RESOLUTION 25-68

A RESOLUTION AUTHORIZING THE CITY OF SPRING HILL TO PURCHASE PROPERTY FOR A WATER SUPPLY RESERVOIR

WHEREAS, the City of Spring Hill, Tennessee desires to acquire real estate within the City for a water supply reservoir to provide a long term, sustainable and resilient utility system for the citizens of Spring Hill; and

WHEREAS, the developers of the StoneCreek project are willing to assign their interest and purchase agreement to the City of Spring Hill upon terms agreeable to both parties; and

WHEREAS, the purchase of real estate for utility system needs is in the best interest of the City and its residents.

NOW, THEREFORE, BE IT RESOLVED, that the City of Spring Hill, Board of Mayor and Aldermen approve the following:

1. That the Mayor is authorized to execute the attached agreement for purchase of real estate.
2. That City staff and attorney are authorized to perform in accordance with the agreement to effectuate the closing of the property.
3. That the total cost of the agreement, which is estimated to be $8,093,385 (approximately $73,000 per acre), be paid for with available cash in the Sewer Development Fees Fund.
4. That an incidental contingency amount of $250,000 be established to be used for any additional analysis that may be needed prior to closing, and this contingency shall be paid from the Sewer Development Fees fund if needed.

Passed and adopted by the Board of Mayor and Aldermen of the City of Spring Hill, Tennessee on the 3rd day of March, 2025.

Jim Hagaman, Mayor

ATTEST:

April Goad, City Recorder

LEGAL FORM APPROVED:

Patrick Carter, City Attorney

REQUEST:	***Ordinance 25-68***
SUBMITTED BY:	**Dan Allen, Assistant City Administrator**
DATE:	**March 3, 2025**
RE:	**Due Diligence Review for Stone Creek Property Acquisition**

The City of Spring Hill has conducted a comprehensive due diligence review regarding the potential acquisition of the **Stone Creek property**. This analysis covers geotechnical conditions, environmental impacts, regulatory constraints, hydrological assessments, title review, and traffic considerations.

The due diligence process confirms that the **site is suitable for City ownership**, with **no major impediments to conversion into a reservoir**. Based on this thorough review, **staff recommends approval of the acquisition.**

Summary of Due Diligence Findings

1. Geotechnical Report (Universal Engineering Sciences – September 2024)

- The site consists of **residual soils, shallow rock, and karst geology**, with multiple rock outcroppings and potential karst features.
- **Shallow refusal conditions** indicate excavation challenges, particularly for deep cuts such as the planned reservoir.
- **Moisture-sensitive soils** require stabilization before construction.
- **Recommendations:**
    - Consider **rock-bearing shallow foundations** where feasible.
    - Implement **soil stabilization** measures to ensure embankment integrity.
    - During reservoir initial feasibility analysis, additional subsurface investigation should be performed to assess specific underlying karst geology and appropriate construction techniques for dam/reservoir construction.

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2. Regulatory Constraints & Endangered Species Habitat (Davey Resource Group – October 2023)

- Aquatic Features & Wetlands:
    - Rutherford Creek and several intermittent streams traverse the site.
    - Four potential wetlands identified, which may require TDEC Aquatic Resource Alteration Permits (ARAPs).
- Endangered Species Considerations:
    - The site contains mixed hardwood forest and cedar glades, which are potential habitat for federally listed species.
    - The Tennessee coneflower (Echinacea tennesseensis) and the Indiana bat (Myotis sodalis) were identified as species that could inhabit the area.
    - No documented occurrences of federally protected species, but further consultation with US Fish & Wildlife Service (USFWS) may be required if habitat alterations occur.
- Recommendations:
    - Avoid significant disturbances to riparian buffers and wetlands.
    - Conduct seasonal surveys before major land alteration.
    - Coordinate with TDEC and USFWS as necessary.

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3. Hydrologic Determination (TDEC – July 2024)

- TDEC confirmed jurisdictional status for multiple water features, including streams and wetlands.
- Key findings:
    - Intermittent streams and wetlands require preservation or mitigation.
    - Stormwater management plan required for any future alterations.
- Recommendations:
    - Obtain appropriate permits before modifying any streams or wetlands.

- Implement **erosion control measures** during any construction.

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4. US Army Corps of Engineers Jurisdictional Determination (January 2025)

- The **USACE reviewed 155 acres** and issued:
  - **Preliminary Jurisdictional Determinations (PJD) for 5,593 linear feet of streams & 0.05 acres of wetlands.**
  - **Approved Jurisdictional Determinations (AJD) for 3 wetland features** as federally protected under the Clean Water Act.
- **Recommendations:**
  - Maintain a **buffer around jurisdictional waters.**
  - Coordinate with **USACE if land modifications are necessary.**
  - No **USACE permit required for reservoir creation,** assuming no direct impact on designated waters.

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5. Phase I Environmental Site Assessment (GEOServices, LLC – January 2024)

- The site is **free of recognized environmental conditions (RECs)** related to hazardous materials.
- No evidence of **historical industrial use or prior contamination concerns.**
- **Recommendations:**
  - No further environmental assessment is required before acquisition.

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6. Title Commitment (Stewart Title Guaranty Company – June 2024)

- The title review identified **no significant encumbrances, liens, or legal restrictions** that would impede City ownership.
- **Standard title insurance requirements apply,** ensuring a clear and marketable title.

- **Recommendations:**
    - Proceed with acquisition, but update the title commitment to ensure **final title insurance** coverage.

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7. Traffic Impact Analysis (The Corradino Group – June 2024, Updated for Reservoir Plan)

- The City's **decision to convert the land use from residential development to city property eliminates the need for significant roadway improvements** previously required.
- **Avoided Infrastructure Costs:**
    - **Traffic signals at Port Royal Road & Derryberry Lane and Brandon Woods Drive** will not be needed.
    - **Turn lanes on Port Royal Road** will not be required.
    - **New access roads and intersection modifications** planned for the Stone Creek subdivision will no longer be necessary.
- **Recommendations:**
    - **Maintain existing roadway configurations** without new turn lanes.
    - Monitor **long-term transportation planning needs** if future traffic increases due to regional growth.

Conclusion and Recommendation

The due diligence findings indicate that the **Stone Creek property is suitable for acquisition,** with manageable environmental, regulatory, and geotechnical considerations. **No significant barriers** have been identified that would preclude the City from proceeding with the purchase.

Furthermore, **converting the site into a reservoir eliminates the need for substantial roadway infrastructure investments,** significantly reducing long-term costs to the City.

City staff recommends that the Board of Aldermen approve the acquisition of the Stone Creek property to support long-term utility expansion and environmental preservation.

ASSIGNMENT AND ASSUMPTION OF CONTRACT FOR PURCHASE OF REAL ESTATE

This Assignment and Assumption of Contract for Purchase of Real Estate (this "Assignment") is made by and between **360 TN SH, LLC** ("Assignor"), a Delaware limited liability company, and the City of Spring Hill, Tennessee ("Assignee"), and effective as of the date last signed by Assignor and Assignee (the "Effective Date"). Assignor and Assignee are collectively referred to herein as the "Parties."

WHEREAS, Assignor, as "Buyer", and **Crestwood Partners, LLC** ("Seller"), a Tennessee limited liability company, as "Seller", entered into that certain Contract for Purchase of Real Estate (the "Contract") with an effective date of March 21, 2023 for the sale and purchase of approximately 111 acres located in Spring Hill, Maury County, Tennessee (the "Property"), as further set forth in the Contract; and

WHEREAS, Assignor desires to assign to Assignee, and Assignee desires to accept from Assignor all of Assignor's right, title, and interest in, to, and under the Contract, upon the terms and conditions set forth herein below.

Agreement

NOW, THEREFORE, in consideration of the mutual covenants herein contained, the receipt and sufficiency of which are hereby acknowledged, it is agreed as follows:

1. **Affirmation of Recitals**. The Parties acknowledge and agree that the recitals set forth above are true and correct to the best of their knowledge, information, and belief; and the Parties acknowledge that these representations are material terms of this Assignment.

2. **Defined Terms**. Capitalized terms which are not otherwise defined herein have the meaning assigned to such terms in the Contract.

3. **Assignor Representations and Warranties**. Assignor represents and warrants to Assignee as of the Effective Date that:

   a. A true, correct, and complete copy of the Contract and exhibit thereto, the First Amendment to the Contract, and the three (3) Approval Period Extension notices exercised and delivered as of the Effective Date are attached hereto as collective **Exhibit A** and, except as shown therein, the Contract has not been modified, amended, or terminated in any way, orally or in writing, and is in full force and effect.

   b. Seller has not issued any notice under the Contract claiming that Assignor is in default under the Contract, there has been no default by Seller or Assignor under the Contract, and no event has occurred which with notice or lapse of time (or both) would cause a default to occur thereunder.

c. Assignor has no knowledge that any of the representations and warranties under the Contract are untrue or incorrect in any material respect.

d. As of the Effective Date hereof, Assignor has deposited the $50,000 Earnest Money with the Escrow Agent and deposited the $10,000 First Extension Money, the $20,000 Second Extension Money, and the $30,000 Third Extension Money. Pursuant to the terms of the Contract, $10,000 of the Earnest Money has been released to the Seller, and a total of $100,000 remains on deposit with the Escrow Agent.

4. **Assignment**. Subject to and in accordance with the provisions of this Assignment:

a. Assignor hereby assigns and transfers to Assignee all right, title, and interest of Assignor in, to, and under the Contract, including the Earnest Money and the Approval Period Extension deposits, which upon the Effective Date hereof shall be the property of Assignee and applied as a credit to the Purchase Price pursuant to the terms of the Contract; and

b. Assignee hereby accepts the foregoing assignment and assumes and agrees to perform all of the covenants and agreements in the Contract to be performed by the "Buyer" thereunder that arise or accrue from and after the Effective Date of this Assignment.

5. **Fourth Extension Money**. On or before 5:00 pm CST on March 10, 2025, Assignee shall deposit with the Escrow Agent the $40,000 Fourth Extension Money.

6. **Assignment Purchase Price**. The Assignment Purchase Price to be paid to Assignor by Assignee at the Closing on the Property shall be $1,924,300 (the "Assignment Purchase Price"). The Assignment Purchase Price shall be deposited by Assignee with the Escrow Agent in immediately available funds in advance of the Closing on the Property, and simultaneously with the Closing on the Property, the Escrow Agent shall disburse and pay directly to Assignor the Assignment Purchase Price. The Assignment Purchase Price shall be separate and independent from the Purchase Price, prorations, closing fees, and other adjustments to be made between Buyer and Seller pursuant to the terms of the Contract, and shall not be set forth on the settlement statement in connection with the Closing on the Property. The Assignment Purchase Price shall be set forth on a separate settlement statement to be executed by Assignor and Assignee.

7. **Assignor Reliance and Damages**. The Parties acknowledge and agree that Assignor would not have entered into this Assignment but for the fact that Assignee has agreed to pay the Assignment Purchase Price. If the Closing on the Property shall fail to occur as such time as provided in the Contract, then Assignee shall be in breach of this Assignment and shall pay the Assignment Purchase Price to Assignor within ten (10) days of such default. There shall be no cure period for a failure to Close on the Property consistent with the terms of the Contract. The payment of the Assignment Purchase Price shall be Assignor's sole and exclusive remedy in the event of such default and shall constitute Assignor's full liquidated damages as a result of such default. The Parties acknowledge and agree that: (a) ascertaining precisely the damages that would be suffered by Assignor in the event of a default by Assignee would be costly, time-

consuming, and difficult, if not impossible, (b) the amount of the Assignment Purchase Price, constitutes a good faith estimate by the Parties of the damages to Assignor that would arise from a default by Assignee; and (c) this agreed and stated amount is intended not as a penalty but as fully liquidated damages to Assignor for a default by Assignee.

8. **Memorandum of Understanding**. Assignee acknowledges and agrees that as of the Effective Date of this Assignment, the Memorandum of Understanding dated May 6, 2024 (the "MOU") is terminated and of no further force or effect. The Parties and, as applicable, their owners, officers, employees, representatives, successors and assigns, do hereby release, acquit and forever hold harmless each other from any and all claims, actions, demands, rights, damages, costs, expenses, loss of income or compensation, which either Assignor or Assignee now has or which may hereinafter accrue on account of, or in any way grow out of, any and all, known and unknown, foreseen and unforeseen, injuries or damages of any kind whatsoever, and the consequences thereof, in connection with the MOU.

9. **Indemnification**. To the fullest extent permitted by law, Assignor, for itself and for its agents, representatives, employees, independent contractors or any other person or entity acting for or on its behalf, agrees to indemnify and hold harmless the Assignee from all claims, liabilities, or out of pocket damages whether in tort, contract, or otherwise arising out of or related to actions or inaction by Assignor in connection with or arising out of the Contract (collectively, "Claims"), but only to the extent the Claims occurred prior to the Effective Date of this Assignment and have not arisen from or in connection with the negligent acts, errors, or omissions of Assignee occurring after the Effective Date of this Assignment.

10. **Notices**. All notices, requests, approvals, consents, and other communications required or permitted under this Assignment must be given in writing and shall be deemed made on the date of hand delivery, the date of electronic transmittal, or the day after deposit of certified or registered, return receipt U.S. Mail or next day delivery by other reputable parcel service to the Party at the address or contact information set forth below. The Parties shall be responsible for notifying each other in writing of any change of address and contact information.

If to Assignee: City of Spring Hill
Attn: Chris Clausi, Interim City Manager
8060 Station Hill Drive
Spring Hill, TN 37174
Email: cclausi@springhilltn.org

with a copy to: City of Spring Hill
Attn: Patrick Carter, City Attorney
Email: pcarter@mtlawgroup.net

If to Assignor 360 TN SH, LLC
Attn: Randy Teteak and Amy Hendrick
500 Boylston Street, Suite 2010
Boston, MA 02116
Email: rwt@freeholdcm.com and abh@freeholdcm.com

11. **Assignment**. Neither Assignor nor Assignee shall have the right to assign its rights and/or obligations Under this Assignment to any other person or entity without the prior written consent of the other Party.

12. **Successors and Assigns**. This Agreement shall be binding upon and enforceable against, and shall inure to the benefit of, the Parties and their respective legal representatives, successors, and assigns.

13. **Relationship of the Parties**. Nothing contained herein is intended to create, nor shall it ever be construed to make, Assignor and Assignee partners or joint venturers.

14. **Time of Essence**. Time shall be of essence in the performance of the terms and conditions of this Assignment. In the event any time period specified in this Assignment expires on a Saturday, Sunday or bank holiday on which national banks in Tennessee are closed for business, then the time period shall be extended so as to expire on the next business day immediately succeeding such Saturday, Sunday or bank holiday.

15. **Applicable Law and Jury Waiver**. This Assignment shall be governed by and construed and enforced in accordance with the laws of the State of Tennessee. ASSIGNOR AND ASSIGNEE EACH AGREE TO WAIVE A TRIAL BY JURY IN ANY DISPUTE ARISING OUT OF THIS ASSIGNMENT.

16. **Entire Agreement**. This Assignment supersedes all prior discussions and agreements between Assignor and Assignee with respect to the transaction contemplated herein. This Assignment contains the sole and entire understanding between Assignor and Assignee with respect to the transaction contemplated by this Assignment, and all promises, inducements, offers, solicitations, agreements, representations, and warranties heretofore made between the Parties are merged into this Assignment. This Assignment reflects the negotiated agreement of the Parties. Each Party acknowledges that they have been afforded the opportunity to seek competent legal counsel, and that each have made an informed choice as to whether or not to be represented by legal counsel. Accordingly, this Agreement shall be construed as if both Parties jointly prepared it, and no presumption against one Party or the other shall govern the interpretation or construction of any of the provisions of this Assignment. This Assignment shall not be modified or amended in any respect by a written instrument executed by the Parties.

17. **Further Actions**. The Parties agree to execute and deliver any additional document(s) reasonably required to satisfy the purposes of this Assignment.

18. **Counterparts and Signatures**. This Assignment may be executed in multiple counterparts, each of which shall be deemed an original and all of which, collectively, shall be one and the same instrument. Further electronic signatures shall be as binding as originals, and signatures transmitted by electronic means shall be deemed originals and shall be binding upon the Parties.

[*Signatures on Next Page*]

IN WITNESS WHEREOF, the Parties have caused this Assignment to be executed, effective on the last date shown below.

ASSIGNOR:

360 TN SH, LLC,
a Delaware limited liability company

By: _____

Print
Name: _____

Its: _____

Date: _____ / _____ / _____

ASSIGNEE:

City of Spring Hill, Tennessee

By: _____

Print
Name: _____

Its: _____

Date: _____ / _____ / _____

Exhibit A

COPIES OF CONTRACT AND
APPROVAL PERIOD EXTENSION NOTICES
ON FOLLOWING PAGES

DocuSign Envelope ID: 3B0EF70A-DAFC-4AF4-AD4E-3DFA0CA5C3FA

CONTRACT FOR PURCHASE OF REAL ESTATE

THIS CONTRACT FOR PURCHASE OF REAL ESTATE (the "***Contract***") by and between **Crestwood Partners, LLC**, a Tennessee limited liability company (the "***Seller***"), and **360 TN SH, LLC**, a Delaware limited liability company, and its successors and/or assigns (the "***Buyer***").

WITNESSETH

For and in consideration of Ten dollars ($10.00) paid to Seller by Buyer, the covenants herein contained and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Seller and Buyer agree as follows:

1. **Sale and Purchase.** Subject to and in accordance with the terms of this Contract, Seller agrees to sell to Buyer, and Buyer agrees to purchase from Seller, that certain real property more or less identified as one (1) parcel in **Maury County, Parcel 27.00, Tax Map 44,** located against I-65, in Maury County, Tennessee, with the total purchase being for approximately **111** +/- acres and as depicted in Exhibit A, together with all buildings, structures, fixtures, crops, timber, and other improvements thereon and including all mineral rights, development rights, zoning, easements, interests, privileges, tenements and hereditaments appurtenant thereto (collectively, the "***Property***").

2. **Purchase Price.** The Purchase Price for the Property will be Six Million Two Hundred Twenty-Five Thousand Six Hundred Ninety-Four and 00/100 Dollars **($6,225,694)** (the "***Purchase Price***"), adjusted to **$56,087.33** per acre. The exact acreage of the Property shall be determined by a Survey, to be prepared and the Survey stamped by a reputable registered state licensed land surveyor. The Purchase Price shall be adjusted up or down and determined by the exact acreage in the Survey all subject to the contingencies as set forth in this contract. At Closing, as defined herein, the Purchase Price shall be payable by Buyer to Seller in cash by wire transfer, subject to closing adjustments as set forth herein.

3. **Earnest Money.**

(a) Within Thirty (30) days after the Effective Date, Buyer shall deposit Fifty Thousand and No/100 Dollars **($50,000.00)** of the Purchase Price (the "***Earnest Money***"). The Earnest Money shall be deposited with Stewart Title, Southland Division, attention Jennifer Dunlap Stacey, with an address of 7101 Executive Center Drive, Suite 151, Brentwood, Tennessee 37027 ("***Escrow Agent***"), which amount, plus all interest earned thereon, is referred to in this Contract as the "Earnest Money". Subject to Section 3(b) hereof, the Earnest Money shall be paid to Seller and credited against the Purchase Price at Closing. If this Contract is terminated, the Earnest Deposit shall be disbursed in accordance with the applicable terms as stated herein.

(b) The Earnest Money shall be released to Seller and become non-refundable (except in the case of Seller default or as otherwise provided in this Contract) as follows:

(i) $10,000 upon approval by the City of Spring Hill, Tennessee (the "***City***") of Buyer's Water and Sewer Analysis, allowing for not less than 1,096 units, the mix of which shall be subject to Buyer's approval in its sole discretion;

(ii) $10,000 upon approval by the City of Buyer's Development Site Plan and/or Preliminary Development Plan and/or Planned Development Preliminary Plan, as applicable;

(iii) $10,000 upon completion of a Traffic Impact Study conducted and approved by the City and acceptable to Buyer in Buyer's sole discretion;

(iv) $10,000 upon City approval of Buyer's Final Plat and/or Planned Development Final Plan; and

(v) $10,000 upon issuance of a USACE and TDEC permits for all jurisdictional impacts (onsite and offsite) in a form acceptable to Buyer in its sole discretion.

4. **Feasibility Period.** Beginning on the Effective Date and expiring at 5:00 PM CST on the Ninetieth (90th) day after the Effective Date ("***Feasibility Period***"), Buyer shall have the right to conduct such independent investigations as Buyer deems necessary or appropriate concerning the condition, use, sale, development or suitability of the Property to determine the feasibility of the property being suitable for Buyer's intended use. On or before the expiration of the Feasibility Period, the Buyer may elect, to either: (i) terminate this Contract, whereupon the Earnest Money shall be released to Buyer and neither party shall owe any further duty to the other hereunder; (ii) proceed with the purchase of the Property in accordance with this Contract; or (iii) proceed into the Approval Period in accordance with this Contract.

5. **Approval Period.** For purposes of this Contract, the term "***Approval Period***" shall mean and refer to the period commencing at 5:00 p.m. CT on the last day of the Feasibility Period and expiring at 5:00 p.m. CST on the Three Hundred and Sixtieth (360th) day thereafter. During the Feasibility Period and Approval Period, as the same may be extended, Seller hereby authorizes Buyer, at Buyer's expense, to seek and obtain, but not limited to, any and all permits, licenses, variances, site and development plan approvals, subdivision approvals, flood studies, permits and authorizations, zoning approvals, Army Corps of Engineer permits, Tennessee Department of Environment and Conservation Permits, annexation or changes, curb-cut approvals, and any and all other approvals or consents as Buyer may deem necessary or desirable in connection with its proposed use or development of the Property (collectively, the "***Approvals***"). Seller agrees, upon request, to execute such reasonable documents, join in such applications, and otherwise cooperate with and assist in obtaining any necessary governmental or quasi-governmental approvals relating to the obligations of Seller under this Agreement or relating to the development of the Property, or any other matters relating to the construction of improvements within the Property and the construction of dwelling units on the Property. Seller shall not interfere with or oppose or request or permit any related entity to interfere with or oppose, the proposed development of the Property as contemplated pursuant to the provisions of this Agreement.

6. **Extended Approval Period.** On or before the expiration of the Approval Period, if the Buyer is not satisfied with the Property for any reason or no reason, the Buyer may elect, to either: (i) terminate this Contract, whereupon the Earnest Money shall be released to Buyer and neither party shall owe any further duty to the other hereunder; (ii) elect to proceed with the purchase of the Property in accordance with this Contract or; (iii) notify Seller in writing, it thereby extends the Approval Period up to four times by way of four (4) paid extensions (the "***Approval Period Extensions***"), as provided in (6.1), (6.2), and (6.3) below.

6.1 Buyer may, in its sole discretion, extend the Approval Period for up to Four (4) separate, Ninety (90) day extension periods, (the "***First Extension***", "***Second Extension***", "***Third Extension***" and "***Fourth Extension***", collectively the "***Extension Options***").

6.2 Buyer may extend the Approval Period for Ninety (90) days upon deposit with the Escrow Agent the sum of Ten Thousand and No/100 Dollars **($10,000.00)** (the "***First Extension Money***"). Buyer may further extend the Approval Period for an additional Ninety (90) day extension period upon deposit with the Escrow Agent of Twenty Thousand and No/100 Dollars **($20,000.00)** for such extension (the "***Second Extension Money***"). Buyer may further extend the Approval Period for an additional Ninety (90) day extension period upon deposit with Escrow Agent of Thirty Thousand and No/100 Dollars **($30,000.00)** for such extension (the "***Third Extension Money***"). Buyer may further extend the Approval Period for an additional Ninety (90) day extension period upon deposit with Escrow Agent of Forty Thousand and No/100 Dollars **($40,000.00)** for such extension (the "***Fourth Extension Money***"). The First Extension Money, Second Extension Money, Third Extension Money, and Fourth Extension Money shall be collectively referred to as the "***Extension Money(s)***".

