WASTE MANAGEMENT INC. OF FLORIDA
Vista Landfill, LLC
242 W. Keene Road
Apopka, FL 32703

March 8, 2017

Mr. Tom Lubozynski, P.E.
Administrator, Waste Management
Florida Department of Environmental Protection
Central District
3319 Maguire Blvd., Suite 232
Orlando, FL 32803

Via email: DEP_CD@dep.state.fl.us

Subject: Q1 2017 Composting Disinfection Sample Results
Vista Organic Composting Facility
WACS Facility 87081
Permit No. SO48-0165969-020

Dear Mr. Lubozynski,

In order to show compliance with the disinfection requirements for compost in FAC 62-709, the Vista Landfill is submitting the attached quarterly lab analysis. This analysis shows compliance with the testing and record keeping requirements of 62-709.530. The facility also maintains onsite records showing compliance with the temperature monitoring requirements. Since the composting system uses aerated static piles, the materials are maintained ≥55°C for 3 consecutive days.

In accordance with the approved Operations Plan, Vista Landfill also collected an annual baseline sample in January 2017 to use in the %ROM calculations for calendar year 2017. This lab report is also included. If our inbound feed stock changes significantly, we will collect a new baseline sample as necessary.

The reduction of organic matter is determined by comparing the organic matter content of the feedstock into the composting process and the organic matter content of the compost product. The amount of reduction is determined as a percent of the original amount contained in the feedstock using the following calculation:

$$\% \text{ ROM} = [1 - (OMK(100 - OM)/OM(100 - OMK))]100$$

where: % ROM = reduction of organic matter, OM = % organic matter content of dry matter before decomposition, and OMK = % organic matter content of dry matter after decomposition.

A spreadsheet is attached showing the calculated %ROM values. If you have any questions, please call me at 904-748-6006 or email me at eparker1@wm.com.

Sincerely,

SUBMITTED VIA EMAIL SIGNED ELECTRONICALLY

Eric Parker
Environmental Protection Manager
Waste Management Inc. of Florida

cc: Deborah Perez, WMIF via email
Ray Stamper, WMIF via email
Jay Davoll, City of Apopka via email

Vista Organics Facility %ROM calculations

| Baseline Sample Result 2016 (%OM2016) | Q1 2016 Percent Organic Matter (%OMKQ1) | Q1 2016 Percent Reduction Organic Matter (%ROMQ1) | Q2 2016 Percent Organic Matter (%OMKQ2) | Q2 2016 Percent Reduction Organic Matter (%ROMQ2) | Q3 2016 Percent Organic Matter (%OMKQ3) | Q3 2016 Percent Reduction Organic Matter (%ROMQ3) | Q4 2016 Percent Organic Matter (%OMKQ4) | Q4 2016 Percent Reduction Organic Matter (%ROMQ4) |
|---|---|---|---|---|---|---|---|---|
| 86.5 | 57.6 | 78.8 | 0 | 100.0 | 0 | 100.0 | 0 | 100.0 |

REPORT NUMBER
# 17-020-4128 v2

REPORT DATE
**Jan 27, 2017**

SEND TO
**36317**

RECEIVED DATE
**Jan 17, 2017**

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ISSUE DATE
**Jan 27, 2017**

**VISTA LANDFILL LLC**
**RAY STAMPER**
**242 W KEENE RD**
**APOPKA FL 32703**

## REPORT OF ANALYSIS

For: (36317) VISTA LANDFILL LLC
FOOD WASTE, GREEN WASTE

| Analysis | Level Found As Received | Level Found Dry Weight | Units | Reporting Limit | Method | Analyst-Date | Verified-Date |
|---|---|---|---|---|---|---|---|
| Sample ID: **VISTA Q1 2017** Lab Number: **2620745** | | | | | | | |
| Organic Matter | 29.7 | 86.5 | % | 0.01 | MWL WC PROC 60 | bjs0-2017/01/19 | acm2-2017/01/20 |
| Moisture | 65.65 | | % | 0.10 | SM 2540 G-(1997) | bjs0-2017/01/23 | acm2-2017/01/27 |
| Total organic carbon (TOC) | 5.61 | 16.33 | % | 0.01 | ASTM D 5373 (mod) | kmc4-2017/01/26 | acm2-2017/01/27 |
| Percent solids | 34.35 | | % | 0.01 | SM 2540 G-(1997) * | bjs0-2017/01/23 | cmw2-2017/01/23 |

This report was reissued on 2017-01-27 12:26:37 by acm2 for the following reason:
add on tests per client.

