD | 102 | mg/L | 100.0 | | 102 | 95-105 | | |
|-----|-----|------|-------|--|-----|--------|--|--|

Calibration Check (B409898-CCV2) Prepared: 06/16/14 Analyzed: 06/17/14

| | | | | | | | | |
|-----|-----|------|-------|--|----|--------|--|--|
| COD | 491 | mg/L | 500.0 | | 98 | 95-105 | | |
|-----|-----|------|-------|--|----|--------|--|--|

Duplicate (B409898-DUP1) Source: 4062231-01 Prepared: 06/16/14 Analyzed: 06/17/14

| | | | | | | | | |
|-----|-------|------|--|----|--|--|--|----|
| COD | < 5.0 | mg/L | | ND | | | | 20 |
|-----|-------|------|--|----|--|--|--|----|

Duplicate (B409898-DUP2) Source: 4062342-02 Prepared: 06/16/14 Analyzed: 06/17/14

| | | | | | | | | |
|-----|-------|------|--|-------|--|--|---|----|
| COD | 23600 | mg/L | | 23600 | | | 0 | 20 |
|-----|-------|------|--|-------|--|--|---|----|

Batch B409946 - 04-No Prep WC

Duplicate (B409946-DUP1) Source: 4062341-01 Prepared & Analyzed: 06/17/14

| | | | | | | | | |
|--|-----|------|--|-----|--|--|---|---|
| Solids - total volatile suspended solids | 780 | mg/L | | 780 | | | 0 | 5 |
|--|-----|------|--|-----|--|--|---|---|

Nutrients - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---------|--------|-------|-------------|---------------|------|-------------|-----|-----------|
|---------|--------|-------|-------------|---------------|------|-------------|-----|-----------|



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/15/14 13:54
Report Date: 06/17/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Nutrients - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|--------|-------|-------------------------------|---------------|------|-------------|-----|-----------|
| Batch B409900 - 04-No Prep WC | | | | | | | | |
| Calibration Blank (B409900-CCB1) | | | Prepared & Analyzed: 06/16/14 | | | | | |
| Ammonia-N | 0.00 | mg/L | | | | | | |
| Calibration Check (B409900-CCV1) | | | Prepared & Analyzed: 06/16/14 | | | | | |
| Ammonia-N | 10.1 | mg/L | 10.00 | | 101 | 90-110 | | |
| Matrix Spike (B409900-MS1) | | | Prepared & Analyzed: 06/16/14 | | | | | |
| Ammonia-N | 21.5 | mg/L | 10.00 | 11.6 | 99 | 80-120 | | |
| Matrix Spike Dup (B409900-MSD1) | | | Prepared & Analyzed: 06/16/14 | | | | | |
| Ammonia-N | 21.4 | mg/L | 10.00 | 11.6 | 98 | 80-120 | 0.5 | 20 |

Anions - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---------|-------|-------------------------------|---------------|------|-------------|-----|-----------|
| Batch B409876 - 04-IC No Prep | | | | | | | | |
| Calibration Blank (B409876-CCB1) | | | Prepared & Analyzed: 06/16/14 | | | | | |
| Nitrite-N | 0.00 | mg/L | | | | | | |
| Nitrate-N | 0.380 | mg/L | | | | | | |
| Calibration Check (B409876-CCV1) | | | Prepared & Analyzed: 06/16/14 | | | | | |
| Nitrite-N | 2.18 | mg/L | 2.000 | | 109 | 90-110 | | |
| Nitrate-N | 1.23 | mg/L | 1.130 | | 109 | 90-110 | | |
| Matrix Spike (B409876-MS1) | | | Prepared & Analyzed: 06/16/14 | | | | | |
| Nitrite-N | Q3 51.1 | mg/L | 25.00 | ND | 204 | 80-120 | | |
| Nitrate-N | Q4 130 | mg/L | 11.30 | 130 | 63 | 80-120 | | |
| Matrix Spike Dup (B409876-MSD1) | | | Prepared & Analyzed: 06/16/14 | | | | | |
| Nitrate-N | Q4 130 | mg/L | 11.30 | 130 | 52 | 80-120 | 1 | 20 |
| Nitrite-N | Q3 51.8 | mg/L | 25.00 | ND | 207 | 80-120 | 1 | 20 |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/15/14 13:54
Report Date: 06/17/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Notes

This report shall not be reproduced, except in full, without the written approval of the laboratory.

PDC Laboratories participates in the following accreditation/certification and proficiency programs at the following locations. Endorsement by Federal or State Governments or their agencies is not implied.

- PIA PDC Laboratories - Peoria, IL
NELAC Accreditation for Drinking Water, Wastewater, Hazardous and Solid Wastes Fields of Testing through IL EPA Lab No. 100230
Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 17553
Drinking Water Certifications: Kansas (E-10338); Missouri (870); Wisconsin (998284430); Iowa (240)
Wastewater Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
Hazardous/Solid Waste Certifications; Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
UST Certification; Iowa (240)
- SPM PDC Laboratories - Springfield, MO
EPA DMR-QA Program
- STL PDC Laboratories - St. Louis, MO
NELAC Accreditation for Wastewater, Hazardous and Solid Wastes Fields of Testing
Drinking Water Certifications: Kansas (E-10389)

- Q4 The matrix spike recovery result is unusable since the analyte concentration in the sample is greater than four times the spike level. The associated blank spike was acceptable.
- Q3 MS/MSD both failed %R

Certified by: Roxann Shull, Client Services Supervisor



PDC Laboratories, Inc. – St. Louis
3278 N. Highway 67 (Lindbergh)
Florissant, MO 63033

www.pdcclab.com

CHAIN OF CUSTODY RECORD
 Phone (314) 432-0550 or (314) 921-4488
 Fax (314) 432-4977

State where samples collected MO

(Instructions/Sample Acceptance Policy on Reverse)

ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

| | | | | | | | | | | | | | | | | | | | |
|---|---|---------------------|---|-------------------------------------|----------------|---|---------------------------|-------------------------------------|-------------------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 1 | CLIENT <u>BARR/BRIDGETON LF</u> | PROJECT NUMBER | P.O. NUMBER | MEANS SHIPPED | 3 | ANALYSIS REQUESTED | | | 4 | (FOR LAB USE ONLY) | | | | | | | | | |
| | ADDRESS | PHONE NUMBER | FAX NUMBER | EMAIL ADDRESS | | COD + AMMONIA TSS/TSS + NITRATE/NITRIDE TSS | LOGIN # <u>4062341</u> | LOGGED BY: <u>HE</u> | | LAB PROJ. # | REMARKS | | | | | | | | |
| | CITY STATE ZIP | SAMPLER | MATRIX TYPES: WW-WASTEWATER DW-DRINKING WATER GW-GROUND WATER WWSL-SLUDGE NAS-SOLID L'CHT-LEACHATE NAL-NON-AQUEOUS SOIL-SOILS | | | | TEMPLATE: | | | | | | | | | | | | |
| | CONTACT PERSON | SAMPLER'S SIGNATURE | | | | | PROJ. MGR.: | | | | | | | | | | | | |
| 2 | SAMPLE DESCRIPTION AS YOU WANT ON REPORT | DATE COLLECTED | TIME COLLECTED | SAMPLE TYPE GRAB | MATRIX COMP | Bottle TYPE | Count | | | | | | | | | | | | |
| | <u>T3 STARTUP</u> | <u>6/15/14</u> | <u>0906</u> | <input checked="" type="checkbox"/> | <u>LCHT</u> | <u>2</u> | <u>2</u> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | <u>T2 STARTUP</u> | <u>6/15/14</u> | <u>0914</u> | <input checked="" type="checkbox"/> | <u>LCHT</u> | <u>2</u> | <u>2</u> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

5 TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE)
 NORMAL (8-10 Bus. Days) RUSH (5 Bus. Days) Fastrak™ (3 Bus. Days) 1-2 Bus. Days Same Day
 DATE DUE 6/16/14

RESULTS BY: E-MAIL FAX PHONE CALL PHONE/FAX# IF DIFFERENT FROM ABOVE

The sample temperature will be measured upon receipt at the lab. By initiating this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initiating this area, you allow the lab to proceed with analytical testing regardless of the sample temperature.

| | | | | | | | | |
|---|--|------------------------|----------------------|------------------------------------|------------------------|----------------------|---|--|
| 7 | RELINQUISHED BY: (SIGNATURE) <u>[Signature]</u> | DATE <u>6-16-14</u> | TIME <u>1:25a</u> | RECEIVED BY: <u>[Signature]</u> | DATE <u>6/16/14</u> | TIME <u>13:25</u> | 8 | COMMENTS:(FOR LAB USE ONLY) |
| | RELINQUISHED BY: (SIGNATURE) <u>[Signature]</u> | DATE <u>6-16-14</u> | TIME <u>13:50</u> | RECEIVED BY: <u>[Signature]</u> | DATE <u>6/16/14</u> | TIME <u>13:50</u> | | SAMPLE TEMPERATURE UPON RECEIPT <u>3.3°C</u> |
| | RELINQUISHED BY: (SIGNATURE) | DATE | TIME | RECEIVED BY: | DATE | TIME | | CHILL PROCESS STARTED PRIOR TO RECEIPT SAMPLE(S) RECEIVED ON ICE PROPER BOTTLES RECEIVED IN GOOD CONDITION BOTTLES FILLED WITH ADEQUATE VOLUME SAMPLES RECEIVED WITHIN HOLD TIME(S) (EXCLUDES TYPICAL FIELD PARAMETERS) DATE AND TIME TAKEN FROM SAMPLE BOTTLE |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/16/14 14:01
Report Date: 06/17/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Sample No: **4062342-01**
Sample Description: **Tank 3 Start-Up**

Collect Date: **06/16/14 08:20**
Matrix: **Waste Water Grab**

| Parameters | Result | Qual | Analysis Date | Analyst | Method |
|--|------------|------|----------------|---------|------------------------|
| <u>Anions - STL</u> | | | | | |
| Nitrate-N | 130 mg/L | Q4 | 06/16/14 17:12 | BP | EPA 300.0 R2.1 04KS |
| Nitrite-N | < 5.0 mg/L | Q3 | 06/16/14 16:22 | BP | EPA 300.0 R2.1 04KS |
| <u>General Chemistry - STL</u> | | | | | |
| COD | 1700 mg/L | | 06/17/14 08:17 | DAW | SM 5220D 18Ed 04KS |
| Solids - total suspended solids (TSS) | 1800 mg/L | | 06/16/14 14:15 | DAW | SM 2540D 18Ed 04KS |
| Solids - total volatile suspended solids | 640 mg/L | | 06/17/14 08:45 | DAW | SM 2540E 18Ed* |
| <u>Nutrients - STL</u> | | | | | |
| Ammonia-N | 0.38 mg/L | | 06/16/14 12:30 | ACV | SM(18) 4500 NH3 F 04KS |
| <u>Soluble Metals - STL</u> | | | | | |
| Zinc | 0.30 mg/L | | 06/17/14 10:32 | WPS | EPA 200.7 R4.4 04KS |
| <u>Soluble Nutrients - STL</u> | | | | | |
| Phosphorus - ortho as P | 1.5 mg/L | | 06/16/14 16:30 | ACV | SM 4500P B E 18ed* |
| <u>Total Metals - STL</u> | | | | | |
| Zinc | 1.4 mg/L | | 06/17/14 10:37 | WPS | EPA 200.7 R4.4 04KS |

Sample No: **4062342-02**
Sample Description: **Tank 2 Start-Up**

Collect Date: **06/16/14 08:31**
Matrix: **Waste Water**

| Parameters | Result | Qual | Analysis Date | Analyst | Method |
|---------------------------------------|------------|------|----------------|---------|------------------------|
| <u>General Chemistry - STL</u> | | | | | |
| COD | 24000 mg/L | | 06/17/14 08:17 | DAW | SM 5220D 18Ed 04KS |
| Solids - total suspended solids (TSS) | 3000 mg/L | | 06/16/14 14:15 | DAW | SM 2540D 18Ed 04KS |
| <u>Nutrients - STL</u> | | | | | |
| Ammonia-N | 370 mg/L | | 06/16/14 12:30 | ACV | SM(18) 4500 NH3 F 04KS |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/16/14 14:01
Report Date: 06/17/14
Customer #: 277310
PO#: 4167739

Laboratory Results

General Chemistry - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---------|--------|-------|-------------|---------------|------|-------------|-----|-----------|
|---------|--------|-------|-------------|---------------|------|-------------|-----|-----------|

Batch B409877 - 04-No Prep WC

| | | | | | | | | |
|---------------------------------------|-------|------|--|------|----|----------|-----|---|
| Blank (B409877-BLK1) | | | Prepared & Analyzed: 06/16/14 | | | | | |
| Solids - total suspended solids (TSS) | < 2.0 | mg/L | | | | | | |
| LCS (B409877-BS1) | | | Prepared & Analyzed: 06/16/14 | | | | | |
| Solids - total suspended solids (TSS) | 99.0 | mg/L | 100.0 | | 99 | 82.9-110 | | |
| Duplicate (B409877-DUP1) | | | Source: 4062267-01 Prepared & Analyzed: 06/16/14 | | | | | |
| Solids - total suspended solids (TSS) | 1640 | mg/L | | 1720 | | | 5 | 5 |
| Duplicate (B409877-DUP2) | | | Source: 4062341-01 Prepared & Analyzed: 06/16/14 | | | | | |
| Solids - total suspended solids (TSS) | 2280 | mg/L | | 2260 | | | 0.9 | 5 |

Batch B409898 - 04-No Prep WC

| | | | | | | | | |
|---|--------|------|--|-------|-----|--------|---|----|
| Calibration Blank (B409898-CCB1) | | | Prepared: 06/16/14 Analyzed: 06/17/14 | | | | | |
| COD | -0.300 | mg/L | | | | | | |
| Calibration Blank (B409898-CCB2) | | | Prepared: 06/16/14 Analyzed: 06/17/14 | | | | | |
| COD | -5.10 | mg/L | | | | | | |
| Calibration Check (B409898-CCV1) | | | Prepared: 06/16/14 Analyzed: 06/17/14 | | | | | |
| COD | 102 | mg/L | 100.0 | | 102 | 95-105 | | |
| Calibration Check (B409898-CCV2) | | | Prepared: 06/16/14 Analyzed: 06/17/14 | | | | | |
| COD | 491 | mg/L | 500.0 | | 98 | 95-105 | | |
| Duplicate (B409898-DUP1) | | | Source: 4062231-01 Prepared: 06/16/14 Analyzed: 06/17/14 | | | | | |
| COD | < 5.0 | mg/L | | ND | | | | 20 |
| Duplicate (B409898-DUP2) | | | Source: 4062342-02 Prepared: 06/16/14 Analyzed: 06/17/14 | | | | | |
| COD | 23600 | mg/L | | 23600 | | | 0 | 20 |

Batch B409946 - 04-No Prep WC

| | | | | | | | | |
|--|-----|------|--|-----|--|--|---|---|
| Duplicate (B409946-DUP1) | | | Source: 4062341-01 Prepared & Analyzed: 06/17/14 | | | | | |
| Solids - total volatile suspended solids | 780 | mg/L | | 780 | | | 0 | 5 |

Nutrients - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---------|--------|-------|-------------|---------------|------|-------------|-----|-----------|
|---------|--------|-------|-------------|---------------|------|-------------|-----|-----------|

Batch B409900 - 04-No Prep WC

| | | | | | | | | |
|---|------|------|-------------------------------|--|--|--|--|--|
| Calibration Blank (B409900-CCB1) | | | Prepared & Analyzed: 06/16/14 | | | | | |
| Ammonia-N | 0.00 | mg/L | | | | | | |
| Calibration Check (B409900-CCV1) | | | Prepared & Analyzed: 06/16/14 | | | | | |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/16/14 14:01
Report Date: 06/17/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Nutrients - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|--------|-------|-------------------------------|---------------|-------------------------------|-------------|-----|-----------|
| Batch B409900 - 04-No Prep WC | | | | | | | | |
| Calibration Check (B409900-CCV1) | | | Prepared & Analyzed: 06/16/14 | | | | | |
| Ammonia-N | 10.1 | mg/L | 10.00 | | 101 | 90-110 | | |
| Matrix Spike (B409900-MS1) | | | Source: 4062017-01 | | Prepared & Analyzed: 06/16/14 | | | |
| Ammonia-N | 21.5 | mg/L | 10.00 | 11.6 | 99 | 80-120 | | |
| Matrix Spike Dup (B409900-MSD1) | | | Source: 4062017-01 | | Prepared & Analyzed: 06/16/14 | | | |
| Ammonia-N | 21.4 | mg/L | 10.00 | 11.6 | 98 | 80-120 | 0.5 | 20 |

Soluble Nutrients - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|--|---------|-------|-------------------------------|---------------|-------------------------------|-------------|-----|-----------|
| Batch B409935 - 04-No Prep WC | | | | | | | | |
| Blank (B409935-BLK1) | | | Prepared & Analyzed: 06/16/14 | | | | | |
| Phosphorus - ortho as P | < 0.050 | mg/L | | | | | | |
| LCS (B409935-BS1) | | | Prepared & Analyzed: 06/16/14 | | | | | |
| Phosphorus - ortho as P | 0.504 | mg/L | 0.5000 | | 101 | 80-120 | | |
| Matrix Spike (B409935-MS1) | | | Source: 4062342-01 | | Prepared & Analyzed: 06/16/14 | | | |
| Phosphorus - ortho as P | 1.98 | mg/L | 0.5000 | 1.49 | 98 | 80-120 | | |
| Matrix Spike Dup (B409935-MSD1) | | | Source: 4062342-01 | | Prepared & Analyzed: 06/16/14 | | | |
| Phosphorus - ortho as P | 1.98 | mg/L | 0.5000 | 1.49 | 98 | 80-120 | 0 | 20 |

Total Metals - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|--|---------|-------|---------------------------------------|---------------|------|-------------|-----|-----------|
| Batch B409883 - 04 EPA 200.2 R2.8 | | | | | | | | |
| Blank (B409883-BLK1) | | | Prepared: 06/16/14 Analyzed: 06/17/14 | | | | | |
| Zinc | < 0.020 | mg/L | | | | | | |
| LCS (B409883-BS1) | | | Prepared: 06/16/14 Analyzed: 06/17/14 | | | | | |
| Zinc | 0.230 | mg/L | 0.2000 | | 115 | 85-115 | | |

Soluble Metals - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|--|--------|-------|-------------|---------------|------|-------------|-----|-----------|
| Batch B409883 - 04 EPA 200.2 R2.8 | | | | | | | | |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/16/14 14:01
Report Date: 06/17/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Soluble Metals - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|--|---------|-------|---------------------------------------|---------------|------|-------------|-----|-----------|
| Blank (B409883-BLK1) | | | Prepared: 06/16/14 Analyzed: 06/17/14 | | | | | |
| Zinc | < 0.020 | mg/L | | | | | | |
| LCS (B409883-BS1) | | | Prepared: 06/16/14 Analyzed: 06/17/14 | | | | | |
| Zinc | 0.230 | mg/L | 0.2000 | | 115 | 85-115 | | |
| Matrix Spike (B409883-MS1) | | | Prepared: 06/16/14 Analyzed: 06/17/14 | | | | | |
| Zinc | 1.42 | mg/L | 1.000 | 0.301 | 112 | 70-130 | | |
| Matrix Spike Dup (B409883-MSD1) | | | Prepared: 06/16/14 Analyzed: 06/17/14 | | | | | |
| Zinc | 1.41 | mg/L | 1.000 | 0.301 | 111 | 70-130 | 0.5 | 20 |

Anions - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---------|-------|-------------------------------|---------------|------|-------------|-----|-----------|
| Batch B409876 - 04-IC No Prep | | | | | | | | |
| Calibration Blank (B409876-CCB1) | | | Prepared & Analyzed: 06/16/14 | | | | | |
| Nitrite-N | 0.00 | mg/L | | | | | | |
| Nitrate-N | 0.380 | mg/L | | | | | | |
| Calibration Check (B409876-CCV1) | | | Prepared & Analyzed: 06/16/14 | | | | | |
| Nitrite-N | 2.18 | mg/L | 2.000 | | 109 | 90-110 | | |
| Nitrate-N | 1.23 | mg/L | 1.130 | | 109 | 90-110 | | |
| Matrix Spike (B409876-MS1) | | | Prepared & Analyzed: 06/16/14 | | | | | |
| Nitrite-N | Q3 51.1 | mg/L | 25.00 | ND | 204 | 80-120 | | |
| Nitrate-N | Q4 130 | mg/L | 11.30 | 130 | 63 | 80-120 | | |
| Matrix Spike Dup (B409876-MSD1) | | | Prepared & Analyzed: 06/16/14 | | | | | |
| Nitrite-N | Q3 51.8 | mg/L | 25.00 | ND | 207 | 80-120 | 1 | 20 |
| Nitrate-N | Q4 130 | mg/L | 11.30 | 130 | 52 | 80-120 | 1 | 20 |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/16/14 14:01
Report Date: 06/17/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Notes

This report shall not be reproduced, except in full, without the written approval of the laboratory.

PDC Laboratories participates in the following accreditation/certification and proficiency programs at the following locations. Endorsement by Federal or State Governments or their agencies is not implied.

- PIA PDC Laboratories - Peoria, IL
NELAC Accreditation for Drinking Water, Wastewater, Hazardous and Solid Wastes Fields of Testing through IL EPA Lab No. 100230
Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 17553
Drinking Water Certifications: Kansas (E-10338); Missouri (870); Wisconsin (998284430); Iowa (240)
Wastewater Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
Hazardous/Solid Waste Certifications; Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
UST Certification; Iowa (240)
- SPM PDC Laboratories - Springfield, MO
EPA DMR-QA Program
- STL PDC Laboratories - St. Louis, MO
NELAC Accreditation for Wastewater, Hazardous and Solid Wastes Fields of Testing
Drinking Water Certifications: Kansas (E-10389)

- Q4 The matrix spike recovery result is unusable since the analyte concentration in the sample is greater than four times the spike level. The associated blank spike was acceptable.
- Q3 MS/MSD both failed %R

Certified by: Roxann Shull, Client Services Supervisor



PDC Laboratories, Inc. – St. Louis
3278 N. Highway 67 (Lindbergh)
Florissant, MO 63033
 www.pdclab.com

CHAIN OF CUSTODY RECORD
 Phone (314) 432-0550 or (314) 921-4488
 Fax (314) 432-4977

State where samples collected MO

(Instructions/Sample Acceptance Policy on Reverse)

ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|------------------------|--|-------------------------------------|---|--|---|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|---|-------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | CLIENT <u>BARR/BRIDGETON LF</u> | PROJECT NUMBER | P.O. NUMBER | MEANS SHIPPED | 3 | ANALYSIS REQUESTED | | | | | | 4 (FOR LAB USE ONLY) LOGIN # <u>4062342</u> LOGGED BY: <u>HE</u> LAB PROJ. # TEMPLATE: PROJ. MGR.: | | | | | | | | | | | | | | | | |
| | ADDRESS | PHONE NUMBER | FAX NUMBER | EMAIL ADDRESS | | COD + AMMONIA TSS/TSS + NITRATE/NITRITE TOTAL ZINC DISS ZINC DISS POT TSS | REMARKS | | | | | | | | | | | | | | | | | | | | | |
| | CITY STATE ZIP | SAMPLER | MATRIX TYPES: WW-WASTEWATER DW-DRINKING WATER GW-GROUND WATER WWSL-SLUDGE NAS-SOLID LCH-LEACHATE NAL-NONAQUEOUS SOIL-SOILS | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CONTACT PERSON | SAMPLER'S SIGNATURE | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | SAMPLE DESCRIPTION AS YOU WANT ON REPORT | DATE COLLECTED | TIME COLLECTED | SAMPLE TYPE GRAB | MATRIX COMP | Bottle TYPE | | Count | | | | | | | | | | | | | | | | | | | | |
| | <u>T3 STARTUP</u> | <u>6/16/14</u> | <u>0820</u> | <input checked="" type="checkbox"/> | | <u>LCHT</u> | <u>5</u> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | | | | | | | | | | | |
| | <u>T2 STARTUP</u> | <u>6/16/14</u> | <u>0831</u> | <input checked="" type="checkbox"/> | | <u>LCHT</u> | <u>2</u> | <input checked="" type="checkbox"/> | | | | | <input checked="" type="checkbox"/> | | | | | | | | | | | | | | | |
| 5 | TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE) NORMAL (8-10 Bus. Days) RUSH (5 Bus. Days) <u>Fastrak™</u> (3 Bus. Days) <u>1-2 Bus. Days</u> Same Day DATE DUE <u>6/17/14</u> | | | | The sample temperature will be measured upon receipt at the lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature. | | | | | | | | | | | | | | | | | | | | | | | |
| RESULTS BY: E-MAIL FAX PHONE CALL PHONE/FAX# IF DIFFERENT FROM ABOVE | | | | 6 | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | RELINQUISHED BY: (SIGNATURE) <u>[Signature]</u> | DATE <u>6-16-14</u> | TIME <u>1:25 PM</u> | RECEIVED BY: <u>[Signature]</u> | DATE <u>6/16/14</u> | TIME <u>13:25</u> | 8 COMMENTS:(FOR LAB USE ONLY) | | | | | | | | | | | | | | | | | | | | | |
| | RELINQUISHED BY: (SIGNATURE) <u>[Signature]</u> | DATE <u>6-16-14</u> | TIME <u>13:50</u> | RECEIVED BY: <u>[Signature]</u> | DATE <u>6/16/14</u> | TIME <u>13:50</u> | SAMPLE TEMPERATURE UPON RECEIPT CHILL PROCESS STARTED PRIOR TO RECEIPT SAMPLE(S) RECEIVED ON ICE PROPER BOTTLES RECEIVED IN GOOD CONDITION BOTTLES FILLED WITH ADEQUATE VOLUME SAMPLES RECEIVED WITHIN HOLD TIME(S) (EXCLUDES TYPICAL FIELD PARAMETERS) DATE AND TIME TAKEN FROM SAMPLE BOTTLE | | | | | | | | | | | | | | | | | | | | | |
| | RELINQUISHED BY: (SIGNATURE) <u>[Signature]</u> | DATE | TIME | RECEIVED BY: | DATE | TIME | <table border="0"> <tr><td>Y</td><td>O</td><td>R</td><td>N</td></tr> <tr><td>Y</td><td>O</td><td>R</td><td>N</td></tr> <tr><td>Y</td><td>O</td><td>R</td><td>N</td></tr> <tr><td>Y</td><td>O</td><td>R</td><td>N</td></tr> </table> | | | | | | Y | O | R | N | Y | O | R | N | Y | O | R | N | Y | O | R | N |
| Y | O | R | N | | | | | | | | | | | | | | | | | | | | | | | | | |
| Y | O | R | N | | | | | | | | | | | | | | | | | | | | | | | | | |
| Y | O | R | N | | | | | | | | | | | | | | | | | | | | | | | | | |
| Y | O | R | N | | | | | | | | | | | | | | | | | | | | | | | | | |
| | RELINQUISHED BY: (SIGNATURE) <u>[Signature]</u> | DATE | TIME | RECEIVED BY: | DATE | TIME | | | | | | | | | | | | | | | | | | | | | | |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/17/14 11:36
Report Date: 06/19/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Sample No: **4062481-01**
Sample Description: **Tank 3 Start-Up**