6.3 If Buyer chooses to exercise any or all of the Extension Options, it shall (i) so notify Seller, in writing, on or before the date that the Extension Period is then set to expire, and (ii) contemporaneously deliver to Escrow Agent

the Extension Money(s). Such Extension Money(s) shall: (i) be credited against the Purchase Price at Closing and; (ii) be nonrefundable to Buyer except in the event of a default by Seller.

7. **Cooperation.** Within Thirty (30) business days after the Effective Date, Seller shall furnish Buyer with a copy of all materials related to the development or physical condition of the Property in Seller's possession or control, including, but not limited to, development agreements, annexation agreements, utility information, engineering plans, market studies, plats, surveys, soil test results, geotechnical reports, wetlands assessments, hydrological assessments, drainage analyses, endangered species, archeological assessments and environmental information. Seller shall promptly furnish Buyer with any other information related to the Property that Buyer may request, in writing, if the same is within Seller's possession or control. In addition, Buyer and its agents, employees, contractors and representatives shall have the right to enter upon the Property for purposes of inspecting the same and performing tests, surveys, geotechnical reviews, soil tests, site assessments and engineering, environmental audits and borings, feasibility studies and other similar activities. Buyer shall indemnify and save Seller harmless from and against any and all actual damages resulting from any inspection activity engaged in or upon the Property by the Buyer or its agents, employees, contractors and representatives on the Property with the permission, or at the direction of, the Buyer. As a result of Buyer's inspection, the Buyer will reasonably restore the Property. Between the Effective Date and the Closing, Seller shall not cause or permit any waste or damage to occur to the Property or allow the Property to be encumbered in any manner, make any changes, alterations or additions to the Property, or enter into any covenant, condition, restriction, easement, lease or other agreement which affects or could affect the Property.

8. **Title and Survey.** As part of its review of the Property, during the Approval Period, Buyer may obtain, at Buyer's cost and expense, (i) a commitment for an ALTA Owner's Extended Coverage Policy of Title Insurance (Form 1992) showing the status of title to the Property (the ***"Commitment"***) and (ii) a ALTA survey of the Property prepared and certified by a Tennessee Land Title Surveyor indicating to the nearest one one-hundredth (1/100) of an acre the total number of acres and/or fraction thereof contained in the Property (the ***"Survey"***). The legal description established by the survey shall be used to convey Seller's title in the Property to Buyer. The Survey shall include the amount of square footage, registered historical property or buildings, current zoning, location of any improvements should they exist, all recorded and apparent easements (including easements for utilities and right of ways), 100-year flood plain contour line, floodway contour line, topographical contour lines, right-of-way and encroachments. In the event that the transaction contemplated by this Contract is consummated, Buyer shall receive a credit at Closing for the expense of the ALTA Survey, Topographical Survey and Commitment. If Buyer has any objections to the status of title to the Property (including, but not limited to, the exceptions and requirements set forth in the Commitment) or to matters shown on the Survey including, but not limited to, encroachments across the boundaries of the Property, impermissible encroachments on to easements affecting the Property, boundary line disputes, gaps or gores in the Property or intervening strips owned by others within boundaries of the Property (collectively, the "***Objections***"), Buyer shall give Seller written notice of the same no later than fifteen (15) days after the receipt of the Commitment and the Survey. Seller agrees to use its best efforts to cure the Objections to Buyer's satisfaction within thirty (30) days after receipt of such written notice, and Seller agrees to satisfy all of the requirements set forth on Schedule B, Section 1 of the Commitment at or prior to Closing. If Buyer notifies Seller of any Objections on or before the date the Approval Period expires, then the Approval Period shall automatically be extended by the number of days that it takes Seller to cure such Objections to Buyer's satisfaction; provided in no event shall the Approval Period be extended by more than forty-five (45) days as a result of the operation of this provision. At the Closing, Seller agrees to pay the premium for an Owner's Policy of Title Insurance (the "***Title Policy***") issued to Buyer based on the Commitment. The coverage afforded by the Title Policy shall equal the Purchase Price, and the Title Policy shall contain such endorsements as Buyer may reasonably require. If Seller fails to cure any of the Objections to Buyer's satisfaction, as determined by Buyer in its sole and absolute discretion, within such forty-five (45) days, then Buyer may, in addition to any other remedies available hereunder or at law or in equity, (i) terminate this Contract by giving written notice to Seller prior to Closing, in which case the Earnest Money and Extension Money(s) shall be immediately refunded to Buyer, or (ii) waive the uncured Objections and proceed to Closing.

9. **Sellers Representations and Warranties.** Seller hereby represents and warrants to Buyer as of the date of this Agreement, as follows:

9.1 Power. Seller has the legal power, right and authority to enter into this Agreement and the instruments referenced herein, to perform its obligations hereunder and to consummate the transaction contemplated hereby.

9.2 Requisite Action. All requisite action (corporate, partnership, or otherwise) has been taken by Seller in connection with the entering into of this Agreement, the execution and delivery of the instruments referenced herein, and the consummation of the transactions contemplated hereby.

9.3 Authority. The individuals executing this Agreement and the instruments referenced herein on behalf of Seller have the legal power, right and actual authority to bind Seller to the terms and conditions hereof and thereof.

9.4 Income Tax Information. Seller is not a non-resident alien, a foreign corporation, a foreign partnership, a foreign trust, nor a foreign estate (as those terms are defined in the United States Internal Revenue Code and Income Tax Regulations) for purposes of United States income taxation.

9.5 Hazardous Materials. Seller has not introduced, or knowingly permitted any other party to introduce, any hazardous materials, hazardous substances or hazardous waste on or under the Property in violation of Applicable Environmental Laws (as defined herein); and, to the actual knowledge of Seller, the Property presently complies with Applicable Environmental Laws.

9.6 Enforceability. This Agreement constitutes the legal, valid and binding obligation of Seller, enforceable against Seller in accordance with its terms, subject only to applicable bankruptcy, insolvency, reorganization, moratorium or similar laws or equitable principles affecting or limiting rights of contracting parties generally.

9.7 Litigation; Bankruptcy. To the best knowledge of Seller, there are no pending or threatened lawsuits affecting or relating to the Property or any portion thereof. Further, there are no attachments, executions, or assignments for the benefit of creditors, or voluntary or involuntary proceedings in bankruptcy or under any other debtor-relief laws pending or, to Seller's actual knowledge, threatened against Seller.

9.8 Condemnation. To the best knowledge of Seller, there are no condemnation proceedings, eminent domain proceedings or similar actions or proceedings now pending against the Property, and Seller has received no written notice of any such proceedings or actions that have been threatened against the Property.

9.9 Previous Use. To the best of Seller's knowledge, no portion of the Property has been used as a junkyard, dump, or mine, no fill material (soil, gravel or other) has been placed on the Property, and no debris (organic or inorganic) has been buried on the Property.

9.10 Land Dispute. To the best knowledge of Seller, at the time of the Contract there is not any dispute with any adjoining landowner regarding the location of any property lines, encroachments, or other such matters.

10. Buyer's Representations and Warranties. Buyer hereby represents and warrants to Seller as of the date of this Agreement, as follows:

10.1 Power. Buyer has the legal power, right and authority to enter into this Agreement and the instruments referenced herein, to perform its obligations hereunder, and to consummate the transaction contemplated hereby.

10.2 Requisite Action. All requisite action (corporate, partnership or otherwise) has been taken by Buyer in connection with the entering into of this Agreement, the execution and delivery of the instruments referenced herein, and the consummation of the transaction contemplated hereby.

10.3 Authority. The individuals executing this Agreement and the instruments referenced herein on behalf of Buyer have the legal power, right and actual authority to bind Buyer to the terms and conditions hereof and thereof.

11. **Monetary Liens.** At or prior to Closing, Seller shall cause all liens, monetary judgments, mortgages, deeds of trust, security interests and other similar encumbrances affecting the Property (collectively "***Monetary Liens***") to be released and discharged. In the event Seller fails to cause all Monetary Liens to be released and discharged by Closing, Buyer may, in addition to any of the other remedies available hereunder or at law or in equity, take all actions necessary to cause such Monetary Liens to be released and discharged and offset the cost thereof against the Purchase Price.

12. **Closing.** If at the end of the Approval Period, as may be extended, the Buyer has not previously provided written notice to terminate the Contract, and the Buyer opts to proceed to Closing, the Buyer shall so notify Seller, in writing of its intention to Close on or before the date the Approval Period, as may be extended, is then set to expire (the "***Notice to Close***"). The exact time, date and location of the Closing shall be determined between Buyer and Seller, and Buyer may schedule the Closing for any date prior to thirty (30) days after the end of the Approval Period, as may be extended. At the Closing, Seller shall deliver the following items to Buyer, properly executed and notarized and in form and substance acceptable to Buyer:

(i) A general warranty deed conveying good and marketable fee simple absolute estate in the Property to Buyer with vacant possession, together with (A) all rights, easements, interests, privileges, tenements and hereditaments appurtenant to Property, and (B) all of Seller's right, title and interest, whether now or hereafter acquired, in the land lying beneath the roads, streets, highways, avenues and alleys adjoining the Property. The Property shall be conveyed to Buyer (and the warranties contained in the aforementioned deed shall be made) subject only to the matters shown on Schedule B-Section II of the Commitment (except the standard exceptions, matters no longer affecting the Property and Monetary Liens).

(ii) Recorded or recordable releases terminating and releasing all Monetary Liens.

(iii) An owner's affidavit for purposes of having the exceptions for mechanics' and materialmen's liens, the rights of parties in possession and unrecorded matters deleted from the Commitment, and any other documents, certificates and indemnity agreements that the title company requires to issue the revised version of the Commitment described herein.

(iv) All other documents reasonably requested by Buyer to carry out the transaction contemplated by this Contract, including, but not limited to, an IRS §1445 Certificate.

(v) If the description of the Property set forth on the Survey differs from the description of the Property attached as **Exhibit A**, the deed described in (i) of this Section shall be prepared utilizing the description of the Property set forth on the Survey and Seller shall execute a quitclaim deed conveying the Property as described on **Exhibit A** to Buyer. Immediately upon the completion of the Closing, Seller shall deliver exclusive possession of Property to Buyer.

13. **Closing Costs and Prorations.** Each of the parties shall pay the attorneys' fees that it incurs in connection with the transaction contemplated by this Contract. At Closing, Seller shall pay all transfer taxes and recording costs associated with the conveyance of the Property to Buyer. Assessments (general and special, public and private) and real property taxes (collectively, "***Property Taxes***") levied against the Property for the year in which the Closing takes place shall be prorated between the parties and paid at Closing, and Seller shall also pay any unpaid Property Taxes levied against the Property that are attributable to prior years at such time. If the Property is considered part of a larger tract for purposes of any Property Tax, then such Property Tax shall be paid at Closing, with the portion thereof attributable to the Property (on a per acre basis) being allocated between the parties as provided above and Seller paying the remainder. If any Property Tax to be paid by the parties hereunder cannot be paid at Closing, Buyer shall receive a credit against the Purchase Price equal to Seller's share thereof, and Buyer shall thereafter be responsible for paying the same; provided if such credit is not sufficient to pay Seller's share of the Property Tax in question, Seller shall pay the remainder of its share thereof to Buyer, upon demand. If the amount of any Property Tax is not known with certainty as of the Closing, the same shall be estimated based on the best available information, with adjustment between the parties as soon as reasonably possible. The provisions of this section shall survive the Closing and the delivery of the deed.

14. **Rollback Taxes.** Seller shall be responsible for paying all taxes levied against the Property that are attributable to the period prior to Closing and arise as a result of the Property having been classified as agricultural land, open space, recreational, park or scenic land, timber land or another classification that defers the taxes owed with respect to the property (such taxes being referred to herein as "***Rollback Taxes***"). If Seller's shares of any Rollback Taxes are not payable as of the Closing, Seller shall deposit 125% of the estimated amount thereof with the Escrow Agent, and Seller shall take such other action as is necessary to delete any exception for Rollback Taxes from the Commitment. In addition, Seller agrees to indemnify, defend and hold Buyer harmless from and against any and all claims, suits, actions, proceedings, liabilities, damages, costs and expenses (including, without limitation, reasonable court costs, litigation expenses and attorney fees) arising out of a redetermination or reassessment of taxes due to the Property (or any portion thereof) having been treated during the period prior to Closing in a manner that defers the assessment of taxes. The provisions of this section shall survive the Closing and the delivery of the Deed.

15. **Default.** If Buyer fails to purchase the Property from Seller in breach of this Contract and does not cure such failure within thirty (30) business days after receiving written notice of the same from Seller, then Seller may, as its sole and exclusive remedy, terminate this Contract and receive the Earnest Money as full and agreed upon liquidated damages. Seller agrees that said liquated damages are reasonable given existing circumstances, including without limitation, the range of harm that is foreseeable and the anticipation that proof of damages would be costly and impractical. Seller acknowledges that it understands this Section and specifically waives and relinquishes all other remedies that would otherwise be available at law or equity on account of Buyer's failure to purchase the Property in breach of this Contract. If Seller defaults under this Contract and does not cure such failure within thirty (30) days after receiving written notice of the same from Buyer, then Buyer may receive a return of its Earnest Money and Extension Money(s) paid hereunder, and seek any remedy available to it at law or in equity, including, without limitation, the remedy of specific performance. In the event Buyer terminates this Contract, Buyer, within ten (10) days of written request from Seller, shall provide Seller with copies in Buyer's possession or control of any survey, engineering studies or other items prepared for Buyer in connection with the Property ("***Diligence Information***") during the Approval Period and/or Feasibility Period. As a condition of Buyer's production of any Diligence Information, Seller acknowledges and agrees that (i) Buyer makes no covenant, representation or warranty whatsoever as to such information, including, without limitation, its content, reliability, accuracy or completeness, (ii) if Seller uses or relies on any information provided by Buyer, Seller shall do so solely at Seller's own risk, and Buyer makes no representation, warranty or assurance as to whether Seller has any right to use or rely thereon, (iii) the parties preparing any such information are not the agents of Buyer, (iv) Buyer shall have no duty to advise Seller of any misrepresentations, misstatements, mistakes, errors or other inaccuracies contained in such information, and (v) Buyer shall have no liability, and is hereby released from all liability, to Seller, its successors and/or assigns, with respect to such information, including, without limitation any liability for misrepresentations, misstatements, mistakes, errors or other inaccuracies contained in such information.

16. **Seller's Indemnity.** Seller agrees to indemnify, defend & hold harmless Buyer for, from and against all claims, suits, actions, fines, penalties, liabilities, damages, costs & expenses (including, without limitation, reasonable attorneys' fees, litigation expenses and court costs) arising out of or resulting from: (i) the ownership, operation, use or enjoyment of the Property prior to Closing, or (ii) the presence of any Hazardous Substances located on or discharged from the Property prior to the completion of the Closing, unless Seller establishes that the same were located on the Property prior to its acquisition thereof or migrated onto the Property from land not owned, leased or controlled by Seller. The provisions of this section shall survive the Closing and the delivery of the deed conveying the Property to Buyer.

17. **Due Diligence Materials.** The due diligence materials provided with respect to the Property is solely for Buyer's convenience and was or will be obtained from a variety of sources. Buyer makes no (and expressly disclaims all) representations as to the accuracy or completeness of such information.

18. **Condemnation.** In the event there is an actual or threatened taking of all or any portion of the Property by condemnation or eminent domain prior to Closing, Buyer may, at its option, (i) terminate this Contract by written notice to Seller, in which event the Earnest Money and Extension Money(s), if any, shall be immediately refunded to Buyer, or (ii) proceed with the Closing with a corresponding reduction in the Purchase Price on a per lot (or unit) lost

basis, in which case Buyer shall have the right to control all matters related to such taking (including, but not limited to, the negotiation, contest and settlement of condemnations awards) and, at Closing, Seller shall tender to Buyer all awards which it has received on account of such taking and assign to Buyer all of Seller's right, title and interest in and to any unpaid awards payable on account of such taking. If such assignment is prohibited or would impair recovery, then, in lieu thereof, Seller shall tender to Buyer all amounts paid on account of such taking as soon as it receives the same. The provisions of this section regarding Seller's obligation to tender unpaid condemnation awards to Buyer shall, if applicable, survive the Closing and the delivery of the deed conveying the Property to Buyer.

19. **Approvals & Notices.** Notices given pursuant to this Contract shall be in writing, delivered in person, by certified mail, return receipt requested, addressed to the mailing address given herein or by overnight courier. The time of the postmark shall be deemed the time of receipt of mailed notices. With respect to any approval or consent which is required on the part of the Buyer or Seller under the terms of the Contract or any notice which is given or required to be given or any consultation which is required to be made, the Buyer and Seller, do hereby constitute and appoint **EDWARD W. GRATZ** for Seller and **CASEY TISCHER** for Buyer as their sole and exclusive representative for all such purposes.

If to Buyer:
360 TN SH, LLC
Attention: Casey Tischer
500 Boylston Street, Suite 2010
Boston, MA 02116
Phone: (617) 221-8402
Email: CT@freeholdcm.com

with copy to:
Land Management Group, Inc.
Attn: Bill Charles
357 Riverside Drive, Suite 210
Franklin, TN 37024
Phone: 615-260-5316
Email: bill@land-management.com

and to

Bulso PLC
Attn: Gino Bulso
155 Franklin Road, Suite 400
Brentwood, TN 37027
Phone: 615-913-5200
Email: gbulso@bulso.com

with copy: to:
Stewart Title
Attention: Jennifer Dunlap Stacey
7101 Executive Center Drive, #151
Brentwood, TN 37027
Phone: 615-370-5170
Email: Jennifer.Stacey@stewart.com

If to Seller:
Crestwood Partners, LLC
Attention: Edward W. Gratz
8210 W. Allerton Ave
Greenfield, WI 53220
Phone:262-251-1901
Email: ewgratz@fibreforminc.com

with copy to:
Kriger Law Office
Attention: Alvin Kriger
150 N Sunnyslope Rd
Suite 270
Brookfield, WI 53005
Phone: 262-641-0400
Email: ahk@krigerlaw.com

20. **Miscellaneous.** Risk of Loss. Seller shall bear the risk of loss or damage to the Property until the completion of the Closing.

20.1 Brokerage Agency and Commission: Seller and Buyer mutually acknowledge and represent that they have dealt with no brokers in connection with this transaction, except for Buyer's Agent Bill Charles designated by Builder Services and Troy Charlton designated by Century 21 Charlton Realty located at 461 Bell Rd, Nashville, TN 37217 for which Buyer shall be exclusively responsible to pay a commission at Closing for an amount of one and one-

half of a percent **(1.5%) to Troy Charlton, Charlton Realty**. Each party agrees to indemnify and hold the other harmless from and against any and all other claims, demands or the cost and expense thereof, including reasonable attorneys' fees arising out of any other brokerage commission, fee or other compensation due or alleged to be due in connection with the transaction contemplated by this Contract based upon an agreement alleged to have been made or other action alleged to have been taken by the indemnifying party.

20.2 Personal Interest Disclosure and Consent. A real estate licensee is involved in a real estate transaction BOTH as a licensed real estate professional AND as a party – directly or indirectly – to the transaction. The Real Estate Broker Licensing Act requires that a licensee's personal interest in any transaction be disclosed. Further, said Act requires the written consent of all parties to a transaction about certain personal interests. The Buyer is disclosing in this Contract that the corporation include affiliated persons that are real estate licensees in the State of Tennessee. Buyer and Seller consent to all licensees in this transaction and their continued involvement in the subject transaction, including real-estate agent Rob Tank and agent Bill Charles designated by brokerage firm, Builder Services with offices located at 357 Riverside Drive, Suite 210, Franklin, TN 37067, and agent Troy Charlton designated by brokerage firm, Century 21 Charlton Realty with an office located at 461 Bell Rd, Nashville, TN 37217.

20.3 Successors and Assigns. Buyer and Seller may assign the Contract, in whole without the prior written approval of either Party. The Contract shall be binding upon and enforceable against, and shall inure to the benefit of, the Parties and their respective legal representatives, successors, and assigns.

20.4 Definition of Hazardous Substances. As used herein, the term "Hazardous Substances" shall mean all hazardous or toxic substances, materials, wastes, pollutants and contaminants which are listed, defined, or regulated under applicable governmental laws, rules, regulations, codes, ordinances, orders and directives pertaining or related to the health, safety or the environment ("***Applicable Environmental Laws***").

20.5 Construction of Contract. Each of the parties hereto has agreed to the use of the language of this Contract, and any question regarding the meaning of this Contract shall not be resolved by any rule providing for construction against the party who caused the uncertainty to exist or against the draftsman. No provision granting Buyer the right to terminate this Contract shall be construed to limit the remedies available to Buyer as a result of Seller's default under or breach of the terms hereof. This Contract (i) constitutes the entire agreement and understanding of Buyer and Seller with respect to the subject matter hereof and supersedes all prior agreements, understandings, letters, negotiations and discussions, whether oral or written, of the parties, and (ii) may be amended only by a written instrument executed by Buyer and Seller. In the event any provision hereof shall be prohibited by or invalidated under applicable law, the remaining provisions of this Contract shall remain fully effective. No waiver of any provision of this Contract shall be deemed to have been made unless expressed in writing and signed by the party charged therewith. Each of the parties has agreed to the particular language of this Contract, and questions regarding the meaning hereof shall not be resolved by any rule providing for construction against the party who caused the uncertainty to exist or against the draftsman. No delay or omission in the exercise of any remedy accruing upon the breach of this Contract shall impair such remedy or be construed as a waiver of such breach. The waiver by Seller or Buyer of any breach shall not be deemed a waiver of any other breach of the same or any other provision hereof. The captions and headings contained herein are for convenience and reference only, and they shall not be deemed to define, modify or add to the meaning of any provision of this Contract. This Contract shall be binding upon, and inure to the benefit of, the parties hereto and their respective successors and assigns. If any date specified in this Contract for the performance of an obligation, the giving of a notice, or the expiration of a time period falls on a Saturday, Sunday, or bank holiday, then this Contract shall be automatically revised so that such date falls on the next occurring business day. The agreement contained herein shall not be construed in favor of or against either party but shall be construed as if both parties prepared this Agreement.

20.6 Attorneys' Fees. Should either party institute any action or proceeding to enforce or interpret this Agreement or any portion hereof, for damages by reason of any alleged breach of this Agreement or of any provision hereof, or for a declaration of rights hereunder, the prevailing party in any such action or proceeding shall be entitled to

receive from the other party all costs and expenses, including reasonable attorneys' and other fees, incurred by the prevailing party in connection with such action or proceeding. The term "attorneys' and other fees" shall mean and include attorneys' fees, accountants' fees, and any and all other similar fees incurred in connection with the action or proceeding and preparations therefor. The term "action or proceeding" shall mean and include actions, proceedings, suits, arbitrations, appeals and other similar proceedings.

20.7 Exhibits. Buyer and Seller hereby acknowledge and agree that all exhibits referenced in this Contract are attached hereto and incorporated herein.

20.8 Refund of Earnest Money and Extension Money(s). All the terms of this Contract related to the refund of the Earnest Money and Extension Money(s) shall survive the termination hereof.

20.9 Submission. The submission of this Contract does not constitute an offer and shall only be binding once it has been executed and delivered by both Seller and Buyer. If requested by the Buyer, Seller will execute a recordable abstract of this Contract for purpose of recording and acknowledging the execution of same.

20.10 Counterparts. This Contract may be executed in counterparts and, when counterparts of this Contract have been executed and delivered by both of the parties hereto, this Contract shall be fully binding and effective, just as if both of the parties hereto had executed and delivered a single counterpart hereof. Without limiting the manner in which execution of this Contract may otherwise be effected hereunder, execution by either party may be effected by electronic transmission of a signature page hereof executed by such party. If either party effects execution in such manner, such party shall also promptly deliver to the other party the counterpart physically signed by such party, but the failure of such party to do so shall not invalidate the execution hereof effected by electronic transmission.