For questions please contact:

Rob Ferris
Account Manager
raf4@midwestlabs.com (402)829-9871

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VISTA LANDFILL LLC
RAY STAMPER
242 W KEENE RD
APOPKA FL 32703

## REPORT OF ANALYSIS

For: (36317) VISTA LANDFILL LLC
FOOD WASTE, GREEN WASTE

## Detailed Method Description(s)

**SM 2540 G**

Analysis follows MWL WC 060 which is based on SM 2540 G. A sample is weighed placed in a vacuum drying oven to drive off the moisture and re-weighed. The sample is then placed in a muffle furnace at 550 degrees C, cooled, and re-weighed. The residue remaining is the ash and the mass lost is the volatile matter.

**SM 2540 G**

Analysis follows MWL WC 060 which is based on SM 2540 G. A sample is weighed placed in a vacuum drying oven to drive off the moisture and re-weighed. The sample is then placed in a muffle furnace at 550°C, cooled, and re-weighed. The residue remaining is the ash and the mass lost is the volatile matter.

**Carbon/nitrogen in coal ASTM D 5373 (mod)**

Sample analysis follows MWL PR 263 which references ASTM D 5373 (modified). Samples are placed in a combustion instrument where carbon is oxidized in oxygen to produce carbon dioxide and nitrogen compounds are converted to elemental nitrogen and the levels determined. The modification indicated is the matrix analyzed is not part of the ASTM scope.

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Lab # 2632981 **Report of Analysis** Report Number: 17-062-4057

| | |
|---|---|
| **Account:** 36317 | RAY STAMPER<br>VISTA LANDFILL LLC<br>242 W KEENE RD<br>APOPKA FL 32703 |
| **Date Sampled:** | 2017-02-15 |
| **Date Received:** | 2017-02-16 |
| **Sample ID:** | STA V217 |

Robert Ferris
Account Manager
402-829-9871

STA COMPOST

| | | Analysis (as rec'd) | Analysis (dry weight) | Total content, lbs per ton (as rec'd) |
|---|---|---|---|---|
| **NUTRIENTS** | | | | |
| Nitrogen | | | | |
| Total Nitrogen | % | 1.32 | 2.44 | 26.4 |
| Organic Nitrogen | % | 1.31 | 2.43 | 26.3 |
| Ammonium Nitrogen | % | 0.006 | 0.011 | 0.1 |
| Nitrate Nitrogen | % | < 0.01 | ---- | ---- |
| Major and Secondary Nutrients | | | | |
| Phosphorus | % | 0.19 | 0.35 | 3.8 |
| Phosphorus as P2O5 | % | 0.44 | 0.81 | 8.8 |
| Potassium | % | 0.46 | 0.85 | 9.2 |
| Potassium as K2O | % | 0.55 | 1.02 | 11.0 |
| Sulfur | % | 0.12 | 0.22 | 2.4 |
| Calcium | % | 2.42 | 4.47 | 48.4 |
| Magnesium | % | 0.12 | 0.22 | 2.4 |
| Sodium | % | 0.210 | 0.388 | 4.2 |
| Micronutrients | | | | |
| Iron | ppm | 790 | 1459 | 1.6 |
| Manganese | ppm | 30.6 | 57 | ---- |
| Boron | ppm | < 100 | ---- | ---- |
| **OTHER PROPERTIES** | | | | |
| Moisture | % | 45.85 | | |
| Total Solids | % | 54.15 | | 1083.0 |
| Organic Matter | % | 30.90 | 57.06 | 618.0 |
| Ash | % | 23.20 | 42.84 | 464.0 |
| Total Carbon | % | 15.38 | 28.40 | |
| Chloride | % | 0.31 | 0.57 | |
| pH | | 7.6 | | |
| Conductivity 1:5 (Soluble Salts) | mS/cm | 5.42 | | |

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Lab # 2632981 **Biological & Physical Properties** Report Number: 17-062-4057

| | |
|---|---|
| **Account:** 36317 | RAY STAMPER<br>VISTA LANDFILL LLC<br>242 W KEENE RD<br>APOPKA FL 32703 |
| **Date Sampled:** | 2017-02-15 |
| **Date Received:** | 2017-02-16 |
| **Sample ID:** | STA V217 |

