

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Nashville  
2960 Foster Creighton Drive  
Nashville, TN 37204  
Tel: (615)726-0177

TestAmerica Job ID: 490-144612-1  
Client Project/Site: TCLP Metals (Forever Lawn)

For:  
Forever Lawn  
2288 Gunbarrel Rd.  
154/114  
Chattanooga, Tennessee 37421

Attn: Joe Leedie



Authorized for release by:  
1/29/2018 10:17:46 AM

Ryan Henry, Project Manager I  
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### LINKS

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*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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# Case Narrative

Client: Forever Lawn  
Project/Site: TCLP Metals (Forever Lawn)

TestAmerica Job ID: 490-144612-1

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**Job ID: 490-144612-1**

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**Laboratory: TestAmerica Nashville**

## Narrative

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**Job Narrative  
490-144612-1**

### Receipt

The sample was received on 1/15/2018 at 9:30am and arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 13.5° C.

### Metals

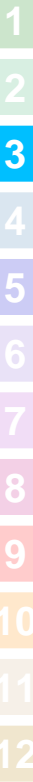
Method(s) 200.7 Rev 4.4, 6010B, 6010C, 6010D: The method only requires a sample run for 3 burns of the internal and this sample meets that requirement, therefore data is being reported.

(CCB 490-491484/76) and (CCV 490-491484/87)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

### Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.



# Definitions/Glossary

Client: Forever Lawn  
Project/Site: TCLP Metals (Forever Lawn)

TestAmerica Job ID: 490-144612-1

## Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|---|
| α              | Listed under the "D" column to designate that the result is reported on a dry weight basis                  |
| %R             | Percent Recovery  |
| CFL            | Contains Free Liquid  |
| CNF            | Contains No Free Liquid   |
| DER            | Duplicate Error Ratio (normalized absolute difference)  |
| Dil Fac        | Dilution Factor   |
| DL             | Detection Limit (DoD/DOE)   |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC            | Decision Level Concentration (Radiochemistry)   |
| EDL            | Estimated Detection Limit (Dioxin)  |
| LOD            | Limit of Detection (DoD/DOE)  |
| LOQ            | Limit of Quantitation (DoD/DOE)   |
| MDA            | Minimum Detectable Activity (Radiochemistry)  |
| MDC            | Minimum Detectable Concentration (Radiochemistry)   |
| MDL            | Method Detection Limit  |
| ML             | Minimum Level (Dioxin)  |
| NC             | Not Calculated  |
| ND             | Not Detected at the reporting limit (or MDL or EDL if shown)  |
| PQL            | Practical Quantitation Limit  |
| QC             | Quality Control   |
| RER            | Relative Error Ratio (Radiochemistry)   |
| RL             | Reporting Limit or Requested Limit (Radiochemistry)   |
| RPD            | Relative Percent Difference, a measure of the relative difference between two points                        |
| TEF            | Toxicity Equivalent Factor (Dioxin)   |
| TEQ            | Toxicity Equivalent Quotient (Dioxin)   |

# Sample Summary

Client: Forever Lawn  
Project/Site: TCLP Metals (Forever Lawn)

TestAmerica Job ID: 490-144612-1

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| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       |
|---------------|------------------|--------|----------------|----------------|
| 490-144612-1  | FLK9F-AS         | Solid  | 01/12/18 16:00 | 01/15/18 09:30 |

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# Client Sample Results

Client: Forever Lawn  
Project/Site: TCLP Metals (Forever Lawn)