20.11 1031 Exchange. Either party may engage in an exchange of like-kind property pursuant to Section 1031 of the Internal Revenue Code of 1986, as amended, utilizing a "qualified intermediary", as such term is defined under Treas. Reg. § 1.1031(k)-1(g)(4), in connection with its purchase or sale of the Property, as applicable. If Seller or Buyer elects to engage in such a like-kind exchange, (i) it may assign its right, title and interest in this Contract to a qualified intermediary in order to facilitate the exchange, provided it shall remain primarily responsible for fulfilling its obligations and liabilities hereunder, (ii) the other party shall have no recourse whatsoever as against the qualified intermediary, and (iii) the other party shall execute any documents necessary in connection with the exchange so long as the same do not increase its obligations or decreases its rights under this Contract. Notwithstanding anything to the contrary, neither party shall be required to incur any cost or liability in connection with a like-kind exchange being conducted by the other party nor shall either party be required to take title to any other property in connection with a like-kind exchange being conducted by the other party.

20.12 Waiver of Jury Trial. Seller and Buyer hereby expressly waive their right to a trial by jury of any claim (i) arising under this Contract, or (ii) connected with or related to the transaction contemplated by this Contract, whether now existing or hereafter arising. Seller or Buyer may file an original or a copy of this Section 20.12 with any court as written evidence of the foregoing waiver.

20.13 Waiver, Consent and Remedies. Either party may specifically and expressly waive in writing any breach by the other party of any provision of this Agreement, but no such waiver shall constitute a further or continuing waiver of any preceding or succeeding breach of the same or any other provision. A waiving party may at any time thereafter require further compliance by the other party with any breach so waived. The consent by one party to any act by the other for which such consent was required shall not be deemed to imply consent or waiver of the necessity of obtaining such consent for the same or any similar acts in the future. No waiver or consent shall be implied from silence or any failure of a party to act, except as otherwise specified in this Agreement.

20.14 Further Documents and Acts. Each of the parties hereto agrees to cooperate in good faith with each other, and to execute and deliver such further documents and perform such other acts as may be reasonably necessary or appropriate to consummate and carry into effect the transactions contemplated under this Agreement.

20.15 Gender and Name. In this Agreement (unless the context requires otherwise), the masculine, feminine and neuter genders and the singular and the plural shall be deemed to include one another, as appropriate.

20.16 Time of Essence. Time is of the essence of every provision of this Agreement in which time is an element.

20.17 Governing Law; Venue. This Agreement and the exhibits attached hereto have been negotiated and executed in the State of Tennessee and shall be governed by and construed in accordance with the laws of the State of Tennessee. The parties hereto hereby expressly consent and agree that exclusive venue of any action brought under this Agreement shall be Williamson County, Tennessee.

20.18 Invalidity of Provision. If any provision of this Agreement as applied to either party or to any circumstance shall be adjudged by a court of competent jurisdiction to be void or unenforceable for any reason, the same shall in no way affect (to the maximum extent permissible by law) any other provision of this Agreement, the application of any such provision under circumstances different from those adjudicated by the court, or the validity or enforceability of the Agreement as a whole; provided that the invalidity or unenforceability of such provision does not materially and adversely affect the benefits accruing to, or the obligations imposed upon, any party hereunder.

20.19 Time References. Any references in this Agreement to time for performance of obligations or elapsed time shall mean consecutive calendar days, months, or years, as applicable, unless otherwise explicitly indicated herein. In the event that the day on which Buyer or Seller is required to take any action under the terms of this Agreement is not a business day, such action shall be taken on the next succeeding business day. Any notices received by a party after 5:00 p.m. on the day in question shall be deemed received on the next business day. Whenever notice, approval or disapproval must be given to Escrow Agent and Escrow Agent is closed on the last day for taking such action, then the parties shall have until 5:00 p.m. on the first following day Escrow Agentis open to take such action.

20.20 Binding Effect. This Agreement shall be binding only upon its execution and delivery by both Seller and Buyer.

20.21 Force Majeure. If Buyer is prevented or materially restricted from performing any obligations under this Agreement by an event of force majeure, then such obligation(s) shall be suspended or reduced to the extent made necessary by the event. As used in this section, "force majeure" means any act or cause not reasonably within the control of Buyer, whose ability to perform is impaired and which Buyer could not have prevented by the exercise of reasonable diligence. This includes, but is not limited to, acts of God, fire, flood, explosions, strikes or labor disputes over which the Buyer has no control, sabotage, riots, civil commotion, acts of civil or military authority, wars, or material changes in applicable business laws or regulation.

21. Offer. Upon execution by Seller, this Contract shall constitute an offer by Buyer under the terms and conditions herein defined. This contract offer is duly executed by both Buyer and Seller, no later than **5:00 p.m. Nashville, Tennessee time March 24, 2023,** which unaltered, executed counterpart must be actually received by both Buyer and Seller by said date and time. This offer shall automatically expire on the said date and time unless sooner accepted, rejected, or withdrawn.

22. Effective Date. For purposes hereof, the "Effective Date" shall mean 5:00 p.m. CST on the date the last of the parties executes this Contract.

[Signature page to Contract for Purchase of Real Estate]

IN WITNESS WHEREOF, the Buyer and Seller hereto have signed this Contract on the day and year indicated hereinabove.

SELLER: Crestwood Partners, LLC.

DocuSigned by:
Edward W. Gratz Sr.
F0F51F0285074 12...

By: Edward W. Gratz
Its: Owner

Date: March 21, 2023

BUYER: 360 TN SH, LLC,
a Delaware limited liability company

DocuSigned by:
[signature]
912...

By: Thomas C. Tischer
Its: Authorized Signatory

Date: March 17th, 2023

ESCROW CONSENT

Stewart Title, Southland Division, the Escrow Agent under this Agreement, hereby agrees to (i) accept the foregoing Agreement, (ii) be Escrow Agent under the Agreement, and (iii) be bound by the Agreement in the performance of its duties as Escrow Agent. Pursuant to this Agreement, _____, is the date of the Opening of Escrow and the Escrow Number for this transaction is _____.

"Escrow Agent"

Dated: _____, 2023

By: _____
Jennifer Dunlap Stacey
Its: _____

DocuSign Envelope ID: 3B0EF70A-DAFC-4AF4-AD4E-3DFA0CA5C3FA

REAL-ESTATE AGENCY DISCLOSURE

Bill Charles, Builder Services, Troy Charlton and Century 21 Charlton Realty as mentioned in **Section 20.1** of this agreement hereby agrees to serve as the designated agent as for the Buyer in this transaction pursuant to the National Association of Realtors Code of Ethics and Standards of Practice.

Dated: _____, 2023 By: _____
Troy Charlton
Its: _____

Dated: _____, 2023 By: _____
Bill Charles
Its: _____

DocuSign Envelope ID: 3B0EF70A-DAFC-4AF4-AD4E-3DFA0CA5C3FA

Exhibit A
The Property

DocuSign Envelope ID: 3B0EF70A-DAFC-4AF4-AD4E-3DFA0CA5C3FA

LINE TABLE		
LINE #	BEARING	DISTANCE
L1	N8°11'08"E	25.00'
L2	S64°34'31"E	94.48'
L3	S4°20'40"W	168.04'
L4	N88°14'56"E	41.68'
L5	N36°42'05"E	62.06'
L6	N42°55'48"E	75.96'
L7	N41°35'19"E	80.88'
L8	N50°58'36"E	92.98'
L9	N47°44'40"E	198.04'
L10	N59°11'16"E	40.33'
L11	S11°16'26"W	97.31'
L12	S10°55'18"W	25.20'
L13	N4°58'21"E	22.22'
L14	N4°58'21"E	27.78'
L15	S66°28'24"E	13.96'

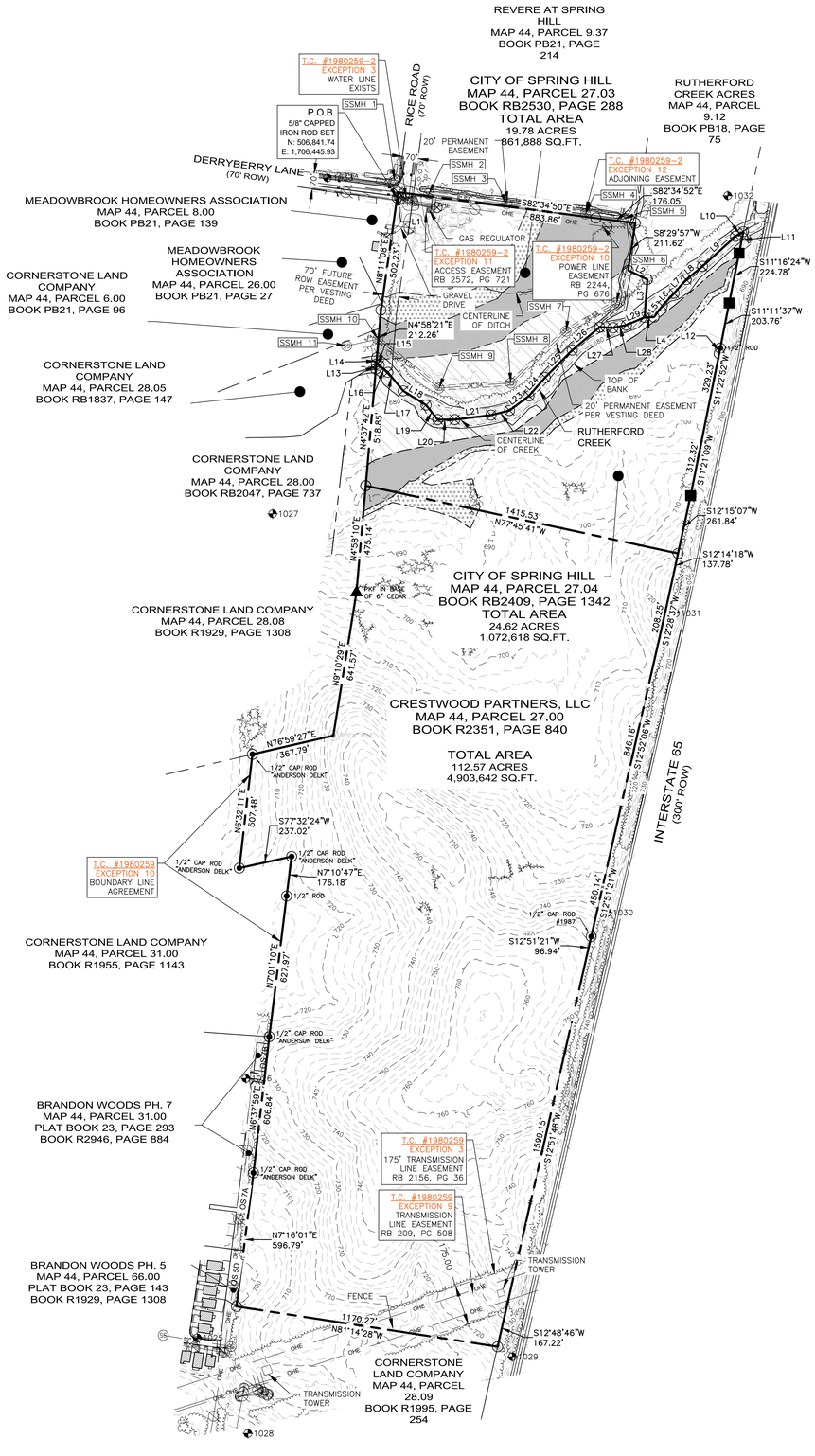
LINE TABLE		
LINE #	BEARING	DISTANCE
L16	S51°02'21"E	49.45'
L17	S39°38'51"E	106.90'
L18	S58°12'12"E	119.00'
L19	S38°41'24"E	82.59'
L20	S89°56'33"E	75.03'
L21	N82°55'36"E	162.03'
L22	N76°02'45"E	84.62'
L23	N53°00'30"E	107.85'
L24	N41°22'29"E	108.29'
L25	N44°45'58"E	170.86'
L26	N49°50'09"E	157.89'
L27	S87°25'31"E	59.62'
L28	N78°33'45"E	61.11'
L29	N67°02'39"E	86.77'

HATCH LEGEND

- FLOODWAY
- FLOOD ZONE AE
- FLOOD ZONE X
- PERM. GAS EASEMENT
- BUILDING

LEGEND

- PIPE, ROD, ETC. FOUND (SEE DESC.)
- 5/8" CAPPED ROD SET
- FENCE POST FOUND
- FENCE POST SET
- CONC. MON. FOUND
- CONC. MON. SET
- PK FOUND
- PK SET
- NON MONUMENTED POINT
- CONTROL POINT
- WATER METER (W)
- WATER VALVE
- FIRE HYDRANT
- SANITARY SEWER MH (SS)
- SANITARY SEWER CO (SS)
- AREA DRAIN
- CURB INLET
- STORM MH (ST)
- ELECTRIC METER-BOX (E)
- ELECTRIC MH (E)
- LIGHT POLE
- UTILITY POLE
- GUY ANCHOR
- COMMUNICATION BOX (C)
- COMMUNICATION MH (C)
- GAS METER (G)
- GAS VALVE
- EVERGREEN TREE
- DECIDUOUS TREE
- HANDICAP PARKING
- SIGN
- TURN LANE MARKING
- MAIL BOX
- CEMETERY
- SANITARY SEWER — 12" SA —
- WATER — 4"W —
- UNDERGROUND ELEC — UGE —
- OVERHEAD ELEC — OHE —
- GAS — 4" G —
- COMMUNICATIONS — COM —
- BOUNDARY
- CENTERLINE
- FENCE — x — x —
- WATER FEATURE
- TREE LINE

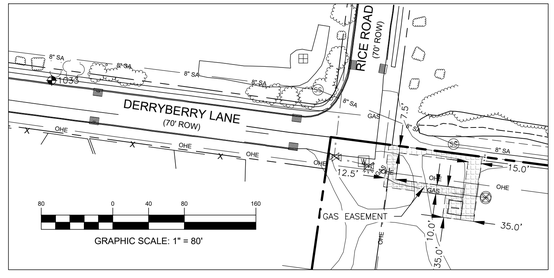


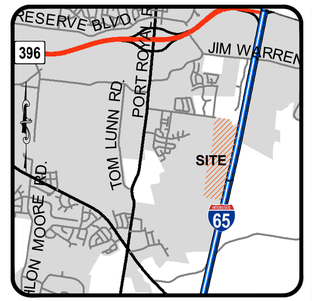
GENERAL NOTES:

1. THE PURPOSE OF THIS SURVEY IS: ALTA/NSPS LAND TITLE SURVEY
2. THE ADDRESS OF THIS PROPERTY IS: 0 DERRYBERRY LANE, SPRING HILL, TENNESSEE 37174
3. SUBJECT PROPERTY IS PRESENTLY IDENTIFIED AS PARCELS 27.00, 27.03 & 27.04. ON MAURY COUNTY TAX MAP 44. SAID PARCELS ARE FURTHER IDENTIFIED AS A PORTION OR ALL OF THE PROPERTY DESCRIBED IN RECORD BOOK 2351, PAGE 840; RECORD BOOK 2530, PAGE 288; & RECORD BOOK 2409, PAGE 1342, RESPECTIVELY; REGISTERS OFFICE OF MAURY COUNTY, TENNESSEE.
4. THE TENNESSEE STATE PLANE COORDINATES FOR THE POINT OF BEGINNING, AS SHOWN AND NOTED HEREON, ARE EXPRESSED IN U.S. SURVEY FEET.
5. EXCEPT AS SPECIFICALLY STATED OR SHOWN ON THIS PLAT, THIS SURVEY DOES NOT PURPORT TO REFLECT ANY OF THE FOLLOWING WHICH MAY BE APPLICABLE TO THE SUBJECT PROPERTY: EASEMENTS, OTHER THAN POSSIBLE EASEMENTS THAT WERE VISIBLE AT THE TIME OF SURVEY; BUILDING SETBACK LINES; RESTRICTIVE COVENANTS; SUBDIVISION RESTRICTION; ZONING OR OTHER LAND USE REGULATIONS; AND ANY OTHER FACTS THAT AN ACCURATE AND CURRENT TITLE SEARCH MAY DISCLOSE.
6. SUBSURFACE AND ENVIRONMENTAL CONDITIONS WERE NOT EXAMINED OR CONSIDERED AS A PART OF THIS SURVEY.
7. EVERY DOCUMENT OF RECORD REVIEWED AND CONSIDERED AS A PART OF THIS SURVEY IS NOTED HEREON. ONLY THE DOCUMENTS NOTED HEREON WERE SUPPLIED TO THE SURVEYOR. NO ABSTRACT OF TITLE, OR TITLE COMMITMENT, NOR RESULTS OF TITLE SEARCHES WERE FURNISHED TO THE SURVEYOR. OTHER DOCUMENTS OF RECORD MAY EXIST THAT WOULD AFFECT THIS PARCEL.
8. THE WORD "CERTIFY" IS AN EXPRESSION OF PROFESSIONAL OPINION REGARDING THE FACTS OF THE SURVEY AND DOES NOT CONSTITUTE A WARRANTY OR GUARANTEE, EXPRESSED OR IMPLIED. DECLARATION IS MADE TO THE CLIENT AND IS NOT TRANSFERABLE TO ADDITIONAL PERSONS, INSTITUTIONS OR SUBSEQUENT OWNERS OF THE SUBJECT PROPERTY.
9. THIS SURVEY WAS CONDUCTED WITH THE BENEFIT OF TITLE REPORTS ISSUED BY STEWART TITLE GUARANTY COMPANY, COMMITMENT NOS. 1980259 & 1980259-2, DATED JUNE 26 & 27, RESPECTIVELY, AT 8:00AM AND IS SUBJECT TO THEIR FINDINGS. THERE MAY BE OTHER IMPROVEMENTS OR ENCUMBRANCES THAT AFFECT THE PROPERTY SINCE THE ISSUANCE OF THE REPORTS.
10. BEARINGS SHOWN HEREON ARE BASED ON THE TENNESSEE STATE PLANE COORDINATE SYSTEM (NAD83). ELEVATIONS SHOWN HEREON ARE BASED ON NAVD88.
11. ALL CORNERS SHOWN ON THE FACE OF THE SURVEY ARE MARKED EITHER FOUND OR SET. ANY MISSING CORNERS ARE MARKED WITH AN IRON ROD AND CAP BEARING THIS SURVEYORS COMPANY NAME.
12. UTILITIES SHOWN HEREON WERE COMPILED FROM VISIBLE STRUCTURES AT THE SITE, INFORMATION FROM PLANS, AND PHYSICAL MARKINGS AND COMBINED TO DEVELOP A VIEW OF THE UNDERGROUND UTILITIES. HOWEVER, LACKING EXCAVATION, THE EXACT LOCATION OF UNDERGROUND FEATURES CANNOT BE ACCURATELY, COMPLETELY, AND RELIABLY DEPICTED. IN ADDITION, IN SOME JURISDICTIONS, 811 OR OTHER SIMILAR UTILITY LOCATE REQUESTS FROM SURVEYORS MAY BE IGNORED OR RESULT IN AN INCOMPLETE RESPONSE. THIS SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THIS SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED. VERIFICATION OF EXISTENCE, LOCATIONS, AND DEPTH SHOULD BE MADE BEFORE CONDUCTING ANY EXCAVATION IN THE VICINITY OF THE UTILITY.
13. THIS PROPERTY LIES WITHIN ZONE "AE" AS DESIGNATED ON CURRENT FEDERAL EMERGENCY MANAGEMENT AGENCY MAP NO. 47119C0185E, WITH AN EFFECTIVE DATE OF 4/15/2007, WHICH MAKES UP A PART OF THE NATIONAL FLOOD INSURANCE PROGRAM. BASE FLOOD ELEVATION FOR THIS PROPERTY IS FROM 681' TO 691'. ZONE "AE" IS AN AREA WHERE BASE FLOOD ELEVATIONS HAVE BEEN DETERMINED. FLOOD HAZARD DATA IS BASED OFF GIS DATA AND SHAPE FILES DOWNLOADED FROM THE FEMA WEBSITE https://hazards.fema.gov/femaportal/wps/portal/NFHLWMS.
14. I HEREBY CERTIFY THAT THIS IS A CATEGORY IV SURVEY AND WAS CONDUCTED IN ACCORDANCE WITH RULE 0820-03.11 (GLOBAL POSITION SYSTEMS SURVEYS) ACCORDING TO THE CURRENT TENNESSEE MINIMUM STANDARDS OF PRACTICE AS PROMULGATED BY THE TENNESSEE STATE BOARD OF EXAMINERS FOR LAND SURVEYORS. THIS SURVEY WAS CONDUCTED USING TRIMBLE R10/R12 DUAL-FREQUENCY RTK GNSS BASE AND ROVER. THE PRIMARY BASE CONTROL POSITION WAS DETERMINED USING THE NOAA CORS NETWORK BY POST-PROCESSING A MINIMUM ONE HOUR OCCUPATION.
    a. THE MAXIMUM RMS VALUES FOR FIXED POSITIONS AT 1-SIGMA ARE 0.03 FEET HORIZONTAL AND 0.06 FEET VERTICAL. THE MAXIMUM DIFFERENCE BETWEEN COMPUTED AVERAGE POSITIONS AND THOSE USED IN THE AVERAGE DOES NOT EXCEED 0.03 FEET HORIZONTAL OR 0.06 FEET VERTICAL.
    b. POSITIONS FOR BOUNDARY MONUMENTS AND SECONDARY CONTROL POINTS ARE THE RESULT OF AN AVERAGE OF THREE OR MORE OCCUPATIONS OF ONE-MINUTE OR LONGER. THE MINIMUM OCCUPATION TIMES FOR TOPOGRAPHIC FEATURES ARE THREE SECONDS.
    c. DATE OF SURVEY: 6/05/24
    d. HORIZONTAL ZONE/DATUM: TN-4100/NAD83(2011) - TENNESSEE STATE PLANE COORDINATES (U.S. SURVEY FEET).
    e. VERTICAL DATUM: NAVD88 (ELEVATIONS GIVEN IN FEET ARE EQUAL TO ORTHOMETRIC HEIGHTS DERIVED USING GEOID03).
    f. NO COMBINED GRID FACTORS WERE USED.
15. I HEREBY CERTIFY THAT THE TOPOGRAPHIC INFORMATION DEPICTED HEREON AS CONTOURS AND ELEVATIONS ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND ARE BASED ON AN ACTUAL FIELD SURVEY CONDUCTED UNDER MY DIRECT SUPERVISION.
16. THE CONTOURS, SHOWN HEREON, WERE DERIVED FROM LIDAR DATA [POST PROCESSED KINEMATIC (PPK) USING STATE PLANE COORDINATES AND VERTICAL DATUM NAVD88 (GEOID03], AND INCLUDE SEVERAL DIFFERENT LAND-COVER CLASSES WHICH HAVE BEEN COMPILED TO MEET OR EXCEED THE NATIONAL MAP ACCURACY STANDARDS (NMAS) OF A 2 FOOT EQUIVALENT CONTOUR INTERVAL AT 95 PERCENT CONFIDENCE LEVEL. THIS MEETS OR EXCEEDS A VERTICAL ACCURACY EQUAL TO NATIONAL STANDARDS FOR SPATIAL DATA ACCURACY (NSSDA) = 1.9600*.61(RMSE(Z)) (NORMALLY DISTRIBUTED ERROR) = 1.19 FT, AS SET FORTH BY THE AMERICAN SOCIETY FOR PHOTOGRAMMETRY AND REMOTE SENSING (ASPRS) VERSION 1.0. RANDOM SHOTS TAKEN ACROSS THE SITE YIELD AN ACTUAL VERTICAL ACCURACY OF +/- 0.12 FT.
17. THERE WAS NO EVIDENCE OF RECENT EARTH MOVING AT THE TIME OF SURVEY.
18. THERE ARE NO KNOWN CHANGES TO THE STREET ROW AT THE TIME OF SURVEY.
19. THERE WAS NO EVIDENCE OF DELINEATED WETLANDS AT THE TIME OF SURVEY, HOWEVER, SHOWN ON THE SURVEY IS A RIVERINE NAMED RUTHERFORD CREEK WHICH IS CLASSIFIED AS R2UBH. FURTHER DETAILS CAN BE FOUND ON WETLAND MAPPER WEBSITE. https://www.fws.gov/wetlands/data/mapper.html
20. THERE WAS NO EVIDENCE OF ENCROACHMENTS AT THE TIME OF SURVEY.
21. THIS IS A VACANT TRACT OF LAND.
22. THE PROPERTY LINE ABUTTING THE ROW SHOWN IS CONTIGUOUS WITH NO GAPS OR GORES.