Collect Date: **06/17/14 09:20**
Matrix: **Waste Water Grab**

| Parameters | Result | Qual | Analysis Date | Analyst | Method |
|--|-----------|------|----------------|---------|---------------------------|
| <u>Anions - STL</u> | | | | | |
| Nitrate-N | 140 mg/L | | 06/18/14 13:52 | BP | EPA 300.0 R2.1 04KS |
| Nitrite-N | < 10 mg/L | | 06/18/14 13:52 | BP | EPA 300.0 R2.1 04KS |
| <u>General Chemistry - STL</u> | | | | | |
| COD | 1600 mg/L | | 06/17/14 12:00 | DWM | SM 5220D 18Ed 04KS |
| Solids - total suspended solids (TSS) | 2600 mg/L | | 06/17/14 12:15 | DAW | SM 2540D 18Ed 04KS |
| Solids - total volatile suspended solids | 900 mg/L | M | 06/17/14 12:15 | DWM | SM 2540E 18Ed* |
| <u>Nutrients - STL</u> | | | | | |
| Ammonia-N | 0.37 mg/L | | 06/18/14 12:00 | ACV | SM(18) 4500 NH3 04KS F |

Sample No: **4062481-02**
Sample Description: **Tank 2 Start-Up**

Collect Date: **06/17/14 09:24**
Matrix: **Waste Water**

| Parameters | Result | Qual | Analysis Date | Analyst | Method |
|---------------------------------------|------------|------|----------------|---------|---------------------------|
| <u>General Chemistry - STL</u> | | | | | |
| COD | 23000 mg/L | | 06/17/14 12:00 | DWM | SM 5220D 18Ed 04KS |
| Solids - total suspended solids (TSS) | 2700 mg/L | | 06/17/14 12:15 | DAW | SM 2540D 18Ed 04KS |
| <u>Nutrients - STL</u> | | | | | |
| Ammonia-N | 320 mg/L | | 06/18/14 12:00 | ACV | SM(18) 4500 NH3 04KS F |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/17/14 11:36
Report Date: 06/19/14
Customer #: 277310
PO#: 4167739

Laboratory Results

General Chemistry - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|--|--------|-------|--|---------------|----------|-------------|-----|-----------|
| Batch B409950 - 04-No Prep WC | | | | | | | | |
| Blank (B409950-BLK1) | | | Prepared & Analyzed: 06/17/14 | | | | | |
| Solids - total suspended solids (TSS) | < 2.0 | mg/L | | | | | | |
| LCS (B409950-BS1) | | | Prepared & Analyzed: 06/17/14 | | | | | |
| Solids - total suspended solids (TSS) | 103 | mg/L | 100.0 | 103 | 82.9-110 | | | |
| Duplicate (B409950-DUP1) | | | Source: 4062397-01 Prepared & Analyzed: 06/17/14 | | | | | |
| Solids - total suspended solids (TSS) | 1600 | mg/L | | 1620 | | | 1 | 5 |
| Duplicate (B409950-DUP2) | | | Source: 4062481-01 Prepared & Analyzed: 06/17/14 | | | | | |
| Solids - total suspended solids (TSS) | 2560 | mg/L | | 2600 | | | 2 | 5 |
| Batch B410035 - 04-No Prep WC | | | | | | | | |
| Blank (B410035-BLK1) | | | Prepared & Analyzed: 06/17/14 | | | | | |
| COD | < 5.0 | mg/L | | | | | | |
| LCS (B410035-BS1) | | | Prepared & Analyzed: 06/17/14 | | | | | |
| COD | 102 | mg/L | 100.0 | 102 | 95-105 | | | |
| LCS (B410035-BS2) | | | Prepared & Analyzed: 06/17/14 | | | | | |
| COD | 484 | mg/L | 500.0 | 97 | 95-105 | | | |
| Duplicate (B410035-DUP1) | | | Source: 4062405-01 Prepared & Analyzed: 06/17/14 | | | | | |
| COD | 11.5 | mg/L | | 11.0 | | | 4 | 20 |
| Duplicate (B410035-DUP2) | | | Source: 4062481-02 Prepared & Analyzed: 06/17/14 | | | | | |
| COD | 23600 | mg/L | | 23400 | | | 0.5 | 20 |
| Batch B410076 - 04-No Prep WC | | | | | | | | |
| Blank (B410076-BLK1) | | | Prepared & Analyzed: 06/17/14 | | | | | |
| Solids - total volatile suspended solids | < 4.0 | mg/L | | | | | | |
| Duplicate (B410076-DUP1) | | | Source: 4062481-01 Prepared & Analyzed: 06/17/14 | | | | | |
| Solids - total volatile suspended solids | M 960 | mg/L | | 900 | | | 6 | 5 |
| Nutrients - Quality Control | | | | | | | | |
| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
| Batch B410060 - 04-No Prep WC | | | | | | | | |
| Calibration Blank (B410060-CCB1) | | | Prepared & Analyzed: 06/18/14 | | | | | |
| Ammonia-N | 0.00 | mg/L | | | | | | |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/17/14 11:36
Report Date: 06/19/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Nutrients - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|--------|-------|-------------------------------|---------------|------|-------------|-----|-----------|
| Batch B410060 - 04-No Prep WC | | | | | | | | |
| Calibration Check (B410060-CCV1) | | | Prepared & Analyzed: 06/18/14 | | | | | |
| Ammonia-N | 10.1 | mg/L | 10.00 | | 101 | 90-110 | | |
| Matrix Spike (B410060-MS1) | | | Prepared & Analyzed: 06/18/14 | | | | | |
| Ammonia-N | 10.0 | mg/L | 10.00 | 0.120 | 99 | 80-120 | | |
| Matrix Spike Dup (B410060-MSD1) | | | Prepared & Analyzed: 06/18/14 | | | | | |
| Ammonia-N | 9.98 | mg/L | 10.00 | 0.120 | 99 | 80-120 | 0.2 | 20 |

Anions - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---------|-------|-------------------------------|---------------|------|-------------|-----|-----------|
| Batch B410036 - 04-IC No Prep | | | | | | | | |
| Calibration Blank (B410036-CCB1) | | | Prepared & Analyzed: 06/18/14 | | | | | |
| Nitrate-N | 0.00 | mg/L | | | | | | |
| Nitrite-N | 0.00 | mg/L | | | | | | |
| Calibration Check (B410036-CCV1) | | | Prepared & Analyzed: 06/18/14 | | | | | |
| Nitrate-N | 1.22 | mg/L | 1.130 | | 108 | 90-110 | | |
| Nitrite-N | 2.15 | mg/L | 2.000 | | 108 | 90-110 | | |
| Matrix Spike (B410036-MS1) | | | Prepared & Analyzed: 06/18/14 | | | | | |
| Nitrate-N | Q3 1.4 | mg/L | 1.130 | 0.52 | 75 | 80-120 | | |
| Nitrite-N | Q3 3.28 | mg/L | 2.500 | ND | 131 | 80-120 | | |
| Matrix Spike Dup (B410036-MSD1) | | | Prepared & Analyzed: 06/18/14 | | | | | |
| Nitrite-N | Q3 3.27 | mg/L | 2.500 | ND | 131 | 80-120 | 0.4 | 20 |
| Nitrate-N | Q3 1.2 | mg/L | 1.130 | 0.52 | 58 | 80-120 | 15 | 20 |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/17/14 11:36
Report Date: 06/19/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Notes

This report shall not be reproduced, except in full, without the written approval of the laboratory.

PDC Laboratories participates in the following accreditation/certification and proficiency programs at the following locations. Endorsement by Federal or State Governments or their agencies is not implied.

- PIA PDC Laboratories - Peoria, IL
NELAC Accreditation for Drinking Water, Wastewater, Hazardous and Solid Wastes Fields of Testing through IL EPA Lab No. 100230
Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 17553
Drinking Water Certifications: Kansas (E-10338); Missouri (870); Wisconsin (998284430); Iowa (240)
Wastewater Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
Hazardous/Solid Waste Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
UST Certification; Iowa (240)
- SPM PDC Laboratories - Springfield, MO
EPA DMR-QA Program
- STL PDC Laboratories - St. Louis, MO
NELAC Accreditation for Wastewater, Hazardous and Solid Wastes Fields of Testing
Drinking Water Certifications: Kansas (E-10389)

- Q3 MS/MSD both failed %R
- M Analyte failed to meet the required acceptance criteria for duplicate analysis.

Certified by: Roxann Shull, Client Services Supervisor



PDC Laboratories, Inc. – St. Louis
3278 N. Highway 67 (Lindbergh)
Florissant, MO 63033

www.pdclab.com

CHAIN OF CUSTODY RECORD

Phone (314) 432-0550 or (314) 921-4488

Fax (314) 432-4977

State where samples collected MO

(Instructions/Sample Acceptance Policy on Reverse)

ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

| 1 CLIENT | PROJECT NUMBER | | P.O. NUMBER | | MEANS SHIPPED | | 3 ANALYSIS REQUESTED | | | | | | | 4 (FOR LAB USE ONLY) | | |
|--|---------------------|----------------|--|--------------------|---------------|-------|--|-------|--|---|--|--|--|---------------------------|---------|----------------------|
| BARR/BRIDGETON LF | | | | | | | | | | | | | | LOGIN # <u>4062481</u> | REMARKS | |
| ADDRESS | PHONE NUMBER | | FAX NUMBER | | EMAIL ADDRESS | | COD + AMMONIA TSS/SS + NITRATE/NITRITE TSS | | | | | | | | | LOGGED BY: <u>HE</u> |
| CITY STATE ZIP | SAMPLER | | MATRIX TYPES: | | EMAIL ADDRESS | | | | | | | | | | | |
| CONTACT PERSON | SAMPLER'S SIGNATURE | | WW-WASTEWATER DW-DRINKING WATER GW-GROUND WATER WWSL-SLUDGE NAS-SOLID LCHT-LEACHATE MAL-NONAQUEOUS SOIL-SOILS | | | | | | | | | | | | | |
| DATE | TIME | SAMPLE TYPE | MATRIX | Bottle | | | | | | | | | | | | |
| 2 SAMPLE DESCRIPTION AS YOU WANT ON REPORT | | DATE COLLECTED | TIME COLLECTED | GRAB | COMP | TYPE | TYPE | Count | | | | | | | | |
| T3 STARTUP | | 6/17/14 | 0920 | ✓ | | LCHT | | 2 | | | | | | | | |
| T2 STARTUP | | 6/17/14 | 0924 | ✓ | | LCHT | | 2 | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| 5 TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE) | | | | | | | | | | 6 The sample temperature will be measured upon receipt at the lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature. | | | | | | |
| NORMAL (8-10 Bus. Days) RUSH (5 Bus. Days) <u>Fasttrak_™</u> (3 Bus. Days) <u>1-2 Bus. Days</u> Same Day | | | | | | | | | | | | | | | | |
| DATE DUE <u>6/18/14</u> | | | | | | | | | | | | | | | | |
| RESULTS BY: E-MAIL FAX PHONE CALL PHONE/FAX# IF DIFFERENT FROM ABOVE | | | | | | | | | | | | | | | | |
| 7 RELINQUISHED BY: (SIGNATURE) | | DATE | TIME | RECEIVED BY: | DATE | TIME | 8 COMMENTS:(FOR LAB USE ONLY) | | | | | | | | | |
| <u>[Signature]</u> | | 6-17-14 | 11:05am | <u>[Signature]</u> | 6-17-14 | 11:05 | SAMPLE TEMPERATURE UPON RECEIPT CHILL PROCESS STARTED PRIOR TO RECEIPT SAMPLE(S) RECEIVED ON ICE PROPER BOTTLES RECEIVED IN GOOD CONDITION BOTTLES FILLED WITH ADEQUATE VOLUME SAMPLES RECEIVED WITHIN HOLD TIME(S) (EXCLUDES TYPICAL FIELD PARAMETERS) DATE AND TIME TAKEN FROM SAMPLE BOTTLE <u>17.6</u> YORN YORN YORN YORN | | | | | | | | | |
| <u>[Signature]</u> | | 6-17-14 | 11:27 | <u>[Signature]</u> | 6/17/14 | 11:27 | | | | | | | | | | |
| <u>[Signature]</u> | | | | | | | | | | | | | | | | |
| <u>[Signature]</u> | | | | | | | | | | | | | | | | |

Thank you for using PDC Laboratories, Inc. Locations in Peoria, IL; St. Louis, MO; and Springfield, MO



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/18/14 11:08
Report Date: 06/19/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Sample No: **4062664-01**
Sample Description: **Tank 3 Start-Up**

Collect Date: **06/18/14 09:36**
Matrix: **Waste Water Grab**

| Parameters | Result | Qual | Analysis Date | Analyst | Method |
|--|------------|------|----------------|---------|---------------------------|
| <u>Anions - STL</u> | | | | | |
| Nitrate-N | 150 mg/L | | 06/18/14 14:09 | BP | EPA 300.0 R2.1 04KS |
| Nitrite-N | < 5.0 mg/L | | 06/18/14 14:26 | BP | EPA 300.0 R2.1 04KS |
| <u>General Chemistry - STL</u> | | | | | |
| COD | 1600 mg/L | | 06/18/14 14:00 | DWM | SM 5220D 18Ed 04KS |
| Solids - total suspended solids (TSS) | 3100 mg/L | | 06/18/14 14:00 | DM | SM 2540D 18Ed 04KS |
| Solids - total volatile suspended solids | 1100 mg/L | | 06/19/14 08:15 | DAW | SM 2540E 18Ed* |
| <u>Nutrients - STL</u> | | | | | |
| Ammonia-N | 0.30 mg/L | | 06/18/14 12:00 | ACV | SM(18) 4500 NH3 04KS F |

Sample No: **4062664-02**
Sample Description: **Tank 2 Start-Up**

Collect Date: **06/18/14 09:40**
Matrix: **Waste Water**

| Parameters | Result | Qual | Analysis Date | Analyst | Method |
|---------------------------------------|------------|------|----------------|---------|---------------------------|
| <u>General Chemistry - STL</u> | | | | | |
| COD | 21000 mg/L | | 06/18/14 14:00 | DWM | SM 5220D 18Ed 04KS |
| Solids - total suspended solids (TSS) | 2100 mg/L | | 06/18/14 14:00 | DM | SM 2540D 18Ed 04KS |
| <u>Nutrients - STL</u> | | | | | |
| Ammonia-N | 330 mg/L | | 06/18/14 12:00 | ACV | SM(18) 4500 NH3 04KS F |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/18/14 11:08
Report Date: 06/19/14
Customer #: 277310
PO#: 4167739

Laboratory Results

General Chemistry - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---------|--------|-------|-------------|---------------|------|-------------|-----|-----------|
|---------|--------|-------|-------------|---------------|------|-------------|-----|-----------|

Batch B410056 - 04-No Prep WC

| | | | | | | | | |
|---------------------------------------|-------|---|-------|------|----|----------|-----|---|
| Blank (B410056-BLK1) | | Prepared & Analyzed: 06/18/14 | | | | | | |
| Solids - total suspended solids (TSS) | < 2.0 | mg/L | | | | | | |
| LCS (B410056-BS1) | | Prepared & Analyzed: 06/18/14 | | | | | | |
| Solids - total suspended solids (TSS) | 98.0 | mg/L | 100.0 | | 98 | 82.9-110 | | |
| Duplicate (B410056-DUP1) | | Source: 4062664-01 Prepared & Analyzed: 06/18/14 | | | | | | |
| Solids - total suspended solids (TSS) | 3120 | mg/L | | 3140 | | | 0.6 | 5 |

Batch B410090 - 04-No Prep WC

| | | | | | | | | |
|---|-------|---|-------|------|----|--------|-----|----|
| Calibration Blank (B410090-CCB1) | | Prepared & Analyzed: 06/18/14 | | | | | | |
| COD | -5.10 | mg/L | | | | | | |
| Calibration Check (B410090-CCV1) | | Prepared & Analyzed: 06/18/14 | | | | | | |
| COD | 484 | mg/L | 500.0 | | 97 | 95-105 | | |
| Duplicate (B410090-DUP1) | | Source: 4062664-01 Prepared & Analyzed: 06/18/14 | | | | | | |
| COD | 1620 | mg/L | | 1620 | | | 0.5 | 20 |

Batch B410097 - 04-No Prep WC

| | | | | | | | | |
|--|------|---|--|------|--|--|---|---|
| Duplicate (B410097-DUP1) | | Source: 4062664-01 Prepared & Analyzed: 06/19/14 | | | | | | |
| Solids - total volatile suspended solids | 1120 | mg/L | | 1120 | | | 0 | 5 |

Nutrients - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---------|--------|-------|-------------|---------------|------|-------------|-----|-----------|
|---------|--------|-------|-------------|---------------|------|-------------|-----|-----------|

Batch B410060 - 04-No Prep WC

| | | | | | | | | |
|---|------|---|-------|-------|-----|--------|-----|----|
| Calibration Blank (B410060-CCB1) | | Prepared & Analyzed: 06/18/14 | | | | | | |
| Ammonia-N | 0.00 | mg/L | | | | | | |
| Calibration Check (B410060-CCV1) | | Prepared & Analyzed: 06/18/14 | | | | | | |
| Ammonia-N | 10.1 | mg/L | 10.00 | | 101 | 90-110 | | |
| Matrix Spike (B410060-MS1) | | Source: 4062555-01 Prepared & Analyzed: 06/18/14 | | | | | | |
| Ammonia-N | 10.0 | mg/L | 10.00 | 0.120 | 99 | 80-120 | | |
| Matrix Spike Dup (B410060-MSD1) | | Source: 4062555-01 Prepared & Analyzed: 06/18/14 | | | | | | |
| Ammonia-N | 9.98 | mg/L | 10.00 | 0.120 | 99 | 80-120 | 0.2 | 20 |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/18/14 11:08
Report Date: 06/19/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Anions - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---------|-------|-------------------------------|---------------|-------------------------------|-------------|-----|-----------|
| Batch B410036 - 04-IC No Prep | | | | | | | | |
| Calibration Blank (B410036-CCB1) | | | Prepared & Analyzed: 06/18/14 | | | | | |
| Nitrite-N | 0.00 | mg/L | | | | | | |
| Nitrate-N | 0.00 | mg/L | | | | | | |
| Calibration Check (B410036-CCV1) | | | Prepared & Analyzed: 06/18/14 | | | | | |
| Nitrite-N | 2.15 | mg/L | 2.000 | | 108 | 90-110 | | |
| Nitrate-N | 1.22 | mg/L | 1.130 | | 108 | 90-110 | | |
| Matrix Spike (B410036-MS1) | | | Source: 4061209-01 | | Prepared & Analyzed: 06/18/14 | | | |
| Nitrate-N | Q3 1.4 | mg/L | 1.130 | 0.52 | 75 | 80-120 | | |
| Nitrite-N | Q3 3.28 | mg/L | 2.500 | ND | 131 | 80-120 | | |
| Matrix Spike Dup (B410036-MSD1) | | | Source: 4061209-01 | | Prepared & Analyzed: 06/18/14 | | | |
| Nitrite-N | Q3 3.27 | mg/L | 2.500 | ND | 131 | 80-120 | 0.4 | 20 |
| Nitrate-N | Q3 1.2 | mg/L | 1.130 | 0.52 | 58 | 80-120 | 15 | 20 |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/18/14 11:08
Report Date: 06/19/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Notes

This report shall not be reproduced, except in full, without the written approval of the laboratory.

PDC Laboratories participates in the following accreditation/certification and proficiency programs at the following locations. Endorsement by Federal or State Governments or their agencies is not implied.

- PIA PDC Laboratories - Peoria, IL
NELAC Accreditation for Drinking Water, Wastewater, Hazardous and Solid Wastes Fields of Testing through IL EPA Lab No. 100230
Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 17553
Drinking Water Certifications: Kansas (E-10338); Missouri (870); Wisconsin (998284430); Iowa (240)
Wastewater Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
Hazardous/Solid Waste Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
UST Certification; Iowa (240)
- SPM PDC Laboratories - Springfield, MO
EPA DMR-QA Program
- STL PDC Laboratories - St. Louis, MO
TNI Accreditation for Wastewater, Hazardous and Solid Wastes Fields of Testing through KS Lab No. E-10389
Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 171050
Drinking Water Certifications: Missouri (1050)
Missouri Department of Natural Resources

Q3 MS/MSD both failed %R

Certified by: Roxann Shull, Client Services Supervisor



PDC Laboratories, Inc. – St. Louis
3278 N. Highway 67 (Lindbergh)
Florissant, MO 63033
 www.pdclab.com

CHAIN OF CUSTODY RECORD
 Phone (314) 432-0550 or (314) 921-4488
 Fax (314) 432-4977

State where samples collected MO
 (Instructions/Sample Acceptance Policy on Reverse)

ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

| | | | | | | | |
|---|---------------------|---------------------|---|---------------------|--|--|--|
| 1 CLIENT BARR/BRIDGETON LF | PROJECT NUMBER | P. O. NUMBER | MEANS SHIPPED | | 3 ANALYSIS REQUESTED COD + ACIDITY TSS/SSS + NITRATE/NITRITE TSS | 4 (FOR LAB USE ONLY) LOGIN # 4062664 LOGGED BY: HC LAB PROJ. # TEMPLATE: PROJ. MGR.: | |
| | PHONE NUMBER | FAX NUMBER | EMAIL ADDRESS | | | | |
| | CITY, STATE, ZIP | SAMPLER | MATRIX TYPES: WW-WASTEWATER DW-DRINKING WATER GW-GROUND WATER WWSL-SLUDGE NAS-SOLID LCHT-LEACHATE NAL-NONAQUEOUS SOIL-SOILS | | | | |
| | CONTACT PERSON | SAMPLER'S SIGNATURE | | | | | |
| 2 SAMPLE DESCRIPTION AS YOU WANT ON REPORT | DATE COLLECTED | TIME COLLECTED | SAMPLE TYPE | MATRIX TYPE | Bottle Count | REMARKS | |
| | 6/18/14 | 0936 | <input checked="" type="checkbox"/> | LCHT | 2 | | |
| | 6/18/14 | 0940 | <input checked="" type="checkbox"/> | LCHT | 2 | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| 5 TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE) NORMAL (8-10 Bus. Days) RUSH (5 Bus. Days) <i>Fastrak™</i> (3 Bus. Days) 1-2 Bus. Days Same Day DATE DUE 6/19/14 | | | 6 The sample temperature will be measured upon receipt at the lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature. | | | | |
| RESULTS BY: E-MAIL FAX PHONE CALL PHONE/FAX# IF DIFFERENT FROM ABOVE | | | 7 | | | | |
| 7 RELINQUISHED BY: (SIGNATURE) FEL | DATE 6-18-14 | TIME 10:15m | RECEIVED BY: [Signature] | DATE 6-18-14 | TIME 10:15 | 8 COMMENTS: (FOR LAB USE ONLY) SAMPLE TEMPERATURE UPON RECEIPT CHILL PROCESS STARTED PRIOR TO RECEIPT SAMPLE(S) RECEIVED ON ICE PROPER BOTTLES RECEIVED IN GOOD CONDITION BOTTLES FILLED WITH ADEQUATE VOLUME SAMPLES RECEIVED WITHIN HOLD TIME(S) (EXCLUDES TYPICAL FIELD PARAMETERS) DATE AND TIME TAKEN FROM SAMPLE BOTTLE 22.1°C YDRN YDRN YDRN YDRN | |
| RELINQUISHED BY: (SIGNATURE) | DATE | TIME | RECEIVED BY: | DATE | TIME | | |
| RELINQUISHED BY: (SIGNATURE) | DATE | TIME | RECEIVED BY: | DATE | TIME | | |
| RELINQUISHED BY: (SIGNATURE) | DATE | TIME | RECEIVED BY: | DATE | TIME | | |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/19/14 11:46
Report Date: 06/20/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Sample No: **4062894-01**
Sample Description: **Tank 3 Start-Up**

Collect Date: **06/19/14 09:15**
Matrix: **Waste Water Grab**

| Parameters | Result | Qual | Analysis Date | Analyst | Method |
|--|-----------|------|----------------|---------|------------------------|
| <u>Anions - STL</u> | | | | | |
| Nitrate-N | 160 mg/L | | 06/19/14 17:35 | DWM | EPA 300.0 R2.1 04KS |
| Nitrite-N | < 50 mg/L | | 06/19/14 17:35 | DWM | EPA 300.0 R2.1 04KS |
| <u>General Chemistry - STL</u> | | | | | |
| COD | 2200 mg/L | | 06/20/14 13:44 | DAW | SM 5220D 18Ed 04KS |
| Solids - total suspended solids (TSS) | 2900 mg/L | | 06/19/14 16:30 | DAW | SM 2540D 18Ed 04KS |
| Solids - total volatile suspended solids | 1100 mg/L | | 06/20/14 13:30 | DAW | SM 2540E 18Ed* |
| <u>Nutrients - STL</u> | | | | | |
| Ammonia-N | 1.5 mg/L | | 06/20/14 10:30 | ACV | SM(18) 4500 NH3 F 04KS |
| <u>Soluble Metals - STL</u> | | | | | |
| Zinc | 0.19 mg/L | | 06/20/14 12:06 | WPS | EPA 200.7 R4.4 04KS |
| <u>Soluble Nutrients - STL</u> | | | | | |
| Phosphorus - ortho as P | 2.2 mg/L | | 06/19/14 14:00 | ACV | SM 4500P B E 18ed* |
| <u>Total Metals - STL</u> | | | | | |
| Zinc | 1.3 mg/L | | 06/20/14 12:00 | WPS | EPA 200.7 R4.4 04KS |