Robert Ferris
Client Service Representative
402-829-9871

STA COMPOST

| | Analysis (as rec'd) | Analysis (dry weight) | Units | Detection Limit | Method |
|---|---|---|---|---|---|
| **Biological Properties** | | | | | |
| Germination | 90 | | % | 1 | TMECC 05.05A |
| Germination Vigor | 100 | | % | 1 | TMECC 05.05A |
| $CO_2$ OM Evolution | 0.41 | | mg$CO_2$-C/gOM/day | 0.01 | TMECC 05.08B |
| $CO_2$ Solids Evolution | 0.67 | | mg$CO_2$-C/gTS/day | 0.01 | TMECC 05.08B |
| Fecal Coliform | | 0 | mpn/g | 0.2 | EPA 1681 |
| Salmonella | | < 0.01 | mpn/4g | 0.01 | EPA 1682 |
| Stability Rating | Stable | | N/A | N/A | TMECC 05.08B |
| **Physical Properties** | | | | | |
| Bulk Density (Loose) | 944 | | lbs/cu yard | 1 | WT/VOL |
| Bulk Density (Packed) | 1213 | | lbs/cu yard | 1 | WT/VOL |
| Film Plastics | n.d. | | % | 0.25 | Microscopic |
| Glass Fragments | n.d. | | % | 0.25 | Microscopic |
| Hard Plastics | n.d. | | % | 0.25 | Microscopic |
| Metal Fragment | n.d. | | % | 0.25 | Microscopic |
| Sharps | absent | | --- | --- | Microscopic |
| Max. Particle Length | | 1.3 | inches | N/A | TMECC Sieve |
| Sieve % Passing 3" | | 100 | % | 0.01 | TMECC Sieve |
| Sieve % Passing 2" | | 100 | % | 0.01 | TMECC Sieve |
| Sieve % Passing 1.5" | | 100 | % | 0.01 | TMECC Sieve |
| Sieve % Passing 1" | | 100 | % | 0.01 | TMECC Sieve |
| Sieve % Passing 3/4" | | 100 | % | 0.01 | TMECC Sieve |
| Sieve % Passing 5/8" | | 100 | % | 0.01 | TMECC Sieve |
| Sieve % Passing 3/8" | | 99 | % | 0.01 | TMECC Sieve |
| Sieve % Passing 1/4" | | 94 | % | 0.01 | TMECC Sieve |

Compost Results Interpretations

**Page 1**

| | |
|---|---|
| **Report #:** | 17-062-4057 |
| **DATE RECEIVED:** | 2017-02-16 |

Organic Matter %

30.90 As Received

57.06 Dry Weight

Greater than 20% indicates a desirable range for compost on a dry weight basis.

Compost is a significant source of Organic Matter, which is an important supplier of carbon. Organic Matter improves soil and plant efficiency by improving soil physical properties, providing a source of energy to beneficial organisms, and enhancing the reservoir of soil nutrients.

C/N Ratio

11.7:1

20-30 indicates an ideal range for the initial compost process.

10-20 indicates an ideal range for a finished compost.

All organic matter is made up of substantial amounts of carbon with lesser amounts of nitrogen. The balance of these two elements is called the Carbon/Nitrogen Ratio. For the best performance, the compost pile requires the correct proportion of carbon for energy and nitrogen for protein production. If the C:N ratio is too high (excess carbon) decomposition slows down. If the C:N ratio is too low (excess Nitrogen) the compost pile could be difficult to manage.

Moisture %

45.85

<35% = Indicates overly dry compost

>55% = Indicates overly wet compost

Moisture Percent is the measure of water present in the compost and expressed as a percentage of total weight. Moisture present affects handling and transport. Overly dry will be light and dusty while overly wet will be heavy and clumpy. A desirable moisture content of finished compost will range between 40 to 50%.