SSMH #	T.O.C	INV. IN #1 [DIR.]	INV. IN #2 [DIR.]	INV. OUT [DIR.]	PIPE SIZE [TYPE]
1	688.9'	680.5' [W]	N/A	680.3' [E]	8" [PVC]
2	687.3'	679.0' [W]	N/A	678.8' [E]	8" [PVC]
3	684.4'	677.1' [NW]	676.8' [SE]	676.6' [E]	8" [PVC]
4	684.6'	674.9' [W]	N/A	674.6' [E]	8" [PVC]
5	685.9'	675.2' [N]	673.8' [W]	673.5' [E]	8" [PVC]
6	682.8'	667.8' [E]	N/A	667.6' [W]	24" [RCP]
7	682.1'	NO ACCESS	NO ACCESS	NO ACCESS	24" [RCP]
8	681.3'	666.5 [E]	N/A	666.3' [W]	24" [RCP]
9	681.1'	665.5' [E]	N/A	665.2' [NW]	24" [RCP]
10	679.6'	664.7' [SE]	N/A	664.6 [W]	24" [RCP]
11	679.3'	664.3' [E]	N/A	664.1' [W]	24" [RCP]

INTERSECTION DETAIL





VICINITY MAP
NOT TO SCALE

CERTIFICATION OF SURVEY FOR ALTA/NSPS LAND TITLE SURVEYS

TO: (I) 360 TN SH, LLC (II) STEWART TITLE COMPANY, AND (III) CRESTWOOD PARTNERS, LLC.

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2021 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES ITEMS 1, 2, 3, 4, 8, 11(OBSERVED), 13, 14, 16, 17, 18, AND 19, OF TABLE A THEREOF. THE FIELD WORK WAS COMPLETED ON 6/5/2024.

9/10/24

JOEY C. WILSON II, P.E., P.S.
TN RLS NO. 2089

CONTROL TABLE

POINT #	NORTHING	EASTING	ELEV.	DESCRIPTION
1000	507,353.92	1,703,192.76	728.40	
1008	507,320.99	1,702,863.74	727.59	TARGET IP
1020	507,022.40	1,702,802.58	726.10	RBCS
1021	507,022.23	1,703,102.90	715.52	RBCS
1022	507,654.97	1,703,158.91	721.35	RBCS
1023	507,705.52	1,702,737.69	710.50	RBCS
1024	507,030.51	1,702,724.03	724.06	RBCS
1025	501,792.28	1,705,560.72	693.68	RBCS
1026	502,941.02	1,705,776.50	719.56	RBCS
1027	505,442.19	1,705,894.68	679.22	RBCS
1028	501,368.44	1,705,785.19	687.34	RBCS
1029	501,708.48	1,706,956.41	714.08	RBCS
1030	503,675.84	1,707,377.11	737.96	RBCS
1031	505,001.76	1,707,678.36	730.62	RBCS
1032	506,851.02	1,707,910.34	684.18	RBCS
1033	506,929.92	1,706,137.50	691.96	RBCS

PROJECT CONTROL: TENNESSEE STATE PLANE COORDINATES; NAD83(2011); NAVD88 (GEOID03 GRID 7 REVISED); U.S. SURVEY FEET; NO DATUM ADJUSTMENT.

GRAPHIC SCALE: 1" = 300'

NO.	DATE	COMMENT

108 Beasley Drive
Franklin, TN
37064
615.794.2275

WILSON&ASSOCIATES, P.C.
Engineering/Surveying/Environmental

JOEY C. WILSON II, REGISTERED LAND SURVEYOR, No. 2089, STATE OF TENNESSEE, AGRICULTURE, COMMERCE, 9/10/24

ALTA/NSPS LAND TITLE SURVEY

MAP 44, PARCEL 27.00, 27.03 & 27.04
0 DERRYBERRY LANE - SPRING HILL
MAURY COUNTY, TENNESSEE
FOR: CSDG

DRAWN BY:	EGJ
APPVD. BY:	SAM
DATE	9/10/2024
PROJ. No.	24-2172
SCALE:	1" = 300'

SHEET No.
1 OF 2

LEGAL DESCRIPTION
FROM TITLE COMMITMENT NO. 1980259

A TRACT OF LAND LOCATED IN THE 3RD CIVIL DISTRICT OF MAURY COUNTY, TENNESSEE. BEING ALL OF PARCEL 27.00 ON TAX MAP 44, SAID PROPERTY BEING THE ROCK CREEK DEVELOPMENT, LLC PROPERTY AS RECORDED IN DEED BOOK R1945, PAGE 201 IN THE REGISTER'S OFFICE OF MAURY COUNTY, TENNESSEE, BOUNDED ON THE NORTH BY ALMA HARRIS, ON THE EAST BY INTERSTATE 65, AND ON THE SOUTH AND WEST BY CORNERSTONE LAND COMPANY.

BEGINNING AT AN IRON PIN FOUND AT THE NORTH WEST CORNER OF ROCK CREEK DEVELOPMENT, LLC AS RECORDED IN DEED BOOK R1945, PAGE 201 IN THE REGISTER'S OFFICE OF MAURY COUNTY, TENNESSEE, SAID POINT BEING THE NORTH EAST CORNER OF CORNERSTONE LAND COMPANY AS RECORDED IN DEED BOOK R1837, PAGE 147 IN THE REGISTERS OFFICE OF MAURY COUNTY, TENNESSEE, TENNESSEE STATE PLANE COORDINATE (NORTH - 506,866.5, EAST - 1,706,450.2), AND SAID POINT LYING IN THE CENTER OF DIRT ROAD (DERRYBERRY LANE), AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS;

THENCE WITH THE SOUTH LINE OF ALMA HARRIS AS RECORDED IN DEED BOOK 187, PAGE 614 IN THE REGISTER'S OFFICE OF MAURY COUNTY, TENNESSEE, SOUTH 82°34'11" EAST A DISTANCE OF 883.51' TO AN IRON PIN FOUND; THENCE WITH THE SAME, SOUTH 82°34'11" EAST A DISTANCE OF 176.05' TO AN IRON PIN FOUND;

THENCE WITH THE WEST LINE OF JEREMY GOLDEN AS RECORDED IN DEED BOOK R1837, PAGE 147 AND SHOWN ON PLAT BOOK 18, PAGE 75, IN THE REGISTER'S OFFICE OF MAURY COUNTY, TENNESSEE. SOUTH 08°30'38" WEST A DISTANCE OF 211.62' TO AN IRON PIN FOUND; THENCE WITH THE SOUTH LINE OF AFORESAID JEREMY GOLDEN, SOUTH 64°33'50" EAST A DISTANCE OF 94.48' TO A 16" ELM TREE; THENCE WITH THE SAME, SOUTH 04°21'21" WEST A DISTANCE OF 168.04' TO A POINT IN THE CENTER OF RUTHERFORD CREEK; THENCE WITH THE SOUTH LINE OF JEREMY GOLDEN AND WITH THE CENTER OF RUTHERFORD CREEK, NORTH 88°15'37" EAST A DISTANCE OF 41.68' TO AN IRON PIN FOUND; THENCE NORTH 36°42'46" EAST A DISTANCE OF 62.06' TO A POINT; THENCE NORTH 42°56'29" EAST A DISTANCE OF 75.96' TO A POINT; THENCE NORTH 41°36'00" EAST A DISTANCE OF 80.88' TO A POINT; THENCE NORTH 50°59'17" EAST A DISTANCE OF 92.98' TO A POINT;

THENCE NORTH 47°45'21" EAST A DISTANCE OF 198.04' TO A POINT; THENCE NORTH 59°11'57" EAST A DISTANCE OF 40.33' TO A POINT; THENCE WITH THE WEST MARGIN OF INTERSTATE 65 SOUTH 11°17'52" WEST A DISTANCE OF 97.31' TO A TDOT CONCRETE MONUMENT; THENCE WITH THE SAME, SOUTH 11017152" WEST A DISTANCE OF 224.98' TO A TDOT CONCRETE MONUMENT; THENCE WITH THE SAME, SOUTH 11°11'04" WEST A DISTANCE OF 203.56' TO AN IRON PIN FOUND;

THENCE WITH THE SAME, SOUTH 11°22'20" WEST A DISTANCE OF 25.55' TO AN IRON PIN FOUND; THENCE WITH THE SAME, SOUTH 11°22'20" WEST A DISTANCE OF 641.29' TO A TDOT CONCRETE MONUMENT; THENCE WITH THE SAME, SOUTH 12°14'44" WEST A DISTANCE OF 399.88' TO A TDOT CONCRETE MONUMENT;

THENCE WITH THE SAME, SOUTH 12°29'02" WEST A DISTANCE OF 208.25' TO A TDOT CONCRETE MONUMENT; THENCE WITH THE SAME, SOUTH 12°52'31" WEST A DISTANCE OF 943.81' TO A TDOT CONCRETE MONUMENT; THENCE WITH THE SAME, SOUTH 12°51'46" WEST A DISTANCE OF 450.14' TO AN IRON PIN FOUND;

THENCE WITH THE SAME, SOUTH 12°51'46" WEST A DISTANCE OF 96.94' TO AN IRON PIN FOUND; THENCE WITH THE SAME, SOUTH 12°52'13" WEST A DISTANCE OF 1599.15' TO AN IRON PIN FOUND; THENCE WITH THE SAME, SOUTH 12°49'11" WEST A DISTANCE OF 167.22' TO AN IRON PIN FOUND, SAID POINT BEING THE SOUTH EAST CORNER OF THE PROPERTY HEREIN DESCRIBED; THENCE WITH CORNERSTONE LAND COMPANY AS RECORDED IN DEED BOOK R1995,

PAGE 254 IN THE REGISTER'S OFFICE OF MAURY COUNTY, TENNESSEE, NORTH 81°14'03" WEST A DISTANCE OF 1170.27' TO AN IRON PIN FOUND; THENCE WITH CORNERSTONE LAND COMPANY AS RECORDED IN DEED BOOK R1929, PAGE 1308 IN THE REGISTER'S OFFICE OF MAURY COUNTY, TENNESSEE, NORTH 07°16'26" EAST A DISTANCE OF

596.79' TO AN IRON PIN FOUND; THENCE WITH THE SAME, NORTH 06°38'24" EAST A DISTANCE OF 606.84' TO AN IRON PIN FOUND; THENCE WITH CORNERSTONE LAND COMPANY AS RECORDED IN DEED BOOK R1955, PAGE 1143 IN THE REGISTER'S OFFICE OF MAURY COUNTY, TENNESSEE NORTH 07°04'39" EAST A DISTANCE OF 628.00' TO AN IRON PIN FOUND; THENCE WITH THE SAME, NORTH 07°16'09" EAST A DISTANCE OF 176.33' TO AN IRON PIN FOUND; THENCE WITH THE SAME, SOUTH 77°31'09" WEST A DISTANCE OF 236.82' TO AN IRON PIN FOUND; THENCE WITH THE SAME, NORTH 06°31'09" EAST A DISTANCE OF 507.53' TO AN IRON PIN FOUND; THENCE WITH CORNERSTONE LAND COMPANY AS RECORDED IN DEED BOOK R1929, PAGE 1308 IN THE REGISTERS OFFICE OF MAURY COUNTY, TENNESSEE, NORTH 76°55'59" EAST A DISTANCE OF 367.79' TO AN IRON PIN FOUND; THENCE WITH THE SAME, NORTH 09°07'01" EAST A DISTANCE OF 640.97' TO AN IRON PIN FOUND; THENCE WITH THE SAME, NORTH 04°59'02" EAST A DISTANCE OF

994.45' TO AN IRON PIN FOUND;

THENCE WITH THE WEST LINE OF CORNERSTONE LAND COMPANY AS RECORDED IN DEED BOOK R1837, PAGE 147 IN THE REGISTER'S OFFICE OF MAURY COUNTY, TENNESSEE, NORTH 04°59'02" EAST A DISTANCE OF 50.00' TO AN IRON PIN FOUND;

THENCE WITH THE SAME, NORTH 04°59'02" EAST A DISTANCE OF 212.26' TO AN IRON PIN FOUND; THENCE WITH THE SAME, NORTH 08°11'49" EAST A DISTANCE OF 502.23' TO AN IRON PIN FOUND; THENCE NORTH 08°11'49" EAST A DISTANCE OF 25.00' TO THE POINT OF BEGINNING, HAVING AN AREA OF 6,836,067 SQUARE FEET, 156.93 ACRES.

THIS PARCEL IS SUBJECT TO ANY AND ALL EASEMENTS, RESTRICTIONS, AND/OR RIGHT OF WAYS EITHER BY RECORD AND/OR PRESCRIPTION THAT A COMPLETE AND ACCURATE TITLE SEARCH MAY REVEAL, THERE IS AN APPARENT TVA EASEMENT AT THE SOUTHEAST CORNER OF THE PROPERTY AS RECORDED IN DEED BOOK 209, PAGE 508 IN THE REGISTERS OFFICE OF MAURY COUNTY, TENNESSEE.

NOTE: ALL DEEDS REFERENCED ABOVE ARE OF RECORD IN THE REGISTER'S OFFICE OF MAURY COUNTY, TENNESSEE. THE ABOVE PROPERTY DESCRIPTION WAS PREPARED UNDER MY DIRECTION ON THIS THE 29TH DAY OF APRIL 2008. ALLEN B. O'LEARY TN R.L.S. NO. 1987

LESS AND EXCEPT

STONE CREEK YMCA PROPERTY

A TRACT OF LAND LOCATED IN THE 3RD CIVIL DISTRICT OF MAURY COUNTY, TENNESSEE. A PORTION OF PARCEL 27 SHOWN ON TAX MAP 44, TAX ASSESSOR'S OFFICE OF MAURY COUNTY, TENNESSEE. BEING A PORTION OF THE ROCK CREEK DEVELOPMENT LLC PROPERTY AS RECORDED IN DEED BOOK R1867. PAGE 893 IN THE REGISTER'S OFFICE OF MAURY COUNTY, TENNESSEE, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS.

BEGINNING AT AN IRON PIN FOUND AT THE NORTHEAST CORNER OF CORNERSTONE LAND COMPANY AS RECORDED IN DEED BOOK R1837, PAGE 147 IN THE REGISTERS OFFICE OF MAURY COUNTY, TENNESSEE, SAID POINT ALSO BEING THE NORTH WEST CORNER OF THE PROPERTY HEREIN DESCRIBED;

THENCE WITH THE SOUTHERLY LINE OF ALMA HARRIS, SOUTH 82°34'11" EAST A DISTANCE OF 1059.54'

TO AN IRON PIN FOUND; THENCE WITH THE WEST LINE OF JEREMY GOLDEN AS RECORDED IN DEED BOOK R1813, PAGE 364 IN THE REGISTER'S OFFICE OF MAURY COUNTY, TENNESSEE, SOUTH 08°30'15" WEST A DISTANCE OF 211.62' TO AN IRON PIN FOUND;

THENCE SOUTH 64°33'50" EAST A DISTANCE OF 94.48";

THENCE WITH THE SAME, SOUTH 04°21'21" WEST A DISTANCE OF 168.04' TO THE CENTER OF RUTHERFORD CREEK; THENCE WITH THE CENTER OF RUTHERFORD CREEK, SOUTH 67°03'20" WEST A DISTANCE OF 86.77'; THENCE WITH THE SAME, SOUTH 78°34'26" WEST A DISTANCE OF 61.11'; THENCE WITH THE SAME, NORTH 87°24'50" WEST A DISTANCE OF 59.62'; THENCE WITH THE SAME, SOUTH 49°50'50" WEST A DISTANCE OF 157.89'; THENCE WITH THE SAME, SOUTH 44046139" WEST A DISTANCE OF 170.86'; THENCE WITH THE SAME, SOUTH 41°23'10" WEST A DISTANCE OF 108.29'; THENCE WITH THE SAME, SOUTH 53°01'11" WEST A DISTANCE OF 107.85'; THENCE WITH THE SAME, SOUTH 76°03'26" WEST A DISTANCE OF 84.62'; THENCE WITH THE SAME, SOUTH 82°56'17" WEST A DISTANCE OF 162.03'; THENCE WITH THE SAME, NORTH 89°55'52" WEST A DISTANCE OF 75.03'; THENCE WITH THE SAME, NORTH 38°40'43" WEST A DISTANCE OF 82.59';

THENCE WITH THE SAME, NORTH 58°11'31" WEST A DISTANCE OF 119.00'; THENCE WITH THE SAME, NORTH 39°38'10" WEST A DISTANCE OF 106.90'; THENCE WITH THE SAME, NORTH 51°01'40" WEST A DISTANCE OF 49.45';

THENCE WITH THE SAME, NORTH 66°27'43" WEST A DISTANCE OF 13.59' TO A POINT ON THE EAST LINE OF CORNERSTONE LAND COMPANY AS RECORDED IN DEED BOOK R1837, PAGE 147 IN THE REGISTER'S OFFICE OF MAURY COUNTY, TENNESSEE;

THENCE WITH THE EAST LINE OF CORNERSTONE, NORTH 04°59'02" EAST A DISTANCE OF 240.14' TO AN IRON PIN FOUND; THENCE NORTH 08°11'49" EAST A DISTANCE OF 527.23' TO THE POINT OF BEGINNING, HAVING AN AREA OF 861,609 SQUARE FEET, 19.78 ACRES.

THIS PROPERTY IS SUBJECT TO A 70' RIGHT OF WAY EASEMENT ALONG THE WEST PROPERTY LINE (APPROXIMATELY 767' IN LENGTH) FOR THE EXTENSION OF RICE ROAD. THIS PARCEL IS SUBJECT TO ANY AND ALL EASEMENTS, RESTRICTIONS, AND/OR RIGHT OF WAYS EITHER BY RECORD AND/OR PRESCRIPTION THAT A COMPLETE AND ACCURATE TITLE SEARCH MAY REVEAL.

NOTE: THE ABOVE PROPERTY DESCRIPTION IS BASED ON INFORMATION GATHERED DURING THE COURSE OF AN ACTUAL FIELD SURVEY CONDUCTED BY O'LEARY AND ASSOCIATES, LLC, UNDER THE DIRECTION OF ALLEN B. O'LEARY, TENNESSEE REGISTERED LAND SURVEYOR NUMBER 1987. ALL IRON PINS SET ARE ⅛" REBAR, WITH A PLASTIC CAP STAMPED "O'LEARY, RLS 1987".

LESS AND EXCEPT

THE PROPERTY CONVEYED TO THE CITY OF SPRING HILL, TENNESSEE BY WARRANTY DEED FROM CRESTWOOD PARTNERS, A TENNESSEE LIMITED LIABILITY COMPANY, DATED 12/28/2016, OF RECORD IN BOOK R2409, PAGE 1342, REGISTER'S

OFFICE FOR MAURY COUNTY, TENNESSEE, DESCRIBED AS:

BEGINNING AT THE CENTER OF RUTHERFORD CREEK, SAID POINT BEING THE SOUTH WEST CORNER OF THE CITY OF SPRING HILL PROPERTY AS RECORDED IN DEED BOOK R2337, PAGE 617; THENCE WITH THE SOUTH LINE OF THE CITY OF SPRING HILL AND GENERALLY FOLLOWING THE CENTER OF RUTHERFORD CREEK:

THENCE SOUTH 66°27'43" EAST A DISTANCE OF 13.59";
THENCE SOUTH 51°01'40" EAST A DISTANCE OF 49.45';
THENCE SOUTH 39°38'10" EAST A DISTANCE OF 106.90';
THENCE SOUTH 58°11'31" EAST A DISTANCE OF 119.00';
THENCE SOUTH 38°40'43" EAST A DISTANCE OF 82.59";
THENCE SOUTH 89°55'52" EAST A DISTANCE OF 75.03';
THENCE NORTH 82°56'17" EAST A DISTANCE OF 162.03';
THENCE NORTH 76°03'26" EAST A DISTANCE OF 84.62';
THENCE NORTH 53°01'11" EAST A DISTANCE OF 107.85";
THENCE NORTH 41°23'10" EAST A DISTANCE OF 108.29';
THENCE NORTH 44°46'39" EAST A DISTANCE OF 170.86';
THENCE NORTH 49°50'50" EAST A DISTANCE OF 157.89';
THENCE NORTH 87°24'50" EAST A DISTANCE OF 59.62';
THENCE NORTH 78°34'26" EAST A DISTANCE OF 61.11';
THENCE NORTH 67°03'20" EAST A DISTANCE OF 86.77';
THENCE NORTH 88°15'37" EAST A DISTANCE OF 41.68';
THENCE NORTH 36°42'46" EAST A DISTANCE OF 62.06';
THENCE NORTH 42°56'29" EAST A DISTANCE OF 75.96';
THENCE NORTH 41°36'00" EAST A DISTANCE OF 80.88';
THENCE NORTH 50°59'17" EAST A DISTANCE OF 92.98';
THENCE NORTH 47°45'21" EAST A DISTANCE OF 198.04';
THENCE NORTH 59°11'57" EAST A DISTANCE OF 40.33';

THENCE WITH THE WEST MARGIN OF INTERSTATE 65, SOUTH 11°17'52" WEST A DISTANCE OF 322.29' TO A TDOT CONCRETE MONUMENT;

THENCE SOUTH 11°12'20" WEST A DISTANCE OF 229.11' TO A TDOT CONCRETE MONUMENT; THENCE SOUTH 11°22'20" WEST A DISTANCE OF 641.29' TO A TDOT CONCRETE MONUMENT; THENCE SOUTH 12°14'44" WEST A DISTANCE OF 262.10' TO AN IRON PIN SET;

THENCE SEVERING THE PROPERTY OF CRESTWOOD PARTNERS, LLC, NORTH 77°45'16" WEST A DISTANCE OF 1,415.17' TO AN IRON PIN SET; THENCE WITH THE EAST LINE OF CORNERSTONE LAND COMPANY AS RECORDED IN DEED BOOK R1929, PAGE 1308, NORTH 04°59'02" EAST A DISTANCE OF 541.45' WHICH IS THE POINT OF BEGINNING, HAVING AN AREA OF 1,072,883 SQUARE FEET, 24.63 ACRES.

NOTE: THE ABOVE PROPERTY DESCRIPTION IS BASED ON INFORMATION GATHERED DURING THE COURSE OF AN ACTUAL FIELD SURVEY CONDUCTED BY WES, ENGINEERS AND SURVEYORS, UNDER THE DIRECTION OF ALLEN B. O'LEARY, TENNESSEE REGISTERED LAND SURVEYOR NUMBER 1987. ALL IRON PINS SET ARE 1/4" REBAR, WITH A PLASTIC CAP STAMPED "WES 1987". ALL DEEDS REFERENCED ABOVE (DEED BOOK, PAGE) ARE OF RECORD IN THE REGISTER'S OFFICE OF MAURY COUNTY, TENNESSEE. THE ABOVE PROPERTY DESCRIPTION WAS PREPARED UNDER MY DIRECTION ON THIS THE 19TH DAY OF DECEMBER 2016.

BEING PART OF THE SAME PROPERTY CONVEYED TO CRESTWOOD PARTNERS, LLC BY WARRANTY DEED FROM ROCK CREEK DEVELOPMENT, LLC, DATED 12/22/2015, OF RECORD IN BOOK R2351, PAGE 835, REGISTER'S OFFICE FOR MAURY COUNTY, TENNESSEE.

BEING PART OF THE SAME PROPERTY CONVEYED TO CRESTWOOD PARTNERS, LLC BY QUITCLAIM DEED FROM ROCK CREEK DEVELOPMENT, LLC, DATED 12/22/2015, OF RECORD IN BOOK R2351, PAGE 840, REGISTER'S OFFICE FOR MAURY COUNTY, TENNESSEE.