Sample No: **4062894-02**
Sample Description: **Tank 2 Start-Up**

Collect Date: **06/19/14 09:20**
Matrix: **Waste Water**

| Parameters | Result | Qual | Analysis Date | Analyst | Method |
|---------------------------------------|------------|------|----------------|---------|------------------------|
| <u>General Chemistry - STL</u> | | | | | |
| COD | 25000 mg/L | | 06/20/14 13:44 | DAW | SM 5220D 18Ed 04KS |
| Solids - total suspended solids (TSS) | 2100 mg/L | | 06/19/14 16:30 | DAW | SM 2540D 18Ed 04KS |
| <u>Nutrients - STL</u> | | | | | |
| Ammonia-N | 280 mg/L | | 06/20/14 10:30 | ACV | SM(18) 4500 NH3 F 04KS |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/19/14 11:46
Report Date: 06/20/14
Customer #: 277310
PO#: 4167739

Laboratory Results

General Chemistry - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|--|--------|-------|--|---------------|----------|-------------|-----|-----------|
| Batch B410150 - 04-No Prep WC | | | | | | | | |
| Blank (B410150-BLK1) | | | Prepared & Analyzed: 06/19/14 | | | | | |
| Solids - total suspended solids (TSS) | < 2.0 | mg/L | | | | | | |
| LCS (B410150-BS1) | | | Prepared & Analyzed: 06/19/14 | | | | | |
| Solids - total suspended solids (TSS) | 103 | mg/L | 100.0 | 103 | 82.9-110 | | | |
| Duplicate (B410150-DUP1) | | | Source: 4062880-01 Prepared & Analyzed: 06/19/14 | | | | | |
| Solids - total suspended solids (TSS) | 2.00 | mg/L | | 2.40 | | | 18 | 5 |
| Duplicate (B410150-DUP2) | | | Source: 4062894-01 Prepared & Analyzed: 06/19/14 | | | | | |
| Solids - total suspended solids (TSS) | 2900 | mg/L | | 2920 | | | 0.7 | 5 |
| Batch B410217 - 04-No Prep WC | | | | | | | | |
| Calibration Blank (B410217-CCB1) | | | Prepared & Analyzed: 06/20/14 | | | | | |
| COD | -0.266 | mg/L | | | | | | |
| Calibration Blank (B410217-CCB2) | | | Prepared & Analyzed: 06/20/14 | | | | | |
| COD | -5.07 | mg/L | | | | | | |
| Calibration Check (B410217-CCV1) | | | Prepared & Analyzed: 06/20/14 | | | | | |
| COD | 99.2 | mg/L | 100.0 | 99 | 95-105 | | | |
| Calibration Check (B410217-CCV2) | | | Prepared & Analyzed: 06/20/14 | | | | | |
| COD | 500 | mg/L | 500.0 | 100 | 95-105 | | | |
| Duplicate (B410217-DUP1) | | | Source: 4062907-01 Prepared & Analyzed: 06/20/14 | | | | | |
| COD | 13.8 | mg/L | | 14.1 | | | 2 | 20 |
| Duplicate (B410217-DUP2) | | | Source: 4062894-02 Prepared & Analyzed: 06/20/14 | | | | | |
| COD | 24900 | mg/L | | 24700 | | | 0.9 | 20 |
| Batch B410228 - 04-No Prep WC | | | | | | | | |
| Duplicate (B410228-DUP1) | | | Source: 4062894-01 Prepared & Analyzed: 06/20/14 | | | | | |
| Solids - total volatile suspended solids | 1060 | mg/L | | 1080 | | | 2 | 5 |
| Duplicate (B410228-DUP2) | | | Source: 4063106-01 Prepared & Analyzed: 06/20/14 | | | | | |
| Solids - total volatile suspended solids | 1120 | mg/L | | 1120 | | | 0 | 5 |
| Nutrients - Quality Control | | | | | | | | |
| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
| Batch B410234 - 04-No Prep WC | | | | | | | | |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/19/14 11:46
Report Date: 06/20/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Nutrients - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|--------|-------|-------------|---------------|------|-------------|-----|-----------|
| Batch B410234 - 04-No Prep WC | | | | | | | | |
| Calibration Blank (B410234-CCB1) Prepared & Analyzed: 06/20/14 | | | | | | | | |
| Ammonia-N | 0.00 | mg/L | | | | | | |
| Calibration Blank (B410234-CCB2) Prepared & Analyzed: 06/20/14 | | | | | | | | |
| Ammonia-N | 0.00 | mg/L | | | | | | |
| Calibration Check (B410234-CCV1) Prepared & Analyzed: 06/20/14 | | | | | | | | |
| Ammonia-N | 10.2 | mg/L | 10.00 | | 102 | 90-110 | | |
| Calibration Check (B410234-CCV2) Prepared & Analyzed: 06/20/14 | | | | | | | | |
| Ammonia-N | 9.96 | mg/L | 10.00 | | 100 | 90-110 | | |
| Matrix Spike (B410234-MS1) Source: 4062915-01 Prepared & Analyzed: 06/20/14 | | | | | | | | |
| Ammonia-N | 26.8 | mg/L | 10.00 | 17.0 | 98 | 80-120 | | |
| Matrix Spike Dup (B410234-MSD1) Source: 4062915-01 Prepared & Analyzed: 06/20/14 | | | | | | | | |
| Ammonia-N | 26.9 | mg/L | 10.00 | 17.0 | 99 | 80-120 | 0.4 | 20 |

Soluble Nutrients - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|--------|-------|-------------|---------------|------|-------------|-----|-----------|
| Batch B410199 - 04-No Prep WC | | | | | | | | |
| Calibration Blank (B410199-CCB1) Prepared & Analyzed: 06/19/14 | | | | | | | | |
| Phosphorus - ortho as P | 0.00 | mg/L | | | | | | |
| Calibration Check (B410199-CCV1) Prepared & Analyzed: 06/19/14 | | | | | | | | |
| Phosphorus - ortho as P | 0.497 | mg/L | 0.5000 | | 99 | 90-110 | | |
| Matrix Spike (B410199-MS1) Source: 4062894-01 Prepared & Analyzed: 06/19/14 | | | | | | | | |
| Phosphorus - ortho as P | 2.61 | mg/L | 0.5000 | 2.17 | 88 | 80-120 | | |
| Matrix Spike Dup (B410199-MSD1) Source: 4062894-01 Prepared & Analyzed: 06/19/14 | | | | | | | | |
| Phosphorus - ortho as P | 2.71 | mg/L | 0.5000 | 2.17 | 108 | 80-120 | 4 | 20 |

Total Metals - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---------|-------|-------------|---------------|------|-------------|-----|-----------|
| Batch B410151 - 04 EPA 200.2 R2.8 | | | | | | | | |
| Blank (B410151-BLK1) Prepared: 06/19/14 Analyzed: 06/20/14 | | | | | | | | |
| Zinc | < 0.020 | mg/L | | | | | | |
| LCS (B410151-BS1) Prepared: 06/19/14 Analyzed: 06/20/14 | | | | | | | | |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/19/14 11:46
Report Date: 06/20/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Total Metals - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|--|--------|-------|---------------------------------------|---------------|------|-------------|-----|-----------|
| Batch B410151 - 04 EPA 200.2 R2.8 | | | | | | | | |
| LCS (B410151-BS1) | | | Prepared: 06/19/14 Analyzed: 06/20/14 | | | | | |
| Zinc | 0.226 | mg/L | 0.2000 | | 113 | 85-115 | | |
| Matrix Spike (B410151-MS1) | | | Prepared: 06/19/14 Analyzed: 06/20/14 | | | | | |
| Zinc | 2.45 | mg/L | 1.000 | 1.35 | 111 | 70-130 | | |
| Matrix Spike Dup (B410151-MSD1) | | | Prepared: 06/19/14 Analyzed: 06/20/14 | | | | | |
| Zinc | 2.42 | mg/L | 1.000 | 1.35 | 108 | 70-130 | 1 | 20 |

Soluble Metals - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|--|---------|-------|---------------------------------------|---------------|------|-------------|-----|-----------|
| Batch B410151 - 04 EPA 200.2 R2.8 | | | | | | | | |
| Blank (B410151-BLK1) | | | Prepared: 06/19/14 Analyzed: 06/20/14 | | | | | |
| Zinc | < 0.020 | mg/L | | | | | | |
| LCS (B410151-BS1) | | | Prepared: 06/19/14 Analyzed: 06/20/14 | | | | | |
| Zinc | 0.226 | mg/L | 0.2000 | | 113 | 85-115 | | |

Anions - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|--------|-------|-------------------------------|---------------|------|-------------|------|-----------|
| Batch B410186 - 04-IC No Prep | | | | | | | | |
| Calibration Blank (B410186-CCB1) | | | Prepared & Analyzed: 06/19/14 | | | | | |
| Nitrite-N | 0.00 | mg/L | | | | | | |
| Nitrate-N | 0.00 | mg/L | | | | | | |
| Calibration Check (B410186-CCV1) | | | Prepared & Analyzed: 06/19/14 | | | | | |
| Nitrite-N | 2.19 | mg/L | 2.000 | | 110 | 90-110 | | |
| Nitrate-N | 1.24 | mg/L | 1.130 | | 110 | 90-110 | | |
| Matrix Spike (B410186-MS1) | | | Prepared & Analyzed: 06/19/14 | | | | | |
| Nitrate-N | Q1 5.7 | mg/L | 1.130 | 5.0 | 64 | 80-120 | | |
| Nitrite-N | 2.68 | mg/L | 2.500 | 0.204 | 99 | 80-120 | | |
| Matrix Spike Dup (B410186-MSD1) | | | Prepared & Analyzed: 06/19/14 | | | | | |
| Nitrate-N | Q2 5.9 | mg/L | 1.130 | 5.0 | 79 | 80-120 | 3 | 20 |
| Nitrite-N | 2.68 | mg/L | 2.500 | 0.204 | 99 | 80-120 | 0.07 | 20 |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/19/14 11:46
Report Date: 06/20/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Notes

This report shall not be reproduced, except in full, without the written approval of the laboratory.

PDC Laboratories participates in the following accreditation/certification and proficiency programs at the following locations. Endorsement by Federal or State Governments or their agencies is not implied.

- PIA PDC Laboratories - Peoria, IL
NELAC Accreditation for Drinking Water, Wastewater, Hazardous and Solid Wastes Fields of Testing through IL EPA Lab No. 100230
Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 17553
Drinking Water Certifications: Kansas (E-10338); Missouri (870); Wisconsin (998284430); Iowa (240)
Wastewater Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
Hazardous/Solid Waste Certifications; Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
UST Certification; Iowa (240)
- SPM PDC Laboratories - Springfield, MO
EPA DMR-QA Program
- STL PDC Laboratories - St. Louis, MO
TNI Accreditation for Wastewater, Hazardous and Solid Wastes Fields of Testing through KS Lab No. E-10389
Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 171050
Drinking Water Certifications: Missouri (1050)
Missouri Department of Natural Resources

- Q2 MSD failed %R
- Q1 MS Failed %R

Certified by: Roxann Shull, Client Services Supervisor



PDC Laboratories, Inc. – St. Louis
3278 N. Highway 67 (Lindbergh)
Florissant, MO 63033
 www.pdclab.com

CHAIN OF CUSTODY RECORD
 Phone (314) 432-0550 or (314) 921-4488
 Fax (314) 432-4977

State where samples collected MO

(Instructions/Sample Acceptance Policy on Reverse)

ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

| | | | | | | |
|---|--|---|---|--|---|--|
| 1 CLIENT <u>HSI/Bridgeton LP</u> ADDRESS CITY <u>Bridgeton, MO</u> STATE ZIP CONTACT PERSON <u>Arnon Weber</u> | | PROJECT NUMBER <u>Leachate</u> P. O. NUMBER MEANS SHIPPED PHONE NUMBER FAX NUMBER EMAIL ADDRESS | 3 ANALYSIS REQUESTED COD + Ammonia Nitrate/Nitrite Total Zinc Diss Zinc (Field Filter) Diss PO4 (Field Filter) TSS | | 4 (FOR LAB USE ONLY) LOGIN # <u>4062894</u> LOGGED BY: <u>He</u> LAB PROJ. # TEMPLATE: PROJ. MGR.: REMARKS | |
| 2 SAMPLE DESCRIPTION AS YOU WANT ON REPORT | | DATE COLLECTED TIME COLLECTED SAMPLE TYPE MATRIX TYPE Bottle Count | MATRIX TYPES: WW-WASTEWATER DW-DRINKING WATER GW-GROUND WATER WWSL-SLUDGE NAS-SOLID LCHL-LEACHATE NAL-NONAQUEOUS SOIL-SOILS | | REMARKS | |
| <u>T3 Startup</u> <u>T2 Startup</u> | | <u>6-19-14</u> <u>9:15</u> <u>X</u> <u>L'cht</u> <u>5</u> | <u>X</u> <u>X</u> <u>X</u> <u>X</u> <u>X</u> | | | |
| | | <u>6-19-14</u> <u>9:20</u> <u>X</u> <u>L'cht</u> <u>2</u> | <u>X</u> | | <u>Diss. PO4</u> <u>was Lab Filtered,</u> <u>Received wrong</u> <u>bottle.</u> | |
| 5 TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE) NORMAL (8-10 Bus. Days) RUSH (5 Bus. Days) Fastrak™ (3 Bus. Days) <u>1-2 Bus. Days</u> Same Day DATE DUE <u>6-20-14</u> | | The sample temperature will be measured upon receipt at the lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature. | | | | |
| RESULTS BY: E-MAIL FAX PHONE CALL PHONE/FAX# IF DIFFERENT FROM ABOVE | | 6 | | | | |
| 7 RELINQUISHED BY: (SIGNATURE) <u>Sarah M. Sehe</u> RELINQUISHED BY: (SIGNATURE) <u>Arnon Weber</u> RELINQUISHED BY: (SIGNATURE) RELINQUISHED BY: (SIGNATURE) | | DATE <u>6/19/14</u> DATE <u>6/19/14</u> DATE DATE DATE | TIME <u>10:52</u> TIME <u>11:30</u> TIME TIME TIME | RECEIVED BY: <u>[Signature]</u> <u>[Signature]</u> RECEIVED BY: RECEIVED BY: | DATE <u>6/19/14</u> DATE <u>6/19/14</u> DATE DATE DATE | 8 COMMENTS: (FOR LAB USE ONLY) SAMPLE TEMPERATURE UPON RECEIPT CHILL PROCESS STARTED PRIOR TO RECEIPT SAMPLE(S) RECEIVED ON ICE PROPER BOTTLES RECEIVED IN GOOD CONDITION BOTTLES FILLED WITH ADEQUATE VOLUME SAMPLES RECEIVED WITHIN HOLD TIME(S) (EXCLUDES TYPICAL FIELD PARAMETERS) DATE AND TIME TAKEN FROM SAMPLE BOTTLE <u>6.8°C</u> Y OR N Y OR N Y OR N Y OR N |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/20/14 11:13
Report Date: 06/23/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Sample No: **4063106-01**
Sample Description: **Tank 3 Start-Up**

Collect Date: **06/20/14 09:15**
Matrix: **Waste Water Grab**

| Parameters | Result | Qual | Analysis Date | Analyst | Method |
|--|-----------|------|----------------|---------|---------------------------|
| <u>Anions - STL</u> | | | | | |
| Nitrate-N | 170 mg/L | | 06/21/14 13:19 | DWM | EPA 300.0 R2.1 04KS |
| Nitrite-N | < 25 mg/L | | 06/21/14 13:19 | DWM | EPA 300.0 R2.1 04KS |
| <u>General Chemistry - STL</u> | | | | | |
| COD | 2100 mg/L | | 06/20/14 13:44 | DAW | SM 5220D 18Ed 04KS |
| Solids - total suspended solids (TSS) | 2900 mg/L | | 06/20/14 11:50 | DAW | SM 2540D 18Ed 04KS |
| Solids - total volatile suspended solids | 1100 mg/L | | 06/20/14 13:30 | DAW | SM 2540E 18Ed* |
| <u>Nutrients - STL</u> | | | | | |
| Ammonia-N | 0.34 mg/L | | 06/20/14 14:36 | ACV | SM(18) 4500 NH3 04KS F |

Sample No: **4063106-02**
Sample Description: **Tank 2 Start-Up**

Collect Date: **06/20/14 09:20**
Matrix: **Waste Water**

| Parameters | Result | Qual | Analysis Date | Analyst | Method |
|---------------------------------------|------------|------|----------------|---------|---------------------------|
| <u>General Chemistry - STL</u> | | | | | |
| COD | 32000 mg/L | | 06/20/14 13:44 | DAW | SM 5220D 18Ed 04KS |
| Solids - total suspended solids (TSS) | 10000 mg/L | | 06/20/14 11:50 | DAW | SM 2540D 18Ed 04KS |
| <u>Nutrients - STL</u> | | | | | |
| Ammonia-N | 300 mg/L | | 06/20/14 14:36 | ACV | SM(18) 4500 NH3 04KS F |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/20/14 11:13
Report Date: 06/23/14
Customer #: 277310
PO#: 4167739

Laboratory Results

General Chemistry - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|--|--------|-------|--|---------------|------|-------------|-----|-----------|
| Batch B410208 - 04-No Prep WC | | | | | | | | |
| Blank (B410208-BLK1) | | | Prepared & Analyzed: 06/20/14 | | | | | |
| Solids - total suspended solids (TSS) | < 2.0 | mg/L | | | | | | |
| LCS (B410208-BS1) | | | Prepared & Analyzed: 06/20/14 | | | | | |
| Solids - total suspended solids (TSS) | 99.0 | mg/L | 100.0 | | 99 | 82.9-110 | | |
| Duplicate (B410208-DUP1) | | | Source: 4062976-01 Prepared & Analyzed: 06/20/14 | | | | | |
| Solids - total suspended solids (TSS) | 3540 | mg/L | | 3500 | | | 1 | 5 |
| Duplicate (B410208-DUP2) | | | Source: 4063106-01 Prepared & Analyzed: 06/20/14 | | | | | |
| Solids - total suspended solids (TSS) | 2860 | mg/L | | 2900 | | | 1 | 5 |
| Batch B410217 - 04-No Prep WC | | | | | | | | |
| Calibration Blank (B410217-CCB1) | | | Prepared & Analyzed: 06/20/14 | | | | | |
| COD | -0.266 | mg/L | | | | | | |
| Calibration Blank (B410217-CCB2) | | | Prepared & Analyzed: 06/20/14 | | | | | |
| COD | -5.07 | mg/L | | | | | | |
| Calibration Check (B410217-CCV1) | | | Prepared & Analyzed: 06/20/14 | | | | | |
| COD | 99.2 | mg/L | 100.0 | | 99 | 95-105 | | |
| Calibration Check (B410217-CCV2) | | | Prepared & Analyzed: 06/20/14 | | | | | |
| COD | 500 | mg/L | 500.0 | | 100 | 95-105 | | |
| Duplicate (B410217-DUP1) | | | Source: 4062907-01 Prepared & Analyzed: 06/20/14 | | | | | |
| COD | 13.8 | mg/L | | 14.1 | | | 2 | 20 |
| Duplicate (B410217-DUP2) | | | Source: 4062894-02 Prepared & Analyzed: 06/20/14 | | | | | |
| COD | 24900 | mg/L | | 24700 | | | 0.9 | 20 |
| Batch B410228 - 04-No Prep WC | | | | | | | | |
| Duplicate (B410228-DUP1) | | | Source: 4062894-01 Prepared & Analyzed: 06/20/14 | | | | | |
| Solids - total volatile suspended solids | 1060 | mg/L | | 1080 | | | 2 | 5 |
| Duplicate (B410228-DUP2) | | | Source: 4063106-01 Prepared & Analyzed: 06/20/14 | | | | | |
| Solids - total volatile suspended solids | 1120 | mg/L | | 1120 | | | 0 | 5 |
| Nutrients - Quality Control | | | | | | | | |
| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
| Batch B410234 - 04-No Prep WC | | | | | | | | |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/20/14 11:13
Report Date: 06/23/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Nutrients - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|--------|-------|-------------|---------------|------|-------------|-----|-----------|
| Batch B410234 - 04-No Prep WC | | | | | | | | |
| Calibration Blank (B410234-CCB1) Prepared & Analyzed: 06/20/14 | | | | | | | | |
| Ammonia-N | 0.00 | mg/L | | | | | | |
| Calibration Blank (B410234-CCB2) Prepared & Analyzed: 06/20/14 | | | | | | | | |
| Ammonia-N | 0.00 | mg/L | | | | | | |
| Calibration Check (B410234-CCV1) Prepared & Analyzed: 06/20/14 | | | | | | | | |
| Ammonia-N | 10.2 | mg/L | 10.00 | | 102 | 90-110 | | |
| Calibration Check (B410234-CCV2) Prepared & Analyzed: 06/20/14 | | | | | | | | |
| Ammonia-N | 9.96 | mg/L | 10.00 | | 100 | 90-110 | | |
| Matrix Spike (B410234-MS1) Source: 4062915-01 Prepared & Analyzed: 06/20/14 | | | | | | | | |
| Ammonia-N | 26.8 | mg/L | 10.00 | 17.0 | 98 | 80-120 | | |
| Matrix Spike (B410234-MS2) Source: 4063047-01 Prepared & Analyzed: 06/20/14 | | | | | | | | |
| Ammonia-N | 9.80 | mg/L | 10.00 | ND | 98 | 80-120 | | |
| Matrix Spike Dup (B410234-MSD1) Source: 4062915-01 Prepared & Analyzed: 06/20/14 | | | | | | | | |
| Ammonia-N | 26.9 | mg/L | 10.00 | 17.0 | 99 | 80-120 | 0.4 | 20 |
| Matrix Spike Dup (B410234-MSD2) Source: 4063047-01 Prepared & Analyzed: 06/20/14 | | | | | | | | |
| Ammonia-N | 9.86 | mg/L | 10.00 | ND | 99 | 80-120 | 0.6 | 20 |

Anions - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|--------|-------|-------------|---------------|------|-------------|-----|-----------|
| Batch B410268 - 04-IC No Prep | | | | | | | | |
| Calibration Blank (B410268-CCB1) Prepared & Analyzed: 06/21/14 | | | | | | | | |
| Nitrate-N | 0.00 | mg/L | | | | | | |
| Nitrite-N | 0.00 | mg/L | | | | | | |
| Calibration Check (B410268-CCV1) Prepared & Analyzed: 06/21/14 | | | | | | | | |
| Nitrate-N | 1.22 | mg/L | 1.130 | | 108 | 90-110 | | |
| Nitrite-N | 2.14 | mg/L | 2.000 | | 107 | 90-110 | | |
| Matrix Spike (B410268-MS1) Source: 4063187-01 Prepared & Analyzed: 06/21/14 | | | | | | | | |
| Nitrate-N | 260 | mg/L | 56.48 | 200 | 98 | 80-120 | | |
| Nitrite-N | 100 | mg/L | 125.0 | ND | 80 | 80-120 | | |
| Matrix Spike Dup (B410268-MSD1) Source: 4063187-01 Prepared & Analyzed: 06/21/14 | | | | | | | | |
| Nitrite-N | 102 | mg/L | 125.0 | ND | 82 | 80-120 | 2 | 20 |
| Nitrate-N | Q2 270 | mg/L | 56.48 | 200 | 130 | 80-120 | 7 | 20 |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/20/14 11:13
Report Date: 06/23/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Notes

This report shall not be reproduced, except in full, without the written approval of the laboratory.

PDC Laboratories participates in the following accreditation/certification and proficiency programs at the following locations. Endorsement by Federal or State Governments or their agencies is not implied.