TestAmerica Job ID: 490-144612-1

**Client Sample ID: FLK9F-AS**

**Lab Sample ID: 490-144612-1**

**Date Collected: 01/12/18 16:00**

**Matrix: Solid**

**Date Received: 01/15/18 09:30**

## Method: 6010C - Metals (ICP) - TCLP

| Analyte  | Result | Qualifier | RL   | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|------|---|----------------|----------------|---------|
| Arsenic  | ND     |           | 0.50 |     | mg/L |   | 01/24/18 18:09 | 01/25/18 20:33 | 1       |
| Barium   | ND     |           | 10   |     | mg/L |   | 01/24/18 18:09 | 01/25/18 20:33 | 1       |
| Cadmium  | ND     |           | 0.10 |     | mg/L |   | 01/24/18 18:09 | 01/25/18 20:33 | 1       |
| Chromium | ND     |           | 0.50 |     | mg/L |   | 01/24/18 18:09 | 01/25/18 20:33 | 1       |
| Silver   | ND     |           | 0.50 |     | mg/L |   | 01/24/18 18:09 | 01/25/18 20:33 | 1       |
| Lead     | ND     |           | 0.50 |     | mg/L |   | 01/24/18 18:09 | 01/25/18 20:33 | 1       |
| Selenium | ND     |           | 0.10 |     | mg/L |   | 01/24/18 18:09 | 01/25/18 20:33 | 1       |

## Method: 7470A - Mercury (CVAA) - TCLP

| Analyte | Result | Qualifier | RL     | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|--------|-----|------|---|----------------|----------------|---------|
| Mercury | ND     |           | 0.0020 |     | mg/L |   | 01/25/18 08:33 | 01/25/18 13:33 | 1       |

# QC Sample Results

Client: Forever Lawn  
 Project/Site: TCLP Metals (Forever Lawn)

TestAmerica Job ID: 490-144612-1

## Method: 6010C - Metals (ICP)

**Lab Sample ID: MB 490-491183/1-A**  
**Matrix: Solid**  
**Analysis Batch: 491484**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 491183**

| Analyte  | MB Result | MB Qualifier | RL    | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------|-----------|--------------|-------|-----|------|---|----------------|----------------|---------|
| Arsenic  | ND        |              | 0.050 |     | mg/L |   | 01/24/18 18:09 | 01/25/18 20:01 | 1       |
| Barium   | ND        |              | 1.0   |     | mg/L |   | 01/24/18 18:09 | 01/25/18 20:01 | 1       |
| Cadmium  | ND        |              | 0.010 |     | mg/L |   | 01/24/18 18:09 | 01/25/18 20:01 | 1       |
| Chromium | ND        |              | 0.050 |     | mg/L |   | 01/24/18 18:09 | 01/25/18 20:01 | 1       |
| Silver   | ND        |              | 0.050 |     | mg/L |   | 01/24/18 18:09 | 01/25/18 20:01 | 1       |
| Lead     | ND        |              | 0.050 |     | mg/L |   | 01/24/18 18:09 | 01/25/18 20:01 | 1       |
| Selenium | ND        |              | 0.010 |     | mg/L |   | 01/24/18 18:09 | 01/25/18 20:01 | 1       |

**Lab Sample ID: LCS 490-491183/2-A**  
**Matrix: Solid**  
**Analysis Batch: 491484**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 491183**

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits   |
|----------|-------------|------------|---------------|------|---|------|----------|
| Arsenic  | 0.200       | 0.160      |               | mg/L |   | 80   | 80 - 120 |
| Barium   | 2.00        | 1.78       |               | mg/L |   | 89   | 80 - 120 |
| Cadmium  | 0.200       | 0.171      |               | mg/L |   | 86   | 80 - 120 |
| Chromium | 1.00        | 0.849      |               | mg/L |   | 85   | 80 - 120 |
| Silver   | 0.200       | 0.168      |               | mg/L |   | 84   | 80 - 120 |
| Lead     | 1.00        | 0.859      |               | mg/L |   | 86   | 80 - 120 |
| Selenium | 0.200       | 0.162      |               | mg/L |   | 81   | 80 - 120 |

**Lab Sample ID: LCSD 490-491183/3-A**  
**Matrix: Solid**  
**Analysis Batch: 491484**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 491183**

| Analyte  | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | Limits   | RPD | RPD Limit |
|----------|-------------|-------------|----------------|------|---|------|----------|-----|-----------|
| Arsenic  | 0.200       | 0.178       |                | mg/L |   | 89   | 80 - 120 | 11  | 20        |
| Barium   | 2.00        | 1.99        |                | mg/L |   | 99   | 80 - 120 | 11  | 20        |
| Cadmium  | 0.200       | 0.190       |                | mg/L |   | 95   | 80 - 120 | 11  | 20        |
| Chromium | 1.00        | 0.950       |                | mg/L |   | 95   | 80 - 120 | 11  | 20        |
| Silver   | 0.200       | 0.188       |                | mg/L |   | 94   | 80 - 120 | 11  | 20        |
| Lead     | 1.00        | 0.956       |                | mg/L |   | 96   | 80 - 120 | 11  | 20        |
| Selenium | 0.200       | 0.179       |                | mg/L |   | 90   | 80 - 120 | 10  | 20        |

