



**ENTECH**  
ENGINEERING, INC.

505 ELKTON DRIVE  
COLORADO SPRINGS, CO 80907  
PHONE (719) 531-5599  
FAX (719) 531-5238

October 7, 2021  
Revised: January 4, 2022

COLA, LLC  
555 Middle Creek Parkway, Suite 500  
Colorado Springs, CO 80921

Attn: Mark Hollenbeck

Re: Density Testing – Storm Sewer  
The Trails at Aspen Ridge, Phase II  
Colorado Springs, Colorado  
Report No. 1, Tests 1 – 13

Dear Mr. Hollenbeck,

As requested, personnel of Entech Engineering, Inc. have performed density testing at the above referenced site.

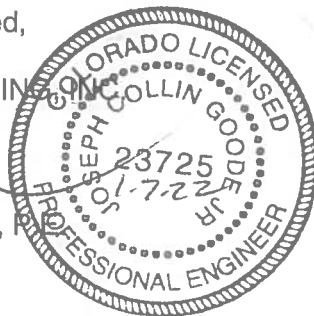
Density testing on this site was performed on September 2, 2021 through September 20, 2021. The density testing indicates that the materials have been adequately compacted at the depths and in the locations noted. Results of the density tests are enclosed with this letter.

We trust that this has provided you with the information you require. Should you have any questions or need further information, please do not hesitate to contact us.

Respectfully Submitted,

ENTECH ENGINEERING, INC.

  
Joseph C. Goode, Jr.,  
President



JCG/el

Enclosure

Entech Job No. 200979

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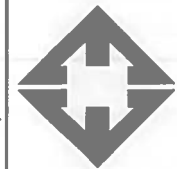
|   |                                |  |
|---|--------------------------------|--|
| <b>Client:</b> COLA, LLC                            | <b>Entech Job #:</b> 200979.4  | <b>Proctor Value Key:</b> M = modified,<br>ASTM D-1557 |
| <b>Project:</b> The Trails at Aspen Ridge, Phase II | <b>Tested By:</b> L. Murray    | S = standard,<br>ASTM D-698                            |
| <b>Subject:</b> Storm Sewer                         | <b>Report Date:</b> 01-05-2022 | T = AASHTO,<br>T-180                                   |

| Test # | Test Location  | Testing Date | Percent Compaction | Percent Required | Percent Moisture | Soil Type | Proctor Type/Value | Pass/Fail                |
|--------|--|--------------|--------------------|------------------|------------------|-----------|--------------------|--------------------------|
| 1      | Between Roundhouse and Turtle Lake Way on Big Johnson Drive, Station 0 + 65, 2' below grade. | 09/02/2021   | 96                 | 95               | 16.0             | CL        | S - 109.1 @ 15.4   | <input type="checkbox"/> |
| 2      | Between Roundhouse and Turtle Lake Way on Big Johnson Drive, Station 0 + 55, at grade.       | 09/02/2021   | 96                 | 95               | 15.4             | CL        | S - 109.1 @ 15.4   | <input type="checkbox"/> |
| 3      | Between Roundhouse and Turtle Lake Way on Big Johnson Drive, Station 2 + 10, 2' below grade. | 09/02/2021   | 96                 | 95               | 15.8             | CL        | S - 109.1 @ 15.4   | <input type="checkbox"/> |
| 4      | Between Roundhouse and Turtle Lake Way on Big Johnson Dr., Station 2 + 60, at grade.         | 09/02/2021   | 96                 | 95               | 15.6             | CL        | S - 109.1 @ 15.4   | <input type="checkbox"/> |
| 5      | Between Turtle Lake Way and Nutterbutter on Big Johnson Dr., Station 1 + 15, 2' below grade. | 09/02/2021   | 97                 | 95               | 15.9             | CL        | S - 109.1 @ 15.4   | <input type="checkbox"/> |
| 6      | Between Turtle Lake Way and Nutterbutter on Big Johnson Dr., Station 1 + 05, at grade.       | 09/02/2021   | 97                 | 95               | 15.9             | CL        | S - 109.1 @ 15.4   | <input type="checkbox"/> |
| 7      | North of Nutterbutter on Big Johnson Dr., Station 1 + 65, 2' below grade.                    | 09/02/2021   | 95                 | 95               | 16.1             | CL        | S - 109.1 @ 15.4   | <input type="checkbox"/> |
| 8      | North of Nutterbutter on Big Johnson Dr., Station 1 + 60, at grade.                          | 09/02/2021   | 95                 | 95               | 15.7             | CL        | S - 109.1 @ 15.4   | <input type="checkbox"/> |
| 9      | Station 3 +00, at grade.   | 9/17/21      | 96                 | 95               | 16.2             | CL        | S - 109.1 @ 15.4   | <input type="checkbox"/> |
| 10     | Station 2 +00, at grade.   | 9/17/21      | 98                 | 95               | 15.4             | CL        | S - 109.1 @ 15.4   | <input type="checkbox"/> |

**Comments:**

Scope of Observation: PERIODIC; CONTRACTOR'S OR CLIENT'S REPRESENTATIVE ADVISED

All dimensions are approximate. Cl. = Centerline



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FIELD DENSITY RESULTS

*Joseph C. Goode, Jr., P.E.*

|   |                                |  |
|---|--------------------------------|--|
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| Test # | Location                                   | Testing Date | Percent Compaction | Percent Required | Percent Moisture | Soil Type | Proctor Type/Value | Pass/Fail                |
|--------|--|--------------|--------------------|------------------|------------------|-----------|--------------------|--------------------------|
| 11     | Bear Track Pt., Station 2 + 25, at grade.  | 9/20/21      | 97                 | 95               | 15.3             | CL        | S - 109.1 @ 15.4   | <input type="checkbox"/> |
| 12     | Bird Ridge Dr., Station 0 + 80, at grade.  | 9/20/21      | 96                 | 95               | 15.7             | CL        | S - 109.1 @ 15.4   | <input type="checkbox"/> |
| 13     | Big Johnson Dr., Station 8 + 50, at grade. | 9/20/21      | 96                 | 95               | 15.5             | CL        | S - 109.1 @ 15.4   | <input type="checkbox"/> |

**Comments:**

Scope of Observation: PERIODIC; CONTRACTOR'S OR CLIENT'S REPRESENTATIVE ADVISED

All dimensions are approximate. Cl. = Centerline

|  |                              |  |
|--|------------------------------|--|
|  <p><b>ENTECH</b><br/>ENGINEERING, INC.<br/>505 Elkton Drive<br/>Colorado Springs, CO 80907<br/>(719) 531-5599 • (719) 531-5238 (fax)</p> | <p>FIELD DENSITY RESULTS</p> | <p><i>Joseph C. Goode, Jr., P.E.</i></p> |
|--|------------------------------|--|