- PIA PDC Laboratories - Peoria, IL
NELAC Accreditation for Drinking Water, Wastewater, Hazardous and Solid Wastes Fields of Testing through IL EPA Lab No. 100230
Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 17553
Drinking Water Certifications: Kansas (E-10338); Missouri (870); Wisconsin (998284430); Iowa (240)
Wastewater Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
Hazardous/Solid Waste Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
UST Certification; Iowa (240)
- SPM PDC Laboratories - Springfield, MO
EPA DMR-QA Program
- STL PDC Laboratories - St. Louis, MO
TNI Accreditation for Wastewater, Hazardous and Solid Wastes Fields of Testing through KS Lab No. E-10389
Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 171050
Drinking Water Certifications: Missouri (1050)
Missouri Department of Natural Resources

Q2 MSD failed %R

Certified by: Roxann Shull, Client Services Supervisor



PDC Laboratories, Inc. – St. Louis
3278 N. Highway 67 (Lindbergh)
Florissant, MO 63033
 www.pdclab.com

CHAIN OF CUSTODY RECORD
 Phone (314) 432-0550 or (314) 921-4488
 Fax (314) 432-4977

State where samples collected MO

(Instructions/Sample Acceptance Policy on Reverse)

ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

| | | | | | | | | | | | | | |
|--|--|---|---------------------------------------|--|--|---|--|--|--|--|--|--|--|
| 1 CLIENT <u>RSI/Bridgeton LF</u> ADDRESS CITY: <u>Bridgeton MO</u> STATE: <u>MO</u> ZIP: CONTACT PERSON: <u>Arnon Weber</u> | | PROJECT NUMBER: <u>Leachate</u> PHONE NUMBER: <u>217 823 0100</u> P. O. NUMBER: FAX NUMBER: EMAIL ADDRESS: | MEANS SHIPPED: ANALYSIS REQUESTED: | 3 ANALYSIS REQUESTED <u>CEO + Ammonia</u> <u>Nitrate</u> <u>TSS/BS + Nitrite</u> <u>TSS</u> | 4 (FOR LAB USE ONLY) LOGIN #: <u>4063106</u> LOGGED BY: <u>HG</u> LAB PROJ. #: TEMPLATE: PROJ. MGR.: REMARKS: | | | | | | | | |
| 2 SAMPLE DESCRIPTION AS YOU WANT ON REPORT DATE COLLECTED TIME COLLECTED SAMPLE TYPE MATRIX TYPE Bottle Count | | DATE COLLECTED TIME COLLECTED SAMPLE TYPE MATRIX TYPE Bottle Count | | DATE COLLECTED TIME COLLECTED SAMPLE TYPE MATRIX TYPE Bottle Count | | | | | | | | | |
| <u>T3 Startup</u> <u>T2 Startup</u> | | <u>6/20/14</u> <u>6/20/14</u> | <u>9:15A</u> <u>9:20A</u> | <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> | <u>L'cht</u> <u>L'cht</u> | <u>2</u> <u>2</u> | <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> | | |
| 5 TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE) NORMAL (8-10 Bus. Days) RUSH (5 Bus. Days) <u>Fastrak™ (3 Bus. Days)</u> <u>1-2 Bus. Days</u> Same Day DATE DUE <u>6-21-14</u> | | The sample temperature will be measured upon receipt at the lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature. | | | | | | | | | | | |
| RESULTS BY: E-MAIL FAX PHONE CALL PHONE/FAX# IF DIFFERENT FROM ABOVE | | 6 | | | | | | | | | | | |
| 7 RELINQUISHED BY: (SIGNATURE) <u>[Signature]</u> | | DATE: <u>6/20/14</u> TIME: <u>10:25</u> | RECEIVED BY: <u>[Signature]</u> | | DATE: <u>6/20/14</u> TIME: <u>10:25</u> | 8 COMMENTS: (FOR LAB USE ONLY) | | | | | | | |
| RELINQUISHED BY: (SIGNATURE) <u>[Signature]</u> | | DATE: <u>6/20/14</u> TIME: <u>11:06</u> | RECEIVED BY: <u>[Signature]</u> | | DATE: <u>6/20/14</u> TIME: <u>11:06</u> | SAMPLE TEMPERATURE UPON RECEIPT CHILL PROCESS STARTED PRIOR TO RECEIPT SAMPLE(S) RECEIVED ON ICE PROPER BOTTLES RECEIVED IN GOOD CONDITION BOTTLES FILLED WITH ADEQUATE VOLUME SAMPLES RECEIVED WITHIN HOLD TIME(S) (EXCLUDES TYPICAL FIELD PARAMETERS) DATE AND TIME TAKEN FROM SAMPLE BOTTLE | | | | | | | |
| RELINQUISHED BY: (SIGNATURE) | | DATE: | TIME: | RECEIVED BY: | | DATE: | TIME: | YORN YORN YORN YORN | | | | | |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/23/14 8:53
Report Date: 06/23/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Sample No: **4063187-01**
Sample Description: **Tank 3 Start-Up**

Collect Date: **06/21/14 09:10**
Matrix: **Waste Water Grab**

| Parameters | Result | Qual | Analysis Date | Analyst | Method |
|--|-----------|------|----------------|---------|---------------------------|
| <u>Anions - STL</u> | | | | | |
| Nitrate-N | 200 mg/L | Q2 | 06/21/14 13:35 | DWM | EPA 300.0 R2.1 04KS |
| Nitrite-N | < 25 mg/L | | 06/21/14 13:35 | DWM | EPA 300.0 R2.1 04KS |
| <u>General Chemistry - STL</u> | | | | | |
| COD | 2400 mg/L | | 06/21/14 13:30 | DWM | SM 5220D 18Ed 04KS |
| Solids - total suspended solids (TSS) | 2900 mg/L | | 06/21/14 11:15 | DWM | SM 2540D 18Ed 04KS |
| Solids - total volatile suspended solids | 1100 mg/L | | 06/23/14 13:15 | DAW | SM 2540E 18Ed* |
| <u>Nutrients - STL</u> | | | | | |
| Ammonia-N | 0.22 mg/L | | 06/21/14 12:00 | DWM | SM(18) 4500 NH3 F 04KS |

Sample No: **4063187-02**
Sample Description: **Tank 2 Start-Up**

Collect Date: **06/21/14 09:20**
Matrix: **Waste Water**

| Parameters | Result | Qual | Analysis Date | Analyst | Method |
|---------------------------------------|------------|------|----------------|---------|---------------------------|
| <u>General Chemistry - STL</u> | | | | | |
| COD | 23000 mg/L | | 06/21/14 13:30 | DWM | SM 5220D 18Ed 04KS |
| Solids - total suspended solids (TSS) | 520 mg/L | | 06/21/14 11:15 | DWM | SM 2540D 18Ed 04KS |
| <u>Nutrients - STL</u> | | | | | |
| Ammonia-N | 290 mg/L | | 06/21/14 12:00 | DWM | SM(18) 4500 NH3 F 04KS |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/23/14 8:53
Report Date: 06/23/14
Customer #: 277310
PO#: 4167739

Laboratory Results

General Chemistry - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|--|--------|-------|--|---------------|------|-------------|-----|-----------|
| Batch B410279 - 04-No Prep WC | | | | | | | | |
| Blank (B410279-BLK1) | | | Prepared & Analyzed: 06/21/14 | | | | | |
| Solids - total suspended solids (TSS) | < 2.0 | mg/L | | | | | | |
| LCS (B410279-BS1) | | | Prepared & Analyzed: 06/21/14 | | | | | |
| Solids - total suspended solids (TSS) | 85.0 | mg/L | 100.0 | | 85 | 82.9-110 | | |
| Duplicate (B410279-DUP1) | | | Source: 4063187-01 Prepared & Analyzed: 06/21/14 | | | | | |
| Solids - total suspended solids (TSS) | 2840 | mg/L | | 2860 | | | 0.7 | 5 |
| Batch B410280 - 04-No Prep WC | | | | | | | | |
| Calibration Blank (B410280-CCB1) | | | Prepared & Analyzed: 06/21/14 | | | | | |
| COD | -5.10 | mg/L | | | | | | |
| Calibration Check (B410280-CCV1) | | | Prepared & Analyzed: 06/21/14 | | | | | |
| COD | 482 | mg/L | 500.0 | | 96 | 95-105 | | |
| Batch B410321 - 04-No Prep WC | | | | | | | | |
| Duplicate (B410321-DUP1) | | | Source: 4063187-01 Prepared & Analyzed: 06/23/14 | | | | | |
| Solids - total volatile suspended solids | 1140 | mg/L | | 1140 | | | 0 | 5 |

Nutrients - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|--|--------|-------|--|---------------|------|-------------|-----|-----------|
| Batch B410334 - 04-No Prep WC | | | | | | | | |
| Blank (B410334-BLK1) | | | Prepared & Analyzed: 06/21/14 | | | | | |
| Ammonia-N | < 0.10 | mg/L | | | | | | |
| LCS (B410334-BS1) | | | Prepared & Analyzed: 06/21/14 | | | | | |
| Ammonia-N | 10.3 | mg/L | 10.00 | | 103 | 80-120 | | |
| Matrix Spike (B410334-MS1) | | | Source: 4063187-02 Prepared & Analyzed: 06/21/14 | | | | | |
| Ammonia-N | 398 | mg/L | 100.0 | 288 | 110 | 80-120 | | |
| Matrix Spike Dup (B410334-MSD1) | | | Source: 4063187-02 Prepared & Analyzed: 06/21/14 | | | | | |
| Ammonia-N | 395 | mg/L | 100.0 | 288 | 107 | 80-120 | 0.8 | 20 |

Anions - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---------|--------|-------|-------------|---------------|------|-------------|-----|-----------|
| <hr/> | | | | | | | | |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/23/14 8:53
Report Date: 06/23/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Anions - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|--------|-------|-------------------------------|---------------|-------------------------------|-------------|-----|-----------|
| Batch B410268 - 04-IC No Prep | | | | | | | | |
| Calibration Blank (B410268-CCB1) | | | Prepared & Analyzed: 06/21/14 | | | | | |
| Nitrate-N | 0.00 | mg/L | | | | | | |
| Nitrite-N | 0.00 | mg/L | | | | | | |
| Calibration Check (B410268-CCV1) | | | Prepared & Analyzed: 06/21/14 | | | | | |
| Nitrate-N | 1.22 | mg/L | 1.130 | | 108 | 90-110 | | |
| Nitrite-N | 2.14 | mg/L | 2.000 | | 107 | 90-110 | | |
| Matrix Spike (B410268-MS1) | | | Source: 4063187-01 | | Prepared & Analyzed: 06/21/14 | | | |
| Nitrate-N | 260 | mg/L | 56.48 | 200 | 98 | 80-120 | | |
| Nitrite-N | 100 | mg/L | 125.0 | ND | 80 | 80-120 | | |
| Matrix Spike Dup (B410268-MSD1) | | | Source: 4063187-01 | | Prepared & Analyzed: 06/21/14 | | | |
| Nitrate-N | Q2 270 | mg/L | 56.48 | 200 | 130 | 80-120 | 7 | 20 |
| Nitrite-N | 102 | mg/L | 125.0 | ND | 82 | 80-120 | 2 | 20 |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/23/14 8:53
Report Date: 06/23/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Notes

This report shall not be reproduced, except in full, without the written approval of the laboratory.

PDC Laboratories participates in the following accreditation/certification and proficiency programs at the following locations. Endorsement by Federal or State Governments or their agencies is not implied.

- PIA PDC Laboratories - Peoria, IL
NELAC Accreditation for Drinking Water, Wastewater, Hazardous and Solid Wastes Fields of Testing through IL EPA Lab No. 100230
Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 17553
Drinking Water Certifications: Kansas (E-10338); Missouri (870); Wisconsin (998284430); Iowa (240)
Wastewater Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
Hazardous/Solid Waste Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
UST Certification; Iowa (240)
- SPM PDC Laboratories - Springfield, MO
EPA DMR-QA Program
- STL PDC Laboratories - St. Louis, MO
TNI Accreditation for Wastewater, Hazardous and Solid Wastes Fields of Testing through KS Lab No. E-10389
Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 171050
Drinking Water Certifications: Missouri (1050)
Missouri Department of Natural Resources

Q2 MSD failed %R

Certified by: Roxann Shull, Client Services Supervisor



PDC Laboratories, Inc. – St. Louis
3278 N. Highway 67 (Lindbergh)
Florissant, MO 63033
 www.pdclab.com

CHAIN OF CUSTODY RECORD
 Phone (314) 432-0550 or (314) 921-4488
 Fax (314) 432-4977

State where samples collected MO
 (Instructions/Sample Acceptance Policy on Reverse)

ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

| | | | | |
|--|--|---|---|---|
| 1 CLIENT <u>RSI/Bridgeton LP</u> ADDRESS CITY STATE ZIP <u>Bridgeton MO</u> CONTACT PERSON <u>Arnon Weber</u> | | PROJECT NUMBER <u>Leachate</u> PHONE NUMBER <u>217 823 0100</u> P.O. NUMBER FAX NUMBER EMAIL ADDRESS | MEANS SHIPPED 3 ANALYSIS REQUESTED <u>COD + Ammonia</u> <u>TSS/SS + Nitrate/Nitrite</u> <u>TSS</u> | 4 (FOR LAB USE ONLY) LOGIN # <u>4063187</u> LOGGED BY: <u>HE</u> LAB PROJ. # TEMPLATE: PROJ. MGR.: REMARKS |
| 2 SAMPLE DESCRIPTION AS YOU WANT ON REPORT DATE COLLECTED TIME COLLECTED SAMPLE TYPE GRAB MATRIX COMP TYPE Bottle Count | | MATRIX TYPES: WW-WASTEWATER DW-DRINKING WATER GW-GROUND WATER WW-SLUDGE NAS-SOLID L'CHT-LEACHATE NAL-NONAQUEOUS SOIL-SOILS | | |
| <u>T3 Startup</u> <u>T2 Startup</u> | | <u>6-21-14</u> <u>9:10</u> <u>X</u> | <u>2</u> <u>X</u> <u>X</u> | |
| <u>6-21-14</u> <u>9:20</u> <u>X</u> | | <u>2</u> <u>X</u> <u>X</u> | | |
| 5 TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE) NORMAL (8-10 Bus. Days) RUSH (5 Bus. Days) Fastrak™ (3 Bus. Days) <u>-2 Bus. Days</u> Same Day DATE DUE <u>6-23-14</u> | | The sample temperature will be measured upon receipt at the lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initializing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature. | | |
| RESULTS BY: E-MAIL FAX PHONE CALL PHONE/FAX# IF DIFFERENT FROM ABOVE | | 6 | | |
| 7 RELINQUISHED BY: (SIGNATURE) <u>Mike Croak</u> RELINQUISHED BY: (SIGNATURE) <u>Dan Meyer</u> RELINQUISHED BY: (SIGNATURE) RELINQUISHED BY: (SIGNATURE) | | DATE <u>6/21/14</u> TIME <u>10:50</u> | RECEIVED BY: <u>Dan Meyer</u> RECEIVED BY: <u>Heather Carlheart</u> RECEIVED BY: | DATE <u>6/21/14</u> TIME <u>10:50</u> |
| | | DATE <u>6/21/14</u> TIME <u>14:45</u> | RECEIVED BY: <u>Heather Carlheart</u> RECEIVED BY: | DATE <u>6/23/14</u> TIME <u>08:15</u> |
| | | DATE TIME | RECEIVED BY: | DATE TIME |
| | | 8 COMMENTS:(FOR LAB USE ONLY) SAMPLE TEMPERATURE UPON RECEIPT CHILL PROCESS STARTED PRIOR TO RECEIPT SAMPLE(S) RECEIVED ON ICE PROPER BOTTLES RECEIVED IN GOOD CONDITION BOTTLES FILLED WITH ADEQUATE VOLUME SAMPLES RECEIVED WITHIN HOLD TIME(S) (EXCLUDES TYPICAL FIELD PARAMETERS) DATE AND TIME TAKEN FROM SAMPLE BOTTLE | | |
| | | <u>13.7</u> Y OR N Y OR N Y OR N Y OR N | | |

Thank you for using PDC Laboratories, Inc. Locations in Peoria, IL; St. Louis, MO; and Springfield, MO



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/23/14 11:09
Report Date: 06/23/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Sample No: **4063221-01**
Sample Description: **Tank 3 Start-Up**

Collect Date: **06/22/14 09:10**
Matrix: **Waste Water Grab**

| Parameters | Result | Qual | Analysis Date | Analyst | Method |
|--|-----------|------|----------------|---------|---------------------------|
| <u>Anions - STL</u> | | | | | |
| Nitrate-N | 200 mg/L | | 06/23/14 13:55 | DWM | EPA 300.0 R2.1 04KS |
| Nitrite-N | < 25 mg/L | | 06/23/14 13:55 | DWM | EPA 300.0 R2.1 04KS |
| <u>General Chemistry - STL</u> | | | | | |
| COD | 1900 mg/L | | 06/23/14 13:31 | DAW | SM 5220D 18Ed 04KS |
| Solids - total suspended solids (TSS) | 2600 mg/L | | 06/23/14 11:50 | DAW | SM 2540D 18Ed 04KS |
| Solids - total volatile suspended solids | 1000 mg/L | | 06/23/14 13:15 | DAW | SM 2540E 18Ed* |
| <u>Nutrients - STL</u> | | | | | |
| Ammonia-N | 0.30 mg/L | | 06/23/14 12:00 | ACV | SM(18) 4500 NH3 04KS F |

Sample No: **4063221-02**
Sample Description: **Tank 2 Start-Up**

Collect Date: **06/22/14 09:06**
Matrix: **Waste Water**

| Parameters | Result | Qual | Analysis Date | Analyst | Method |
|---------------------------------------|------------|------|----------------|---------|---------------------------|
| <u>General Chemistry - STL</u> | | | | | |
| COD | 23000 mg/L | | 06/23/14 13:31 | DAW | SM 5220D 18Ed 04KS |
| Solids - total suspended solids (TSS) | 490 mg/L | | 06/23/14 11:50 | DAW | SM 2540D 18Ed 04KS |
| <u>Nutrients - STL</u> | | | | | |
| Ammonia-N | 340 mg/L | | 06/23/14 12:00 | ACV | SM(18) 4500 NH3 04KS F |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/23/14 11:09
Report Date: 06/23/14
Customer #: 277310
PO#: 4167739

Laboratory Results

General Chemistry - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---------|--------|-------|-------------|---------------|------|-------------|-----|-----------|
|---------|--------|-------|-------------|---------------|------|-------------|-----|-----------|

Batch B410285 - 04-No Prep WC

| | | | | | | | | |
|---------------------------------------|-------|------|--|------|----------|--|-----|---|
| Blank (B410285-BLK1) | | | Prepared & Analyzed: 06/23/14 | | | | | |
| Solids - total suspended solids (TSS) | < 2.0 | mg/L | | | | | | |
| LCS (B410285-BS1) | | | Prepared & Analyzed: 06/23/14 | | | | | |
| Solids - total suspended solids (TSS) | 100 | mg/L | 100.0 | 100 | 82.9-110 | | | |
| Duplicate (B410285-DUP1) | | | Source: 4063188-01 Prepared & Analyzed: 06/23/14 | | | | | |
| Solids - total suspended solids (TSS) | 1640 | mg/L | | 1620 | | | 1 | 5 |
| Duplicate (B410285-DUP2) | | | Source: 4063221-01 Prepared & Analyzed: 06/23/14 | | | | | |
| Solids - total suspended solids (TSS) | 2640 | mg/L | | 2620 | | | 0.8 | 5 |

Batch B410316 - 04-No Prep WC

| | | | | | | | | |
|---|--------|------|--|-------|--------|--|-----|----|
| Calibration Blank (B410316-CCB1) | | | Prepared & Analyzed: 06/23/14 | | | | | |
| COD | -0.266 | mg/L | | | | | | |
| Calibration Blank (B410316-CCB2) | | | Prepared & Analyzed: 06/23/14 | | | | | |
| COD | -5.07 | mg/L | | | | | | |
| Calibration Check (B410316-CCV1) | | | Prepared & Analyzed: 06/23/14 | | | | | |
| COD | 97.9 | mg/L | 100.0 | 98 | 95-105 | | | |
| Calibration Check (B410316-CCV2) | | | Prepared & Analyzed: 06/23/14 | | | | | |
| COD | 487 | mg/L | 500.0 | 97 | 95-105 | | | |
| Duplicate (B410316-DUP1) | | | Source: 4063162-02 Prepared & Analyzed: 06/23/14 | | | | | |
| COD | 11.7 | mg/L | | 11.5 | | | 2 | 20 |
| Duplicate (B410316-DUP2) | | | Source: 4063223-02 Prepared & Analyzed: 06/23/14 | | | | | |
| COD | 23000 | mg/L | | 23100 | | | 0.5 | 20 |

Batch B410321 - 04-No Prep WC

| | | | | | | | | |
|--|------|------|--|------|--|--|---|---|
| Duplicate (B410321-DUP1) | | | Source: 4063187-01 Prepared & Analyzed: 06/23/14 | | | | | |
| Solids - total volatile suspended solids | 1140 | mg/L | | 1140 | | | 0 | 5 |

Nutrients - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---------|--------|-------|-------------|---------------|------|-------------|-----|-----------|
|---------|--------|-------|-------------|---------------|------|-------------|-----|-----------|

Batch B410335 - 04-No Prep WC

| | | | | | | | | |
|---|------|------|-------------------------------|--|--|--|--|--|
| Calibration Blank (B410335-CCB1) | | | Prepared & Analyzed: 06/23/14 | | | | | |
| Ammonia-N | 0.00 | mg/L | | | | | | |
| Calibration Check (B410335-CCV1) | | | Prepared & Analyzed: 06/23/14 | | | | | |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/23/14 11:09
Report Date: 06/23/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Nutrients - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|--------|-------|-------------------------------|---------------|-------------------------------|-------------|-----|-----------|
| Batch B410335 - 04-No Prep WC | | | | | | | | |
| Calibration Check (B410335-CCV1) | | | Prepared & Analyzed: 06/23/14 | | | | | |
| Ammonia-N | 9.98 | mg/L | 10.00 | | 100 | 90-110 | | |
| Matrix Spike (B410335-MS1) | | | Source: 4063044-03 | | Prepared & Analyzed: 06/23/14 | | | |
| Ammonia-N | 9.86 | mg/L | 10.00 | ND | 99 | 80-120 | | |
| Matrix Spike Dup (B410335-MSD1) | | | Source: 4063044-03 | | Prepared & Analyzed: 06/23/14 | | | |
| Ammonia-N | 9.92 | mg/L | 10.00 | ND | 99 | 80-120 | 0.6 | 20 |

Anions - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|--------|-------|-------------------------------|---------------|------|-------------|-----|-----------|
| Batch B410325 - 04-IC No Prep | | | | | | | | |
| Calibration Blank (B410325-CCB1) | | | Prepared & Analyzed: 06/23/14 | | | | | |
| Nitrate-N | 0.00 | mg/L | | | | | | |
| Nitrite-N | 0.00 | mg/L | | | | | | |
| Calibration Check (B410325-CCV1) | | | Prepared & Analyzed: 06/23/14 | | | | | |
| Nitrate-N | 1.21 | mg/L | 1.130 | | 107 | 90-110 | | |
| Nitrite-N | 2.13 | mg/L | 2.000 | | 107 | 90-110 | | |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/23/14 11:09
Report Date: 06/23/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Notes

This report shall not be reproduced, except in full, without the written approval of the laboratory.

PDC Laboratories participates in the following accreditation/certification and proficiency programs at the following locations. Endorsement by Federal or State Governments or their agencies is not implied.

- PIA PDC Laboratories - Peoria, IL
NELAC Accreditation for Drinking Water, Wastewater, Hazardous and Solid Wastes Fields of Testing through IL EPA Lab No. 100230
Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 17553
Drinking Water Certifications: Kansas (E-10338); Missouri (870); Wisconsin (998284430); Iowa (240)
Wastewater Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
Hazardous/Solid Waste Certifications; Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
UST Certification; Iowa (240)
- SPM PDC Laboratories - Springfield, MO
EPA DMR-QA Program
- STL PDC Laboratories - St. Louis, MO
TNI Accreditation for Wastewater, Hazardous and Solid Wastes Fields of Testing through KS Lab No. E-10389
Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 171050
Drinking Water Certifications: Missouri (1050)
Missouri Department of Natural Resources

Certified by: Roxann Shull, Client Services Supervisor



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/23/14 11:14
Report Date: 06/24/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Sample No: **4063223-01**
Sample Description: **Tank 3 Start-Up**

Collect Date: **06/23/14 09:16**
Matrix: **Waste Water Grab**

| Parameters | Result | Qual | Analysis Date | Analyst | Method |
|--|-----------|------|----------------|---------|------------------------|
| <u>Anions - STL</u> | | | | | |
| Nitrate-N | 210 mg/L | | 06/23/14 13:00 | DWM | EPA 300.0 R2.1 04KS |
| Nitrite-N | < 25 mg/L | | 06/23/14 13:00 | DWM | EPA 300.0 R2.1 04KS |
| <u>General Chemistry - STL</u> | | | | | |
| COD | 2000 mg/L | | 06/23/14 13:31 | DAW | SM 5220D 18Ed 04KS |
| Solids - total suspended solids (TSS) | 2500 mg/L | | 06/23/14 11:50 | DAW | SM 2540D 18Ed 04KS |
| Solids - total volatile suspended solids | 940 mg/L | | 06/23/14 13:15 | DAW | SM 2540E 18Ed* |
| <u>Nutrients - STL</u> | | | | | |
| Ammonia-N | 0.26 mg/L | | 06/23/14 12:00 | ACV | SM(18) 4500 NH3 F 04KS |
| <u>Soluble Metals - STL</u> | | | | | |
| Zinc | 0.25 mg/L | | 06/24/14 15:11 | KAE | EPA 200.7 R4.4 04KS |
| <u>Soluble Nutrients - STL</u> | | | | | |
| Phosphorus - ortho as P | 2.0 mg/L | | 06/23/14 17:00 | ACV | SM 4500P B E 18ed* |
| <u>Total Metals - STL</u> | | | | | |
| Zinc | 1.9 mg/L | | 06/24/14 15:17 | WPS | EPA 200.7 R4.4 04KS |

Sample No: **4063223-02**
Sample Description: **Tank 2 Start-Up**

Collect Date: **06/23/14 09:23**
Matrix: **Waste Water**

| Parameters | Result | Qual | Analysis Date | Analyst | Method |
|---------------------------------------|------------|------|----------------|---------|------------------------|
| <u>General Chemistry - STL</u> | | | | | |
| COD | 23000 mg/L | | 06/23/14 13:31 | DAW | SM 5220D 18Ed 04KS |
| Solids - total suspended solids (TSS) | 420 mg/L | | 06/23/14 11:50 | DAW | SM 2540D 18Ed 04KS |
| <u>Nutrients - STL</u> | | | | | |
| Ammonia-N | 310 mg/L | | 06/23/14 12:00 | ACV | SM(18) 4500 NH3 F 04KS |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/23/14 11:14
Report Date: 06/24/14
Customer #: 277310
PO#: 4167739

Laboratory Results

General Chemistry - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|--|--------|-------|--|---------------|------|-------------|-----|-----------|
| Batch B410285 - 04-No Prep WC | | | | | | | | |
| Blank (B410285-BLK1) | | | Prepared & Analyzed: 06/23/14 | | | | | |
| Solids - total suspended solids (TSS) | < 2.0 | mg/L | | | | | | |
| LCS (B410285-BS1) | | | Prepared & Analyzed: 06/23/14 | | | | | |
| Solids - total suspended solids (TSS) | 100 | mg/L | 100.0 | | 100 | 82.9-110 | | |
| Duplicate (B410285-DUP1) | | | Source: 4063188-01 Prepared & Analyzed: 06/23/14 | | | | | |
| Solids - total suspended solids (TSS) | 1640 | mg/L | | 1620 | | | 1 | 5 |
| Duplicate (B410285-DUP2) | | | Source: 4063221-01 Prepared & Analyzed: 06/23/14 | | | | | |
| Solids - total suspended solids (TSS) | 2640 | mg/L | | 2620 | | | 0.8 | 5 |
| Batch B410316 - 04-No Prep WC | | | | | | | | |
| Calibration Blank (B410316-CCB1) | | | Prepared & Analyzed: 06/23/14 | | | | | |
| COD | -0.266 | mg/L | | | | | | |
| Calibration Blank (B410316-CCB2) | | | Prepared & Analyzed: 06/23/14 | | | | | |
| COD | -5.07 | mg/L | | | | | | |
| Calibration Check (B410316-CCV1) | | | Prepared & Analyzed: 06/23/14 | | | | | |
| COD | 97.9 | mg/L | 100.0 | | 98 | 95-105 | | |
| Calibration Check (B410316-CCV2) | | | Prepared & Analyzed: 06/23/14 | | | | | |
| COD | 487 | mg/L | 500.0 | | 97 | 95-105 | | |
| Duplicate (B410316-DUP1) | | | Source: 4063162-02 Prepared & Analyzed: 06/23/14 | | | | | |
| COD | 11.7 | mg/L | | 11.5 | | | 2 | 20 |
| Duplicate (B410316-DUP2) | | | Source: 4063223-02 Prepared & Analyzed: 06/23/14 | | | | | |
| COD | 23000 | mg/L | | 23100 | | | 0.5 | 20 |
| Batch B410321 - 04-No Prep WC | | | | | | | | |
| Duplicate (B410321-DUP1) | | | Source: 4063187-01 Prepared & Analyzed: 06/23/14 | | | | | |
| Solids - total volatile suspended solids | 1140 | mg/L | | 1140 | | | 0 | 5 |
| Nutrients - Quality Control | | | | | | | | |
| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
| Batch B410335 - 04-No Prep WC | | | | | | | | |
| Calibration Blank (B410335-CCB1) | | | Prepared & Analyzed: 06/23/14 | | | | | |
| Ammonia-N | 0.00 | mg/L | | | | | | |
| Calibration Check (B410335-CCV1) | | | Prepared & Analyzed: 06/23/14 | | | | | |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/23/14 11:14
Report Date: 06/24/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Nutrients - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|--------|-------|-------------------------------|---------------|------|-------------|-----|-----------|
| Batch B410335 - 04-No Prep WC | | | | | | | | |
| Calibration Check (B410335-CCV1) | | | Prepared & Analyzed: 06/23/14 | | | | | |
| Ammonia-N | 9.98 | mg/L | 10.00 | | 100 | 90-110 | | |
| Matrix Spike (B410335-MS1) | | | Prepared & Analyzed: 06/23/14 | | | | | |
| Ammonia-N | 9.86 | mg/L | 10.00 | ND | 99 | 80-120 | | |
| Matrix Spike Dup (B410335-MSD1) | | | Prepared & Analyzed: 06/23/14 | | | | | |
| Ammonia-N | 9.92 | mg/L | 10.00 | ND | 99 | 80-120 | 0.6 | 20 |