**Lab Sample ID: LB 490-490955/1-B**  
**Matrix: Solid**  
**Analysis Batch: 491484**

**Client Sample ID: Method Blank**  
**Prep Type: TCLP**  
**Prep Batch: 491183**

| Analyte  | LB Result | LB Qualifier | RL   | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------|-----------|--------------|------|-----|------|---|----------------|----------------|---------|
| Arsenic  | ND        |              | 0.50 |     | mg/L |   | 01/24/18 18:09 | 01/25/18 20:27 | 1       |
| Barium   | ND        |              | 10   |     | mg/L |   | 01/24/18 18:09 | 01/25/18 20:27 | 1       |
| Cadmium  | ND        |              | 0.10 |     | mg/L |   | 01/24/18 18:09 | 01/25/18 20:27 | 1       |
| Chromium | ND        |              | 0.50 |     | mg/L |   | 01/24/18 18:09 | 01/25/18 20:27 | 1       |
| Silver   | ND        |              | 0.50 |     | mg/L |   | 01/24/18 18:09 | 01/25/18 20:27 | 1       |
| Lead     | ND        |              | 0.50 |     | mg/L |   | 01/24/18 18:09 | 01/25/18 20:27 | 1       |
| Selenium | ND        |              | 0.10 |     | mg/L |   | 01/24/18 18:09 | 01/25/18 20:27 | 1       |

TestAmerica Nashville

# QC Sample Results

Client: Forever Lawn  
 Project/Site: TCLP Metals (Forever Lawn)

TestAmerica Job ID: 490-144612-1

## Method: 6010C - Metals (ICP) (Continued)

**Lab Sample ID: 490-144612-1 MS**  
**Matrix: Solid**  
**Analysis Batch: 491484**

**Client Sample ID: FLK9F-AS**  
**Prep Type: TCLP**  
**Prep Batch: 491183**

| Analyte  | Sample | Sample    | Spike | MS     | MS        | Unit | D | %Rec | Limits   |
|----------|--------|-----------|-------|--------|-----------|------|---|------|----------|
|          | Result | Qualifier | Added | Result | Qualifier |      |   |      |          |
| Arsenic  | ND     |           | 2.00  | 1.59   |           | mg/L |   | 80   | 75 - 125 |
| Barium   | ND     |           | 20.0  | 17.1   |           | mg/L |   | 85   | 75 - 125 |
| Cadmium  | ND     |           | 2.00  | 1.66   |           | mg/L |   | 83   | 75 - 125 |
| Chromium | ND     |           | 10.0  | 8.24   |           | mg/L |   | 82   | 75 - 125 |
| Silver   | ND     |           | 2.00  | 1.64   |           | mg/L |   | 82   | 75 - 125 |
| Lead     | ND     |           | 10.0  | 8.09   |           | mg/L |   | 81   | 75 - 125 |
| Selenium | ND     |           | 2.00  | 1.64   |           | mg/L |   | 82   | 75 - 125 |