LEGAL DESCRIPTION
FROM TITLE COMMITMENT NO. 1980259-2

PARCEL 1: (044 027.03)

A TRACT OF LAND LOCATED IN THE 3 CIVIL DISTRICT OF MAURY COUNTY, TENNESSEE. A PORTION OF PARCEL 27 SHOWN ON TAX MAP 44, TAX ASSESSOR'S OFFICE OF MAURY COUNTY, TENNESSEE. BEING A PORTION OF THE ROCK CREEK DEVELOPMENT LLC PROPERTY AS RECORDED IN DEED BOOK R1867, PAGE 893 IN THE REGISTER'S OFFICE OF MAURY COUNTY, TENNESSEE, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT AN IRON PIN FOUND AT THE NORTHEAST CORNER OF CORNERSTONE LAND COMPANY AS RECORDED IN DEED BOOK R1837, PAGE 147 IN THE REGISTER'S OFFICE OF MAURY COUNTY, TENNESSEE, SAID POINT ALSO BEING THE NORTH WEST COMER OF THE PROPERTY HEREIN DESCRIBED; THENCE WITH THE SOUTHERLY LINE OF ALMA HARRIS, SOUTH 82°34'11" EAST A DISTANCE OF 1059.54' TO AN IRON PIN FOUND; THENCE WITH THE WEST LINE OF JEREMY GOLDEN AS RECORDED IN DEED BOOK R1813, PAGE 364 IN THE REGISTER'S OFFICE OF MAURY COUNTY, TENNESSEE, SOUTH 08°30'15" WEST A DISTANCE OF 211.62' TO AN IRON PIN FOUND; THENCE SOUTH 64°33'50" EAST A DISTANCE OF 94.48'; THENCE WITH THE CENTER OF RUTHERFORD CREEK, SOUTH 67°03'20" WEST A DISTANCE OF 86.77';

THENCE WITH THE SAME, SOUTH 78°34'26" WEST A DISTANCE OF 61.11'; THENCE WITH THE SAME, NORTH 87°24'50" WEST A DISTANCE OF 59.62'; THENCE WITH THE SAME, SOUTH 49°50'50" WEST A DISTANCE OF 157.89'; THENCE WITH THE SAME, SOUTH 44°46'39" WEST A DISTANCE OF 170.86"; THENCE WITH THE SAME, SOUTH 41°23'10" WEST A DISTANCE OF 108.29'; THENCE WITH THE SAME, SOUTH 53°01'11" WEST A DISTANCE OF 107.85'; THENCE WITH THE SAME, SOUTH 76°03'26" WEST A DISTANCE OF 84.62'; THENCE WITH THE SAME, SOUTH 82°56'17" WEST A DISTANCE OF 162.03'; THENCE WITH THE SAME, NORTH 89°55'52" WEST A DISTANCE OF 75.03'; THENCE WITH THE SAME, NORTH 38°40'43" WEST A DISTANCE OF 82.59'; THENCE WITH THE SAME, NORTH 58°11'31" WEST A DISTANCE OF 119.00'; THENCE WITH THE SAME, NORTH 39°38'10" WEST A DISTANCE OF 106.90'; THENCE WITH THE SAME, NORTH 51°01'40" WEST A DISTANCE OF 49.45'; THENCE WITH THE SAME, NORTH 66°27'43" WEST A DISTANCE OF 13.59' TO A POINT ON THE EAST LINE OF CORNERSTONE LAND COMPANY AS RECORDED IN DEED BOOK R1837, PAGE 147 IN THE REGISTER'S OFFICE OF MAURY COUNTY, TENNESSEE; THENCE WITH THE EAST LINE OF CORNERSTONE, NORTH 04°59'02" EAST A DISTANCE OF 240.14' TO AN IRON PIN FOUND; THENCE NORTH 08°11'49" EAST A DISTANCE OF 527.23' TO THE POINT OF BEGINNING, HAVING AN AREA OF 861,609 SQUARE FEET, 19.78 ACRES.

THIS PROPERTY IS BEING CONVEYED HEREIN PURSUANT TO A REVERSIONARY INTEREST TO THE CITY OF SPRING HILL, TENNESSEE, BECAUSE SPRING HILL LITTLE LEAGUE FAILED TO INITIATE DEVELOPMENT OF THE PROPERTY PURSUANT TO THE ABOVE-REFERENCED DEED AND THE NEGATIVE PLEDGE AGREEMENT OF RECORD IN BOOK R2425, PAGE 1392, REGISTER'S OFFICE OF MAURY COUNTY, TENNESSEE.

NOTE: THE ABOVE PROPERTY DESCRIPTION IS BASED ON INFORMATION GATHERED DURING THE COURSE OF AN ACTUAL FIELD SURVEY CONDUCTED BY O'LEARY AND ASSOCIATES, LLC, UNDER THE DIRECTION OF ALLEN B. O'LEARY, TENNESSEE REGISTERED LAND SURVEYOR NUMBER 1987. ALL IRON PINS SET ARE ½" REBAR, WITH A PLASTIC CAP STAMPED "O'LEARY, RLS 1987".

TOGETHER WITH A NON-EXCLUSIVE PUBLIC ACCESS EASEMENT TO PROVIDE VEHICULAR AND/OR PEDESTRIAN INGRESS AND EGRESS TO THE PROPERTY.

THIS PROPERTY IS SUBJECT TO A 70' RIGHT OF WAY EASEMENT ALONG THE WEST PROPERTY LINE (APPROXIMATELY 767' IN LENGTH) FOR THE EXTENSION OF RICE ROAD. THIS PARCEL IS SUBJECT TO ANY AND ALL EASEMENTS, RESTRICTIONS, AND/OR RIGHTS-OF-WAY EITHER BY RECORD AND/OR PRESCRIPTION THAT A COMPLETE AND ACCURATE TITLE SEARCH MAY REVEAL.

THIS PROPERTY IS FURTHER SUBJECT TO A 20-FOOT-WIDE PERMANENT GRAVITY SEWER LINE EASEMENT TO BE LOCATED ACROSS A PORTION OF THE ABOVE-REFERENCED PARCEL FOR THE PURPOSE OF CONSTRUCTING, OPERATING, MAINTAINING, REPAIRING, REPLACING, AND INSPECTING SAID PROPOSED GRAVITY SEWER LINE AND TO ALLOW PERMANENT PUBLIC ACCESS FOR UTILIZATION OF SAID EASEMENT AS AN IMPROVED GREENWAY AND/OR TRAILWAY. THE CENTER LINE OF THE PROPOSED 20-FOOT-WIDE PERMANENT GRAVITY SEWER LINE EASEMENT IS DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT IN THE EASTERN PROPERTY LINE OF PARCEL 28.05; SAID POINT BEING LOCATED APPROXIMATELY 150 FEET NORTH OF THE CENTER LINE OF RUTHERFORD CREEK; THENCE SOUTH 52° 10' 21" EAST, 351.04' TO A POINT; THENCE NORTH 86° 01' 26" EAST,

319.12' TO A POINT; THENCE NORTH 46° 46' 03" EAST, 336.34' TO A POINT; THENCE NORTH 60° 44' 19" EAST, 259.00' TO A POINT; THENCE NORTH 45° 31' 04" EAST, 163.21' TO A POINT ON THE WESTERN PROPERTY LINE OF PARCEL 9.12; SAID POINT BEING LOCATED APPROXIMATELY 64 FEET SOUTH OF THE SOUTHWEST CORNER OF SAID PARCEL 9.12.

PARCEL 2: (044 027.04)

A PORTION OF LAND LOCATED IN MAURY COUNTY, A PORTION OF THE CRESTWOOD PARTNERS, LLC PROPERTY AS RECORDED IN DEED BOOK R2351, PAGE 840 AND A PORTION OF PARCEL 27.00 ON TAX MAP 44, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS.

BEGINNING AT THE CENTER OF RUTHERFORD CREEK, SAID POINT BEING THE SOUTH WEST CORNER OF THE CITY OF SPRING HILL PROPERTY AS RECORDED IN DEED BOOK R2337, PAGE 617; THENCE WITH THE SOUTH LINE OF THE CITY OF SPRING HILL AND GENERALLY FOLLOWING THE CENTER OF RUTHERFORD CREEK:

THENCE SOUTH 66°27'43" EAST A DISTANCE OF 13.59";
THENCE SOUTH 51°01'40" EAST A DISTANCE OF 49.45';
THENCE SOUTH 39°38'10" EAST A DISTANCE OF 106.90';
THENCE SOUTH 58°11'31" EAST A DISTANCE OF 119.00';
THENCE SOUTH 38°40'43" EAST A DISTANCE OF 82.59";
THENCE SOUTH 89°55'52" EAST A DISTANCE OF 75.03';
THENCE NORTH 82°56'17" EAST A DISTANCE OF 162.03';
THENCE NORTH 76°03'26" EAST A DISTANCE OF 84.62';
THENCE NORTH 53°01'11" EAST A DISTANCE OF 107.85";
THENCE NORTH 41°23'10" EAST A DISTANCE OF 108.29';
THENCE NORTH 44°46'39" EAST A DISTANCE OF 170.86';
THENCE NORTH 49°50'50" EAST A DISTANCE OF 157.89';
THENCE NORTH 87°24'50" EAST A DISTANCE OF 59.62';
THENCE NORTH 78°34'26" EAST A DISTANCE OF 61.11';
THENCE NORTH 67°03'20" EAST A DISTANCE OF 86.77';
THENCE NORTH 88°15'37" EAST A DISTANCE OF 41.68';
THENCE NORTH 36°42'46" EAST A DISTANCE OF 62.06';
THENCE NORTH 42°56'29" EAST A DISTANCE OF 75.96';
THENCE NORTH 41°36'00" EAST A DISTANCE OF 80.88';
THENCE NORTH 50°59'17" EAST A DISTANCE OF 92.98';
THENCE NORTH 47°45'21" EAST A DISTANCE OF 198.04';
THENCE NORTH 59°11'57" EAST A DISTANCE OF 40.33';

THENCE WITH THE WEST MARGIN OF INTERSTATE 65, SOUTH 11°17'52" WEST A DISTANCE OF 322.29' TO A TDOT CONCRETE MONUMENT; THENCE SOUTH 1P12'20" WEST A DISTANCE OF 229.11' TO A TDOT CONCRETE MONUMENT; THENCE SOUTH 11°22'20" WEST A DISTANCE OF 641.29' TO A TDOT CONCRETE MONUMENT; THENCE SOUTH 12°14'44" WEST A DISTANCE OF 262.10' TO AN IRON PIN SET;

THENCE SEVERING THE PROPERTY OF CRESTWOOD PARTNERS, LLC, NORTH 77°45'16" WEST A DISTANCE OF 1,415.17' TO AN IRON PIN SET; THENCE WITH THE EAST LINE OF CORNERSTONE LAND COMPANY AS RECORDED IN DEED BOOK R1929, PAGE 1308, NORTH 04°59'02" EAST A DISTANCE OF 541.45' WHICH IS THE POINT OF BEGINNING, HAVING AN AREA OF 1,072,883 SQUARE FEET, 24.63 ACRES.

THIS PARCEL IS SUBJECT TO ANY AND ALL EASEMENTS OF RECORD OR PRESCRIPTION THAT A COMPLETE TITLE SEARCH MAY REVEAL. NO TITLE SEARCH WAS PROVIDED FOR THIS SURVEY.

NOTE: THE ABOVE PROPERTY DESCRIPTION IS BASED ON INFORMATION GATHERED DURING THE COURSE OF AN ACTUAL FIELD SURVEY CONDUCTED BY WES, ENGINEERS AND SURVEYORS, UNDER THE DIRECTION OF ALLEN B. O'LEARY, TENNESSEE REGISTERED LAND SURVEYOR NUMBER 1987. ALL IRON PINS SET ARE '.' REBAR, WITH A PLASTIC CAP STAMPED "WES 1987".

BEING THE SAME PROPERTY CONVEYED TO THE CITY OF SPRING HILL, TENNESSEE. A TENNESSEE MUNICIPALITY BY WARRANTY DEED FROM SPRING HILL LITTLE LEAGUE, INC., A TENNESSEE CORPORATION, DATED 11/28/2018, OF RECORD IN BOOK R2530, PAGE 288, REGISTER'S OFFICE FOR MAURY COUNTY, TENNESSEE. (PARCEL 1)

BEING THE SAME PROPERTY CONVEYED TO THE CITY OF SPRING HILL, TENNESSEE BY WARRANTY DEED FROM CRESTWOOD PARTNERS, A TENNESSEE LIMITED LIABILITY COMPANY, DATED 12/28/2016, OF RECORD IN BOOK R2409, PAGE 1342, REGISTER'S OFFICE FOR MAURY COUNTY, TENNESSEE. (PARCEL 2)

SCHEDULE B-II EXCEPTIONS
FROM TITLE COMMITMENT NO. 1980259

1. ANY DEFECT, LIEN, ENCUMBRANCE, ADVERSE CLAIM, OR OTHER MATTER THAT APPEARS FOR THE FIRST TIME IN THE PUBLIC RECORDS OR IS CREATED, ATTACHES, OR IS DISCLOSED BETWEEN THE COMMITMENT DATE AND THE DATE ON WHICH ALL OF THE SCHEDULE B, PART I - REQUIREMENTS ARE MET. NOT A PLOTTABLE SURVEY MATTER.
2. RIGHTS OR CLAIMS OF PARTIES IN POSSESSION NOT SHOWN BY THE PUBLIC RECORDS. NONE OBSERVED.
3. EASEMENTS, OR CLAIMS OF EASEMENTS, NOT SHOWN BY THE PUBLIC RECORDS. AFFECTS PROPERTY AS SHOWN HEREON. 175' TRANSMISSION LINE PERMANENT EASEMENT GRANTED BY JUDGEMENT FILED ON 6/15/2011. THE STRIP OF LAND ACQUIRED BY TVA FROM ROCK CREEK DEVELOPMENT IS NOTED AS TRACT NO. HRM-268A, AND IS RECORDED IN BOOK 2156, PAGE 38.
4. ENCROACHMENTS, OVERLAPS, BOUNDARY LINE DISPUTES, OR OTHER MATTERS WHICH WOULD BE DISCLOSED BY AN ACCURATE SURVEY OR INSPECTION OF THE PREMISES. NONE OBSERVED.
5. ANY LIEN, OR RIGHT TO A LIEN, FOR SERVICES, LABOR, OR MATERIAL HERETO OR HEREAFTER FURNISHED, IMPOSED BY LAW AND NOT SHOWN BY THE PUBLIC RECORDS. NOT A PLOTTABLE SURVEY MATTER.
6. MINERALS OF WHATSOEVER KIND, SUBSURFACE AND SURFACE SUBSTANCES, INCLUDING BUT NOT LIMITED TO COAL, LIGNITE, OIL, GAS, URANIUM, CLAY, ROCK, SAND AND GRAVEL IN, ON, UNDER AND THAT MAY BE PRODUCED FROM THE LAND, TOGETHER WITH ALL RIGHTS, PRIVILEGES, AND IMMUNITIES RELATING THERETO, WHETHER OR NOT APPEARING IN THE PUBLIC RECORDS OR LISTED IN SCHEDULE B. THE COMPANY MAKES NO REPRESENTATION AS TO THE PRESENT OWNERSHIP OF ANY SUCH INTERESTS. THERE MAY BE LEASES, GRANTS, EXCEPTIONS OR RESERVATIONS OF INTERESTS THAT ARE NOT LISTED. NOT A PLOTTABLE SURVEY MATTER.
7. RESTRICTIONS UPON THE USE OF THE PREMISES NOT APPEARING IN THE CHAIN OF TITLE TO THE LAND. NONE OBSERVED.
8. TAXES FOR 2024 AND SUBSEQUENT YEARS, A LIEN NOT YET DUE AND PAYABLE. NOT A PLOTTABLE SURVEY MATTER.
9. GRANT OF TRANSMISSION LINE EASEMENT INCLUDING TERMS AND CONDITIONS THEREOF AS RECORDED IN BOOK 209, PAGE 508. AFFECTS SURVEYED PROPERTY AS SHOWN HEREON.
10. BOUNDARY LINE AGREEMENT EASEMENT INCLUDING TERMS AND CONDITIONS THEREOF AS RECORDED IN BOOK R1955, PAGE 1138. AFFECTS SURVEYED PROPERTY AS SHOWN HEREON.
11. TITLE TO THAT PORTION OF THE PREMISES, IF ANY, EMBRACED WITHIN THE BOUNDS OF ANY STREETS, ROADS AND/OR HIGHWAYS. NONE OBSERVED.
12. ANY INACCURACY IN THE AREA, SQUARE FOOTAGE, OR ACREAGE OF LAND DESCRIBED IN SCHEDULE A. THE COMPANY DOES NOT INSURE THE AREA, SQUARE FOOTAGE, OR ACREAGE OF THE LAND. SURVEYED AREA VALUES ARE CORRECTLY NOTED HEREON.
13. IF IMPROVEMENTS ARE COMPLETED AFTER JANUARY 1 OF ANY YEAR, THE LAW REQUIRES SUPPLEMENTAL ASSESSMENT FOR THE YEAR IN WHICH THE IMPROVEMENTS ARE COMPLETED AS DEFINED BY STATUTE. THE COMPANY ASSUMES NO LIABILITY FOR TAXES ASSESSED BY CORRECTION PURSUANT TO THE PROVISIONS OF TCA 67-5-603, ET SEQ. NOT A PLOTTABLE SURVEY MATTER.

SCHEDULE B-II EXCEPTIONS
FROM TITLE COMMITMENT NO. 1980259-2

1. ANY DEFECT, LIEN, ENCUMBRANCE, ADVERSE CLAIM, OR OTHER MATTER THAT APPEARS FOR THE FIRST TIME IN THE PUBLIC RECORDS OR IS CREATED, ATTACHES, OR IS DISCLOSED BETWEEN THE COMMITMENT DATE AND THE DATE ON WHICH ALL OF THE SCHEDULE B, PART I - REQUIREMENTS ARE MET. NOT A PLOTTABLE SURVEY MATTER.
2. RIGHTS OR CLAIMS OF PARTIES IN POSSESSION NOT SHOWN BY THE PUBLIC RECORDS. NONE OBSERVED.
3. EASEMENTS, OR CLAIMS OF EASEMENTS, NOT SHOWN BY THE PUBLIC RECORDS. NONE OBSERVED.
4. ENCROACHMENTS, OVERLAPS, BOUNDARY LINE DISPUTES, OR OTHER MATTERS WHICH WOULD BE DISCLOSED BY AN ACCURATE SURVEY OR INSPECTION OF THE PREMISES. NONE OBSERVED.
5. ANY LIEN, OR RIGHT TO A LIEN, FOR SERVICES, LABOR, OR MATERIAL HERETO OR HEREAFTER FURNISHED, IMPOSED BY LAW AND NOT SHOWN BY THE PUBLIC REC

September 11, 2024

Land Management Group, Inc.
357 Riverside Drive, Suite 210
Franklin, Tennessee 37064

Attention: Mr. Bill Charles
bill@lmgtn.com

Subject: **REPORT OF GEOTECHNICAL EXPLORATION**
Proposed Stone Creek
Spring Hill, Tennessee
UES Project No. A24112.00680.000

Dear Mr. Charles:

We are submitting the results of the geotechnical exploration performed for the proposed Stone Creek development in Spring Hill, Tennessee. The geotechnical exploration was performed in accordance with UES Proposal 13-241466 dated May 13, 2024 and authorized by you.

The following report presents our findings and recommendations for the proposed development. Should you have any questions regarding this report, or if we can be of any further assistance, please contact us at your convenience.

Sincerely,

Universal Engineering Sciences (UES)

DRAFT

S. Scott Williams, E.I.
Staff Professional

Jerry W. Gammon, P.E.
V.P., Nashville Area Geotechnical Manager
TN 111633

REPORT OF

GEOTECHNICAL EXPLORATION

Proposed Stone Creek
Spring Hill, Tennessee

UES Project No. A24112.00680.000

Submitted to:

Land Management Group, Inc.
357 Riverside Drive, Suite 210
Franklin, Tennessee 37064

Submitted by:

UES
91 South Eastgate Court
Lebanon, Tennessee 37090

Phone (615) 547-9314

UES™

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APPENDIX A – Figures and Boring Logs
APPENDIX B – Soil Laboratory Data
APPENDIX C – Representative Site Photographs
APPENDIX D – Typical Karst Feature Repair Detail

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1.0 INTRODUCTION

1.1 PURPOSE

The purpose of this geotechnical exploration was to characterize the subsurface conditions for the design and construction of the proposed Stone Creek development in Spring Hill, Tennessee. This report provides recommendations for general site preparation, foundation design, slab-on-grade construction, and pavement recommendations.

1.2 PROJECT INFORMATION AND SITE DESCRIPTION

Initial project information was provided in a May 9, 2024, email transmission from Mr. Bill Charles (Land Management Group) to Mr. Jerry Gammon (UES). Attached to the email was the following information:

- A concept plan titled “Stone Creek” by CSDG and dated 4/17/24.
- A topographic map by CSDG and dated 2/19/24 showing the proposed location of the 200-million-gallon reservoir.

At this time, we understand that a residential development (townhomes and paired cottages) is planned to be developed at approximately 153.41-acre off Rec Road in Spring Hill, Tennessee. We assume the structures will be two-story structures, assumed to be wood-framed with vinyl, stone, and brick veneer, slab-on-grade, and supported by shallow foundations. At this time, structural loading information has not been provided. From past experience with similar projects, we assume maximum column and wall loadings will be about 60 kips, and 2 to 3 kips per linear foot (klf), respectively. Additionally, a bridge crossing is planned within the northwestern portion of the site crossing Rutherford Creek.

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We understand a 200-million-gallon, 40 feet deep, city reservoir is planned in the southeast corner of the site. Based on the provided information, we understand cut depths of about 40 feet are planned in the reservoir area and cuts of up to 20 feet are planned in other development areas of the site. As the site is mostly rock, UES understands the client has requested rock coring in the reservoir and throughout the development area, particularly in deep cut areas, to evaluate the quality of rock for excavation purposes. Furthermore, we understand the client has requested establishing the water level within the proposed reservoir area. Therefore, we recommend installing one to two ground water monitoring wells within the proposed reservoir area.

At the time of our site reconnaissance, the subject property was observed to be a vacant property primarily covered with moderate to dense tree foliage, underbrush, and vegetation. However, the most northern portion of the site was observed to be an open field with grass and weed vegetation. This most northern portion of the site was separated by the remainder of the site by Rutherford Creek that traversed from northeast to southwest within the northern portion of the site. During our site reconnaissance, some stockpiles of material was observed within the most northwestern portion of the site as shown by photos 1 through 4 on Figure 4 in Appendix C. Additionally, a TVA overhead transmission line was observed along the most southern property boundary. Multiple rock outcroppings were also observed sporadically across the site with abundance of rock being observed within the southeastern portion of the site as shown by photos 5 through 15 on Figures 4 through 6 in Appendix C. Furthermore, multiple drainage features were observed primarily in the central northern portion of the site primarily draining toward Rutherford Creek as shown by photos 16 through 20 on Figures 6 and 7. The remainder of the property was observed to be rolling and generally sloped from the central-southern portion of the site down toward the northern (Rutherford Creek) and southern property boundaries.

Multiple potential karst features were observed across the subject site footprint as shown by Figures 8 through 10. The features observed/noted were not labeled probable at this time due to the current state the observed features were at during exploration. These potential karst features were observed to consist of small to medium surface closed depressions (KF-1 and KF-8

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through KF-10), small dropouts adjacent exposed bedrock (KF-2 and KF-4), and smaller to larger solution joints within exposed bedrock (KF-3 and KF-5 through KF-7).

A grading plan has not been provided at this time. Based on observations made during site reconnaissance and provided information, we anticipate maximum cut depths on the order of about 40 feet (reservoir area) and 20 feet or less (remainder of the site) and fill thicknesses on the order of about 20 feet to establish planned subgrade elevations. **UES should be recontacted once a final grading plan has been produced to verify the recommendations provided in this report are still applicable.**

1.3 SCOPE OF STUDY

This geotechnical exploration involved a site reconnaissance, field exploration, laboratory testing, and engineering analysis. The following sections of this report present discussions of the field exploration, site conditions, and conclusions and recommendations. Following the text of this report, Appendix A presents figures and boring logs. Appendix B provides laboratory tests performed and the results of these tests. Appendix C provides representative photographs of the site. Appendix D provides the typical karst feature repair detail.