Soluble Nutrients - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|--------|-------|-------------------------------|---------------|------|-------------|-----|-----------|
| Batch B410346 - 04-No Prep WC | | | | | | | | |
| Calibration Blank (B410346-CCB1) | | | Prepared & Analyzed: 06/23/14 | | | | | |
| Phosphorus - ortho as P | 0.00 | mg/L | | | | | | |
| Calibration Check (B410346-CCV1) | | | Prepared & Analyzed: 06/23/14 | | | | | |
| Phosphorus - ortho as P | 0.496 | mg/L | 0.5000 | | 99 | 90-110 | | |
| Matrix Spike (B410346-MS1) | | | Prepared & Analyzed: 06/23/14 | | | | | |
| Phosphorus - ortho as P | 2.61 | mg/L | 0.5000 | 2.03 | 116 | 80-120 | | |
| Matrix Spike Dup (B410346-MSD1) | | | Prepared & Analyzed: 06/23/14 | | | | | |
| Phosphorus - ortho as P | 2.55 | mg/L | 0.5000 | 2.03 | 104 | 80-120 | 2 | 20 |

Total Metals - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|--|---------|-------|---------------------------------------|---------------|------|-------------|-----|-----------|
| Batch B410308 - 04 EPA 200.2 R2.8 | | | | | | | | |
| Blank (B410308-BLK1) | | | Prepared: 06/23/14 Analyzed: 06/24/14 | | | | | |
| Zinc | < 0.020 | mg/L | | | | | | |
| LCS (B410308-BS1) | | | Prepared: 06/23/14 Analyzed: 06/24/14 | | | | | |
| Zinc | 0.223 | mg/L | 0.2000 | | 112 | 85-115 | | |
| Matrix Spike (B410308-MS1) | | | Prepared: 06/23/14 Analyzed: 06/24/14 | | | | | |
| Zinc | NR | 1.45 | 1.000 | 1.87 | NR | 70-130 | | |
| Matrix Spike Dup (B410308-MSD1) | | | Prepared: 06/23/14 Analyzed: 06/24/14 | | | | | |
| Zinc | NR | 1.44 | 1.000 | 1.87 | NR | 70-130 | 0.9 | 20 |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/23/14 11:14
Report Date: 06/24/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Soluble Metals - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|--|---------|-------|---------------------------------------|---------------|------|-------------|-----|-----------|
| Batch B410308 - 04 EPA 200.2 R2.8 | | | | | | | | |
| Blank (B410308-BLK1) | | | Prepared: 06/23/14 Analyzed: 06/24/14 | | | | | |
| Zinc | < 0.020 | mg/L | | | | | | |
| LCS (B410308-BS1) | | | Prepared: 06/23/14 Analyzed: 06/24/14 | | | | | |
| Zinc | 0.223 | mg/L | 0.2000 | | 112 | 85-115 | | |
| Matrix Spike (B410308-MS1) | | | Prepared: 06/23/14 Analyzed: 06/24/14 | | | | | |
| Zinc | 1.45 | mg/L | 1.000 | 0.251 | 120 | 70-130 | | |
| Matrix Spike Dup (B410308-MSD1) | | | Prepared: 06/23/14 Analyzed: 06/24/14 | | | | | |
| Zinc | 1.44 | mg/L | 1.000 | 0.251 | 119 | 70-130 | 0.9 | 20 |

Anions - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|--------|-------|-------------------------------|---------------|------|-------------|-----|-----------|
| Batch B410325 - 04-IC No Prep | | | | | | | | |
| Calibration Blank (B410325-CCB1) | | | Prepared & Analyzed: 06/23/14 | | | | | |
| Nitrate-N | 0.00 | mg/L | | | | | | |
| Nitrite-N | 0.00 | mg/L | | | | | | |
| Calibration Check (B410325-CCV1) | | | Prepared & Analyzed: 06/23/14 | | | | | |
| Nitrate-N | 1.19 | mg/L | 1.130 | | 105 | 90-110 | | |
| Nitrite-N | 2.04 | mg/L | 2.000 | | 102 | 90-110 | | |
| Matrix Spike (B410325-MS1) | | | Prepared & Analyzed: 06/23/14 | | | | | |
| Nitrite-N | 2.85 | mg/L | 2.500 | 0.252 | 104 | 80-120 | | |
| Nitrate-N | Q1 3.0 | mg/L | 1.130 | 2.4 | 52 | 80-120 | | |
| Matrix Spike Dup (B410325-MSD1) | | | Prepared & Analyzed: 06/23/14 | | | | | |
| Nitrite-N | 2.95 | mg/L | 2.500 | 0.252 | 108 | 80-120 | 4 | 20 |
| Nitrate-N | Q2 3.0 | mg/L | 1.130 | 2.4 | 56 | 80-120 | 1 | 20 |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/23/14 11:14
Report Date: 06/24/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Notes

This report shall not be reproduced, except in full, without the written approval of the laboratory.

PDC Laboratories participates in the following accreditation/certification and proficiency programs at the following locations. Endorsement by Federal or State Governments or their agencies is not implied.

- PIA PDC Laboratories - Peoria, IL
NELAC Accreditation for Drinking Water, Wastewater, Hazardous and Solid Wastes Fields of Testing through IL EPA Lab No. 100230
Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 17553
Drinking Water Certifications: Kansas (E-10338); Missouri (870); Wisconsin (998284430); Iowa (240)
Wastewater Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
Hazardous/Solid Waste Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
UST Certification; Iowa (240)
- SPM PDC Laboratories - Springfield, MO
EPA DMR-QA Program
- STL PDC Laboratories - St. Louis, MO
TNI Accreditation for Wastewater, Hazardous and Solid Wastes Fields of Testing through KS Lab No. E-10389
Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 171050
Drinking Water Certifications: Missouri (1050)
Missouri Department of Natural Resources

- Q2 MSD failed %R
- Q1 MS Failed %R
- NR Not Required

Certified by: Roxann Shull, Client Services Supervisor



PDC Laboratories, Inc. – St. Louis
3278 N. Highway 67 (Lindbergh)
Florissant, MO 63033

www.pdclab.com

CHAIN OF CUSTODY RECORD

Phone (314) 432-0550 or (314) 921-4488

Fax (314) 432-4977

State where samples collected MO

(Instructions/Sample Acceptance Policy on Reverse)

ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

| | | | | | | | | | | | | |
|--|--|---|-------------------|--|----------------------|---------------------------|--|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|--|
| 1 CLIENT <u>BARR/BRIDGETON LF</u> | | PROJECT NUMBER | P.O. NUMBER | MEANS SHIPPED | 3 ANALYSIS REQUESTED | | | | | 4 (FOR LAB USE ONLY) | | |
| ADDRESS | | PHONE NUMBER | FAX NUMBER | EMAIL ADDRESS | COD + AMMONIA | TSS/SSS + NITRATE/NITRITE | TOTAL ZN | DISS ZN | DISS ORTHOPHOSPHATE | TSS | LOGIN # <u>4063223</u> | |
| CITY STATE ZIP | | SAMPLER | | MATRIX TYPES: WW-WASTEWATER DW-DRINKING WATER GW-GROUND WATER WWSL-SLUDGE NAS-SOLID L'CHT-LEACHATE NAL-NONAQUEOUS SOIL-SOILS | | | | | | | LOGGED BY: <u>HE</u> | |
| CONTACT PERSON | | SAMPLER'S SIGNATURE | | | | | | | | | LAB PROJ. # | |
| 2 SAMPLE DESCRIPTION AS YOU WANT ON REPORT | | DATE COLLECTED | TIME COLLECTED | SAMPLE TYPE GRAB | MATRIX COMP | TYPE | Bottle Count | REMARKS | | | | |
| <u>T3 STARTUP</u> | | <u>6/23/14</u> | <u>0916</u> | <input checked="" type="checkbox"/> | | <u>LCHT</u> | <u>5</u> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | |
| <u>T2 STARTUP</u> | | <u>6/23/14</u> | <u>0923</u> | <input checked="" type="checkbox"/> | | <u>LCHT</u> | <u>2</u> | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | |
| 5 TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE) | | 6 The sample temperature will be measured upon receipt at the lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature. | | | | | | | | | | |
| NORMAL (8-10 Bus. Days) RUSH (5 Bus. Days) <u>Fastrak™</u> (3 Bus. Days) <u>1-2 Bus. Days</u> Same Day | | | | | | | | | | | | |
| DATE DUE <u>6/24/14</u> | | | | | | | | | | | | |
| RESULTS BY: E-MAIL FAX PHONE CALL PHONE/FAX# IF DIFFERENT FROM ABOVE | | | | | | | | | | | | |
| 7 RELINQUISHED BY: (SIGNATURE) | | DATE | TIME | RECEIVED BY: | DATE | TIME | 8 COMMENTS:(FOR LAB USE ONLY) | | | | | |
| | | <u>6-23-14</u> | <u>10:25</u> | | <u>6/23/14</u> | <u>10:25</u> | SAMPLE TEMPERATURE UPON RECEIPT <u>14.5</u> °C CHILL PROCESS STARTED PRIOR TO RECEIPT <input type="checkbox"/> Y <input type="checkbox"/> OR N SAMPLE(S) RECEIVED ON ICE <input type="checkbox"/> Y <input type="checkbox"/> OR N PROPER BOTTLES RECEIVED IN GOOD CONDITION <input type="checkbox"/> Y <input type="checkbox"/> OR N BOTTLES FILLED WITH ADEQUATE VOLUME <input type="checkbox"/> Y <input type="checkbox"/> OR N SAMPLES RECEIVED WITHIN HOLD TIME(S) (EXCLUDES TYPICAL FIELD PARAMETERS) <input type="checkbox"/> Y <input type="checkbox"/> OR N DATE AND TIME TAKEN FROM SAMPLE BOTTLE | | | | | |
| RELINQUISHED BY: (SIGNATURE) | | DATE | TIME | RECEIVED BY: | DATE | TIME | | | | | | |
| | | <u>6-23-14</u> | <u>10:40</u> | | <u>6/23/14</u> | <u>10:40</u> | | | | | | |
| RELINQUISHED BY: (SIGNATURE) | | DATE | TIME | RECEIVED BY: | DATE | TIME | | | | | | |
| RELINQUISHED BY: (SIGNATURE) | | DATE | TIME | RECEIVED BY: | DATE | TIME | | | | | | |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/24/14 11:27
Report Date: 06/25/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Sample No: **4063389-01**
Sample Description: **Tank 3 Start-Up**

Collect Date: **06/24/14 07:40**
Matrix: **Waste Water Grab**

| Parameters | Result | Qual | Analysis Date | Analyst | Method |
|--|-----------|------|----------------|---------|---------------------------|
| <u>Anions - STL</u> | | | | | |
| Nitrate-N | 220 mg/L | | 06/24/14 13:41 | DWM | EPA 300.0 R2.1 04KS |
| Nitrite-N | < 25 mg/L | | 06/24/14 13:41 | DWM | EPA 300.0 R2.1 04KS |
| <u>General Chemistry - STL</u> | | | | | |
| COD | 1700 mg/L | | 06/25/14 08:21 | DAW | SM 5220D 18Ed 04KS |
| Solids - total suspended solids (TSS) | 2800 mg/L | | 06/24/14 12:10 | DAW | SM 2540D 18Ed 04KS |
| Solids - total volatile suspended solids | 1200 mg/L | | 06/25/14 08:30 | DAW | SM 2540E 18Ed* |
| <u>Nutrients - STL</u> | | | | | |
| Ammonia-N | 0.32 mg/L | | 06/25/14 11:30 | ACV | SM(18) 4500 NH3 04KS F |

Sample No: **4063389-02**
Sample Description: **Tank 2 Start-Up**

Collect Date: **06/24/14 07:26**
Matrix: **Waste Water**

| Parameters | Result | Qual | Analysis Date | Analyst | Method |
|---------------------------------------|------------|------|----------------|---------|---------------------------|
| <u>General Chemistry - STL</u> | | | | | |
| COD | 24000 mg/L | | 06/25/14 08:21 | DAW | SM 5220D 18Ed 04KS |
| Solids - total suspended solids (TSS) | 320 mg/L | | 06/24/14 12:10 | DAW | SM 2540D 18Ed 04KS |
| <u>Nutrients - STL</u> | | | | | |
| Ammonia-N | 290 mg/L | | 06/25/14 11:30 | ACV | SM(18) 4500 NH3 04KS F |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/24/14 11:27
Report Date: 06/25/14
Customer #: 277310
PO#: 4167739

Laboratory Results

General Chemistry - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---------|--------|-------|-------------|---------------|------|-------------|-----|-----------|
|---------|--------|-------|-------------|---------------|------|-------------|-----|-----------|

Batch B410395 - 04-No Prep WC

| | | | | | | | | |
|---------------------------------------|-------|------|---|------|----|----------|---|---|
| Blank (B410395-BLK1) | | | Prepared & Analyzed: 06/24/14 | | | | | |
| Solids - total suspended solids (TSS) | < 2.0 | mg/L | | | | | | |
| LCS (B410395-BS1) | | | Prepared & Analyzed: 06/24/14 | | | | | |
| Solids - total suspended solids (TSS) | 96.0 | mg/L | 100.0 | | 96 | 82.9-110 | | |
| Duplicate (B410395-DUP1) | | | Source: 4063237-03 Prepared & Analyzed: 06/24/14 | | | | | |
| Solids - total suspended solids (TSS) | 1140 | mg/L | | 1140 | | | 0 | 5 |
| Duplicate (B410395-DUP2) | | | Source: 4063389-01 Prepared & Analyzed: 06/24/14 | | | | | |
| Solids - total suspended solids (TSS) | 2860 | mg/L | | 2780 | | | 3 | 5 |

Batch B410451 - 04-No Prep WC

| | | | | | | | | |
|---|-------|------|---|-----|----|--------|-----|----|
| Calibration Blank (B410451-CCB1) | | | Prepared: 06/24/14 Analyzed: 06/25/14 | | | | | |
| COD | -5.10 | mg/L | | | | | | |
| Calibration Check (B410451-CCV1) | | | Prepared: 06/24/14 Analyzed: 06/25/14 | | | | | |
| COD | 489 | mg/L | 500.0 | | 98 | 95-105 | | |
| Duplicate (B410451-DUP1) | | | Source: 4062715-01 Prepared: 06/24/14 Analyzed: 06/25/14 | | | | | |
| COD | 654 | mg/L | | 658 | | | 0.7 | 20 |

Batch B410499 - 04-No Prep WC

| | | | | | | | | |
|--|------|------|---|------|--|--|---|---|
| Duplicate (B410499-DUP1) | | | Source: 4063389-01 Prepared & Analyzed: 06/25/14 | | | | | |
| Solids - total volatile suspended solids | 1180 | mg/L | | 1160 | | | 2 | 5 |

Nutrients - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---------|--------|-------|-------------|---------------|------|-------------|-----|-----------|
|---------|--------|-------|-------------|---------------|------|-------------|-----|-----------|

Batch B410510 - 04-No Prep WC

| | | | | | | | | |
|---|------|------|---|-------|-----|--------|-----|----|
| Calibration Blank (B410510-CCB1) | | | Prepared & Analyzed: 06/25/14 | | | | | |
| Ammonia-N | 0.00 | mg/L | | | | | | |
| Calibration Check (B410510-CCV1) | | | Prepared & Analyzed: 06/25/14 | | | | | |
| Ammonia-N | 10.0 | mg/L | 10.00 | | 100 | 90-110 | | |
| Matrix Spike (B410510-MS1) | | | Source: 4063470-02 Prepared & Analyzed: 06/25/14 | | | | | |
| Ammonia-N | 9.92 | mg/L | 10.00 | 0.100 | 98 | 80-120 | | |
| Matrix Spike Dup (B410510-MSD1) | | | Source: 4063470-02 Prepared & Analyzed: 06/25/14 | | | | | |
| Ammonia-N | 9.98 | mg/L | 10.00 | 0.100 | 99 | 80-120 | 0.6 | 20 |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/24/14 11:27
Report Date: 06/25/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Anions - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---------|-------|-------------------------------|---------------|-------------------------------|-------------|-----|-----------|
| Batch B410468 - 04-IC No Prep | | | | | | | | |
| Calibration Blank (B410468-CCB1) | | | Prepared & Analyzed: 06/24/14 | | | | | |
| Nitrate-N | 0.00 | mg/L | | | | | | |
| Nitrite-N | 0.00 | mg/L | | | | | | |
| Calibration Check (B410468-CCV1) | | | Prepared & Analyzed: 06/24/14 | | | | | |
| Nitrate-N | 1.22 | mg/L | 1.130 | | 108 | 90-110 | | |
| Nitrite-N | 2.19 | mg/L | 2.000 | | 110 | 90-110 | | |
| Matrix Spike (B410468-MS1) | | | Source: 4062997-04 | | Prepared & Analyzed: 06/24/14 | | | |
| Nitrate-N | Q1 5.4 | mg/L | 1.130 | 4.6 | 70 | 80-120 | | |
| Nitrite-N | Q4 36.4 | mg/L | 2.500 | 4.00 | NR | 80-120 | | |
| Matrix Spike Dup (B410468-MSD1) | | | Source: 4062997-04 | | Prepared & Analyzed: 06/24/14 | | | |
| Nitrite-N | Q4 37.6 | mg/L | 2.500 | 4.00 | NR | 80-120 | 3 | 20 |
| Nitrate-N | Q2 5.5 | mg/L | 1.130 | 4.6 | 78 | 80-120 | 2 | 20 |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/24/14 11:27
Report Date: 06/25/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Notes

This report shall not be reproduced, except in full, without the written approval of the laboratory.

PDC Laboratories participates in the following accreditation/certification and proficiency programs at the following locations. Endorsement by Federal or State Governments or their agencies is not implied.

- PIA PDC Laboratories - Peoria, IL
NELAC Accreditation for Drinking Water, Wastewater, Hazardous and Solid Wastes Fields of Testing through IL EPA Lab No. 100230
Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 17553
Drinking Water Certifications: Kansas (E-10338); Missouri (870); Wisconsin (998284430); Iowa (240)
Wastewater Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
Hazardous/Solid Waste Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
UST Certification; Iowa (240)
- SPM PDC Laboratories - Springfield, MO
EPA DMR-QA Program
- STL PDC Laboratories - St. Louis, MO
TNI Accreditation for Wastewater, Hazardous and Solid Wastes Fields of Testing through KS Lab No. E-10389
Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 171050
Drinking Water Certifications: Missouri (1050)
Missouri Department of Natural Resources

- Q4 The matrix spike recovery result is unusable since the analyte concentration in the sample is greater than four times the spike level. The associated blank spike was acceptable.
- Q2 MSD failed %R
- Q1 MS Failed %R

Certified by: Roxann Shull, Client Services Supervisor



PDC Laboratories, Inc. – St. Louis
 3278 N. Highway 67 (Lindbergh)
 Florissant, MO 63033
 www.pdcclab.com

CHAIN OF CUSTODY RECORD
 Phone (314) 432-0550 or (314) 921-4488
 Fax (314) 432-4977

State where samples collected MO

(Instructions/Sample Acceptance Policy on Reverse)

ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

| | | | | | | | | | | | | | |
|--|--|-------------------------|--|---------------------|--|---|--|---|--|--------------|--|---|--|
| 1 CLIENT <u>BARR/BRIDGETON LF</u> | | PROJECT NUMBER | | P. O. NUMBER | | MEANS SHIPPED | | 3 ANALYSIS REQUESTED | | | | 4 (FOR LAB USE ONLY) | |
| ADDRESS | | PHONE NUMBER | | FAX NUMBER | | EMAIL ADDRESS | | COD + ARMONIA TSS/MS + METALS/ARTE TSS | | | | 4 LOGIN # <u>4063389</u> LOGGED BY: <u>HE</u> LAB PROJ. # TEMPLATE: PROJ. MGR.: | |
| CITY STATE ZIP | | SAMPLER | | SAMPLER'S SIGNATURE | | MATRIX TYPES: WW-WASTEWATER DW-DRINKING WATER GW-GROUND WATER WWSL-SLUDGE NAS-SOLID L'CHT-LEACHATE NAL-NON-AQUEOUS SOIL-SOILS | | | | | | REMARKS | |
| CONTACT PERSON | | DATE | | TIME | | SAMPLE TYPE | | | | | | MATRIX | |
| 2 SAMPLE DESCRIPTION AS YOU WANT ON REPORT | | COLLECTED | | COLLECTED | | GRAB | | COMP | | TYPE | | Count | |
| <u>T3 STARTUP</u> | | <u>6/24/14</u> | | <u>0740</u> | | <input checked="" type="checkbox"/> | | | | <u>LCHT</u> | | <u>2</u> | |
| <u>T2 STARTUP</u> | | <u>6/24/14</u> | | <u>0726</u> | | <input checked="" type="checkbox"/> | | | | <u>LCHT</u> | | <u>2</u> | |
| TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE) | | NORMAL (8-10 Bus. Days) | | RUSH (5 Bus. Days) | | Fastrak™ (3 Bus. Days) | | <input checked="" type="checkbox"/> 1-2 Bus. Days | | Same Day | | The sample temperature will be measured upon receipt at the lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature. | |
| DATE DUE <u>6/25/14</u> | | RESULTS BY: E-MAIL | | FAX | | PHONE CALL | | PHONE/FAX# IF DIFFERENT FROM ABOVE | | 6 | | 8 COMMENTS: (FOR LAB USE ONLY) | |
| 7 RELINQUISHED BY: (SIGNATURE) | | DATE | | TIME | | RECEIVED BY: | | DATE | | TIME | | SAMPLE TEMPERATURE UPON RECEIPT CHILL PROCESS STARTED PRIOR TO RECEIPT SAMPLE(S) RECEIVED ON ICE PROPER BOTTLES RECEIVED IN GOOD CONDITION BOTTLES FILLED WITH ADEQUATE VOLUME SAMPLES RECEIVED WITHIN HOLD TIME(S) (EXCLUDES TYPICAL FIELD PARAMETERS) DATE AND TIME TAKEN FROM SAMPLE BOTTLE | |
| <u>[Signature]</u> | | <u>6-24-14</u> | | <u>10:55am</u> | | <u>[Signature]</u> | | <u>6-24-14</u> | | <u>10:55</u> | | | |
| <u>[Signature]</u> | | <u>6-24-14</u> | | <u>11:20</u> | | <u>[Signature]</u> | | <u>6-24-14</u> | | <u>11:20</u> | | | |
| <u>[Signature]</u> | | DATE | | TIME | | RECEIVED BY: | | DATE | | TIME | | | |

Thank you for using PDC Laboratories, Inc. Locations in Peoria, IL; St. Louis, MO; and Springfield, MO



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/25/14 11:20
Report Date: 06/26/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Sample No: **4063550-01**
Sample Description: **Tank 3 Start-Up**

Collect Date: **06/25/14 08:35**
Matrix: **Waste Water Grab**

| Parameters | Result | Qual | Analysis Date | Analyst | Method |
|--|-----------|------|----------------|---------|---------------------------|
| <u>Anions - STL</u> | | | | | |
| Nitrate-N | 250 mg/L | | 06/25/14 12:51 | DWM | EPA 300.0 R2.1 04KS |
| Nitrite-N | < 25 mg/L | | 06/25/14 12:51 | DWM | EPA 300.0 R2.1 04KS |
| <u>General Chemistry - STL</u> | | | | | |
| COD | 2400 mg/L | | 06/26/14 09:04 | DAW | SM 5220D 18Ed 04KS |
| Solids - total suspended solids (TSS) | 3100 mg/L | | 06/25/14 12:30 | DAW | SM 2540D 18Ed 04KS |
| Solids - total volatile suspended solids | 1300 mg/L | | 06/26/14 08:15 | DAW | SM 2540E 18Ed* |
| <u>Nutrients - STL</u> | | | | | |
| Ammonia-N | 0.31 mg/L | | 06/25/14 11:30 | ACV | SM(18) 4500 NH3 04KS F |

Sample No: **4063550-02**
Sample Description: **Tank 2 Start-Up**

Collect Date: **06/25/14 08:31**
Matrix: **Waste Water**

| Parameters | Result | Qual | Analysis Date | Analyst | Method |
|---------------------------------------|------------|------|----------------|---------|---------------------------|
| <u>General Chemistry - STL</u> | | | | | |
| COD | 17000 mg/L | | 06/26/14 09:04 | DAW | SM 5220D 18Ed 04KS |
| Solids - total suspended solids (TSS) | 2800 mg/L | | 06/25/14 12:30 | DAW | SM 2540D 18Ed 04KS |
| <u>Nutrients - STL</u> | | | | | |
| Ammonia-N | 300 mg/L | | 06/25/14 11:30 | ACV | SM(18) 4500 NH3 04KS F |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/25/14 11:20
Report Date: 06/26/14
Customer #: 277310
PO#: 4167739