**Lab Sample ID: 490-144612-1 MSD**  
**Matrix: Solid**  
**Analysis Batch: 491484**

**Client Sample ID: FLK9F-AS**  
**Prep Type: TCLP**  
**Prep Batch: 491183**

| Analyte  | Sample | Sample    | Spike | MSD    | MSD       | Unit | D | %Rec | Limits   | RPD | Limit |
|----------|--------|-----------|-------|--------|-----------|------|---|------|----------|-----|-------|
|          | Result | Qualifier | Added | Result | Qualifier |      |   |      |          |     |       |
| Arsenic  | ND     |           | 2.00  | 1.78   |           | mg/L |   | 89   | 75 - 125 | 11  | 20    |
| Barium   | ND     |           | 20.0  | 18.9   |           | mg/L |   | 95   | 75 - 125 | 10  | 20    |
| Cadmium  | ND     |           | 2.00  | 1.84   |           | mg/L |   | 92   | 75 - 125 | 10  | 20    |
| Chromium | ND     |           | 10.0  | 9.14   |           | mg/L |   | 91   | 75 - 125 | 10  | 20    |
| Silver   | ND     |           | 2.00  | 1.81   |           | mg/L |   | 90   | 75 - 125 | 10  | 20    |
| Lead     | ND     |           | 10.0  | 8.96   |           | mg/L |   | 90   | 75 - 125 | 10  | 20    |
| Selenium | ND     |           | 2.00  | 1.81   |           | mg/L |   | 91   | 75 - 125 | 10  | 20    |

## Method: 7470A - Mercury (CVAA)

**Lab Sample ID: MB 490-491235/1-A**  
**Matrix: Solid**  
**Analysis Batch: 491396**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 491235**

| Analyte | MB     | MB        | RL     | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|--------|-----|------|---|----------------|----------------|---------|
|         | Result | Qualifier |        |     |      |   |                |                |         |
| Mercury | ND     |           | 0.0020 |     | mg/L |   | 01/25/18 08:33 | 01/25/18 12:53 | 1       |

**Lab Sample ID: LCS 490-491235/2-A**  
**Matrix: Solid**  
**Analysis Batch: 491396**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 491235**

| Analyte | Spike Added | LCS    | LCS       | Unit | D | %Rec | Limits   |
|---------|-------------|--------|-----------|------|---|------|----------|
|         |             | Result | Qualifier |      |   |      |          |
| Mercury | 0.0200      | 0.0202 |           | mg/L |   | 101  | 80 - 120 |

**Lab Sample ID: LCSD 490-491235/3-A**  
**Matrix: Solid**  
**Analysis Batch: 491396**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 491235**

| Analyte | Spike Added | LCSD   | LCSD      | Unit | D | %Rec | Limits   | RPD | Limit |
|---------|-------------|--------|-----------|------|---|------|----------|-----|-------|
|         |             | Result | Qualifier |      |   |      |          |     |       |
| Mercury | 0.0200      | 0.0203 |           | mg/L |   | 102  | 80 - 120 | 0   | 20    |



# QC Sample Results

Client: Forever Lawn  
 Project/Site: TCLP Metals (Forever Lawn)

TestAmerica Job ID: 490-144612-1

## Method: 7470A - Mercury (CVAA) (Continued)

**Lab Sample ID: LB 490-490955/1-C**  
**Matrix: Solid**  
**Analysis Batch: 491396**

**Client Sample ID: Method Blank**  
**Prep Type: TCLP**  
**Prep Batch: 491235**

| Analyte | LB Result | LB Qualifier | RL     | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|-----------|--------------|--------|-----|------|---|----------------|----------------|---------|
| Mercury | ND        |              | 0.0020 |     | mg/L |   | 01/25/18 08:33 | 01/25/18 13:30 | 1       |

**Lab Sample ID: LB 490-490960/1-C**  
**Matrix: Solid**  
**Analysis Batch: 491396**

**Client Sample ID: Method Blank**  
**Prep Type: TCLP**  
**Prep Batch: 491235**

| Analyte | LB Result | LB Qualifier | RL     | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|-----------|--------------|--------|-----|------|---|----------------|----------------|---------|
| Mercury | ND        |              | 0.0020 |     | mg/L |   | 01/25/18 08:33 | 01/25/18 13:01 | 1       |



# QC Association Summary

Client: Forever Lawn  
 Project/Site: TCLP Metals (Forever Lawn)

TestAmerica Job ID: 490-144612-1

## Metals

### Leach Batch: 490955

| Lab Sample ID     | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------|-----------|--------|--------|------------|
| 490-144612-1      | FLK9F-AS         | TCLP      | Solid  | 1311   |            |
| LB 490-490955/1-B | Method Blank     | TCLP      | Solid  | 1311   |            |
| LB 490-490955/1-C | Method Blank     | TCLP      | Solid  | 1311   |            |
| 490-144612-1 MS   | FLK9F-AS         | TCLP      | Solid  | 1311   |            |
| 490-144612-1 MSD  | FLK9F-AS         | TCLP      | Solid  | 1311   |            |