The geotechnical scope of services did not include an environmental assessment for determining the presence or absence of wetlands, or hazardous or toxic materials in the soil, bedrock, surface water, groundwater, or air, on, or below, or around this site. Any statements in this report or on the boring logs regarding odors, colors, and unusual or suspicious items or conditions are strictly for informational purposes.

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2.0 EXPLORATION AND TESTING PROGRAMS

2.1 FIELD EXPLORATION

The site subsurface conditions were explored on July 9 through 28 and September 3, 2024 with twenty-six (26) soil test borings (B-2 through B-27). Boring B-1 was not completed and borings B-15 and B-17 were not cored due to weather permitting during the time of drilling activities.

The borings were located in the field by utilizing GPS coordinates of requested test locations extrapolated from Google Earth. Figure 3 in Appendix A should be reviewed for approximate boring locations. The soil test borings were advanced using 3.25-inch inside diameter hollow stem augers (HSA) and track mounted, geoprobe drill rig. The drill crew worked in general accordance with ASTM D6151 (HSA Drilling). Sampling of overburden soils was accomplished using the standard penetration test procedure (ASTM D1586). In split–spoon sampling, a standard 2-inch O.D. split-spoon sampler is driven into the bottom of the boring with a 140 pound hammer falling a distance of 30 inches. The number of blows required to advance the sampler the last 12 inches of the standard 18 inches of total penetration is recorded as the Standard Penetration Resistance (N-value). These N-values are indicated on the boring logs at the testing depth, and provide an indication of the relative density of granular materials and strength of cohesive materials. Following auger refusal, rock coring to explore auger refusal material was performed in accordance with ASTM D2113.

Upon completion, the borings were monitored for the presence of groundwater and backfilled with soil cuttings prior to leaving the site. Minor settlement of the compacted soil material should be expected overtime. No other site restoration efforts were requested or proposed.

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2.2 LABORATORY TEST PROGRAM

Soil samples collected during drilling activities were transported to our laboratory for visual classification and laboratory testing. The following laboratory testing was performed on select samples to determine various properties of the soil:

- Natural Moisture Content (ASTM D 2216): Moisture content determinations were performed. The natural moisture content is defined as the ratio of the weight of water present in the soil to the dry weight of soil.
- Atterberg Limits (ASTM D 4318): Atterberg Limits tests were performed. These tests help us to confirm our visual classifications. The plastic limit and liquid limit represent the moisture content at which a cohesive soil changes from a semi-solid to a plastic state and from a plastic state to liquid state, respectively.

The test results are presented in the Soil Data Summary enclosed in Appendix B.

3.0 SUBSURFACE CONDITIONS

3.1 GEOLOGIC CONDITIONS

The subject site is located within the Central Basin Physiographic Province of Middle Tennessee. The Central Basin is an elliptical basin surrounded by the Highland Rim. The Basin is subdivided into inner and outer sections. The inner section is generally smooth and gently rolling in contrast to the higher and more deeply dissected outer Basin. Bedrock is primarily Ordovician limestone, shale and dolomite in the outer Basin. The inner basin is generally covered with limestone with patches of bare platy rock and thin topsoil with glade areas supporting red cedar trees. The region is moderate in karst development with many sinkholes and some large caves present, notably in the glade areas.

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The Geologic Map of the Carters Creek Quadrangle, Tennessee (Tennessee Division of Geology, 1986) shows that the majority of the site is underlain by the Lebanon Limestone formation with a small portion of the most northeast portion of the site underlain by the Ridley Limestone formation. The Lebanon Limestone formation is typically a medium-gray to medium dark-gray and brown-gray to yellowish-brown, cryptocrystalline to very fine-grained, thin-bedded limestone with thin shale partings, fossiliferous, and dolomitic fucoids common. These limestones generally weather to produce a layer of native soil (residuum) which is typically a brown or reddish-brown high plasticity clay with chert.

The Ridley Limestone formation is typically a brownish-gray to yellowish-brown, cryptocrystalline to very fine-grained with some beds ranging up to coarse-grained, medium to thick-bedded limestone with minor amounts of magnesium limestone as small irregular mottlings and thin bands, and thin lenses of chert locally. The limestone weathers to produce a layer of native soil (residuum) which is typically a brown or reddish-brown silty clay with chert. Vertical soil seams and karst features are common.

The Lebanon Limestone formation is not generally conducive to solution weathering. However, where sinkholes are present, it is mainly due to the weathering process extending into the underlying Ridley Limestone formation. In general, because of the variable depth of overburden soils, karst features can be relatively small or very large in horizontal extent and can extend into the bedrock several feet. Review of the USGS Carters Creek Quadrangle, Tennessee, Topographic Quadrangle Map (1986) did not indicate the presence of any closed depressions within the subject site. However, the topographic map did indicate the presence of multiple closed depressions within a 1-mile radius of the site most notably to the east. Additionally, multiple potential karst features were observed across the subject site footprint as shown by Figures 8 through 10. We also note the scale of the map often precludes mapping of smaller depressions.

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Since the bedrock underlying the site mainly consists of carbonate rock, the site is susceptible to the typical carbonate hazards of irregular weathering, cave and cavern conditions, and overburden sinkholes. Carbonate rock, while appearing very hard and resistant, is soluble in slightly acidic water. This characteristic, plus differential weathering of the bedrock mass, is responsible for the hazards. Of these hazards, the occurrence of sinkholes is potentially the most damaging to overlying soil-supported structures. In Middle Tennessee, sinkholes occur primarily due to differential weathering of the bedrock and "flushing" or "raveling" of overburden soils into the cavities in the bedrock. The loss of solids creates a cavity or "dome" in the overburden. Growth of the dome over time or excavation over the dome can create a condition in which rapid, local subsidence or collapse of the roof of the dome occurs.

3.2 SUBSURFACE CONDITIONS

A surficial layer of topsoil was encountered in soil test borings B-12, B-15, B-20, B-26, and B-27 to depths of about 6 and 7 inches below the existing ground surface elevation. In the remaining soil test borings, the topsoil layer was not recorded. Beneath the surficial layers, residual soils were encountered to auger refusal depths ranging from about 0.3 to 12.7 feet below the existing ground surface elevation.

3.2.1 Residual Soils

Beneath the surficial layers in soil test borings B-12, B-15, B-20, B-26, and B-27, residual soil was encountered to auger refusal depths. Due to the lack of samples obtained due to the shallow refusals encountered in the soil test borings, residual soils were not observed in the remaining soil test borings though residual soils are anticipated overlying the refusal conditions. Residual soil is formed from the in-place weathering of the underlying bedrock. The residual soil generally consisted of brown, light brown, orangish brown, and gray clays with varying amounts of limestone fragments, sand, some mineral staining, and trace chert fragments. The N-values of the standard penetration resistance test (SPT) are used to evaluate the relative consistency or density of the subsurface soils. The N-values for the residual soil ranged from 0 bpf to 50 blows

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per 0 inches of penetration, indicating a consistency of stiff to hard. It is our opinion that the inflated N-values were due to encountering refusal materials prior to completing the drive sample interval. The natural moisture content of the residual soil samples retrieved from the soil test borings ranged from 6.9 to 26.1 percent.

3.2.2 Subsurface Water

Subsurface water was encountered in soil test borings B-26 and B-27 at depths of 5.5 and 6 feet below the existing ground surface elevation, respectively. Subsurface water was not observed in any of the remaining 24 soil test borings during or at the completion of soil drilling activities. Once coring was started into the underlying bedrock, water was introduced for coring purposes. While coring activities were taking place, water circulation was kept on borings B-2 through B-14, B-16, and B-20 through B-27 to completion of coring activities. However, water circulation was lost in borings B-18 and B-19 at depths of about 13.3 and 3.5 feet below the existing ground surface elevation within the rock stratum. It is our opinion that these borings lost circulation due to the clay seams within the upper layers of the bedrock. Additionally, discontinuous zones of perched water may exist within the overburden and/or at the contact with bedrock. Subsurface water levels may fluctuate due to seasonal change in precipitation amounts or due to construction activities in the area. The groundwater presented in this report is the information that was collected at the time of our field activities. We recommend that the contractor determine the actual groundwater level at the site at the time of the construction activities.

3.2.3 Refusal Conditions

Auger refusal materials were encountered in each of the 26 soil test borings at depths ranging from about 0.3 to 12.7 feet below the existing ground surface elevation, respectively. Refusal is a designation applied to any material that cannot be penetrated by the power auger. Auger refusal may indicate dense gravel or cobble layers, boulders, rock ledges or pinnacles, or the top of continuous bedrock. The following table presents the auger refusal depths at each boring location:

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AUGER REFUSAL DEPTHS					
Location	**Refusal Depth (feet)**	**Location**	**Refusal Depth (feet)**	**Location**	**Refusal Depth (feet)**
B-2	1	B-11	2	B-20	4
B-3	0.7	B-12	4	B-21	1.5
B-4	0.7	B-13	0.3 (12.7)	B-22	1
B-5	1.3	B-14	0.3 (10.5)	B-23	2
B-6	1	B-15	3.3	B-24	1.2
B-7	1	B-16	3.2	B-25	4.5
B-8	0.7	B-17	0.3	B-26	7
B-9	1	B-18	3.5	B-27	7.3
B-10	0.7	B-19	2.8		

Note: Refusal depths are taken from the ground surface elevation at the time of exploration and should be considered approximate. The refusal depths within parenthesis are true bedrock refusals at borings B-13 and B-14.

3.2.4 General

The above subsurface description is of a generalized nature to highlight the major subsurface stratification features and material characteristics. The boring logs included in Appendix A should be reviewed for specific information at individual boring location. The depth and thickness of the subsurface strata indicated on the test records were generalized from and interpolated between boring locations. The transition between materials will be more or less gradual than indicated and may be abrupt. Information on actual subsurface conditions exists only at the specific test locations and is relevant to the time the exploration was performed. Variations may occur and should be expected between boring locations. The stratification lines were used for our analytical purposes and, unless specifically stated otherwise, should not be used as the basis for design or construction cost estimates.

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4.0 CONCLUSIONS AND RECOMMENDATIONS

4.1 SITE ASSESSMENT

The results of the subsurface exploration indicate that the site is adaptable for the proposed construction. However, as is the case with most sites, some inherent challenges are associated with this development of this site. These challenges include shallow refusal conditions, differential bearing concerns, the underlying karst geology, and moisture sensitive soils.

4.1.1 Shallow Refusal Conditions

Shallow refusal conditions were encountered in each of the 26 soil test borings at depths ranging from about 0.3 to 12.7 feet below the existing ground surface elevation. The refusal materials encountered were generally hard and could not be penetrated by the power auger. These refusal materials are anticipated to be encountered in a large portion of the building footprints and utility areas. As such, we anticipate excavation of the probable limestone bedrock refusal materials will likely require hoe-ramming, rock sawing, and/or blasting for removal.

4.1.2 Differential Bearing Concerns

Based on the results of our subsurface exploration and anticipated cut/fill depths, the possibility exists that a portion of the building foundations may bear on clay soil overburden material, while a portion could be bearing on bedrock. This existing state will result in a differential bearing condition which could result in excessive differential settlement across the building. As a result, recommendations to reduce the concern with differential settlement are provided in further sections.

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4.1.3 Karst Geology

A certain degree of risk with respect to sinkhole formation and subsidence should be considered with any site located within geologic areas underlain by potentially soluble rock units. While a detailed effort to assess the potential for sinkhole formation on this site was beyond the scope of this evaluation, the soil test borings did not encounter obvious indications of sinkhole development. Additionally, review of topographic mapping did not indicate the presence of any closed depressions on the subject site. However, the topographic map did indicate the presence of multiple closed depressions within a 1-mile radius of the site most notably to the east. Additionally, multiple potential karst features were observed across the subject site footprint as shown by Figures 8 through 10. The possibility exists that mass excavation may be required to reach development subgrade elevation within these areas. Areas of cut may extend deep enough into bedrock to undercut and remove the solution weathering (i.e. karst) feature. However, if the karst feature is located in an area that is at grade and/or requires fill materials to achieve subgrade elevation, the observed potential karst feature should be stripped of clayey soil and the "throat" be remediated prior to structural backfill. UES should be retained to provide recommendations during development activities, which will likely consist of an inverted filter or the placement of concrete as shown by the Typical Karst Feature Repair Detail in Appendix D.

4.1.4 Moisture Sensitive Soils

The subgrade soils at this site, as with most sites in middle Tennessee, consist of clayey soils. These materials will be sensitive to changes in moisture contents. As such, it will be advantageous to perform grading activities during periods of warm and/or dry weather. Areas that are wet or become unstable can possibly be repaired by scarification and re-compaction if grading occurs during warm, dry weather. If grading occurs during wet, cool weather, we expect that additional soft soil at or near the surface soils across the site will have to be undercut and replaced. A budget contingency should be established for subgrade stabilization/remediation consistent with the time of year that grading will take place.

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4.2 SITE PREPARATION

4.2.1 Subgrade

Vegetation, topsoil, organic soils, existing utilities, rock fragments greater than 6 inches, and other debris should be removed from the proposed construction area. A large portion of the site was observed to have tree foliage. Therefore, thicker topsoil depths or deep root zones may be encountered which will also require removal. Though no fill materials were encountered within the soil test borings, fill materials may be encountered between our boring locations during grading activities within the building footprint or parking and drive areas. Therefore, if existing fill is encountered within the slab-on-grade or foundations footprints, the fill materials should be undercut to stiff residual materials and replaced with suitable fill materials. The actual depth of removal should be determined by a representative of the geotechnical engineer at the time of construction.

After completion of stripping operations and any required excavations to reach planned subgrade elevation, we recommend that the subgrade be proofrolled with a fully-loaded, tandem-axle dump truck or other pneumatic-tired construction equipment of similar weight. Also, any unsuitable existing fill within the parking and drive areas should be undercut and replaced at the direction of the geotechnical engineer. The geotechnical engineer or his representative should observe proofrolling. Weak or unstable areas should be undercut and remediated at the geotechnical engineer's recommendation. Areas to receive structural soil fill should also be proofrolled prior to the placement of any fill.

4.2.2 Structural Soil Fill

Material considered suitable for use as structural fill should be clean soil free of organics, trash, and other deleterious material, containing no rock fragments greater than 6 inches in any one dimension. Preferably, structural soil fill material should have a standard Proctor maximum dry density of 90 pcf or greater and a plasticity index (PI) of 35 percent or less. Materials with a PI greater

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that 35 percent are susceptible to volume changes with changes in moisture content. Volume changes in the foundation subgrade can cause structural distress in buildings, floor slabs, and pavements. Material to be used as structural fill should be tested by the geotechnical engineer to confirm that it meets the project requirements before being placed. This testing typically requires at least 3 to 4 days to complete. To avoid delays during grading, samples of proposed fill materials (both on-site and off-site) should be collected during site preparation activities.

Structural fill should be placed in loose, horizontal lifts not exceeding 8 inches in thickness. Each lift should be compacted to at least 95 percent of the soil's maximum dry density per the standard Proctor method (ASTM D698) and within the range of minus (-) 2 percent to plus (+) 3 percent of the optimum moisture content. Each lift should be tested by geotechnical personnel to confirm that the contractors' method is capable of achieving the project requirements before placing any subsequent lifts. Any areas, which have become soft or frozen, should be removed before additional structural fill is placed.

4.2.3 Shotrock Fill Materials

Shotrock fill, with acceptable gradation, can be used as structural fill. Shotrock utilized as structural fill should be well graded with a maximum rock size of 8-inches in the largest dimension and placed in lifts not to exceed 12 inches thick. Shotrock fill should have adequate fines to effectively "choke" the larger rock pieces, adequately filling voids or open spaces. The larger rock pieces should lie flat and not overlap each other. The percentage of soil in the fill should be limited to a maximum of 10 percent. Shotrock fill should be compacted using complete passes of a D-8 class crawler tractor, or equivalent. A pass is defined as a complete coverage of the surface with the D-8 track overlapping 50 percent. Half of the passes should be in each perpendicular direction. Shotrock fill placement should be accomplished under the full time observation of a representative of the geotechnical engineer.

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4.2.4 Compacted Crushed Stone Fill

Compacted crushed stone fill should be Type A, Class A, and Grading D in accordance with Section 903.05 of the Tennessee Department of Transportation specifications. The crushed stone fill should be placed in loose, horizontal lifts not exceeding 10 inches in loose thickness. Each lift should be compacted to at least 95 percent of maximum dry density per the standard Proctor method (ASTM D698). Each lift should be compacted and tested by geotechnical personnel to confirm that the contractor's method is capable of achieving the project requirements before placing any subsequent lifts.

4.3 FOUNDATIONS

4.3.1 Option #1 - Rock Bearing Shallow Foundations

Based on the varying shallow depths to bedrock that could possibly cause differential bearing conditions, the foundations for the proposed structures can be supported on the underlying competent bedrock. Competent bedrock is generally defined as rock that cannot be removed or dislodged by the bucket of a track hoe. The remaining isolated foundation areas underlain by soil can be over-excavated to bedrock, cleaned of remaining soil particles, and backfilled with lean concrete back to foundation bearing elevation. Furthermore, if bedrock is encountered above planned bearing elevation, the rock should be excavated down to bearing elevation. The recommended allowable bearing capacity for design of the foundations bearing on bedrock or concrete fill is 4,000 pounds per square foot (psf). It should be noted that higher design bearing capacities may be provided, however, based on the type of structures being constructed it is unlikely the bearing capacity will control the size of the foundations. If higher design foundation bearing values are desired/needed, UES should be contacted to assist in the evaluation with the structural engineer.

We recommend that continuous foundations be a minimum of 18 inches wide and isolated spread footings be a minimum of 24 inches wide to reduce the possibility of a localized punching shear

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failure. Exterior footings should be designed to bear at least 12 inches below finished exterior grade to protect against frost.

Foundation excavations should be opened, the subgrade evaluated, remedial work performed, and concrete placed in an expeditious manner. Exposure to weather often reduces foundation support capabilities, thus necessitating remedial measures prior to concrete placement. It is also important that proper surface drainage be maintained both during construction (especially in terms of maintaining dry footing trenches) and after construction.

4.3.2 Option #2 - Shotrock Bearing Foundations

We note that it is anticipated that the excess of rock materials to be removed in cut areas will be used for the development of this site. If shotrock materials are to be used for foundation support in the buildings, the recommended allowable bearing capacity for design of the foundations bearing on at least 6 feet of properly placed and compacted shotrock underlain by residual soil, OR at least 2 feet of shotrock underlain by bedrock is 4,000 pounds per square foot (psf) or less. We recommend that continuous foundations be a minimum of 18 inches wide and isolated spread footings be a minimum of 24 inches wide to reduce the possibility of a localized punching shear failure. Exterior footings should be designed to bear at least 12 inches below finished exterior grade to protect against frost.

Foundation excavations should be opened, the subgrade evaluated, remedial work performed, and concrete placed in an expeditious manner. Exposure to weather often reduces foundation support capabilities, thus necessitating remedial measures prior to concrete placement. It is also important that proper surface drainage be maintained both during construction (especially in terms of maintaining dry footing trenches) and after construction.

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4.3.3 Option #3 - Soil Bearing Shallow Foundations

The foundations for the proposed structures can also be supported on stiff or better residual soil or properly compacted structural fill materials should the structures require fill materials to establish planned subgrade elevation. The recommended allowable bearing capacity for design of soil bearing foundations is 2,000 pounds per square foot (psf) or less. We recommend that continuous foundations be a minimum of 18 inches wide and isolated spread footings be a minimum of 24 inches wide to reduce the possibility of a localized punching shear failure. Exterior footings should be designed to bear at least 12 inches below finished exterior grade to protect against frost.

As mentioned previously, auger refusal was encountered at depths ranging from about 0.3 to 12.7 feet below the existing ground surface elevation. Due to the anticipated cut and fill depths, it should be anticipated that refusal materials may be encountered during foundation and/or utility excavations. If rock is encountered at the foundation bearing elevation, we recommend the rock be removed to a minimum depth of 18 inches below planned bearing elevation. The area can then be backfilled with properly compacted crushed stone or open-graded #57-sized stone. The crushed stone will help act as a "cushion" to prevent point loading of the foundation. If desired, the foundation designer may also elect to include additional reinforcing steel into the foundations at these transition points to help resist negative moment forces.

Foundation excavations should be opened, the subgrade evaluated, remedial work performed, and concrete placed in an expeditious manner. Exposure to weather often reduces foundation support capabilities, thus necessitating remedial measures prior to concrete placement. It is also important that proper surface drainage be maintained both during construction (especially in terms of maintaining dry footing trenches) and after construction.

4.3.4 Bridge Foundations

Foundations for the proposed bridge should bear on competent limestone bedrock conditions. Competent bedrock is generally defined as rock that cannot be removed or dislodged by the bucket

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of a track hoe. Based on the core data obtained during coring activities, we anticipate up to 8 (B-26) to 1.5 (B-27) feet of weathered limestone may be needed to be removed to establish competent limestone bearing conditions. The recommended allowable bearing capacity for design of the bridge foundations bearing on competent limestone bedrock is 25,000 psf or less. If a higher bearing capacity is desired, UES shall be contacted to work with the structural engineer.

The bottom of each of the bridge foundations should be observed and scratch tested to evaluate the suitability of the given bearing capacity and to determine the competence of the underlying rock. This is accomplished by drilling a minimum 2-inch diameter probe hole in the bottom of the foundations to a minimum depth of 1.5 times the foundation diameter or a maximum depth of 10 feet. The bottom of the foundation and the probe hole should be examined by a geotechnical engineer or qualified staff professional to verify the depth of penetration, bearing capacity, and the absence of voids or unsuitable conditions underlying the bottom of the foundation. Should unsuitable conditions be observed, the column foundations should be deepened so as to bear in suitable material. The bottom of the hole should be free of more than 2 inches of water, and any mud, broken rock, or other loose debris.

Based on our previous experience with similar proposed bridge structures, it is unlikely the allowable bearing capacity given above will control the size of the foundations. However, if a higher design bridge foundation bearing value is desired/needed, UES should be contacted to assist in the evaluation with the structural engineer.

Foundation excavations should be opened, the subgrade evaluated, remedial work performed, and concrete placed in an expeditious manner. Exposure to weather often reduces foundation support capabilities, thus necessitating remedial measures prior to concrete placement. It is also important that proper surface drainage be maintained both during construction (especially in terms of maintaining dry footing trenches) and after construction.

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4.3.5 Slab-on-Grade

For slab-on-grade construction, the site should be prepared as previously described. We recommend that the subgrade be topped with a minimum 4-inch layer of crushed stone to act as a capillary moisture block. The subgrade should be proofrolled and approved prior to the placement of the crushed stone. Based on the conditions encountered on this site, we recommend that the floor slabs be designed using a subgrade modulus of 125 pounds per cubic inch (pci). This modulus is appropriate for small diameter loads (i.e. a 1ft x 1ft plate) and should be adjusted for wider loads.

4.4 LATERAL EARTH PRESSURES

Due to anticipated bridge crossing and retaining walls to help develop the site, we are providing equivalent fluid pressures for three backfill conditions for cantilever-type walls. These are 1) active earth pressure for granular backfill (clean sand or gravel), 2) at-rest earth pressure for granular backfill, and 3) at-rest earth pressure for fine-grained material (silt or clay) backfill. Granular backfill should be placed at a 1:1 backslope, extending upward from the heel of the wall foundation in order to utilize parameters assigned to granular backfill.

Condition 1 - The active earth pressure for granular backfill will result in an equivalent fluid pressure of 40 pounds per cubic foot (pcf). If the granular backfill is to develop active earth pressure conditions, walls must be flexible and/or free to rotate or translate at the top approximately one inch laterally for every 20 feet of wall height.