Laboratory Results

General Chemistry - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|--|--------|-------|--|---------------|------|-------------|-----|-----------|
| Batch B410477 - 04-No Prep WC | | | | | | | | |
| Blank (B410477-BLK1) | | | Prepared & Analyzed: 06/25/14 | | | | | |
| Solids - total suspended solids (TSS) | < 2.0 | mg/L | | | | | | |
| LCS (B410477-BS1) | | | Prepared & Analyzed: 06/25/14 | | | | | |
| Solids - total suspended solids (TSS) | 99.0 | mg/L | 100.0 | | 99 | 82.9-110 | | |
| Duplicate (B410477-DUP1) | | | Source: 4063550-01 Prepared & Analyzed: 06/25/14 | | | | | |
| Solids - total suspended solids (TSS) | 3200 | mg/L | | 3060 | | | 4 | 5 |
| Batch B410529 - 04-No Prep WC | | | | | | | | |
| Duplicate (B410529-DUP1) | | | Source: 4063550-01 Prepared & Analyzed: 06/26/14 | | | | | |
| Solids - total volatile suspended solids | 1360 | mg/L | | 1340 | | | 1 | 5 |
| Batch B410534 - 04-No Prep WC | | | | | | | | |
| Calibration Blank (B410534-CCB1) | | | Prepared: 06/25/14 Analyzed: 06/26/14 | | | | | |
| COD | -0.527 | mg/L | | | | | | |
| Calibration Blank (B410534-CCB2) | | | Prepared: 06/25/14 Analyzed: 06/26/14 | | | | | |
| COD | -5.07 | mg/L | | | | | | |
| Calibration Check (B410534-CCV1) | | | Prepared: 06/25/14 Analyzed: 06/26/14 | | | | | |
| COD | 99.0 | mg/L | 100.0 | | 99 | 95-105 | | |
| Calibration Check (B410534-CCV2) | | | Prepared: 06/25/14 Analyzed: 06/26/14 | | | | | |
| COD | 484 | mg/L | 500.0 | | 97 | 95-105 | | |
| Duplicate (B410534-DUP1) | | | Source: 4063597-01 Prepared: 06/25/14 Analyzed: 06/26/14 | | | | | |
| COD | 5.48 | mg/L | | 5.22 | | | 5 | 20 |
| Duplicate (B410534-DUP2) | | | Source: 4063469-01 Prepared: 06/25/14 Analyzed: 06/26/14 | | | | | |
| COD | 999 | mg/L | | 1010 | | | 0.9 | 20 |
| Nutrients - Quality Control | | | | | | | | |
| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
| Batch B410510 - 04-No Prep WC | | | | | | | | |
| Calibration Blank (B410510-CCB1) | | | Prepared & Analyzed: 06/25/14 | | | | | |
| Ammonia-N | 0.00 | mg/L | | | | | | |
| Calibration Check (B410510-CCV1) | | | Prepared & Analyzed: 06/25/14 | | | | | |
| Ammonia-N | 10.0 | mg/L | 10.00 | | 100 | 90-110 | | |
| Matrix Spike (B410510-MS1) | | | Source: 4063470-02 Prepared & Analyzed: 06/25/14 | | | | | |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/25/14 11:20
Report Date: 06/26/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Nutrients - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|--|--------|-------|---------------------------|---------------|-------------------------------|-------------|-----|-----------|
| Batch B410510 - 04-No Prep WC | | | | | | | | |
| Matrix Spike (B410510-MS1) | | | Source: 4063470-02 | | Prepared & Analyzed: 06/25/14 | | | |
| Ammonia-N | 9.92 | mg/L | 10.00 | 0.100 | 98 | 80-120 | | |
| Matrix Spike Dup (B410510-MSD1) | | | Source: 4063470-02 | | Prepared & Analyzed: 06/25/14 | | | |
| Ammonia-N | 9.98 | mg/L | 10.00 | 0.100 | 99 | 80-120 | 0.6 | 20 |

Anions - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|--------|-------|-------------------------------|---------------|-------------------------------|-------------|------|-----------|
| Batch B410535 - 04-IC No Prep | | | | | | | | |
| Calibration Blank (B410535-CCB1) | | | Prepared & Analyzed: 06/25/14 | | | | | |
| Nitrate-N | 0.00 | mg/L | | | | | | |
| Nitrite-N | 0.00 | mg/L | | | | | | |
| Calibration Check (B410535-CCV1) | | | Prepared & Analyzed: 06/25/14 | | | | | |
| Nitrate-N | 1.20 | mg/L | 1.130 | | 107 | 90-110 | | |
| Nitrite-N | 2.13 | mg/L | 2.000 | | 106 | 90-110 | | |
| Matrix Spike (B410535-MS1) | | | Source: 4063174-03 | | Prepared & Analyzed: 06/25/14 | | | |
| Nitrate-N | Q1 120 | mg/L | 113.0 | 35 | 77 | 80-120 | | |
| Nitrite-N | 264 | mg/L | 250.0 | ND | 106 | 80-120 | | |
| Matrix Spike Dup (B410535-MSD1) | | | Source: 4063174-03 | | Prepared & Analyzed: 06/25/14 | | | |
| Nitrite-N | 264 | mg/L | 250.0 | ND | 106 | 80-120 | 0.04 | 20 |
| Nitrate-N | Q2 120 | mg/L | 113.0 | 35 | 76 | 80-120 | 0.6 | 20 |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/25/14 11:20
Report Date: 06/26/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Notes

This report shall not be reproduced, except in full, without the written approval of the laboratory.

PDC Laboratories participates in the following accreditation/certification and proficiency programs at the following locations. Endorsement by Federal or State Governments or their agencies is not implied.

- PIA PDC Laboratories - Peoria, IL
NELAC Accreditation for Drinking Water, Wastewater, Hazardous and Solid Wastes Fields of Testing through IL EPA Lab No. 100230
Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 17553
Drinking Water Certifications: Kansas (E-10338); Missouri (870); Wisconsin (998284430); Iowa (240)
Wastewater Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
Hazardous/Solid Waste Certifications; Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
UST Certification; Iowa (240)
- SPM PDC Laboratories - Springfield, MO
EPA DMR-QA Program
- STL PDC Laboratories - St. Louis, MO
TNI Accreditation for Wastewater, Hazardous and Solid Wastes Fields of Testing through KS Lab No. E-10389
Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 171050
Drinking Water Certifications: Missouri (1050)
Missouri Department of Natural Resources

- Q2 MSD failed %R
- Q1 MS Failed %R

Certified by: Roxann Shull, Client Services Supervisor



PDC Laboratories, Inc. – St. Louis
3278 N. Highway 67 (Lindbergh)
Florissant, MO 63033
 www.pdclab.com

CHAIN OF CUSTODY RECORD
 Phone (314) 432-0550 or (314) 921-4488
 Fax (314) 432-4977

State where samples collected MO

(Instructions/Sample Acceptance Policy on Reverse)

ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

| | | | | | | | | |
|---|----------------------|------------------------|---|---|---|----------------------|--|--|
| 1 CLIENT <u>BARR/BRIDGETON LF</u> | PROJECT NUMBER | P. O. NUMBER | MEANS SHIPPED | 3 ANALYSIS REQUESTED <u>CO₃ + AMMONIA</u> <u>TSS/TSS + NITRATE/NITRATE</u> <u>TSS</u> | 4 (FOR LAB USE ONLY) LOGIN # <u>4063550</u> LOGGED BY: <u>HC</u> LAB PROJ. # TEMPLATE: PROJ. MGR.: | | | |
| | ADDRESS | PHONE NUMBER | FAX NUMBER | | | EMAIL ADDRESS | | |
| | CITY STATE ZIP | SAMPLER | MATRIX TYPES: WW-WASTEWATER DW-DRINKING WATER GW-GROUND WATER WWSL-SLUDGE NAS-SOLID L'CHT-LEACHATE NAL-NON-AQUEOUS SOIL-SOILS | | | | | |
| | CONTACT PERSON | SAMPLER'S SIGNATURE | | | | | | |
| 2 SAMPLE DESCRIPTION AS YOU WANT ON REPORT | DATE COLLECTED | TIME COLLECTED | SAMPLE TYPE GRAB | MATRIX COMP | Bottle TYPE | Count | REMARKS | |
| | <u>6/25/14</u> | <u>0835</u> | <input checked="" type="checkbox"/> | <u>LCHT</u> | | <u>2</u> | | |
| | <u>6/25/14</u> | <u>0831</u> | <input checked="" type="checkbox"/> | <u>LCHT</u> | | <u>2</u> | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| 5 TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE) NORMAL (8-10 Bus. Days) RUSH (5 Bus. Days) <u>Fastrak™ (3 Bus. Days)</u> <u>1-2 Bus. Days</u> Same Day DATE DUE <u>6/26/14</u> | | | | 6 The sample temperature will be measured upon receipt at the lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature. | | | | |
| 7 RELINQUISHED BY: (SIGNATURE) <u>[Signature]</u> | | DATE <u>6-25-14</u> | TIME <u>10:40a</u> | RECEIVED BY: <u>[Signature]</u> | DATE <u>6-25-14</u> | TIME <u>10:40</u> | 8 COMMENTS:(FOR LAB USE ONLY) SAMPLE TEMPERATURE UPON RECEIPT <u>11.4</u> CHILL PROCESS STARTED PRIOR TO RECEIPT SAMPLE(S) RECEIVED ON ICE PROPER BOTTLES RECEIVED IN GOOD CONDITION BOTTLES FILLED WITH ADEQUATE VOLUME SAMPLES RECEIVED WITHIN HOLD TIME(S) (EXCLUDES TYPICAL FIELD PARAMETERS) DATE AND TIME TAKEN FROM SAMPLE BOTTLE | |
| RELINQUISHED BY: (SIGNATURE) <u>[Signature]</u> | | DATE <u>6-25-14</u> | TIME <u>11:05</u> | RECEIVED BY: <u>[Signature]</u> | DATE <u>6/25/14</u> | TIME <u>11:05</u> | | |
| RELINQUISHED BY: (SIGNATURE) | | DATE | TIME | RECEIVED BY: | DATE | TIME | | |
| RELINQUISHED BY: (SIGNATURE) | | DATE | TIME | RECEIVED BY: | DATE | TIME | | |

Thank you for using PDC Laboratories, Inc. Locations in Peoria, IL; St. Louis, MO; and Springfield, MO



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/26/14 10:34
Report Date: 07/07/14
Customer #: 277310
PO#: 4167739

Revised Laboratory Results

Sample No: **4063765-01**
Sample Description: **Tank 3 Start-Up**

Collect Date: **06/26/14 09:18**
Matrix: **Waste Water Grab**

| Parameters | Result | Qual | Analysis Date | Analyst | Method |
|--|-----------|------|----------------|---------|------------------------|
| <u>Anions - STL</u> | | | | | |
| Nitrate-N | 250 mg/L | | 06/27/14 10:50 | DWM | EPA 300.0 R2.1 04KS |
| Nitrite-N | < 25 mg/L | | 06/27/14 10:50 | DWM | EPA 300.0 R2.1 04KS |
| <u>General Chemistry - STL</u> | | | | | |
| COD | 2300 mg/L | | 06/27/14 14:21 | DAW | SM 5220D 18Ed 04KS |
| Solids - total suspended solids (TSS) | 3000 mg/L | | 06/26/14 16:10 | DAW | SM 2540D 18Ed 04KS |
| Solids - total volatile suspended solids | 1100 mg/L | | 06/27/14 13:45 | DAW | SM 2540E 18Ed* |
| <u>Nutrients - STL</u> | | | | | |
| Ammonia-N | 0.32 mg/L | | 06/27/14 13:00 | ACV | SM(18) 4500 NH3 F 04KS |
| <u>Soluble Metals - STL</u> | | | | | |
| Zinc | 0.15 mg/L | | 06/27/14 15:59 | KAE | EPA 200.7 R4.4 04KS |
| <u>Soluble Nutrients - STL</u> | | | | | |
| Phosphorus - ortho as P | 1.9 mg/L | | 06/26/14 13:45 | ACV | SM 4500P B E 18ed* |
| <u>Total Metals - STL</u> | | | | | |
| Zinc | 2.1 mg/L | | 06/27/14 16:04 | KAE | EPA 200.7 R4.4 04KS |

Sample No: **4063765-02**
Sample Description: **Tank 2 Start-Up**

Collect Date: **06/26/14 09:35**
Matrix: **Waste Water**

| Parameters | Result | Qual | Analysis Date | Analyst | Method |
|---------------------------------------|------------|------|----------------|---------|------------------------|
| <u>General Chemistry - STL</u> | | | | | |
| COD | 24000 mg/L | | 06/27/14 14:20 | DAW | SM 5220D 18Ed 04KS |
| Solids - total suspended solids (TSS) | 1300 mg/L | | 06/26/14 16:10 | DAW | SM 2540D 18Ed 04KS |
| <u>Nutrients - STL</u> | | | | | |
| Ammonia-N | 290 mg/L | | 06/27/14 13:00 | ACV | SM(18) 4500 NH3 F 04KS |
| <u>Soluble Metals - STL</u> | | | | | |
| Zinc | 2.0 mg/L | | 06/27/14 16:06 | KAE | EPA 200.7 R4.4 04KS |
| <u>Total Metals - STL</u> | | | | | |
| Zinc | 2.4 mg/L | | 06/27/14 16:07 | KAE | EPA 200.7 R4.4 04KS |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/26/14 10:34
Report Date: 07/07/14
Customer #: 277310
PO#: 4167739

Revised Laboratory Results

General Chemistry - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---------|--------|-------|-------------|---------------|------|-------------|-----|-----------|
|---------|--------|-------|-------------|---------------|------|-------------|-----|-----------|

Batch B410590 - 04-No Prep WC

| | | | | | | | | |
|---------------------------------------|-------|------|--|------|----|----------|---|---|
| Blank (B410590-BLK1) | | | Prepared & Analyzed: 06/26/14 | | | | | |
| Solids - total suspended solids (TSS) | < 2.0 | mg/L | | | | | | |
| LCS (B410590-BS1) | | | Prepared & Analyzed: 06/26/14 | | | | | |
| Solids - total suspended solids (TSS) | 99.0 | mg/L | 100.0 | | 99 | 82.9-110 | | |
| Duplicate (B410590-DUP1) | | | Source: 4063765-01 Prepared & Analyzed: 06/26/14 | | | | | |
| Solids - total suspended solids (TSS) | 2960 | mg/L | | 3020 | | | 2 | 5 |
| Duplicate (B410590-DUP2) | | | Source: 4063793-01 Prepared & Analyzed: 06/26/14 | | | | | |
| Solids - total suspended solids (TSS) | 1500 | mg/L | | 1540 | | | 3 | 5 |

Batch B410684 - 04-No Prep WC

| | | | | | | | | |
|---|--------|------|--|-------|----|--------|-----|----|
| Calibration Blank (B410684-CCB1) | | | Prepared & Analyzed: 06/27/14 | | | | | |
| COD | -0.527 | mg/L | | | | | | |
| Calibration Blank (B410684-CCB2) | | | Prepared & Analyzed: 06/27/14 | | | | | |
| COD | -5.07 | mg/L | | | | | | |
| Calibration Check (B410684-CCV1) | | | Prepared & Analyzed: 06/27/14 | | | | | |
| COD | 99.5 | mg/L | 100.0 | | 99 | 95-105 | | |
| Calibration Check (B410684-CCV2) | | | Prepared & Analyzed: 06/27/14 | | | | | |
| COD | 495 | mg/L | 500.0 | | 99 | 95-105 | | |
| Duplicate (B410684-DUP1) | | | Source: 4063809-01 Prepared & Analyzed: 06/27/14 | | | | | |
| COD | 19.6 | mg/L | | 19.1 | | | 3 | 20 |
| Duplicate (B410684-DUP2) | | | Source: 4063765-02 Prepared & Analyzed: 06/27/14 | | | | | |
| COD | 24000 | mg/L | | 23900 | | | 0.5 | 20 |

Batch B410689 - 04-No Prep WC

| | | | | | | | | |
|--|------|------|--|------|--|--|---|---|
| Duplicate (B410689-DUP1) | | | Source: 4063765-01 Prepared & Analyzed: 06/27/14 | | | | | |
| Solids - total volatile suspended solids | 1100 | mg/L | | 1080 | | | 2 | 5 |
| Duplicate (B410689-DUP2) | | | Source: 4063932-01 Prepared & Analyzed: 06/27/14 | | | | | |
| Solids - total volatile suspended solids | 1340 | mg/L | | 1320 | | | 2 | 5 |

Nutrients - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---------|--------|-------|-------------|---------------|------|-------------|-----|-----------|
|---------|--------|-------|-------------|---------------|------|-------------|-----|-----------|

Batch B410679 - 04-No Prep WC



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/26/14 10:34
Report Date: 07/07/14
Customer #: 277310
PO#: 4167739

Revised Laboratory Results

Nutrients - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|--|--------|-------|-------------------------------|---------------|------|-------------|-----|-----------|
| Batch B410679 - 04-No Prep WC | | | | | | | | |
| Blank (B410679-BLK1) | | | Prepared & Analyzed: 06/27/14 | | | | | |
| Ammonia-N | < 0.10 | mg/L | | | | | | |
| LCS (B410679-BS1) | | | Prepared & Analyzed: 06/27/14 | | | | | |
| Ammonia-N | 10.1 | mg/L | 10.00 | | 101 | 80-120 | | |
| Matrix Spike (B410679-MS1) | | | Prepared & Analyzed: 06/27/14 | | | | | |
| Ammonia-N | 9.92 | mg/L | 10.00 | 0.0759 | 98 | 80-120 | | |
| Matrix Spike Dup (B410679-MSD1) | | | Prepared & Analyzed: 06/27/14 | | | | | |
| Ammonia-N | 9.98 | mg/L | 10.00 | 0.0759 | 99 | 80-120 | 0.6 | 20 |

Soluble Nutrients - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|--|---------|-------|-------------------------------|---------------|------|-------------|-----|-----------|
| Batch B410606 - 04-No Prep WC | | | | | | | | |
| Blank (B410606-BLK1) | | | Prepared & Analyzed: 06/26/14 | | | | | |
| Phosphorus - ortho as P | < 0.050 | mg/L | | | | | | |
| LCS (B410606-BS1) | | | Prepared & Analyzed: 06/26/14 | | | | | |
| Phosphorus - ortho as P | 0.515 | mg/L | 0.5000 | | 103 | 80-120 | | |
| Matrix Spike (B410606-MS1) | | | Prepared & Analyzed: 06/26/14 | | | | | |
| Phosphorus - ortho as P | 2.34 | mg/L | 0.5000 | 1.90 | 88 | 80-120 | | |
| Matrix Spike Dup (B410606-MSD1) | | | Prepared & Analyzed: 06/26/14 | | | | | |
| Phosphorus - ortho as P | 2.34 | mg/L | 0.5000 | 1.90 | 88 | 80-120 | 0 | 20 |

Total Metals - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|--|---------|-------|---------------------------------------|---------------|------|-------------|-----|-----------|
| Batch B410558 - 04 EPA 200.2 R2.8 | | | | | | | | |
| Blank (B410558-BLK1) | | | Prepared: 06/26/14 Analyzed: 06/27/14 | | | | | |
| Zinc | < 0.020 | mg/L | | | | | | |
| LCS (B410558-BS1) | | | Prepared: 06/26/14 Analyzed: 06/27/14 | | | | | |
| Zinc | 0.218 | mg/L | 0.2000 | | 109 | 85-115 | | |
| Matrix Spike (B410558-MS1) | | | Prepared: 06/26/14 Analyzed: 06/27/14 | | | | | |
| Zinc | 1.32 | mg/L | 1.000 | 2.12 | NR | 70-130 | | |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/26/14 10:34
Report Date: 07/07/14
Customer #: 277310
PO#: 4167739

Revised Laboratory Results

Soluble Metals - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|--|---------|-------|---------------------------------------|---------------|------|-------------|-----|-----------|
| Batch B410558 - 04 EPA 200.2 R2.8 | | | | | | | | |
| Blank (B410558-BLK1) | | | Prepared: 06/26/14 Analyzed: 06/27/14 | | | | | |
| Zinc | < 0.020 | mg/L | | | | | | |
| LCS (B410558-BS1) | | | Prepared: 06/26/14 Analyzed: 06/27/14 | | | | | |
| Zinc | 0.218 | mg/L | 0.2000 | | 109 | 85-115 | | |
| Matrix Spike (B410558-MS1) | | | Prepared: 06/26/14 Analyzed: 06/27/14 | | | | | |
| Zinc | 1.32 | mg/L | 1.000 | 0.147 | 117 | 70-130 | | |
| Matrix Spike Dup (B410558-MSD1) | | | Prepared: 06/26/14 Analyzed: 06/27/14 | | | | | |
| Zinc | 1.32 | mg/L | 1.000 | 0.147 | 118 | 70-130 | 0.6 | 20 |

Anions - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|--------|-------|---------------------------------------|---------------|------|-------------|-----|-----------|
| Batch B410656 - 04-IC No Prep | | | | | | | | |
| Calibration Blank (B410656-CCB1) | | | Prepared & Analyzed: 06/27/14 | | | | | |
| Nitrate-N | 0.356 | mg/L | | | | | | |
| Nitrite-N | 0.00 | mg/L | | | | | | |
| Calibration Check (B410656-CCV1) | | | Prepared & Analyzed: 06/27/14 | | | | | |
| Nitrate-N | 1.19 | mg/L | 1.130 | | 105 | 90-110 | | |
| Nitrite-N | 2.10 | mg/L | 2.000 | | 105 | 90-110 | | |
| Matrix Spike (B410656-MS1) | | | Prepared: 06/27/14 Analyzed: 06/30/14 | | | | | |
| Nitrite-N | 231 | mg/L | 250.0 | ND | 92 | 80-120 | | |
| Nitrate-N | 120 | mg/L | 113.0 | ND | 107 | 80-120 | | |
| Matrix Spike Dup (B410656-MSD1) | | | Prepared: 06/27/14 Analyzed: 06/30/14 | | | | | |
| Nitrate-N | 120 | mg/L | 113.0 | ND | 106 | 80-120 | 0.7 | 20 |
| Nitrite-N | 225 | mg/L | 250.0 | ND | 90 | 80-120 | 3 | 20 |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/26/14 10:34
Report Date: 07/07/14
Customer #: 277310
PO#: 4167739

Revised Laboratory Results

Notes

This report shall not be reproduced, except in full, without the written approval of the laboratory.

PDC Laboratories participates in the following accreditation/certification and proficiency programs at the following locations. Endorsement by Federal or State Governments or their agencies is not implied.