### Leach Batch: 490960

| Lab Sample ID     | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------|-----------|--------|--------|------------|
| LB 490-490960/1-C | Method Blank     | TCLP      | Solid  | 1311   |            |

### Prep Batch: 491183

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 490-144612-1        | FLK9F-AS               | TCLP      | Solid  | 3010A  | 490955     |
| LB 490-490955/1-B   | Method Blank           | TCLP      | Solid  | 3010A  | 490955     |
| MB 490-491183/1-A   | Method Blank           | Total/NA  | Solid  | 3010A  |            |
| LCS 490-491183/2-A  | Lab Control Sample     | Total/NA  | Solid  | 3010A  |            |
| LCSD 490-491183/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 3010A  |            |
| 490-144612-1 MS     | FLK9F-AS               | TCLP      | Solid  | 3010A  | 490955     |
| 490-144612-1 MSD    | FLK9F-AS               | TCLP      | Solid  | 3010A  | 490955     |

### Prep Batch: 491235

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 490-144612-1        | FLK9F-AS               | TCLP      | Solid  | 7470A  | 490955     |
| LB 490-490955/1-C   | Method Blank           | TCLP      | Solid  | 7470A  | 490955     |
| LB 490-490960/1-C   | Method Blank           | TCLP      | Solid  | 7470A  | 490960     |
| MB 490-491235/1-A   | Method Blank           | Total/NA  | Solid  | 7470A  |            |
| LCS 490-491235/2-A  | Lab Control Sample     | Total/NA  | Solid  | 7470A  |            |
| LCSD 490-491235/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 7470A  |            |

### Analysis Batch: 491396

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 490-144612-1        | FLK9F-AS               | TCLP      | Solid  | 7470A  | 491235     |
| LB 490-490955/1-C   | Method Blank           | TCLP      | Solid  | 7470A  | 491235     |
| LB 490-490960/1-C   | Method Blank           | TCLP      | Solid  | 7470A  | 491235     |
| MB 490-491235/1-A   | Method Blank           | Total/NA  | Solid  | 7470A  | 491235     |
| LCS 490-491235/2-A  | Lab Control Sample     | Total/NA  | Solid  | 7470A  | 491235     |
| LCSD 490-491235/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 7470A  | 491235     |

### Analysis Batch: 491484

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 490-144612-1        | FLK9F-AS               | TCLP      | Solid  | 6010C  | 491183     |
| LB 490-490955/1-B   | Method Blank           | TCLP      | Solid  | 6010C  | 491183     |
| MB 490-491183/1-A   | Method Blank           | Total/NA  | Solid  | 6010C  | 491183     |
| LCS 490-491183/2-A  | Lab Control Sample     | Total/NA  | Solid  | 6010C  | 491183     |
| LCSD 490-491183/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 6010C  | 491183     |
| 490-144612-1 MS     | FLK9F-AS               | TCLP      | Solid  | 6010C  | 491183     |
| 490-144612-1 MSD    | FLK9F-AS               | TCLP      | Solid  | 6010C  | 491183     |

# Lab Chronicle

Client: Forever Lawn  
 Project/Site: TCLP Metals (Forever Lawn)

TestAmerica Job ID: 490-144612-1

**Client Sample ID: FLK9F-AS**

**Lab Sample ID: 490-144612-1**

**Date Collected: 01/12/18 16:00**

**Matrix: Solid**

**Date Received: 01/15/18 09:30**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| TCLP      | Leach      | 1311         |     |            | 60.80 g        | 1216 mL      | 490955       | 01/23/18 20:14       | MS      | TAL NSH |
| TCLP      | Prep       | 3010A        |     |            | 5 mL           | 50 mL        | 491183       | 01/24/18 18:09       | RDF     | TAL NSH |
| TCLP      | Analysis   | 6010C        |     | 1          |                |              | 491484       | 01/25/18 20:33       | JLJ     | TAL NSH |
| TCLP      | Leach      | 1311         |     |            | 60.80 g        | 1216 mL      | 490955       | 01/23/18 20:14       | MS      | TAL NSH |
| TCLP      | Prep       | 7470A        |     |            | 3 mL           | 30 mL        | 491235       | 01/25/18 08:33       | RDH     | TAL NSH |
| TCLP      | Analysis   | 7470A        |     | 1          |                |              | 491396       | 01/25/18 13:33       | RDH     | TAL NSH |