Condition 2 - The at-rest earth pressure for granular backfill will result in an equivalent fluid pressure of 50 pcf. For retaining walls that will not rotate or translate, such as building walls or other walls rigidly connected to structures, at-rest conditions will develop.

Condition 3 - Walls backfilled with fine-grained material (silt or clay) should be designed using the at-rest earth pressure whether restrained at the top, or not. Fine-grained soils typically creep over time which produces additional lateral stresses to the wall. The equivalent fluid pressure for this case is 70 pcf.

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For rigid, cast-in-place concrete walls, a friction factor of 0.35 between foundation concrete and clayey soil may be used when evaluating friction. If a stone leveling course is utilized beneath the foundation, a friction factor of 0.50 between foundation concrete and the dense grade aggregate base may be used when evaluating friction. A friction factor of 0.65 between foundation concrete and competent rock may be used when evaluating friction. Also, an ultimate passive earth pressure resistance of well-compacted soil fill can be approximated by a uniformly acting resistance of 750 psf. However, to limit deformation when relying on passive strength, we recommend using a minimum safety factor of 3.0 applied to the ultimate passive resistance value.

4.5 PAVEMENT RECOMMENDATIONS

4.5.1 Flexible Pavement Design

AASHTO flexible pavement design methods have been utilized for pavement recommendations. Our recommendations are based on the assumptions that the subgrade has been properly prepared as described previously. Traffic intensities were unavailable at the time this report was prepared, however, based on our experience with similar projects with flexible pavement we recommend the following light duty and heavy duty flexible pavement section:

	Recommended Thickness (Inches)	
Pavement Materials	Light Duty	Heavy Duty
Bituminous Asphalt Surface Mix	1.5	1.5
Bituminous Asphalt Base Mix	2.0	2.5
Compacted Crushed Aggregate Base	6.0	8.0

We recommend a base stone equivalent to a Type A, Class A and Grading D in accordance with Section 903.05 of the Tennessee Department of Transportation specifications. The bituminous

asphalt pavement should be Grading "E" as per Section 411 for the surface mix and Grading “B” as per section 307 for the binder mix. Compaction requirements for the crushed aggregate base and the bituminous asphalt pavement should generally follow Tennessee Department of Transportation specifications.

4.5.2 Rigid Pavement Design

Areas of the project site with anticipated heavy vehicle loads should be constructed with rigid pavements. We recommend the following rigid pavement section:

Pavement Materials	Recommended Thickness (Inches)
4,000 psi Type I Concrete	6.0
Compacted Crushed Aggregate Base	5.0

Concrete should be reinforced with welded wire fabric or reinforcing bars to assist in controlling cracking from drying shrinkage and thermal changes. Sawed or formed control joints should be included for each 225 sq. ft of area or less (15 ft by 15 ft). Saw cuts should not cut through the welded wire fabric or reinforcing steel and dowels should be utilized at formed and/or cold joints.

4.5.3 General

Our recommendations are based upon the assumption that the subgrade has been properly prepared (as per previous sections) and that any off-site soil borrow to be used to backfill to the final subgrade meets the requirements of structural soil fill section for off-site borrow. Site grading is generally accomplished early in the construction phase. As construction proceeds, the subgrade may be disturbed or degraded due to utility construction, construction traffic, or wetting or drying. As a result, the pavement subgrade may not be suitable for pavement construction and remedial repair may be required prior to pavement construction. The subgrade should be evaluated immediately prior to pavement construction by proofrolling, as discussed earlier in this report. Particular attention should be given to check for weak materials in

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anticipated high traffic areas, areas that were degraded by construction traffic, or where backfilled borings are located. Weak materials identified should be repaired by undercutting the weak materials and backfilling the undercut with compacted fill. We also recommend the moisture content of the subgrade materials be checked immediately prior to pavement construction. If the soil moisture content is not within the ranges recommended in this report, the upper 8 inches should be scarified, moisture conditioned to the recommended moisture content range and recompacted. Stability should then be evaluated by proofrolling.

Paved areas should be constructed with positive drainage to direct water off-site and to minimize surface water seeping into the pavement subgrade. The subgrade should have a sufficient slope to promote drainage. In down grade areas, the basestone should extend through the slope to allow any water entering the basestone a path to exit.

5.0 CONSTRUCTION CONSIDERATIONS

5.1 EXCAVATIONS

Auger refusal materials were encountered in each of the 26 soil test borings at depths ranging from about 0.3 to 12.7 feet below the existing ground surface elevation. Auger refusal conditions generally correspond to materials which require blasting for removal. Typically, soils penetrated by the augers can be removed with conventional earthmoving equipment. However, excavation equipment varies, and field refusal conditions may vary. The weathering process in this geology is erratic and variations in the rock profile can occur in small lateral distances. Therefore, it is possible that some partially weathered rock and/or rock pinnacles or ledges requiring difficult excavation techniques may be encountered in isolated areas of the site between our boring locations.

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Overblast Concerns

We caution against extensive overblasting in building areas (blasting below finished grade) during the site grading operations. Overblasting typically damages below grade bedrock by fracturing or heaving the rock from its original position. This often creates difficulties for foundations and floor slabs supported on these materials by creating voids in the rock unit and greatly reducing the support capacity. Any areas damaged by overblasting should be evaluated by the geotechnical engineer to determine appropriate corrective measures.

Excavation Safety

Excavations should be sloped or shored in accordance with local, state, and federal regulations, including OSHA (29 CFR Part 1926) excavation trench safety standards. The contractor is usually solely responsible for site safety. This information is provided only as a service and under no circumstances should UES be assumed to be responsible for construction site safety.

5.2 FOUNDATION CONSTRUCTION

Foundation excavations should be opened, the subgrade evaluated, remedial work performed, and concrete placed in an expeditious manner. Exposure to weather often reduces foundation support capabilities, thus necessitating remedial measures prior to concrete placement. It is also important that proper surface drainage be maintained both during construction (especially in terms of maintaining dry footing trenches) and after construction. Soil backfill for footings should be placed in accordance with the recommendations for structural fill presented herein.

Foundation subgrade observations should be performed by a UES geotechnical engineer, or his qualified representative, so that the recommendations provided in this report are consistent with the site conditions encountered. A dynamic cone penetrometer (DCP) is commonly utilized to provide information that is compared to the data obtained in the geotechnical report. Where unacceptable materials are encountered, the material should be excavated to stiff, suitable soils or

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remediated at the geotechnical engineer's direction. Typical remedial measures consist of undercutting, over-excavation, or combinations thereof.

5.3 MOISTURE SENSITIVE SOILS

The fine-grained soils encountered at this site will be sensitive to disturbances caused by construction traffic and changes in moisture content. During wet weather periods, increases in the moisture content of the soil can cause significant reduction in the soil strength and support capabilities. Construction traffic patterns should be varied to prevent the degradation of previously stable subgrade. In addition, plastic soils which become wet may be slow to dry and thus significantly retard the progress of grading and compaction activities. We caution if site grading is performed during the wet weather season, methods such as discing and allowing the material to dry will be required to meet the required compaction recommendations. It will, therefore, be advantageous to perform earthwork and foundation construction activities during dry weather.

5.4 DRAINAGE AND SURFACE WATER CONCERNS

To reduce the potential for undercut activities and construction induced dropouts, water should not be allowed to collect in the foundation excavations, on floor slab areas, or on prepared subgrades of the construction area either during or after construction. Undercut or excavated areas should be sloped to facilitate removal of any collected rainwater, subsurface water, or surface runoff. Positive site surface drainage should be provided to reduce infiltration of surface water around the perimeter of the building and beneath the floor slab. The grades should be sloped away from the building and surface drainage should be collected and discharged such that water is not permitted to infiltrate the backfill and floor slab areas of the building.

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5.5 SINKHOLE CORRECTIVE ACTIONS AND CONSIDERATIONS

As mentioned previously, potential karst features are present within the anticipated development area. We recommend that existing soft soils be removed from the depressed area to the underlying stiff or better residual soil or bedrock and evaluated by UES. At that time, recommendations will be provided for backfill, which will likely consist of an inverted filter if a throat is encountered, lining the bottom of the excavation with geotextile prior to backfilling with clean rock. We have included a figure in Appendix D outlining commonly used methods of karst feature repairs.

During construction and based on our experience, corrective actions, such as proper grade selection and positive site drainage, can be performed to decrease but not eliminate the potential for sinkhole development.

In general, the portions of a site that are excavated to achieve the desired grades will have a higher risk of sinkhole development than the areas that are filled, because of the exposure of relic fractures in the soil to rainfall and runoff. On the other hand, those portions of a site that receive a modest amount of fill (or that have been filled in the past) will have a decreased risk of sinkhole development caused by rainfall or runoff because the placement of a cohesive soil fill over these areas effectively caps the area with a relatively impervious “blanket” of remolded soil. Therefore, the recommendations that follow incorporate a modest remedial treatment program designed to make the surface of the soil in excavated areas less permeable.

Although it is our opinion that the risk of ground subsidence associated with sinkhole formation cannot be eliminated, we have found that several measures are useful in site design and development to reduce this potential risk. These measures include:

- Maintaining positive site drainage to route surface waters well away from structural areas both during construction and for the life of the structure.

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- The scarification and re-compaction of the upper 6 to 10 inches of soil in earthwork cut areas.
- Verifying that subsurface piping beneath structures is carefully constructed and pressure tested prior to its placement in service.
- The use of pavement or lined ditches, particularly in cut areas, to collect and transport surface water to areas away from structures.

Considerations when building within a sinkhole prone area are to provide positive surface drainage away from any proposed building or parking area both during and after construction. Backfill in utility trenches of other excavations should consist of compacted, well-graded material such as dense graded aggregate or compacted on site soils. The use of an open graded stone such as No. 57 stone is not recommended unless the stone backfill is provided an exit path and not allowed to pond. If sinkhole conditions are observed, the type of corrective action is most appropriately determined by UES on a case-by-case basis.

5.6 SLOPES

Analysis of proposed slopes for stability was not included in the authorized scope of services. If the client would like this service completed for proposed slopes, UES can perform these services for an additional fee, upon request. When requested, UES will issue an additional services proposal for review and authorization.

For compacted soil fill, a maximum slope inclination of 3(H):1(V) is recommended. Compacted shotrock fill can be sloped at 1.75(H):1(V). The natural slope should not be steepened and the vegetation should not be removed from the slopes to the extent possible. To minimize the risk of slope movements or failures that sometimes occur at the “virgin soil”/”fill” interface, we recommend that the existing ground be stripped and terraced (benched) prior to the placement of fill. The benches should be in 2- to 3-ft high steps with near-horizontal terraces. Earthwork for construction of the slopes (including fill compaction) should follow all of the same recommendations described elsewhere in this report. This includes (but is not limited to) fill placement begin at the deepest level, and proceed uphill in horizontal lifts. The outer wedge of

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all fill slopes should be constructed of high-quality fill that is compacted as well as (or better than) the other fill.

Some regular slope maintenance should be anticipated. Erosion can be reduced by diverting surface runoff from the slopes and by providing an adequate vegetative cover (for soil slopes) as soon as possible. Contractors, engineers, and developers working at this site need to be aware of the potential for large-scale slope failures which can occur in response to even minor changes in slope configuration and drainage characteristics of the landslide-prone soils. Even landscape contractors involved with landscape plans and small retaining walls must be made aware of the landslide potential.

6.0 LIMITATIONS

This report has been prepared in accordance with generally accepted geotechnical engineering practice for specific application to this project. This report is for our geotechnical work only, and no environmental assessment efforts have been performed. The conclusions and recommendations contained in this report are based upon applicable standards of our practice in this geographic area at the time this report was prepared. No other warranty, express or implied, is made.

The analyses and recommendations submitted herein are based, in part, upon the data obtained from the exploration. The nature and extent of variations between the boring locations will not become evident until construction. We recommend that UES be retained to observe the project construction in the field. UES cannot accept responsibility for conditions which deviate from those described in this report if not retained to perform construction observation and testing. If variations appear evident, then we will re-evaluate the recommendations of this report. In the event that any changes in the nature, design, or location of the project are planned, the conclusions and recommendations contained in this report will not be considered valid unless the changes are reviewed and conclusions modified or verified in writing. Also, if the scope of the project should

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change significantly from that described herein, these recommendations may have to be re-evaluated.

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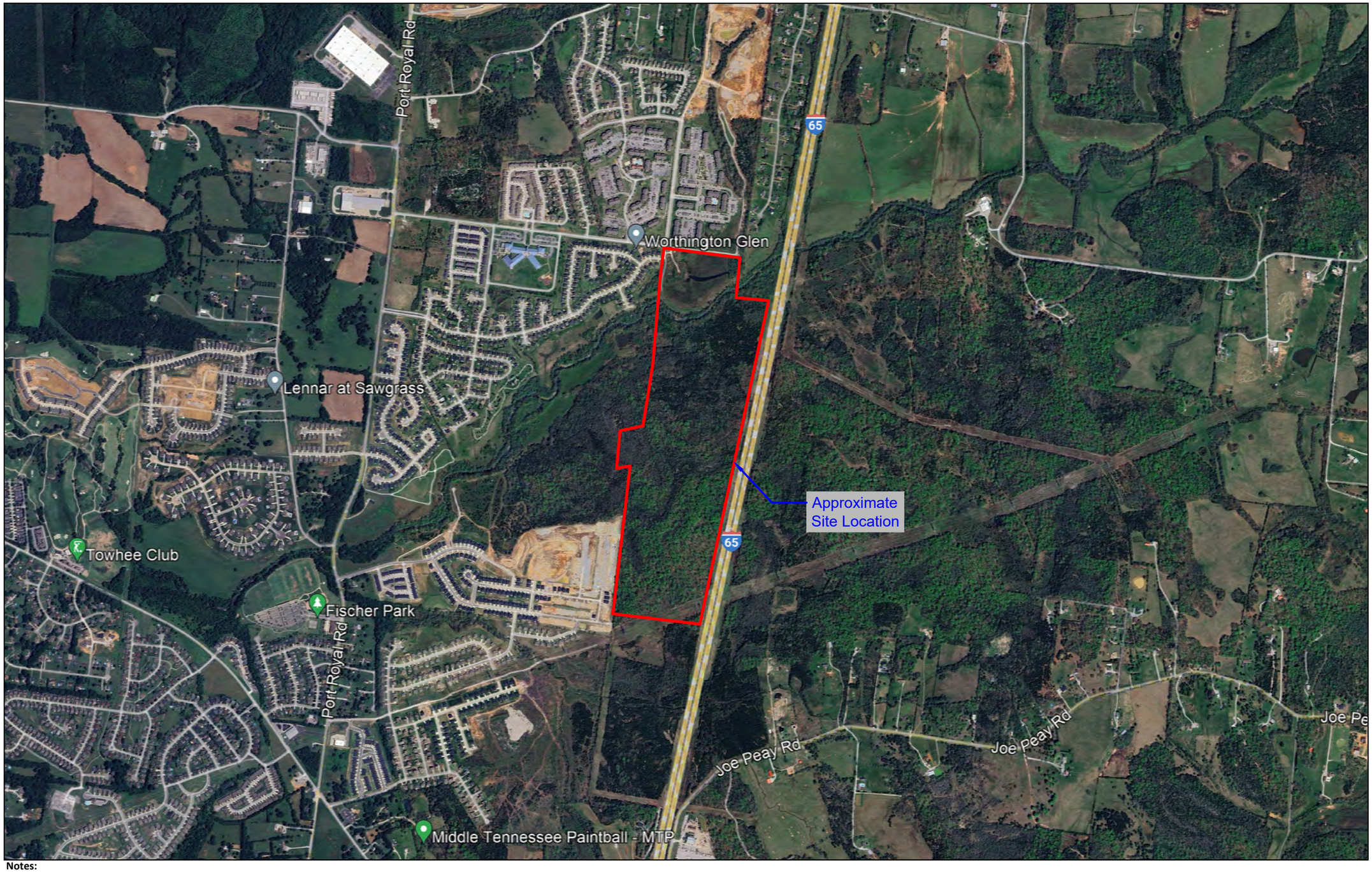
APPENDICES

UNIVERSAL
ENGINEERING SCIENCES

APPENDIX A

UNIVERSAL
ENGINEERING SCIENCES



Notes:

1) Aerial Provided by: Google Earth Pro, (2023)

UES™

Site Vicinity Plan
Proposed Stone Creek
Spring Hill, Tennessee

DATE: 08/05/2024

UES Project No. 31-241437

FIGURE: 1

N

Approximate Site Location

Source Provided by: MYTOPO

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USGS Topographic Map
Proposed Stone Creek
Spring Hill, Tennessee

DATE: 08/05/2024

UES Project No. 31-241437

FIGURE: 2

Notes:

1) Site Source Provided by: Client
2) Aerial Provided by: Google Earth Pro, (2023)
3) Boring Locations are shown in general arrangement only
4) Do Not use Boring Locations for determinations of Distance or Quantities

Boring Location & Identifier

UES™

Boring Location Plan
Proposed Stone Creek
Spring Hill, Tennessee

DATE: 08/05/2024

UES Project No. 31-241437

FIGURE: 3

GENERAL NOTES

FINE AND COARSE GRAINED SOIL PROPERTIES

PARTICLE SIZE

BOULDERS:	GREATER THAN 300 mm
COBBLES:	75 mm to 300 mm
GRAVEL:	4.74 mm to 75 mm
COARSE SAND:	2 mm to 4.74 mm
MEDIUM SAND:	0.425 mm to 2 mm
FINE SAND:	0.075 mm to 0.425 mm
SILTS & CLAYS:	LESS THAN 0.075 mm

COARSE GRAINED SOILS (SANDS & GRAVELS)

N-VALUE	RELATIVE DENSITY
0 - 4	VERY LOOSE
5 - 10	LOOSE
11 - 30	MEDIUM DENSE
31 - 50	DENSE
OVER 50	VERY DENSE

FINE GRAINED SOILS (SILTS & CLAYS)

N-VALUE	CONSISTENCY	Qu, PSF
0 - 2	VERY SOFT	0 - 500
3 - 4	SOFT	500 - 1000
5 - 8	FIRM	1000 - 2000
9 - 15	STIFF	2000 - 4000
16 - 30	VERY STIFF	4000 - 8000
OVER 31	HARD	8000 +

STANDARD PENETRATION TEST (ASTM D1586)

THE STANDARD PENETRATION TEST AS DEFINED BY ASTM D1586 IS A METHOD TO OBTAIN A DISTURBED SOIL SAMPLE FOR EXAMINATION AND TESTING AND TO OBTAIN RELATIVE DENSITY AND CONSISTENCY INFORMATON. THE 1.4 INCH I.D./2.0 INCH O.D. SAMPLER IS DRIVEN 3-SIX INCH INCREMENTS WITH A 140 LB. HAMMER FALLING 30 INCHES. THE BLOW COUNTS REQUIRED TO DRIVE THE SAMPLER THE FINAL 2 INCREMENTS ARE ADDED TOGETHER AND DESIGNATED THE N-VALUE. AT TIMES, THE SAMPLER CAN NOT BE DRIVEN THE FULL 18 INCHES. THE FOLLOWING REPRESENTS OUR INTERPRETATION OF THE STANDARD PENETRATION TEST WITH VARIATIONS.

BLOWS/FOOT (N-VALUE)	DESCRIPTION
25	25 BLOWS DROVE SAMPLER 12" AFTER INITIAL 6" SEATING
75/10"	75 BLOWS DROVE SAMPLER 10" AFTER INITIAL 6" SEATING
50/PR	PENETRATION REFUSAL OF SAMPLER AFTER INITIAL 6" SEATING

SAMPLING SYMBOLS

ST:	UNDISTURBED SAMPLE
SS:	SPLIT SPOON SAMPLE
CORE:	ROCK CORE SAMPLE
AU:	AUGER OR BAG SAMPLE

SOIL PROPERTY SYMBOLS

N:	STANDARD PENETRATION, BPF
M:	MOISTURE CONTENT %
LL:	LIQUID LIMIT %
PI:	PLASTICITY INDEX %
Qp:	POCKET PENETROMETER VALUE, TSF
Qu:	UNCONFINED COMPRESSIVE STRENGTH, TSF
DUW:	DRY UNIT WEIGHT, PCF

ROCK PROPERTIES

ROCK QUALITY DESIGNATION (RQD)

PERCENT	QUALITY
90 TO 100	EXCELLENT
75 TO 90	GOOD
50 TO 75	FAIR
25 TO 50	POOR
0 TO 25	VERY POOR

ROCK HARDNESS

VERY SOFT:	ROCK DISINTEGRATES OR EASILY COMPRESSES TO TOUCH: CAN BE HARD TO VERY HARD SOIL.
SOFT:	ROCK IS COHERANT BUT BREAKS EASILY TO THUMB PRESSURE AT SHARP EDGES AND CRUMBLES WITH FIRM HAND PRESSURE.
MODERATELY HARD:	SMALL PIECES CAN BE BROKEN OFF ALONG SHARP EDGES BY CONSIDERABLE HARD THUMB PRESSURE: CAN BE BROKEN BY LIGHT HAMMER BLOWS.
HARD:	ROCK CAN NOT BE BROKEN BY THUMB PRESSURE, BUT CAN BE BROKEN BY MODERATE HAMMER BLOWS.
VERY HARD:	ROCK CAN BE BROKEN BY HEAVY HAMMER BLOWS.

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KEY TO SYMBOLS

LITHOLOGIC SYMBOLS
(Unified Soil Classification System)

- ASPHALT: Asphalt
- CH: USCS High Plasticity Clay
- CL: USCS Low Plasticity Clay
- CL-ML: USCS Low Plasticity Silty Clay
- CONCRETE: Concrete
- DOLOMITE: Dolomite
- GRAVEL: Gravel / Basestone
- LIMESTONE: Limestone
- SANDSTONE: Sandstone
- SC-SM: USCS Silty Clayey Sand
- SHALE: Shale
- SM: USCS Silty Sand
- SW: USCS Well-graded Sand
- TOPSOIL: Topsoil
- WEATHERED ROCK: Bedrock

SAMPLE SYMBOLS

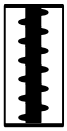
Grab Sample

No Recovery

Rock Core

Shelby Tube

Split Spoon


AUGER: Auger Probe

COLOR CODES FOR LITHOLOGIC SYMBOLS

- RED: Fill
- GREEN: Topsoil
- BLUE: Residuum
- PURPLE: Loess
- PINK: Alluvium
- LIGHT GRAY: Weathered Rock
- DARK GRAY: Rock Core
- YELLOW: Void

ABBREVIATIONS

LL - LIQUID LIMIT (%)
PI - PLASTIC INDEX (%)
W - MOISTURE CONTENT (%)
DD - DRY DENSITY (PCF)
NP - NON PLASTIC
-200 - PERCENT PASSING NO. 200 SIEVE
PP - POCKET PENETROMETER (TSF)

TV - TORVANE
PID - PHOTOIONIZATION DETECTOR
UC - UNCONFINED COMPRESSION
ppm - PARTS PER MILLION

▽ Water Level at Time Drilling, or as Shown

▼ Water Level at End of Drilling, or as Shown

▼ Water Level After 24 Hours, or as Shown

BORING NUMBER B-2

PROJECT NAME Proposed Stone Creek
GEOServices PROJECT# A24112.00680.000
DATE 7/15/24
PROJECT LOCATION Spring Hill, TN
DRILLING CONTRACTOR Southeast Drilling Solutions
LOGGED BY Scott Williams **ON-SITE REP.** ---
DRILLING METHOD HSA
LATITUDE / LONGITUDE ---
GROUND ELEVATION 0 ft **PROPOSED FFE** ---
NORTHING / EASTING ---
REFUSAL Depth 1.0 ft / Elev -1.0 ft
TOP OF ROCK Depth 1.0 ft / Elev -1.0 ft
GROUND WATER LEVELS:
BEGAN CORING Depth 1.0 ft / Elev -1.0 ft
AT END OF DRILLING --- Dry
FOOTAGE CORED (LF) 19.0 ft
AFTER 1 HOUR ---
BOTTOM OF HOLE Depth 20.0 ft / Elev -20.0 ft
AFTER 24 HOURS ---

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	MOISTURE CONTENT (%)	ATTERBERG LIMITS: LIQUID LIMIT	ATTERBERG LIMITS: PLASTICITY INDEX
0	0.0		Auger probed to Refusal						
			LIMESTONE with healed veins - light gray and gray - moderately hard - fine grained - moderately to slightly fractured - horizontally thin to medium bedded - moderately to slightly weathered	RC 1	100 (58)				
5	-5.0		LIMESTONE with healed veins - light gray and gray - moderately hard - fine grained - highly fractured - horizontally thin bedded - slightly weathered	RC 2	94 (0)				
10	-10.0		LIMESTONE with healed veins and thin shale lenses interbedded - light gray and gray - moderately hard - fine grained - highly fractured - horizontally thin bedded - slightly weathered	RC 3	100 (27)				
15	-15.0		LIMESTONE with healed veins and thin shale lenses interbedded - light gray and gray - moderately hard - fine grained - moderately fractured - horizontally thin bedded - slightly weathered	RC 4	96 (36)				
20	-20.0		LIMESTONE with healed veins and thin shale lenses interbedded - light gray and gray - moderately hard - fine grained - slightly fractured - horizontally thin and medium bedded - slightly weathered	RC 5	100 (68)				

NOTES:
Refusal at 1.0 feet.
Bottom of borehole at 20.0 feet.