- PIA PDC Laboratories - Peoria, IL
NELAC Accreditation for Drinking Water, Wastewater, Hazardous and Solid Wastes Fields of Testing through IL EPA Lab No. 100230
Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 17553
Drinking Water Certifications: Kansas (E-10338); Missouri (870); Wisconsin (998284430); Iowa (240)
Wastewater Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
Hazardous/Solid Waste Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
UST Certification; Iowa (240)
- SPM PDC Laboratories - Springfield, MO
EPA DMR-QA Program
- STL PDC Laboratories - St. Louis, MO
NELAC Accreditation for Wastewater, Hazardous and Solid Wastes Fields of Testing
Drinking Water Certifications: Kansas (E-10389)

Certified by: Roxann Shull, Client Services Supervisor



PDC Laboratories, Inc. – St. Louis
 3278 N. Highway 67 (Lindbergh)
 Florissant, MO 63033
 www.pdclab.com

CHAIN OF CUSTODY RECORD
 Phone (314) 432-0550 or (314) 921-4488
 Fax (314) 432-4977

State where samples collected _____

(Instructions/Sample Acceptance Policy on Reverse)

ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

| | | | | | | | | | | | | |
|---|--|---|---|---|------------------------------------|-----------------------|--|--|--|---|--|--|
| 1 CLIENT Base/Bridgeton 4# ADDRESS CITY STATE ZIP CONTACT PERSON | | PROJECT NUMBER P.O. NUMBER MEANS SHIPPED | PHONE NUMBER FAX NUMBER EMAIL ADDRESS | 3 ANALYSIS REQUESTED CO ₂ + Ammonia TSS/As + Nitrate/Nitrite Total Zn Diss Zn Diss orthophosphate TSS | | | | | | 4 (FOR LAB USE ONLY) LOGIN # 4063765 LOGGED BY: HSE LAB PROJ. # TEMPLATE: PROJ. MGR.: | | |
| 2 SAMPLE DESCRIPTION AS YOU WANT ON REPORT | | DATE COLLECTED | TIME COLLECTED | SAMPLE TYPE GRAB | MATRIX COMP | Bottle Count | REMARKS | | | | | |
| T3 startup | | 6/26/14 | 9:18 | ✓ | LHT | 5 | | | | | | |
| T2 startup | | 6/26/14 | 9:35 | ✓ | LHT | 4 | | | | | | |
| 5 TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE) NORMAL (8-10 Bus. Days) RUSH (5 Bus. Days) Fastrak™ (3 Bus. Days) 1-2 Bus. Days Same Day DATE DUE 6/27/14 | | 6 The sample temperature will be measured upon receipt at the lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature. | | | | | | | | | | |
| 7 RELINQUISHED BY: (SIGNATURE) Hunter Vis Kenney RELINQUISHED BY: (SIGNATURE) RELINQUISHED BY: (SIGNATURE) RELINQUISHED BY: (SIGNATURE) | | DATE 6/26/14 DATE 6/26/14 | TIME 0945 10:10 | RECEIVED BY: Patrick Koenig Heather Cullart | DATE 6/26/14 DATE 6/26/14 | TIME 0945 10:10 | 8 COMMENTS: (FOR LAB USE ONLY) SAMPLE TEMPERATURE UPON RECEIPT CHILL PROCESS STARTED PRIOR TO RECEIPT SAMPLE(S) RECEIVED ON ICE PROPER BOTTLES RECEIVED IN GOOD CONDITION BOTTLES FILLED WITH ADEQUATE VOLUME SAMPLES RECEIVED WITHIN HOLD TIME(S) (EXCLUDES TYPICAL FIELD PARAMETERS) DATE AND TIME TAKEN FROM SAMPLE BOTTLE 2012 Y O R N Y O R N Y O R N Y O R N | | | | | |

Thank you for using PDC Laboratories, Inc. Locations in Peoria, IL; St. Louis, MO; and Springfield, MO



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/27/14 10:34
Report Date: 06/30/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Sample No: **4063932-01**
Sample Description: **Tank 3 Start-Up**

Collect Date: **06/27/14 09:14**
Matrix: **Waste Water Grab**

| Parameters | Result | Qual | Analysis Date | Analyst | Method |
|--|-----------|------|----------------|---------|---------------------------|
| <u>Anions - STL</u> | | | | | |
| Nitrate-N | 260 mg/L | | 06/27/14 11:21 | DWM | EPA 300.0 R2.1 04KS |
| Nitrite-N | < 25 mg/L | | 06/27/14 11:21 | DWM | EPA 300.0 R2.1 04KS |
| <u>General Chemistry - STL</u> | | | | | |
| COD | 2500 mg/L | | 06/27/14 14:21 | DAW | SM 5220D 18Ed 04KS |
| Solids - total suspended solids (TSS) | 3200 mg/L | | 06/27/14 11:28 | DAS/D | SM 2540D 18Ed 04KS |
| Solids - total volatile suspended solids | 1300 mg/L | | 06/27/14 13:45 | DAW | SM 2540E 18Ed* |
| <u>Nutrients - STL</u> | | | | | |
| Ammonia-N | 0.30 mg/L | | 06/27/14 13:00 | ACV | SM(18) 4500 NH3 04KS F |

Sample No: **4063932-02**
Sample Description: **Tank 2 Start-Up**

Collect Date: **06/27/14 09:10**
Matrix: **Waste Water**

| Parameters | Result | Qual | Analysis Date | Analyst | Method |
|---------------------------------------|------------|------|----------------|---------|---------------------------|
| <u>General Chemistry - STL</u> | | | | | |
| COD | 26000 mg/L | | 06/27/14 14:21 | DAW | SM 5220D 18Ed 04KS |
| Solids - total suspended solids (TSS) | 2300 mg/L | | 06/27/14 11:28 | DAS/D | SM 2540D 18Ed 04KS |
| <u>Nutrients - STL</u> | | | | | |
| Ammonia-N | 280 mg/L | | 06/27/14 13:00 | ACV | SM(18) 4500 NH3 04KS F |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/27/14 10:34
Report Date: 06/30/14
Customer #: 277310
PO#: 4167739

Laboratory Results

General Chemistry - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|--|--------|-------|--|---------------|------|-------------|-----|-----------|
| Batch B410653 - 04-No Prep WC | | | | | | | | |
| Blank (B410653-BLK1) | | | Prepared & Analyzed: 06/27/14 | | | | | |
| Solids - total suspended solids (TSS) | < 2.0 | mg/L | | | | | | |
| LCS (B410653-BS1) | | | Prepared & Analyzed: 06/27/14 | | | | | |
| Solids - total suspended solids (TSS) | 98.0 | mg/L | 100.0 | | 98 | 82.9-110 | | |
| Duplicate (B410653-DUP1) | | | Source: 4063932-01 Prepared & Analyzed: 06/27/14 | | | | | |
| Solids - total suspended solids (TSS) | 3140 | mg/L | | 3160 | | | 0.6 | 5 |
| Batch B410684 - 04-No Prep WC | | | | | | | | |
| Calibration Blank (B410684-CCB1) | | | Prepared & Analyzed: 06/27/14 | | | | | |
| COD | -0.527 | mg/L | | | | | | |
| Calibration Blank (B410684-CCB2) | | | Prepared & Analyzed: 06/27/14 | | | | | |
| COD | -5.07 | mg/L | | | | | | |
| Calibration Check (B410684-CCV1) | | | Prepared & Analyzed: 06/27/14 | | | | | |
| COD | 99.5 | mg/L | 100.0 | | 99 | 95-105 | | |
| Calibration Check (B410684-CCV2) | | | Prepared & Analyzed: 06/27/14 | | | | | |
| COD | 495 | mg/L | 500.0 | | 99 | 95-105 | | |
| Duplicate (B410684-DUP1) | | | Source: 4063809-01 Prepared & Analyzed: 06/27/14 | | | | | |
| COD | 19.6 | mg/L | | 19.1 | | | 3 | 20 |
| Duplicate (B410684-DUP2) | | | Source: 4063765-02 Prepared & Analyzed: 06/27/14 | | | | | |
| COD | 24000 | mg/L | | 23900 | | | 0.5 | 20 |
| Batch B410689 - 04-No Prep WC | | | | | | | | |
| Duplicate (B410689-DUP1) | | | Source: 4063765-01 Prepared & Analyzed: 06/27/14 | | | | | |
| Solids - total volatile suspended solids | 1100 | mg/L | | 1080 | | | 2 | 5 |
| Duplicate (B410689-DUP2) | | | Source: 4063932-01 Prepared & Analyzed: 06/27/14 | | | | | |
| Solids - total volatile suspended solids | 1340 | mg/L | | 1320 | | | 2 | 5 |
| Nutrients - Quality Control | | | | | | | | |
| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
| Batch B410679 - 04-No Prep WC | | | | | | | | |
| Blank (B410679-BLK1) | | | Prepared & Analyzed: 06/27/14 | | | | | |
| Ammonia-N | < 0.10 | mg/L | | | | | | |

4063932



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/27/14 10:34
Report Date: 06/30/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Nutrients - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|--|--------|-------|--|---------------|------|-------------|-----|-----------|
| Batch B410679 - 04-No Prep WC | | | | | | | | |
| LCS (B410679-BS1) | | | Prepared & Analyzed: 06/27/14 | | | | | |
| Ammonia-N | 10.1 | mg/L | 10.00 | | 101 | 80-120 | | |
| Matrix Spike (B410679-MS1) | | | Source: 4063857-02 Prepared & Analyzed: 06/27/14 | | | | | |
| Ammonia-N | 9.92 | mg/L | 10.00 | 0.0759 | 98 | 80-120 | | |
| Matrix Spike Dup (B410679-MSD1) | | | Source: 4063857-02 Prepared & Analyzed: 06/27/14 | | | | | |
| Ammonia-N | 9.98 | mg/L | 10.00 | 0.0759 | 99 | 80-120 | 0.6 | 20 |

Anions - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|--------|-------|--|---------------|------|-------------|-----|-----------|
| Batch B410656 - 04-IC No Prep | | | | | | | | |
| Calibration Blank (B410656-CCB1) | | | Prepared & Analyzed: 06/27/14 | | | | | |
| Nitrite-N | 0.00 | mg/L | | | | | | |
| Nitrate-N | 0.356 | mg/L | | | | | | |
| Calibration Check (B410656-CCV1) | | | Prepared & Analyzed: 06/27/14 | | | | | |
| Nitrite-N | 2.10 | mg/L | 2.000 | | 105 | 90-110 | | |
| Nitrate-N | 1.19 | mg/L | 1.130 | | 105 | 90-110 | | |
| Matrix Spike (B410656-MS1) | | | Source: 4063296-01 Prepared & Analyzed: 06/27/14 | | | | | |
| Nitrite-N | 231 | mg/L | 250.0 | 20.9 | 84 | 80-120 | | |
| Nitrate-N | 120 | mg/L | 113.0 | ND | 107 | 80-120 | | |
| Matrix Spike Dup (B410656-MSD1) | | | Source: 4063296-01 Prepared & Analyzed: 06/27/14 | | | | | |
| Nitrate-N | 120 | mg/L | 113.0 | ND | 106 | 80-120 | 0.7 | 20 |
| Nitrite-N | 225 | mg/L | 250.0 | 20.9 | 82 | 80-120 | 3 | 20 |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/27/14 10:34
Report Date: 06/30/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Notes

This report shall not be reproduced, except in full, without the written approval of the laboratory.

PDC Laboratories participates in the following accreditation/certification and proficiency programs at the following locations. Endorsement by Federal or State Governments or their agencies is not implied.

- PIA PDC Laboratories - Peoria, IL
NELAC Accreditation for Drinking Water, Wastewater, Hazardous and Solid Wastes Fields of Testing through IL EPA Lab No. 100230
Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 17553
Drinking Water Certifications: Kansas (E-10338); Missouri (870); Wisconsin (998284430); Iowa (240)
Wastewater Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
Hazardous/Solid Waste Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
UST Certification; Iowa (240)
- SPM PDC Laboratories - Springfield, MO
EPA DMR-QA Program
- STL PDC Laboratories - St. Louis, MO
TNI Accreditation for Wastewater, Hazardous and Solid Wastes Fields of Testing through KS Lab No. E-10389
Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 171050
Drinking Water Certifications: Missouri (1050)
Missouri Department of Natural Resources

Certified by: Barb Pandolfo For Roxann Shull, Client Services Supervisor



PDC Laboratories, Inc. – St. Louis
3278 N. Highway 67 (Lindbergh)
Florissant, MO 63033
 www.pdclab.com

CHAIN OF CUSTODY RECORD
 Phone (314) 432-0550 or (314) 921-4488
 Fax (314) 432-4977

State where samples collected _____
 (Instructions/Sample Acceptance Policy on Reverse)

ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

| 1 | CLIENT <i>Barr/Bridgeton</i> | PROJECT NUMBER | P. O. NUMBER | MEANS SHIPPED | 3 | ANALYSIS REQUESTED | | | | 4 (FOR LAB USE ONLY) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|--|-------------------------------------|------------------------|--|---|---|-------------|----------------------|-----------|-------------|----------------|----------------|------|------|-------------|--------------|----------------|-------------|-------------------------------------|--|-------------|----------|----------------|-------------|-------------------------------------|--|-------------|----------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | ADDRESS | PHONE NUMBER | FAX NUMBER | EMAIL ADDRESS | | <i>CON + Ammonia TSS/VSS + Nitrate/Nitrite TSS</i> | LOGIN # <i>4063932</i> | LOGGED BY: <i>HE</i> | LAB PROJ. # | | TEMPLATE: | PROJ. MGR.: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | CITY STATE ZIP | SAMPLER <i>Hunter King</i> | MATRIX TYPES: WW-WASTEWATER DW-DRINKING WATER GW-GROUND WATER WWSL-SLUDGE NAS-SOLID L'CHT-LEACHATE NAL-NONAQUEOUS SOIL-SOILS | | | | REMARKS | <table border="1"> <thead> <tr> <th>DATE COLLECTED</th> <th>TIME COLLECTED</th> <th>GRAB</th> <th>COMP</th> <th>MATRIX TYPE</th> <th>Bottle Count</th> </tr> </thead> <tbody> <tr> <td><i>6/27/14</i></td> <td><i>9:14</i></td> <td><input checked="" type="checkbox"/></td> <td></td> <td><i>LCHT</i></td> <td><i>2</i></td> </tr> <tr> <td><i>6/27/14</i></td> <td><i>9:30</i></td> <td><input checked="" type="checkbox"/></td> <td></td> <td><i>LCHT</i></td> <td><i>2</i></td> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table> | | | | | DATE COLLECTED | TIME COLLECTED | GRAB | COMP | MATRIX TYPE | Bottle Count | <i>6/27/14</i> | <i>9:14</i> | <input checked="" type="checkbox"/> | | <i>LCHT</i> | <i>2</i> | <i>6/27/14</i> | <i>9:30</i> | <input checked="" type="checkbox"/> | | <i>LCHT</i> | <i>2</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | DATE COLLECTED | TIME COLLECTED | GRAB | COMP | MATRIX TYPE | Bottle Count | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>6/27/14</i> | <i>9:14</i> | <input checked="" type="checkbox"/> | | <i>LCHT</i> | <i>2</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>6/27/14</i> | <i>9:30</i> | <input checked="" type="checkbox"/> | | <i>LCHT</i> | <i>2</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE) NORMAL (8-10 Bus. Days) RUSH (5 Bus. Days) <i>Fastrak™</i> (3 Bus. Days) <u>1-2 Bus. Days</u> Same Day DATE DUE <i>6/28/14</i> | The sample temperature will be measured upon receipt at the lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RESULTS BY: E-MAIL FAX PHONE CALL PHONE/FAX# IF DIFFERENT FROM ABOVE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | RELINQUISHED BY: (SIGNATURE) <i>Hunter King</i> | DATE <i>6/27/14</i> | TIME <i>0950</i> | RECEIVED BY: <i>Richard Geny</i> | DATE <i>6/27/14</i> | TIME <i>0950</i> | 8 COMMENTS: (FOR LAB USE ONLY) SAMPLE TEMPERATURE UPON RECEIPT: <i>20.3</i> CHILL PROCESS STARTED PRIOR TO RECEIPT: Y OR N SAMPLE(S) RECEIVED ON ICE: Y OR N PROPER BOTTLES RECEIVED IN GOOD CONDITION: Y OR N BOTTLES FILLED WITH ADEQUATE VOLUME: Y OR N SAMPLES RECEIVED WITHIN HOLD TIME(S) (EXCLUDES TYPICAL FIELD PARAMETERS): Y OR N DATE AND TIME TAKEN FROM SAMPLE BOTTLE: <i>[Signature]</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | RELINQUISHED BY: (SIGNATURE) <i>Richard Geny</i> | DATE <i>6/27/14</i> | TIME <i>1025</i> | RECEIVED BY: <i>Hunter King</i> | DATE <i>6/27/14</i> | TIME <i>1025</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | RELINQUISHED BY: (SIGNATURE) | DATE | TIME | RECEIVED BY: | DATE | TIME | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | RELINQUISHED BY: (SIGNATURE) | DATE | TIME | RECEIVED BY: | DATE | TIME | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Thank you for using PDC Laboratories, Inc. Locations in Peoria, IL; St. Louis, MO; and Springfield, MO

PAGE ____ OF ____



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/28/14 12:50
Report Date: 06/30/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Sample No: **4064079-01**
Sample Description: **Tank 3 Start-Up**

Collect Date: **06/28/14 09:07**
Matrix: **Waste Water Grab**

| Parameters | Result | Qual | Analysis Date | Analyst | Method |
|--|-----------|------|----------------|---------|---------------------------|
| <u>Anions - STL</u> | | | | | |
| Nitrate-N | 140 mg/L | | 06/28/14 13:35 | DWM | EPA 300.0 R2.1 04KS |
| Nitrite-N | < 50 mg/L | | 06/28/14 13:35 | DWM | EPA 300.0 R2.1 04KS |
| <u>General Chemistry - STL</u> | | | | | |
| COD | 2400 mg/L | | 06/28/14 15:36 | DAW | SM 5220D 18Ed 04KS |
| Solids - total suspended solids (TSS) | 3300 mg/L | | 06/30/14 10:17 | DAW | SM 2540D 18Ed 04KS |
| Solids - total volatile suspended solids | 1400 mg/L | | 06/30/14 14:00 | DAW | SM 2540E 18Ed* |
| <u>Nutrients - STL</u> | | | | | |
| Ammonia-N | 0.33 mg/L | | 06/28/14 14:30 | DAW | SM(18) 4500 NH3 F 04KS |

Sample No: **4064079-02**
Sample Description: **Tank 2 Start-Up**

Collect Date: **06/28/14 09:15**
Matrix: **Waste Water**

| Parameters | Result | Qual | Analysis Date | Analyst | Method |
|---------------------------------------|------------|------|----------------|---------|---------------------------|
| <u>General Chemistry - STL</u> | | | | | |
| COD | 23000 mg/L | | 06/28/14 15:36 | DAW | SM 5220D 18Ed 04KS |
| Solids - total suspended solids (TSS) | 2100 mg/L | | 06/30/14 10:17 | DAW | SM 2540D 18Ed 04KS |
| <u>Nutrients - STL</u> | | | | | |
| Ammonia-N | 300 mg/L | | 06/28/14 14:30 | DAW | SM(18) 4500 NH3 F 04KS |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/28/14 12:50
Report Date: 06/30/14
Customer #: 277310
PO#: 4167739

Laboratory Results

General Chemistry - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---------|--------|-------|-------------|---------------|------|-------------|-----|-----------|
|---------|--------|-------|-------------|---------------|------|-------------|-----|-----------|

Batch B410700 - 04-No Prep WC

| | | | | | | | | |
|---------------------------------------|-------|------|--|------|----|----------|-----|---|
| Blank (B410700-BLK1) | | | Prepared & Analyzed: 06/28/14 | | | | | |
| Solids - total suspended solids (TSS) | < 2.0 | mg/L | | | | | | |
| LCS (B410700-BS1) | | | Prepared & Analyzed: 06/28/14 | | | | | |
| Solids - total suspended solids (TSS) | 98.0 | mg/L | 100.0 | | 98 | 82.9-110 | | |
| Duplicate (B410700-DUP1) | | | Source: 4064021-01 Prepared & Analyzed: 06/28/14 | | | | | |
| Solids - total suspended solids (TSS) | 2480 | mg/L | | 2500 | | | 0.8 | 5 |
| Duplicate (B410700-DUP2) | | | Source: 4064079-01 Prepared: 06/28/14 Analyzed: 06/30/14 | | | | | |
| Solids - total suspended solids (TSS) | 3300 | mg/L | | 3260 | | | 1 | 5 |

Batch B410701 - 04-No Prep WC

| | | | | | | | | |
|---|--------|------|--|------|----|--------|---|----|
| Calibration Blank (B410701-CCB1) | | | Prepared & Analyzed: 06/28/14 | | | | | |
| COD | -0.527 | mg/L | | | | | | |
| Calibration Blank (B410701-CCB2) | | | Prepared & Analyzed: 06/28/14 | | | | | |
| COD | -5.07 | mg/L | | | | | | |
| Calibration Check (B410701-CCV1) | | | Prepared & Analyzed: 06/28/14 | | | | | |
| COD | 99.0 | mg/L | 100.0 | | 99 | 95-105 | | |
| Calibration Check (B410701-CCV2) | | | Prepared & Analyzed: 06/28/14 | | | | | |
| COD | 495 | mg/L | 500.0 | | 99 | 95-105 | | |
| Duplicate (B410701-DUP1) | | | Source: 4064056-01 Prepared & Analyzed: 06/28/14 | | | | | |
| COD | 8.09 | mg/L | | 8.61 | | | 6 | 20 |
| Duplicate (B410701-DUP2) | | | Source: 4063991-01 Prepared & Analyzed: 06/28/14 | | | | | |
| COD | 1820 | mg/L | | 1800 | | | 1 | 20 |

Batch B410791 - 04-No Prep WC

| | | | | | | | | |
|--|------|------|--|------|--|--|---|---|
| Duplicate (B410791-DUP1) | | | Source: 4064079-01 Prepared & Analyzed: 06/30/14 | | | | | |
| Solids - total volatile suspended solids | 1400 | mg/L | | 1420 | | | 1 | 5 |
| Duplicate (B410791-DUP2) | | | Source: 4064135-01 Prepared & Analyzed: 06/30/14 | | | | | |
| Solids - total volatile suspended solids | 1400 | mg/L | | 1420 | | | 1 | 5 |

Nutrients - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---------|--------|-------|-------------|---------------|------|-------------|-----|-----------|
|---------|--------|-------|-------------|---------------|------|-------------|-----|-----------|

Batch B410737 - 04-No Prep WC

4064079



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/28/14 12:50
Report Date: 06/30/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Nutrients - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|--|--------|-------|-------------------------------|---------------|------|-------------|-----|-----------|
| Batch B410737 - 04-No Prep WC | | | | | | | | |
| Blank (B410737-BLK1) | | | Prepared & Analyzed: 06/30/14 | | | | | |
| Ammonia-N | < 0.10 | mg/L | | | | | | |
| LCS (B410737-BS1) | | | Prepared & Analyzed: 06/30/14 | | | | | |
| Ammonia-N | 10.2 | mg/L | 10.00 | | 102 | 80-120 | | |
| Matrix Spike (B410737-MS1) | | | Prepared & Analyzed: 06/30/14 | | | | | |
| Ammonia-N | 411 | mg/L | 100.0 | 305 | 106 | 80-120 | | |
| Matrix Spike Dup (B410737-MSD1) | | | Prepared & Analyzed: 06/30/14 | | | | | |
| Ammonia-N | 413 | mg/L | 100.0 | 305 | 108 | 80-120 | 0.5 | 20 |

Anions - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|--------|-------|---------------------------------------|---------------|------|-------------|-----|-----------|
| Batch B410656 - 04-IC No Prep | | | | | | | | |
| Calibration Blank (B410656-CCB1) | | | Prepared & Analyzed: 06/27/14 | | | | | |
| Nitrite-N | 0.00 | mg/L | | | | | | |
| Nitrate-N | 0.356 | mg/L | | | | | | |
| Calibration Check (B410656-CCV1) | | | Prepared & Analyzed: 06/27/14 | | | | | |
| Nitrite-N | 2.10 | mg/L | 2.000 | | 105 | 90-110 | | |
| Nitrate-N | 1.19 | mg/L | 1.130 | | 105 | 90-110 | | |
| Matrix Spike (B410656-MS1) | | | Prepared: 06/27/14 Analyzed: 06/30/14 | | | | | |
| Nitrite-N | 231 | mg/L | 250.0 | ND | 92 | 80-120 | | |
| Nitrate-N | 120 | mg/L | 113.0 | ND | 107 | 80-120 | | |
| Matrix Spike Dup (B410656-MSD1) | | | Prepared: 06/27/14 Analyzed: 06/30/14 | | | | | |
| Nitrate-N | 120 | mg/L | 113.0 | ND | 106 | 80-120 | 0.7 | 20 |
| Nitrite-N | 225 | mg/L | 250.0 | ND | 90 | 80-120 | 3 | 20 |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/28/14 12:50
Report Date: 06/30/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Notes

This report shall not be reproduced, except in full, without the written approval of the laboratory.

PDC Laboratories participates in the following accreditation/certification and proficiency programs at the following locations. Endorsement by Federal or State Governments or their agencies is not implied.

- PIA PDC Laboratories - Peoria, IL
NELAC Accreditation for Drinking Water, Wastewater, Hazardous and Solid Wastes Fields of Testing through IL EPA Lab No. 100230
Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 17553
Drinking Water Certifications: Kansas (E-10338); Missouri (870); Wisconsin (998284430); Iowa (240)
Wastewater Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
Hazardous/Solid Waste Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
UST Certification; Iowa (240)
- SPM PDC Laboratories - Springfield, MO
EPA DMR-QA Program
- STL PDC Laboratories - St. Louis, MO
TNI Accreditation for Wastewater, Hazardous and Solid Wastes Fields of Testing through KS Lab No. E-10389
Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 171050
Drinking Water Certifications: Missouri (1050)
Missouri Department of Natural Resources

Certified by: Barb Pandolfo For Roxann Shull, Client Services Supervisor



PDC Laboratories, Inc. – St. Louis
3278 N. Highway 67 (Lindbergh)
Florissant, MO 63033
 www.pdclab.com

CHAIN OF CUSTODY RECORD
 Phone (314) 432-0550 or (314) 921-4488
 Fax (314) 432-4977

State where samples collected _____
 (Instructions/Sample Acceptance Policy on Reverse)

ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

| | | | | | | | |
|---|------------------------------|---|---|--------------------|--|--|--------------|
| 1 CLIENT <i>Bass / Bridgeton</i> | PROJECT NUMBER | P. O. NUMBER | MEANS SHIPPED | | 3 ANALYSIS REQUESTED <i>CO₃ + Ammonia Nitrate/ Nitrite + Nitrite TSS</i> | 4 (FOR LAB USE ONLY) LOGIN # <i>4064079</i> LOGGED BY: <i>HE</i> LAB PROJ. # TEMPLATE: PROJ. MGR.: | |
| | ADDRESS | PHONE NUMBER | FAX NUMBER | EMAIL ADDRESS | | | |
| | CITY STATE ZIP | SAMPLER <i>Hunter King</i> | MATRIX TYPES: WW-WASTEWATER DW-DRINKING WATER GW-GROUND WATER WWSL-SLUDGE NAS-SOLID LCH-LEACHATE NAL-NON-AQUEOUS SOIL-SOILS | | | | |
| | CONTACT PERSON | SAMPLER'S SIGNATURE <i>Hunter King</i> | | | | | |
| 2 SAMPLE DESCRIPTION AS YOU WANT ON REPORT | DATE COLLECTED | TIME COLLECTED | SAMPLE TYPE | MATRIX TYPE | Bottle Count | REMARKS | |
| | | | GRAB | COMP | | | |
| | <i>6/25/14</i> | <i>907</i> | <i>X</i> | <i>LHT</i> | <i>2</i> | | |
| | <i>6/23/14</i> | <i>915</i> | <i>X</i> | <i>LHT</i> | <i>2</i> | | |
| 5 TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE) NORMAL (8-10 Bus. Days) RUSH (5 Bus. Days) <i>Fastrak™</i> (3 Bus. Days) <u>1-2 Bus. Days</u> Same Day DATE DUE <i>6/29/14</i> | | | | | | 6 The sample temperature will be measured upon receipt at the lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature. | |
| RESULTS BY: E-MAIL FAX PHONE CALL PHONE/FAX# IF DIFFERENT FROM ABOVE | | | | | | | |
| 7 RELINQUISHED BY: (SIGNATURE) <i>Hunter King</i> | DATE | TIME | RECEIVED BY: | DATE | TIME | 8 COMMENTS: (FOR LAB USE ONLY) SAMPLE TEMPERATURE UPON RECEIPT <i>6.5°C</i> CHILL PROCESS STARTED PRIOR TO RECEIPT Y OR N SAMPLE(S) RECEIVED ON ICE Y OR N PROPER BOTTLES RECEIVED IN GOOD CONDITION Y OR N BOTTLES FILLED WITH ADEQUATE VOLUME Y OR N SAMPLES RECEIVED WITHIN HOLD TIME(S) (EXCLUDES TYPICAL FIELD PARAMETERS) Y OR N DATE AND TIME TAKEN FROM SAMPLE BOTTLE | |
| | | | <i>[Signature]</i> | <i>6/29/14</i> | <i>12:50</i> | | |
| | RELINQUISHED BY: (SIGNATURE) | DATE | TIME | RECEIVED BY: | DATE | | TIME |
| | <i>[Signature]</i> | <i>6/23/14</i> | <i>13:15</i> | <i>[Signature]</i> | <i>6/29/14</i> | | <i>08:30</i> |
| RELINQUISHED BY: (SIGNATURE) | DATE | TIME | RECEIVED BY: | DATE | TIME | | |
| RELINQUISHED BY: (SIGNATURE) | DATE | TIME | RECEIVED BY: | DATE | TIME | | |