Compost Results Interpretations

**Page 2**

| | |
|---|---|
| **Report #:** | 17-062-4057 |
| **DATE RECEIVED:** | 2017-02-16 |

Conductivity or Soluble Salts measures the conductance of electrical current in a liquid compost slurry. Excessive soluble salt content in a compost can prevent or delay seed germination and proper root growth. Conductivity analysis is done on a 1:5 basis.

| Conductivity 1:5 |
|---|
| 5.4 |

| **Conductivity Level** | **Interpretation** |
|---|---|
| Greater than 10 | Very High nutrient content. Use for Ag Applications |
| 5 - 10 | High nutrient content. Use for Ag Applications |
| 3 - 5 | Higher than desirable for salt sensitive plants, some loss of vigor |
| 0.6 - 3 | Desirable range for most plants |
| 0.3 - 0.6 | Ideal range for greenhouse growth media |
| 0.0 - 0.3 | Very Low: Indicates very low nutrient status: plants may show deficiencies. |

Compost Results Interpretations

**Page 3**

**Report #:** 17-062-4057

**DATE RECEIVED:** 2017-02-16

pH Value

7.6

0 to 14 scale with 6 to 8 as normal pH levels for compost

A pH in the 6 to 8 pH range indicates a more mature compost

pH measures the acidity or alkalinity of the compost, and is a measurement of the hydrogen ion activity of a soil or compost on a logarithmic scale. The pH scale ranges from 0 to 14 and 7 indicates a neutral pH. Growing media with a higher pH or pH greater than 7 can benefit from a compost that has a more acidic pH or pH below 7. This type of application will possibly lower the soil pH making the soil more conducive to plants that thrive in a more acidic soil condition.

Nutrient Index (Ag Index)

4.4

The Nutrient Index normally runs between 1 and 10.

The Nutrient Index is obtained by dividing the total nutrients (N,P,K) by the amount of salt (Sodium and Chloride). The higher the Nutrient Index the less chance of having a toxic buildup of Sodium (salt) in the soil.

***AG INDEX CHART***

| *salt injury possible* | *use on soils with excellent drainage characteristics, good water quality and low salts* | | | | *you may use on soils with poor drainage, poor water quality, or high salts* | | | | | *for all soils* |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | > 10 |

Nutrients (N+P205+K20)

4.27 Average Nutrient Content Dry Weight <2 = Low, >5 = High

1.5-0.5-0.5 Rating As Received

The most commonly used compost data is the amount of Nitrogen, Phosphate, and Potash (abbreviated as N,P,K) present and the information is similar to that found in common fertilizers. If a compost result has the rating 1-2-2 it means that the compost has 1% Nitrogen, 2% Phosphate and 2% Potash. Most compost tests will have a average nutrient level (N+P+K) of < 5%.

REPORT NUMBER
**17-062-4057**

REPORT DATE
**Mar 03, 2017**

SEND TO
**36317**

RECEIVED DATE
**Feb 16, 2017**

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ISSUE DATE
**Mar 03, 2017**

**VISTA LANDFILL LLC**
**RAY STAMPER**
**242 W KEENE RD**
**APOPKA FL 32703**

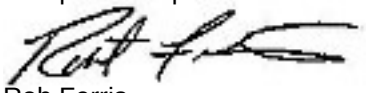
# REPORT OF ANALYSIS

For: (36317) VISTA LANDFILL LLC
STA COMPOST

| Analysis | Level Found As Received | Level Found Dry Weight | Units | Reporting Limit | Method | Analyst-Date | Verified-Date |
|---|---|---|---|---|---|---|---|
| Sample ID: **STA V217** Lab Number: **2632981** Date Sampled: **2017-02-15 1100** | | | | | | | |
| Cadmium (total) | < 0.50 | < 0.50 | mg/kg | 0.50 | EPA 6010 | ras7-2017/02/19 | bab2-2017/02/24 |
| Chromium (total) | 3.34 | 6.17 | mg/kg | 1.00 | EPA 6010 | ras7-2017/02/19 | bab2-2017/02/24 |
| Mercury (total) | < 0.05 | < 0.05 | mg/kg | 0.05 | EPA 7471 | ccm2-2017/02/20 | bab2-2017/02/24 |
| Lead (total) | < 5.0 | < 5.0 | mg/kg | 5.0 | EPA 6010 | ras7-2017/02/20 | bab2-2017/02/24 |
| Molybdenum (total) | < 1.0 | < 1.0 | mg/kg | 1.0 | EPA 6010 | ras7-2017/02/19 | bab2-2017/02/24 |
| Nickel (total) | < 1.0 | < 1.0 | mg/kg | 1.0 | EPA 6010 | ras7-2017/02/19 | bab2-2017/02/24 |
| Selenium (total) | < 10.0 | < 10.0 | mg/kg | 10.0 | EPA 6010 | ras7-2017/02/19 | bab2-2017/02/24 |
| Zinc (total) | 36.1 | 66.7 | mg/kg | 2.0 | EPA 6010 | ras7-2017/02/19 | bab2-2017/02/24 |
| Copper (total) | 14.5 | 26.8 | mg/kg | 1 | EPA 6010 | ras7-2017/02/19 | bab2-2017/02/24 |
| Arsenic (total) | 1.33 | 2.46 | mg/kg | 0.5 | EPA 6020 | cjm4-2017/02/22 | bab2-2017/02/24 |