**Laboratory References:**

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177



# Method Summary

Client: Forever Lawn  
Project/Site: TCLP Metals (Forever Lawn)

TestAmerica Job ID: 490-144612-1

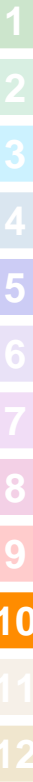
| Method | Method Description | Protocol | Laboratory |
|--------|--------------------|----------|------------|
| 6010C  | Metals (ICP)       | SW846    | TAL NSH    |
| 7470A  | Mercury (CVAA)     | SW846    | TAL NSH    |

**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177



# Accreditation/Certification Summary

Client: Forever Lawn  
 Project/Site: TCLP Metals (Forever Lawn)

TestAmerica Job ID: 490-144612-1

## Laboratory: TestAmerica Nashville

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

| Authority              | Program       | EPA Region | Identification Number    | Expiration Date |
|------------------------|---------------|------------|--------------------------|-----------------|
| A2LA                   | A2LA          |            | NA: NELAP & A2LA         | 12-31-19        |
| A2LA                   | ISO/IEC 17025 |            | 0453.07                  | 12-31-19        |
| Alaska (UST)           | State Program | 10         | UST-087                  | 01-01-18 *      |
| Arizona                | State Program | 9          | AZ0473                   | 05-05-18        |
| Arkansas DEQ           | State Program | 6          | 88-0737                  | 04-25-18        |
| California             | State Program | 9          | 2938                     | 10-31-18        |
| Connecticut            | State Program | 1          | PH-0220                  | 12-31-19        |
| Florida                | NELAP         | 4          | E87358                   | 06-30-18        |
| Georgia                | State Program | 4          | E87358(FL)/453.07(A2L A) | 06-30-18        |
| Illinois               | NELAP         | 5          | 200010                   | 12-09-18        |
| Iowa                   | State Program | 7          | 131                      | 04-01-18        |
| Kansas                 | NELAP         | 7          | E-10229                  | 12-31-17 *      |
| Kentucky (UST)         | State Program | 4          | 19                       | 06-30-18        |
| Kentucky (WW)          | State Program | 4          | 90038                    | 12-31-18        |
| Louisiana              | NELAP         | 6          | 30613                    | 06-30-18        |
| Maine                  | State Program | 1          | TN00032                  | 11-03-19        |
| Maryland               | State Program | 3          | 316                      | 03-31-18        |
| Massachusetts          | State Program | 1          | M-TN032                  | 06-30-18        |
| Minnesota              | NELAP         | 5          | 047-999-345              | 12-31-18        |
| Mississippi            | State Program | 4          | N/A                      | 06-30-18        |
| Montana (UST)          | State Program | 8          | NA                       | 02-24-20        |
| Nevada                 | State Program | 9          | TN00032                  | 07-31-18        |
| New Hampshire          | NELAP         | 1          | 2963                     | 10-09-18        |
| New Jersey             | NELAP         | 2          | TN965                    | 06-30-18        |
| New York               | NELAP         | 2          | 11342                    | 03-31-18        |
| North Carolina (WW/SW) | State Program | 4          | 387                      | 12-31-18        |
| North Dakota           | State Program | 8          | R-146                    | 06-30-18        |
| Ohio VAP               | State Program | 5          | CL0033                   | 07-06-19        |
| Oklahoma               | State Program | 6          | 9412                     | 08-31-18        |
| Oregon                 | NELAP         | 10         | TN200001                 | 04-27-18        |
| Pennsylvania           | NELAP         | 3          | 68-00585                 | 06-30-18        |
| Rhode Island           | State Program | 1          | LAO00268                 | 12-30-17 *      |
| South Carolina         | State Program | 4          | 84009 (001)              | 02-28-18        |
| Tennessee              | State Program | 4          | 2008                     | 02-23-20        |
| Texas                  | NELAP         | 6          | T104704077               | 08-31-18        |
| USDA                   | Federal       |            | P330-13-00306            | 12-01-19        |
| Utah                   | NELAP         | 8          | TN00032                  | 07-31-18        |
| Virginia               | NELAP         | 3          | 460152                   | 06-14-18        |
| Washington             | State Program | 10         | C789                     | 07-19-18        |
| West Virginia DEP      | State Program | 3          | 219                      | 02-28-18        |
| Wisconsin              | State Program | 5          | 998020430                | 08-31-18        |
| Wyoming (UST)          | A2LA          | 8          | 453.07                   | 12-31-19        |

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.