Thank you for using PDC Laboratories, Inc. Locations in Peoria, IL; St. Louis, MO; and Springfield, MO

PAGE _____ OF _____



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/30/14 11:57
Report Date: 07/01/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Sample No: **4064135-01**
Sample Description: **Tank 3 Start-Up**

Collect Date: **06/29/14 09:05**
Matrix: **Waste Water Grab**

| Parameters | Result | Qual | Analysis Date | Analyst | Method |
|--|-----------|------|----------------|---------|---------------------------|
| <u>Anions - STL</u> | | | | | |
| Nitrate-N | 250 mg/L | | 06/30/14 13:24 | DWM | EPA 300.0 R2.1 04KS |
| Nitrite-N | < 25 mg/L | | 06/30/14 13:24 | DWM | EPA 300.0 R2.1 04KS |
| <u>General Chemistry - STL</u> | | | | | |
| COD | 2700 mg/L | | 06/30/14 15:19 | DAW | SM 5220D 18Ed 04KS |
| Solids - total suspended solids (TSS) | 3300 mg/L | | 06/30/14 13:00 | DAS | SM 2540D 18Ed 04KS |
| Solids - total volatile suspended solids | 1400 mg/L | | 06/30/14 14:00 | DAW | SM 2540E 18Ed* |
| <u>Nutrients - STL</u> | | | | | |
| Ammonia-N | 0.36 mg/L | | 06/30/14 10:00 | ACV | SM(18) 4500 NH3 F 04KS |

Sample No: **4064135-02**
Sample Description: **Tank 2 Start-Up**

Collect Date: **06/29/14 09:10**
Matrix: **Waste Water**

| Parameters | Result | Qual | Analysis Date | Analyst | Method |
|---------------------------------------|------------|------|----------------|---------|---------------------------|
| <u>General Chemistry - STL</u> | | | | | |
| COD | 25000 mg/L | | 06/30/14 15:19 | DAW | SM 5220D 18Ed 04KS |
| Solids - total suspended solids (TSS) | 2600 mg/L | | 06/30/14 13:00 | DAS | SM 2540D 18Ed 04KS |
| <u>Nutrients - STL</u> | | | | | |
| Ammonia-N | 330 mg/L | | 06/30/14 10:00 | ACV | SM(18) 4500 NH3 F 04KS |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/30/14 11:57
Report Date: 07/01/14
Customer #: 277310
PO#: 4167739

Laboratory Results

General Chemistry - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|--|--------|-------|--|---------------|----------|-------------|-----|-----------|
| Batch B410765 - 04-No Prep WC | | | | | | | | |
| Blank (B410765-BLK1) | | | Prepared & Analyzed: 06/30/14 | | | | | |
| Solids - total suspended solids (TSS) | < 2.0 | mg/L | | | | | | |
| LCS (B410765-BS1) | | | Prepared & Analyzed: 06/30/14 | | | | | |
| Solids - total suspended solids (TSS) | C 128 | mg/L | 100.0 | 128 | 82.9-110 | | | |
| Duplicate (B410765-DUP1) | | | Source: 4064074-01 Prepared & Analyzed: 06/30/14 | | | | | |
| Solids - total suspended solids (TSS) | M 1460 | mg/L | 1680 | | | | 14 | 5 |
| Duplicate (B410765-DUP2) | | | Source: 4064135-01 Prepared & Analyzed: 06/30/14 | | | | | |
| Solids - total suspended solids (TSS) | 3240 | mg/L | 3320 | | | | 2 | 5 |
| Batch B410790 - 04-No Prep WC | | | | | | | | |
| Calibration Blank (B410790-CCB1) | | | Prepared & Analyzed: 06/30/14 | | | | | |
| COD | -5.10 | mg/L | | | | | | |
| Calibration Check (B410790-CCV1) | | | Prepared & Analyzed: 06/30/14 | | | | | |
| COD | 498 | mg/L | 500.0 | 100 | 95-105 | | | |
| Duplicate (B410790-DUP1) | | | Source: 4064136-02 Prepared & Analyzed: 06/30/14 | | | | | |
| COD | 23100 | mg/L | 23500 | | | | 1 | 20 |
| Batch B410791 - 04-No Prep WC | | | | | | | | |
| Duplicate (B410791-DUP1) | | | Source: 4064079-01 Prepared & Analyzed: 06/30/14 | | | | | |
| Solids - total volatile suspended solids | 1400 | mg/L | 1420 | | | | 1 | 5 |
| Duplicate (B410791-DUP2) | | | Source: 4064135-01 Prepared & Analyzed: 06/30/14 | | | | | |
| Solids - total volatile suspended solids | 1400 | mg/L | 1420 | | | | 1 | 5 |
| Nutrients - Quality Control | | | | | | | | |
| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
| Batch B410803 - 04-No Prep WC | | | | | | | | |
| Calibration Blank (B410803-CCB1) | | | Prepared & Analyzed: 06/30/14 | | | | | |
| Ammonia-N | 0.00 | mg/L | | | | | | |
| Calibration Check (B410803-CCV1) | | | Prepared & Analyzed: 06/30/14 | | | | | |
| Ammonia-N | 9.96 | mg/L | 10.00 | 100 | 90-110 | | | |
| Matrix Spike (B410803-MS1) | | | Source: 4064118-01 Prepared & Analyzed: 06/30/14 | | | | | |
| Ammonia-N | 10.3 | mg/L | 10.00 | 0.540 | 98 | 80-120 | | |

4064135



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/30/14 11:57
Report Date: 07/01/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Nutrients - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|--|--------|-------|---------------------------|---------------|-------------------------------|-------------|-----|-----------|
| Batch B410803 - 04-No Prep WC | | | | | | | | |
| Matrix Spike Dup (B410803-MSD1) | | | Source: 4064118-01 | | Prepared & Analyzed: 06/30/14 | | | |
| Ammonia-N | 10.2 | mg/L | 10.00 | 0.540 | 97 | 80-120 | 1 | 20 |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/30/14 11:57
Report Date: 07/01/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Notes

This report shall not be reproduced, except in full, without the written approval of the laboratory.

PDC Laboratories participates in the following accreditation/certification and proficiency programs at the following locations. Endorsement by Federal or State Governments or their agencies is not implied.

- PIA PDC Laboratories - Peoria, IL
NELAC Accreditation for Drinking Water, Wastewater, Hazardous and Solid Wastes Fields of Testing through IL EPA Lab No. 100230
Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 17553
Drinking Water Certifications: Kansas (E-10338); Missouri (870); Wisconsin (998284430); Iowa (240)
Wastewater Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
Hazardous/Solid Waste Certifications; Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
UST Certification; Iowa (240)
- SPM PDC Laboratories - Springfield, MO
EPA DMR-QA Program
- STL PDC Laboratories - St. Louis, MO
TNI Accreditation for Wastewater, Hazardous and Solid Wastes Fields of Testing through KS Lab No. E-10389
Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 171050
Drinking Water Certifications: Missouri (1050)
Missouri Department of Natural Resources

- M Analyte failed to meet the required acceptance criteria for duplicate analysis.
- C The blank spike failed to meet the required acceptance criteria.

Certified by: Barb Pandolfo For Roxann Shull, Client Services Supervisor



PDC Laboratories, Inc. – St. Louis
3278 N. Highway 67 (Lindbergh)
Florissant, MO 63033
 www.pdcclab.com

CHAIN OF CUSTODY RECORD
 Phone (314) 432-0550 or (314) 921-4488
 Fax (314) 432-4977

State where samples collected _____
 (Instructions/Sample Acceptance Policy on Reverse)

ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

| | | | | |
|---|--|---|--|--|
| 1 CLIENT <i>Bussel/Beidgen</i> ADDRESS CITY STATE ZIP CONTACT PERSON: | | PROJECT NUMBER P.O. NUMBER MEANS SHIPPED PHONE NUMBER FAX NUMBER EMAIL ADDRESS SAMPLER <i>Hunter King</i> SAMPLER'S SIGNATURE <i>Hunter King</i> | 3 ANALYSIS REQUESTED MATRIX TYPES: WW-WASTEWATER DW-DRINKING WATER GW-GROUND WATER WWSL-SLUDGE MAS-SOLID L'CHTLEACHATE NAL-NONAQUEOUS SOIL-SOILS <i>CO2 + Ammonia Nitrate + Nitrite TSS</i> | 4 (FOR LAB USE ONLY) LOGIN # <i>4064135</i> LOGGED BY: <i>HK</i> LAB PROJ. # TEMPLATE: PROJ. MGR.: REMARKS |
| 2 SAMPLE DESCRIPTION AS YOU WANT ON REPORT DATE COLLECTED TIME COLLECTED SAMPLE TYPE MATRIX Bottle Count T3 startup 6/29/14 0905 X LCHT ✓ T2 startup 6/29/14 0910 X LCHT ✓ | | | | |
| 5 TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE) NORMAL (8-10 Bus. Days) RUSH (5 Bus. Days) Fastrak™ (3 Bus. Days) <u>1-2 Bus. Days</u> Same Day DATE DUE <i>6/30/14</i> RESULTS BY: E-MAIL FAX PHONE CALL PHONE/FAX# IF DIFFERENT FROM ABOVE | | The sample temperature will be measured upon receipt at the lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature. 6 <i>11:20 RKG 3014</i> | | |
| 7 RELINQUISHED BY: (SIGNATURE) <i>Hunter King</i> DATE <i>6/30/14</i> TIME RELINQUISHED BY: (SIGNATURE) <i>Karl</i> DATE <i>6/30/14</i> TIME <i>11:45</i> RELINQUISHED BY: (SIGNATURE) DATE TIME RELINQUISHED BY: (SIGNATURE) DATE TIME | | RECEIVED BY: <i>Karl</i> DATE <i>6/30/14</i> TIME <i>10:15</i> RECEIVED BY: <i>Carla</i> DATE <i>6/30/14</i> TIME <i>11:45</i> RECEIVED BY: DATE TIME RECEIVED BY: DATE TIME | | 8 COMMENTS: (FOR LAB USE ONLY) SAMPLE TEMPERATURE UPON RECEIPT CHILL PROCESS STARTED PRIOR TO RECEIPT SAMPLE(S) RECEIVED ON ICE PROPER BOTTLES RECEIVED IN GOOD CONDITION BOTTLES FILLED WITH ADEQUATE VOLUME SAMPLES RECEIVED WITHIN HOLD TIME(S) (EXCLUDES TYPICAL FIELD PARAMETERS) DATE AND TIME TAKEN FROM SAMPLE BOTTLE <i>7.8</i> |

Thank you for using PDC Laboratories, Inc. Locations in Peoria, IL; St. Louis, MO; and Springfield, MO



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/30/14 12:01
Report Date: 07/01/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Sample No: **4064136-01**
Sample Description: **Tank 3 Start-Up**

Collect Date: **06/30/14 10:40**
Matrix: **Waste Water Grab**

| Parameters | Result | Qual | Analysis Date | Analyst | Method |
|--|-----------|------|----------------|---------|------------------------|
| <u>Anions - STL</u> | | | | | |
| Nitrate-N | 240 mg/L | | 06/30/14 13:42 | DWM | EPA 300.0 R2.1 04KS |
| Nitrite-N | < 25 mg/L | | 06/30/14 13:42 | DWM | EPA 300.0 R2.1 04KS |
| <u>General Chemistry - STL</u> | | | | | |
| COD | 2700 mg/L | | 06/30/14 15:19 | DAW | SM 5220D 18Ed 04KS |
| Solids - total suspended solids (TSS) | 3100 mg/L | | 06/30/14 13:00 | DAS | SM 2540D 18Ed 04KS |
| Solids - total volatile suspended solids | 1300 mg/L | | 06/30/14 14:00 | DAW | SM 2540E 18Ed* |
| <u>Nutrients - STL</u> | | | | | |
| Ammonia-N | 0.32 mg/L | | 06/30/14 12:15 | ACV | SM(18) 4500 NH3 F 04KS |
| <u>Soluble Metals - STL</u> | | | | | |
| Zinc | 0.26 mg/L | | 07/01/14 12:15 | WPS | EPA 200.7 R4.4 04KS |
| <u>Soluble Nutrients - STL</u> | | | | | |
| Phosphorus - ortho as P | 1.7 mg/L | | 06/30/14 14:30 | ACV | SM 4500P B E 18ed* |
| <u>Total Metals - STL</u> | | | | | |
| Zinc | 2.3 mg/L | | 07/01/14 12:21 | WPS | EPA 200.7 R4.4 04KS |

Sample No: **4064136-02**
Sample Description: **Tank 2 Start-Up**

Collect Date: **06/30/14 10:20**
Matrix: **Waste Water**

| Parameters | Result | Qual | Analysis Date | Analyst | Method |
|---------------------------------------|------------|------|----------------|---------|------------------------|
| <u>General Chemistry - STL</u> | | | | | |
| COD | 23000 mg/L | | 06/30/14 15:19 | DAW | SM 5220D 18Ed 04KS |
| Solids - total suspended solids (TSS) | 3600 mg/L | | 06/30/14 13:00 | DAS | SM 2540D 18Ed 04KS |
| <u>Nutrients - STL</u> | | | | | |
| Ammonia-N | 270 mg/L | | 06/30/14 12:15 | ACV | SM(18) 4500 NH3 F 04KS |
| <u>Soluble Metals - STL</u> | | | | | |
| Zinc | 2.2 mg/L | | 07/01/14 12:22 | WPS | EPA 200.7 R4.4 04KS |
| <u>Total Metals - STL</u> | | | | | |
| Zinc | 4.2 mg/L | | 07/01/14 12:24 | WPS | EPA 200.7 R4.4 04KS |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/30/14 12:01
Report Date: 07/01/14
Customer #: 277310
PO#: 4167739

Laboratory Results

General Chemistry - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|--|--------|-------|--|---------------|----------|-------------|-----|-----------|
| Batch B410765 - 04-No Prep WC | | | | | | | | |
| Blank (B410765-BLK1) | | | Prepared & Analyzed: 06/30/14 | | | | | |
| Solids - total suspended solids (TSS) | < 2.0 | mg/L | | | | | | |
| LCS (B410765-BS1) | | | Prepared & Analyzed: 06/30/14 | | | | | |
| Solids - total suspended solids (TSS) | C 128 | mg/L | 100.0 | 128 | 82.9-110 | | | |
| Duplicate (B410765-DUP1) | | | Source: 4064074-01 Prepared & Analyzed: 06/30/14 | | | | | |
| Solids - total suspended solids (TSS) | M 1460 | mg/L | 1680 | | | | 14 | 5 |
| Duplicate (B410765-DUP2) | | | Source: 4064135-01 Prepared & Analyzed: 06/30/14 | | | | | |
| Solids - total suspended solids (TSS) | 3240 | mg/L | 3320 | | | | 2 | 5 |
| Batch B410790 - 04-No Prep WC | | | | | | | | |
| Calibration Blank (B410790-CCB1) | | | Prepared & Analyzed: 06/30/14 | | | | | |
| COD | -5.10 | mg/L | | | | | | |
| Calibration Check (B410790-CCV1) | | | Prepared & Analyzed: 06/30/14 | | | | | |
| COD | 498 | mg/L | 500.0 | 100 | 95-105 | | | |
| Duplicate (B410790-DUP1) | | | Source: 4064136-02 Prepared & Analyzed: 06/30/14 | | | | | |
| COD | 23100 | mg/L | 23500 | | | | 1 | 20 |
| Batch B410791 - 04-No Prep WC | | | | | | | | |
| Duplicate (B410791-DUP1) | | | Source: 4064079-01 Prepared & Analyzed: 06/30/14 | | | | | |
| Solids - total volatile suspended solids | 1400 | mg/L | 1420 | | | | 1 | 5 |
| Duplicate (B410791-DUP2) | | | Source: 4064135-01 Prepared & Analyzed: 06/30/14 | | | | | |
| Solids - total volatile suspended solids | 1400 | mg/L | 1420 | | | | 1 | 5 |
| Nutrients - Quality Control | | | | | | | | |
| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
| Batch B410803 - 04-No Prep WC | | | | | | | | |
| Calibration Blank (B410803-CCB1) | | | Prepared & Analyzed: 06/30/14 | | | | | |
| Ammonia-N | 0.00 | mg/L | | | | | | |
| Calibration Check (B410803-CCV1) | | | Prepared & Analyzed: 06/30/14 | | | | | |
| Ammonia-N | 9.96 | mg/L | 10.00 | 100 | 90-110 | | | |
| Matrix Spike (B410803-MS1) | | | Source: 4064118-01 Prepared & Analyzed: 06/30/14 | | | | | |
| Ammonia-N | 10.3 | mg/L | 10.00 | 0.540 | 98 | 80-120 | | |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/30/14 12:01
Report Date: 07/01/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Nutrients - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|--|--------|-------|---------------------------|---------------|-------------------------------|-------------|-----|-----------|
| Batch B410803 - 04-No Prep WC | | | | | | | | |
| Matrix Spike Dup (B410803-MSD1) | | | Source: 4064118-01 | | Prepared & Analyzed: 06/30/14 | | | |
| Ammonia-N | 10.2 | mg/L | 10.00 | 0.540 | 97 | 80-120 | 1 | 20 |

Soluble Nutrients - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|--------|-------|-------------------------------|---------------|------|-------------|-----|-----------|
| Batch B410818 - 04-No Prep WC | | | | | | | | |
| Calibration Blank (B410818-CCB1) | | | Prepared & Analyzed: 06/30/14 | | | | | |
| Phosphorus - ortho as P | 0.00 | mg/L | | | | | | |
| Calibration Check (B410818-CCV1) | | | Prepared & Analyzed: 06/30/14 | | | | | |
| Phosphorus - ortho as P | 0.535 | mg/L | 0.5000 | | 107 | 90-110 | | |
| Matrix Spike (B410818-MS1) | | | Prepared & Analyzed: 06/30/14 | | | | | |
| Phosphorus - ortho as P | 2.19 | mg/L | 0.5000 | 1.72 | 94 | 80-120 | | |
| Matrix Spike Dup (B410818-MSD1) | | | Prepared & Analyzed: 06/30/14 | | | | | |
| Phosphorus - ortho as P | 2.29 | mg/L | 0.5000 | 1.72 | 114 | 80-120 | 4 | 20 |

Total Metals - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|--|---------|-------|-------------------------------|---------------|------|-------------|-----|-----------|
| Batch B410845 - 04 EPA 200.2 R2.8 | | | | | | | | |
| Blank (B410845-BLK1) | | | Prepared & Analyzed: 07/01/14 | | | | | |
| Zinc | < 0.020 | mg/L | | | | | | |
| LCS (B410845-BS1) | | | Prepared & Analyzed: 07/01/14 | | | | | |
| Zinc | 0.220 | mg/L | 0.2000 | | 110 | 85-115 | | |

Soluble Metals - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|--|---------|-------|-------------------------------|---------------|------|-------------|-----|-----------|
| Batch B410845 - 04 EPA 200.2 R2.8 | | | | | | | | |
| Blank (B410845-BLK1) | | | Prepared & Analyzed: 07/01/14 | | | | | |
| Zinc | < 0.020 | mg/L | | | | | | |
| LCS (B410845-BS1) | | | Prepared & Analyzed: 07/01/14 | | | | | |
| Zinc | 0.220 | mg/L | 0.2000 | | 110 | 85-115 | | |

4064136



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/30/14 12:01
Report Date: 07/01/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Soluble Metals - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|--|--------|-------|---------------------------|---------------|-------------------------------|-------------|-----|-----------|
| Batch B410845 - 04 EPA 200.2 R2.8 | | | | | | | | |
| Matrix Spike (B410845-MS1) | | | Source: 4064136-01 | | Prepared & Analyzed: 07/01/14 | | | |
| Zinc | 1.38 | mg/L | 1.000 | 0.260 | 112 | 70-130 | | |
| Matrix Spike Dup (B410845-MSD1) | | | Source: 4064136-01 | | Prepared & Analyzed: 07/01/14 | | | |
| Zinc | 1.39 | mg/L | 1.000 | 0.260 | 113 | 70-130 | 1 | 20 |

Anions - Quality Control

| Analyte | Result | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|--------|-------|-------------------------------|---------------|-------------------------------|-------------|-----|-----------|
| Batch B410781 - 04-IC No Prep | | | | | | | | |
| Calibration Blank (B410781-CCB1) | | | Prepared & Analyzed: 06/30/14 | | | | | |
| Nitrite-N | 0.00 | mg/L | | | | | | |
| Nitrate-N | 0.00 | mg/L | | | | | | |
| Calibration Check (B410781-CCV1) | | | Prepared & Analyzed: 06/30/14 | | | | | |
| Nitrite-N | 2.06 | mg/L | 2.000 | | 103 | 90-110 | | |
| Nitrate-N | 1.21 | mg/L | 1.130 | | 107 | 90-110 | | |
| Matrix Spike (B410781-MS1) | | | Source: 4064063-04 | | Prepared & Analyzed: 06/30/14 | | | |
| Nitrate-N | 120 | mg/L | 113.0 | ND | 107 | 80-120 | | |
| Nitrite-N | 266 | mg/L | 250.0 | ND | 106 | 80-120 | | |
| Matrix Spike Dup (B410781-MSD1) | | | Source: 4064063-04 | | Prepared & Analyzed: 06/30/14 | | | |
| Nitrate-N | 120 | mg/L | 113.0 | ND | 104 | 80-120 | 4 | 20 |
| Nitrite-N | 254 | mg/L | 250.0 | ND | 102 | 80-120 | 4 | 20 |



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/30/14 12:01
Report Date: 07/01/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Notes

This report shall not be reproduced, except in full, without the written approval of the laboratory.

PDC Laboratories participates in the following accreditation/certification and proficiency programs at the following locations. Endorsement by Federal or State Governments or their agencies is not implied.

- PIA PDC Laboratories - Peoria, IL
NELAC Accreditation for Drinking Water, Wastewater, Hazardous and Solid Wastes Fields of Testing through IL EPA Lab No. 100230
Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 17553
Drinking Water Certifications: Kansas (E-10338); Missouri (870); Wisconsin (998284430); Iowa (240)
Wastewater Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
Hazardous/Solid Waste Certifications; Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
UST Certification; Iowa (240)
- SPM PDC Laboratories - Springfield, MO
EPA DMR-QA Program
- STL PDC Laboratories - St. Louis, MO
TNI Accreditation for Wastewater, Hazardous and Solid Wastes Fields of Testing through KS Lab No. E-10389
Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 171050
Drinking Water Certifications: Missouri (1050)
Missouri Department of Natural Resources

- M Analyte failed to meet the required acceptance criteria for duplicate analysis.
- C The blank spike failed to meet the required acceptance criteria.

Certified by: Barb Pandolfo For Roxann Shull, Client Services Supervisor



PDC Laboratories, Inc. – St. Louis
3278 N. Highway 67 (Lindbergh)
Florissant, MO 63033
 www.pdclab.com

CHAIN OF CUSTODY RECORD
 Phone (314) 432-0550 or (314) 921-4488
 Fax (314) 432-4977

State where samples collected MO

(Instructions/Sample Acceptance Policy on Reverse)

ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

| | | | | | | | | | | | | |
|---|--|---|----------------|--|--------|---|--|---------|---|---|-----------------------------|--|
| 1 CLIENT: <u>BARR/BRIDGETON LF</u> | | PROJECT NUMBER | P.O. NUMBER | MEANS SHIPPED | | 3 ANALYSIS REQUESTED | | | | | 4 (FOR LAB USE ONLY) | |
| ADDRESS | | PHONE NUMBER | FAX NUMBER | EMAIL ADDRESS | | COD + AMMONIA TSS/SSS + AMMONIA/NITRITE DISS ZINC TOTAL ZINC DISS ORTHOPHOSPHATE TSS | LOGIN # <u>4064136</u> LOGGED BY: <u>ME</u> LAB PROJ. # TEMPLATE: PROJ. MGR.: | REMARKS | | | | |
| CITY, STATE, ZIP | | SAMPLER | | MATRIX TYPES: WW-WASTEWATER DW-DRINKING WATER GW-GROUND WATER WWSL-SLUDGE NAS-SOLID L'CHT-LEACHATE NAL-NONAQUEOUS SOIL-SOILS | | | | | | | | |
| CONTACT PERSON | | SAMPLER'S SIGNATURE | | | | | | | | | | |
| 2 SAMPLE DESCRIPTION AS YOU WANT ON REPORT | | DATE COLLECTED | TIME COLLECTED | SAMPLE TYPE | MATRIX | Bottle Count | | | | | | |
| T3 STARTUP | | 6/30/14 | 1040 | ✓ | L'CHT | | ✓ | ✓ | ✓ | | | |
| T2 STARTUP | | 6/30/14 | 1020 | ✓ | L'CHT | | ✓ | | ✓ | ✓ | | |
| 5 TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE) NORMAL (8-10 Bus. Days) RUSH (5 Bus. Days) <i>Fastrak™</i> (3 Bus. Days) <u>1-2 Bus. Days</u> Same Day DATE DUE <u>7/1/14</u> | | The sample temperature will be measured upon receipt at the lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature. | | | | | | | | | | |
| RESULTS BY: E-MAIL FAX PHONE CALL PHONE/FAX# IF DIFFERENT FROM ABOVE | | 6 | | | | | | | | | | |
| 7 RELINQUISHED BY: (SIGNATURE) | | DATE | TIME | RECEIVED BY: | DATE | TIME | 8 COMMENTS:(FOR LAB USE ONLY) | | | | | |
| RELINQUISHED BY: (SIGNATURE) | | DATE | TIME | RECEIVED BY: | DATE | TIME | SAMPLE TEMPERATURE UPON RECEIPT <u>12.5</u> °C CHILL PROCESS STARTED PRIOR TO RECEIPT SAMPLE(S) RECEIVED ON ICE PROPER BOTTLES RECEIVED IN GOOD CONDITION BOTTLES FILLED WITH ADEQUATE VOLUME SAMPLES RECEIVED WITHIN HOLD TIME(S) (EXCLUDES TYPICAL FIELD PARAMETERS) DATE AND TIME TAKEN FROM SAMPLE BOTTLE | | | | | |
| RELINQUISHED BY: (SIGNATURE) | | DATE | TIME | RECEIVED BY: | DATE | TIME | | | | | | |
| RELINQUISHED BY: (SIGNATURE) | | DATE | TIME | RECEIVED BY: | DATE | TIME | | | | | | |

Thank you for using PDC Laboratories, Inc. Locations in Peoria, IL; St. Louis, MO; and Springfield, MO

PAGE 1 OF 1