Hold time exceeded for Salmonella and fecal coliform, not suitable for regulatory purposes.
ppm = parts per million, ppm = mg/kg

For questions please contact:



Rob Ferris
Account Manager
raf4@midwestlabs.com (402)829-9871

SUBFORM NUMBER:
629629

ACCOUNT NO: 36317
VISTA LANDFILL LLC
RAY STAMPER
242 W KEENE RD
APOPKA, FL 32703

# Midwest Laboratories®

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ORDER NUMBER: 067530



COPY TO:

2632981-981
Samples: 1 Page: 1/3
Lara L Mikels
2017 02 16 10:09

SAMPLE DESCRIPTION
STA COMPOST

PO NUMBER:

## Automatic Order Submittal Form

PLACED BY: Robert A Ferris

| SAMPLE ID | DATE/TIME SAMPLED | MATRIX | TESTS REQUESTED | CONTAINER COUNT | COMMENTS |
|---|---|---|---|---|---|
| ~~COMPOST~~ STAV217 | 2/15/17 11:00 Am | | STA COMPOST 2632981 | 1 | |
| | | | | | |
| | | | | | |
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| | | | | | |
|---|---|---|---|---|---|
| Sampled by: (Signature) | Temp on Arrival | Cooler arrived intact? | Relinquished by: (Signature) | Date/Time | Received by: (Signature) |
| Relinquished by: (Signature) | Date/Time | Received by: (Signature) | Relinquished by: (Signature) | Date/Time | Received in lab by: (Signature) |

CHAIN OF CUSTODY



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Samples: 1 Page: 2/3
Lara L. Mikels
2017 02 16 10:09

US COMPOSTING COUNCIL

#36317

# OFFICIAL Seal of Testing Assurance Compost Sample Chain of Custody Form

STA Laboratory: MidWest Laboratories Tel: 402-334-7770
Address: 13611 B Street FAX:
Email:
City, State Zip code: Omaha Nebraska

Client/Reporting Company: VistaLandfill Tel: 216-956-0949
Contact Name: Ray Stamper FAX:
Billing Address: 242 W. Keene Rd. Email: RStamper@wm.com
City, State Zip code: Apopka FL. 32703
Send Results to: RStamper@wm.com
City, State Zip code:
Name or Source of Sample(s): STA Compost
Name of Person(s), Sample Collector(s): Ray Stamper

LABORATORY USE ONLY Storage Locations
Freezer ____ Cold Room ____ Storage Shelf ____
Sample Condition: ____
Temperature: ____ Malodor: ____ Moisture: ____
Sample Type: O POINT O COMPOSITE O STRATIFIED O INTERVAL
P.O. Number: ____
USCC Member: O YES O NO

**SELECTION OF ANALYSIS.** Refer to http://www.tmecc.org/cap/methods.html for details. STA Suite; State DOT Tests (indicate State); A, B, C – Specify other tests in fields A through C, (e.g., tests required for regulated samples, etc.). NOTE ! STA analytical results via the STA Compost Technical Date Sheet and this Chain of Custody form are submitted to STA program management.