## COOLER RECEIPT FORM

Cooler Received/Opened On 1/15/2018@ 9:30

Time Samples Removed From Cooler 1549 Time Samples Placed In Storage 1550 (2 Hour Window)

1. Tracking # 125RV2790351519739 (last 4 digits, FedEx) Courier: UPS  
IR Gun ID 17960358 pH Strip Lot N/A Chlorine Strip Lot N/A

2. Temperature of rep. sample or temp blank when opened: 13.5 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: \_\_\_\_\_

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) EA

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA



14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # \_\_\_\_\_

I certify that I unloaded the cooler and answered questions 7-14 (initial) AOJ

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) AOJ

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) AOJ

I certify that I attached a label with the unique LIMS number to each container (initial) AOJ

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...# \_\_\_\_\_

Chain of Custody Record

|   |  |   |  |
|---|--|---|--|
| <b>Client Information</b><br>Client Contact: Joe Leedie<br>Company: Forever Lawn<br>Address: 2288 Gunbarrel Rd. 154/114<br>City: Chattanooga<br>State, Zip: TN, 37421<br>Phone: 423-954-0345<br>Email: Joe@foreverlawn.com<br>Project Name: TCLP metals<br>Site:  |  | Lab PM: Henry, Ryan<br>E-Mail: william.henry@testamericainc.com<br>Carrier Tracking No(s):<br>COC No: 490-78450-23478.1<br>Page: Page 1 of 1<br>Job #   |  |
| Due Date Requested:<br>TAT Requested (days): 5TD<br>PO #<br>Purchase Order not required<br>WO #<br>Project #:<br>49013173<br>SSON#:   |  | <b>Analysis Requested</b><br>Perform MS/MSD (Yes or No) X<br>Field Filtered Sample (Yes or No) X<br>Total Number of Containers:   |  |
| <b>Sample Identification</b><br>FLK9F-AS<br>Sample Date: 12 JAN 2018 16:00<br>Sample Time: 16:00<br>Sample Type (C=Comp, G=grab)<br>Matrix (W=water, S=solid, O=waste/soil, BT=tissue/air)<br>Preservation Code:  |  | Preservation Codes:<br>A - HCl<br>B - NaOH<br>C - Zn Acetate<br>D - Nitric Acid<br>E - NaHSO4<br>F - MeOH<br>G - Amchlor<br>H - Ascorbic Acid<br>I - Ice<br>J - DI Water<br>K - EDTA<br>L - EDA<br>Other:<br>M - Hexane<br>N - None<br>O - AsNaO2<br>P - Na2O4S<br>Q - Na2SO3<br>R - Na2SO3<br>S - H2SO4<br>T - TSP Dodecahydrate<br>U - Acetone<br>V - MCAA<br>W - pH 4-5<br>Z - other (specify) |  |
| <b>Possible Hazard Identification</b><br><input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological<br>Deliverable Requested: I, II, III, IV, Other (specify) |  | <b>Special Instructions/Note:</b><br>Not Regulatory<br>LOC: 490<br>144612   |  |
| <b>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</b><br><input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months<br>Special Instructions/QC Requirements:   |  |   |  |
| Empty Kit Relinquished by: [Signature]<br>Relinquished by: [Signature]<br>Relinquished by: [Signature]<br>Relinquished by: [Signature]  |  | Method of Shipment:<br>Received by: [Signature] Date/Time: 1/15/18 0930<br>Received by: [Signature] Date/Time:<br>Received by: [Signature] Date/Time:   |  |
| Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No<br>Custody Seal No.:   |  | Cooler Temperature(s) °C and Other Remarks: 135   |  |