| A | B | C |
|---|---|---|
| | | |

| Client Sample ID and Special Instructions | 1. List Feedstocks 2. Check all that apply 3. List % by volume. (Optional) | | Collection Date/Time | Sample Matrix | Composting Operation Type | Shipping Temperature | Indicate Compost Analysis Requirements (*identify state) | | | | LAB USE ONLY Job Number & Sample Status |
|---|---|---|---|---|---|---|---|---|---|---|---|
| STAV217 | ✓ Green waste | ___ Carcass | Date: 2/15/17 | Compost X | Windrow X | Ambient O | STA Suite | State DOT | A | B | C | |
| | ___ Manure | ___ Fish Waste | Time: 11:00 Am | Feedstock O | Static pile O | Wet Ice X | | | | | | |
| | ✓ Food | ___ Grease, Fats | | Mulch O | In-Vessel O | Dry Ice O | | | | | | |
| | ___ Biosolids | | Initials: RS | ____ O | ____ O | | | | | | | |
| | ___ MSW | | | ____ O | ____ O | | | | | | | |
| | ✓ Wood | | | | | | | | | | | |

INFORM THE STA LABORATORY AND SPECIFY THE REQUIRED LABORATORY TESTS WHEN SUBMITTING REGULATED COMPOST SAMPLES (please use spaces A, B and C provided above).

PLEASE PROVIDE SPECIFIC FEEDSTOCK AND OPERATIONAL DETAIL IN THE SPACE PROVIDED.
*YOUR VOLUNTEERED INFORMATION PROVIDES USCC STANDARDS AND PRACTICES COMMITTEE WITH CRUTIAL DATA NEEDED TO BETTER UNDERSTAND THE COMPOSTING PROCESS AND COMPOST END USES.*

| | | Date | Time | | | Date | Time |
|---|---|---|---|---|---|---|---|
| Releasing Signature 1 | RS | 2/15/17 | 11:30 Am | Receiving Signature 1 | STA | 2/16/17 | 1000 |
| Releasing Signature 2 | | Date | Time | Receiving Signature 2 | | Date | Time |
| Releasing Signature 3 | | Date | Time | Receiving Signature 3 | | Date | Time |
| Releasing Signature 4 | | Date | Time | Receiving Signature 4 | | Date | Time |

Midwest Laboratories®

2632981-981 Samples: 1 Page: 3/3
Lara L Mikels 2017 02 16 10:09

Document Number: RC CHKLIST 001
Revision No.: 3
Effective Date: 1/31/17
Page 1 of 1

Lab Number:

**Thermometer Used:** ☐ Therm Fisher IR 12

**Sample Temperature (°C):** 7.2

**Cooler Intact:** ☒ Yes ☐ No
**Received on Ice:** ☒ Yes ☐ No
**Hand Delivered:** ☐ Yes ☒ No

**Date & Initials of person accepting samples:** AM 2/16/17

| | | | | Comments: |
|---|---|---|---|---|
| Chain of Custody present? | ☒ Yes | ☐ No | ☐ N/A | |
| Chain of Custody complete? | ☒ Yes | ☐ No | ☐ N/A | |
| Sample ID(s): | ☒ Yes | ☐ No | ☐ N/A | |
| Sample Location(s): | ☒ Yes | ☐ No | ☐ N/A | |
| Client Contact: | ☒ Yes | ☐ No | ☐ N/A | |
| Analysis Requested: | ☒ Yes | ☐ No | ☐ N/A | |
| Sampler name on COC? | ☒ Yes | ☐ No | ☐ N/A | |
| Date & Time of collection: | ☒ Yes | ☐ No | ☐ N/A | |
| Sample labels match COC? | ☒ Yes | ☐ No | ☐ N/A | |
| Written in indelible ink? | ☒ Yes | ☐ No | ☐ N/A | |
| Labels indicate proper preservation? | ☒ Yes | ☐ No | ☐ N/A | |
| Chain of Custody relinquished with signature? | ☒ Yes | ☐ No | ☐ N/A | |
| Samples arrived within hold time? | ☒ Yes | ☐ No | ☐ N/A | |
| Sufficient volume? | ☒ Yes | ☐ No | ☐ N/A | |
| Appropriate containers used? | ☒ Yes | ☐ No | ☐ N/A | |
| Filtered volume received for dissolved tests? | ☐ Yes | ☐ No | ☒ N/A | |
| Headspace in VOA vials? | ☐ Yes | ☐ No | ☒ N/A | |
| Trip Blank present? | ☐ Yes | ☒ No | ☐ N/A | |

**Client Notification/Resolution:** Date/Time Contacted: _____

Person Contacted: _____ Contacted By: _____

Comments/Resolution: _____

_____

_____

_____

_____