Water pressure was kept during coring activities with no significant loss of water.

GEOSERVICES BOREHOLE LOG - GEOSERVICES_EXAMPLEPROJ.GPJ - 7/31/24 08:41 - Z:\PROJECT FOLDER\2024 PROJECTS\DEPT. 31- GEOTECHNICAL\31-241437 PROPOSED STONE CREEK, SPRING HILL, TN\APPENDIX A\31-241437 BORING LOGS.GPJ

Boring B-2 (Run #1 & #2)				
Run No.	Depth (Feet)	REC (%)	RQD (%)	Rock Quality
1	1.0' to 5.0'	100%	58%	Fair
2	5.0' to 7.0'	94%	0%	Very Poor

Notes:

1) REC = Recovery
2) RQD = Rock Quality Designation

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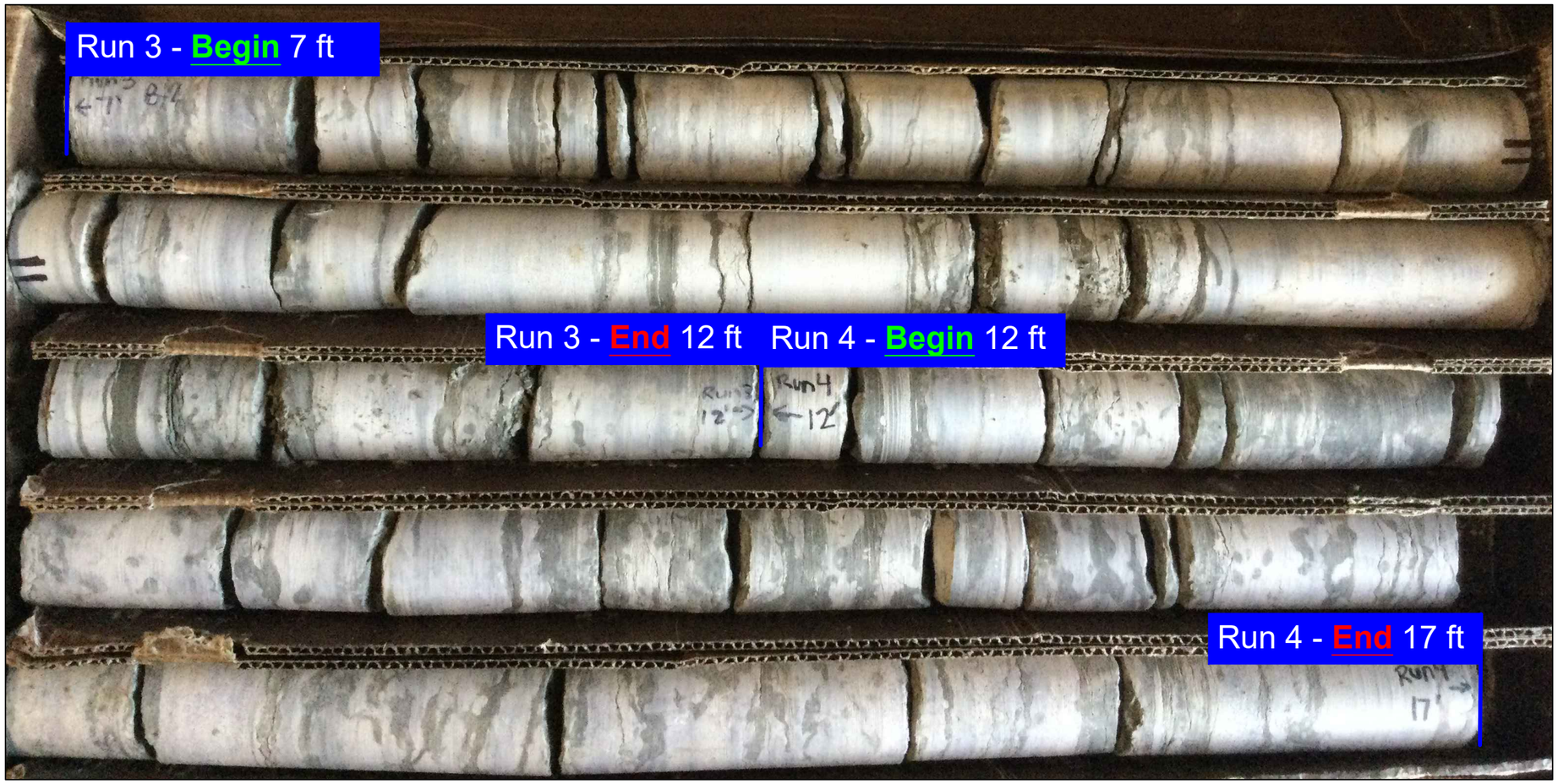
Rock Core Representative Photo
Proposed Stone Creek
Spring Hill, Tennessee

DATE: 08/01/2024

UES Project No. 31-241437

Boring No. B-2



Boring B-2 (Run #3 & #4)

Run No.	Depth (Feet)	REC (%)	RQD (%)	Rock Quality
3	7.0' to 12.0'	100%	27%	Poor
4	12.0' to 17.0'	96%	36%	Poor

Notes:

1) REC = Recovery
2) RQD = Rock Quality Designation

UES

Rock Core Representative Photo
Proposed Stone Creek
Spring Hill, Tennessee

DATE: 08/01/2024

UES Project No. 31-241437

Boring No. B-2

Boring B-2 (Run #5)				
Run No.	Depth (Feet)	REC (%)	RQD (%)	Rock Quality
5	17.0' to 20.0'	100%	68%	Fair

Notes:

1) REC = Recovery
2) RQD = Rock Quality Designation

UES

Rock Core Representative Photo
Proposed Stone Creek
Spring Hill, Tennessee

DATE: 08/01/2024

UES Project No. 31-241437

Boring No. B-2

BORING NUMBER B-3

PROJECT NAME Proposed Stone Creek
GEOServices PROJECT# A24112.00680.000
DATE 7/16/24
PROJECT LOCATION Spring Hill, TN
DRILLING CONTRACTOR Southeast Drilling Solutions
LOGGED BY Scott Williams **ON-SITE REP.** ---
DRILLING METHOD HSA
LATITUDE / LONGITUDE ---
GROUND ELEVATION 0 ft **PROPOSED FFE** ---
NORTHING / EASTING ---
REFUSAL Depth 0.7 ft / Elev -0.7 ft
TOP OF ROCK Depth 0.7 ft / Elev -0.7 ft
GROUND WATER LEVELS:
BEGAN CORING Depth 0.7 ft / Elev -0.7 ft
AT END OF DRILLING --- Dry
FOOTAGE CORED (LF) 19.3 ft
AFTER 1 HOUR ---
BOTTOM OF HOLE Depth 20.0 ft / Elev -20.0 ft
AFTER 24 HOURS ---

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	MOISTURE CONTENT (%)	ATTERBERG LIMITS: LIQUID LIMIT	ATTERBERG LIMITS: PLASTICITY INDEX
0	0.0		Auger probed to Refusal						
			LIMESTONE with clay seams - light gray and gray - moderately hard - fine grained - moderately fractured - horizontally thin and medium bedded - moderately weathered	RC 1	46 (16)				
5	-5.0		LIMESTONE with healed veins - light gray and gray - moderately hard - fine grained - highly fractured - horizontally thin bedded - slightly weathered	RC 2	96 (19)				
			LIMESTONE with healed veins - light gray and gray - moderately hard - fine grained - moderately fractured - horizontally thin and medium bedded - slightly weathered	RC 3	97 (44)				
10	-10.0								
				RC 4	100 (59)				
15	-15.0								
				RC 5	100 (29)				
20	-20.0								

NOTES:
Refusal at 0.7 feet.
Bottom of borehole at 20.0 feet.
Water pressure was kept during coring activities with no significant loss of water.

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Boring B-3 (Run #1, #2, & #3)				
Run No.	Depth (Feet)	REC (%)	RQD (%)	Rock Quality
1	0.7' to 5.0'	46%	16%	Very Poor
2	5.0' to 7.0'	96%	19%	Very Poor
3	7.0' to 12.0'	97%	44%	Poor

Notes:

1) REC = Recovery
2) RQD = Rock Quality Designation

UES

Rock Core Representative Photo
Proposed Stone Creek
Spring Hill, Tennessee

DATE: 08/01/2024

UES Project No. 31-241437

Boring No. B-3

Boring B-3 (Run #4 & #5)				
Run No.	Depth (Feet)	REC (%)	RQD (%)	Rock Quality
3	12.0' to 17.0'	100%	59%	Fair
4	17.0' to 20.0'	100%	29%	Poor

Notes:

1) REC = Recovery
2) RQD = Rock Quality Designation

UES

Rock Core Representative Photo
Proposed Stone Creek
Spring Hill, Tennessee

DATE: 08/01/2024

UES Project No. 31-241437

Boring No. B-3

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BORING NUMBER B-4

PROJECT NAME Proposed Stone Creek
GEOServices PROJECT# A24112.00680.000
DATE 7/16/24
PROJECT LOCATION Spring Hill, TN
DRILLING CONTRACTOR Southeast Drilling Solutions
LOGGED BY Scott Williams **ON-SITE REP.** ---
DRILLING METHOD HSA
LATITUDE / LONGITUDE ---
GROUND ELEVATION 0 ft **PROPOSED FFE** ---
NORTHING / EASTING ---
REFUSAL Depth 0.7 ft / Elev -0.7 ft
TOP OF ROCK Depth 0.7 ft / Elev -0.7 ft
GROUND WATER LEVELS:
BEGAN CORING Depth 0.7 ft / Elev -0.7 ft
AT END OF DRILLING --- Dry
FOOTAGE CORED (LF) 19.3 ft
AFTER 1 HOUR ---
BOTTOM OF HOLE Depth 20.0 ft / Elev -20.0 ft
AFTER 24 HOURS ---

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	MOISTURE CONTENT (%)	ATTERBERG LIMITS: LIQUID LIMIT	ATTERBERG LIMITS: PLASTICITY INDEX
0	0.0		Auger probed to Refusal						
			LIMESTONE with some clay seams at top, healed veins, and trace thin shale lenses interbedded - light gray and gray - moderately hard - fine grained - moderately fractured - horizontally thin bedded - moderately weathered	RC 1	84 (10)				
5	-5.0		LIMESTONE with healed veins and trace thin shale lenses interbedded - light gray and gray - moderately hard - fine grained - highly fractured - horizontally thin bedded - slightly weathered	RC 2	88 (0)				
			LIMESTONE with healed veins - light gray and gray - moderately hard - fine grained - slightly fractured - horizontally thin and medium bedded - slightly weathered	RC 3	100 (58)				
10	-10.0								
				RC 4	99 (76)				
15	-15.0								
				RC 5	97 (38)				
20	-20.0								

NOTES:
Refusal at 0.7 feet.
Bottom of borehole at 20.0 feet.

Water pressure was kept during coring activities with no significant loss of water.

Boring B-4 (Run #1 & #2)				
Run No.	Depth (Feet)	REC (%)	RQD (%)	Rock Quality
1	0.7' to 5.0'	84%	10%	Very Poor
2	5.0' to 7.0'	88%	0%	Very Poor

Notes:

1) REC = Recovery
2) RQD = Rock Quality Designation

Rock Core Representative Photo
Proposed Stone Creek
Spring Hill, Tennessee

DATE: 08/01/2024

UES Project No. 31-241437

Boring No. B-4

Boring B-4 (Run #3 & #4)

Run No.	Depth (Feet)	REC (%)	RQD (%)	Rock Quality
3	7.0' to 12.0'	100%	58%	Fair
4	12.0' to 17.0'	99%	76%	Good

Notes:

1) REC = Recovery
2) RQD = Rock Quality Designation

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Rock Core Representative Photo
Proposed Stone Creek
Spring Hill, Tennessee

DATE: 08/01/2024

UES Project No. 31-241437

Boring No. B-4

Boring B-4 (Run #5)				
Run No.	Depth (Feet)	REC (%)	RQD (%)	Rock Quality
5	17.0' to 20.0'	97%	38%	Poor

Notes:

1) REC = Recovery
2) RQD = Rock Quality Designation

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Rock Core Representative Photo
Proposed Stone Creek
Spring Hill, Tennessee

DATE: 08/01/2024

UES Project No. 31-241437

Boring No. B-4

BORING NUMBER B-5

PROJECT NAME Proposed Stone Creek
GEOServices PROJECT# A24112.00680.000
DATE 7/18/24
PROJECT LOCATION Spring Hill, TN
DRILLING CONTRACTOR Southeast Drilling Solutions
LOGGED BY Scott Williams **ON-SITE REP.** ---
DRILLING METHOD HSA
LATITUDE / LONGITUDE ---
GROUND ELEVATION 0 ft **PROPOSED FFE** ---
NORTHING / EASTING ---
REFUSAL Depth 1.3 ft / Elev -1.3 ft
TOP OF ROCK Depth 1.3 ft / Elev -1.3 ft
GROUND WATER LEVELS:
BEGAN CORING Depth 1.3 ft / Elev -1.3 ft
AT END OF DRILLING --- Dry
FOOTAGE CORED (LF) 18.8 ft
AFTER 1 HOUR ---
BOTTOM OF HOLE Depth 20.0 ft / Elev -20.0 ft
AFTER 24 HOURS ---

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	MOISTURE CONTENT (%)	ATTERBERG LIMITS: LIQUID LIMIT	ATTERBERG LIMITS: PLASTICITY INDEX
0	0.0		No Recovery during Split Spoon Retrieval	SS 1		50/2"			
			LIMESTONE with clay seams - light gray and gray - moderately hard - fine grained - moderately fractured - horizontally thin bedded - moderately weathered	RC 1	80 (11)				
5	-5.0		LIMESTONE with trace healed veins - light gray and gray - moderately hard - fine grained - slightly fractured - horizontally thin and medium bedded - slightly weathered	RC 2	100 (81)				
10	-10.0		LIMESTONE with healed veins - light gray and gray - moderately hard - fine grained - moderately fractured - horizontally thin and medium bedded - slightly weathered	RC 3	98 (59)				
15	-15.0			RC 4	99 (53)				
20	-20.0			RC 5	100 (47)				

NOTES:
Refusal at 1.3 feet.
Bottom of borehole at 20.0 feet.

Water pressure was kept during coring activities with no significant loss of water.

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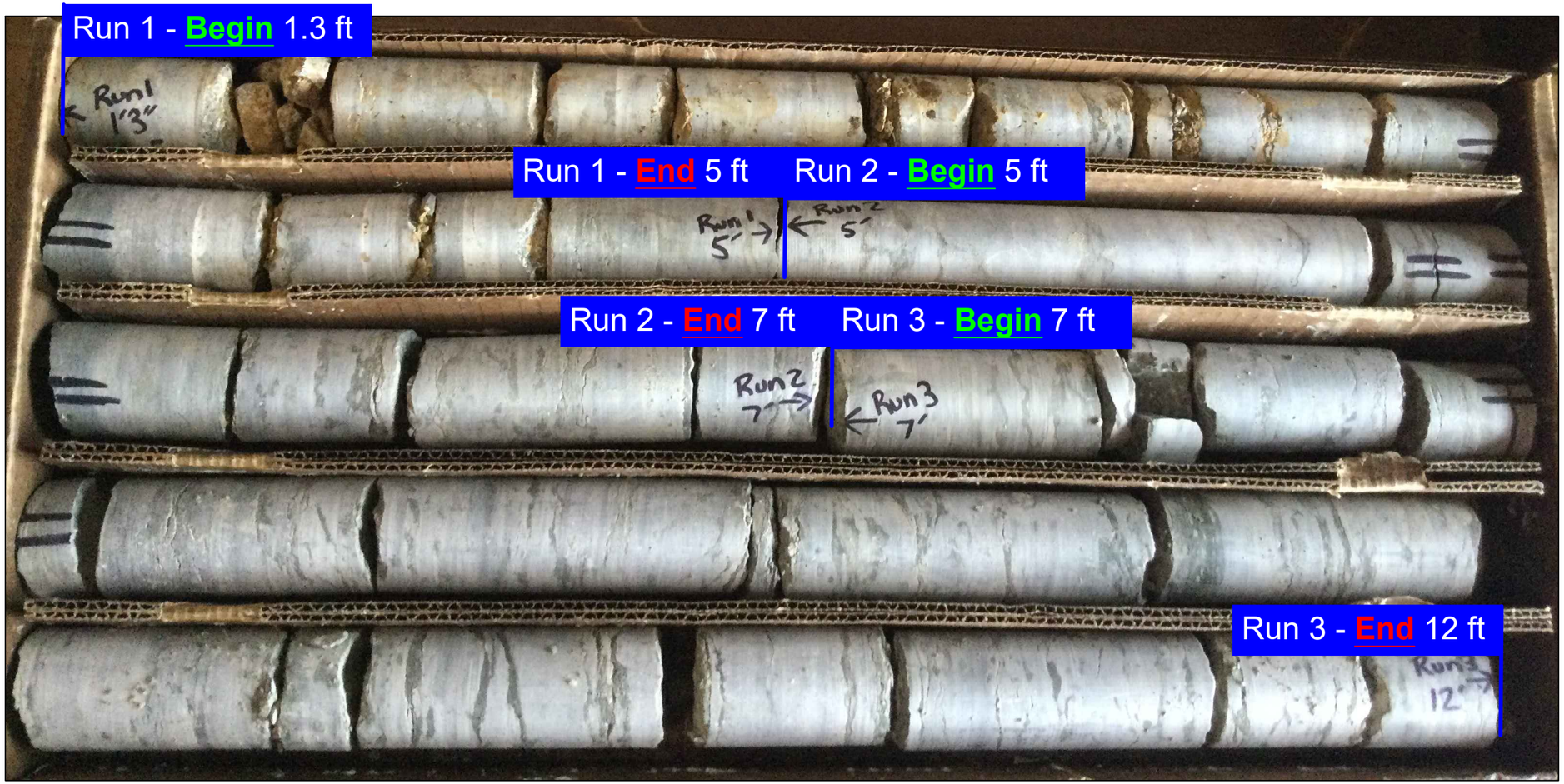


Boring B-5 (Run #1, #2, & #3)				
Run No.	Depth (Feet)	REC (%)	RQD (%)	Rock Quality
1	1.3' to 5.0'	80%	11%	Very Poor
2	5.0' to 7.0'	100%	81%	Good
3	7.0' to 12.0'	98%	59%	Fair

Notes:

1) REC = Recovery
2) RQD = Rock Quality Designation

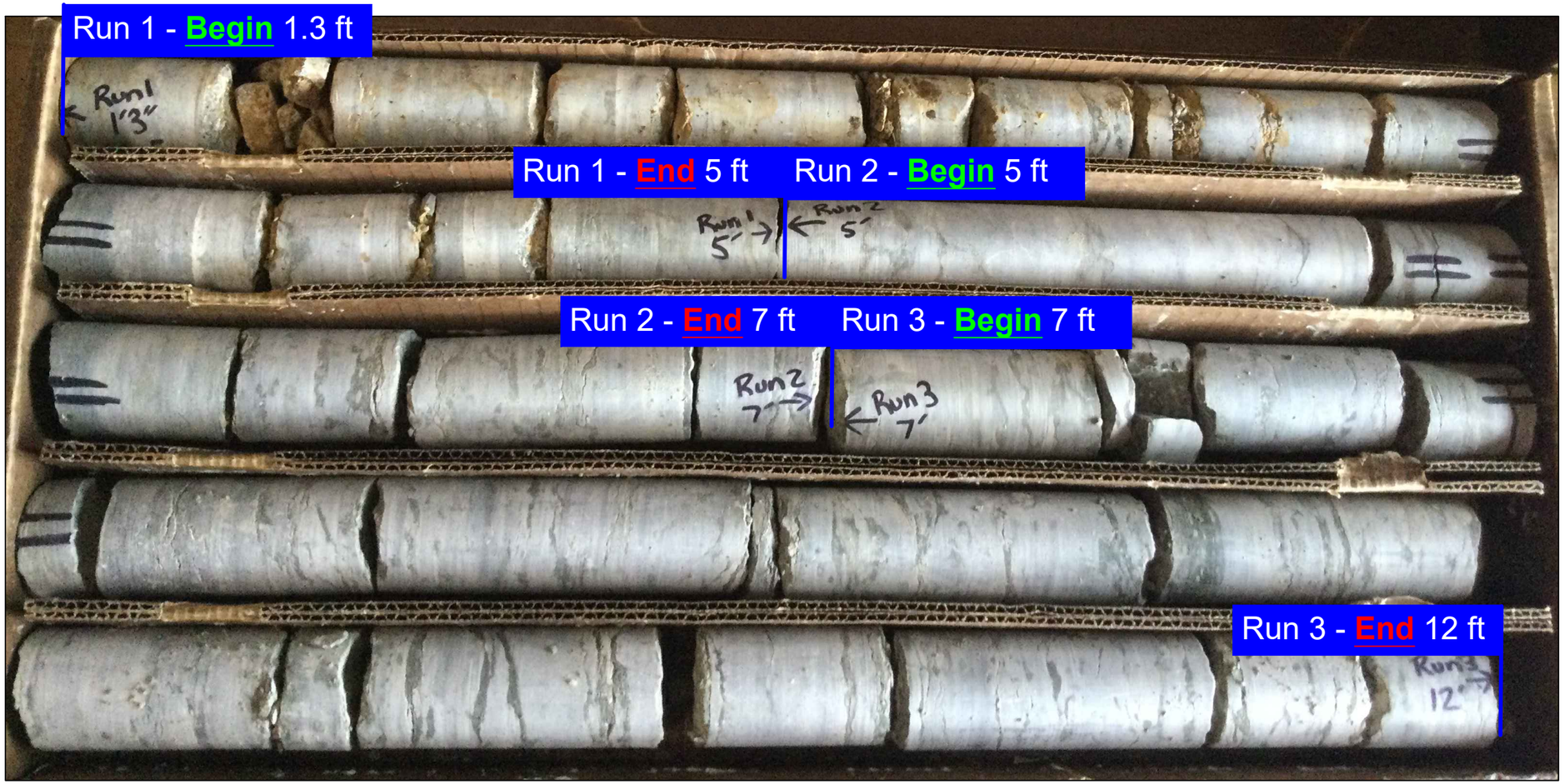
UES

Rock Core Representative Photo
Proposed Stone Creek
Spring Hill, Tennessee

DATE: 08/01/2024

UES Project No. 31-241437

Boring No. B-5



Boring B-5 (Run #4 & #5)				
Run No.	Depth (Feet)	REC (%)	RQD (%)	Rock Quality
4	12.0' to 17.0'	99%	53%	Fair
5	17.0' to 20.0'	100%	47%	Poor

Notes:

1) REC = Recovery
2) RQD = Rock Quality Designation

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Rock Core Representative Photo
Proposed Stone Creek
Spring Hill, Tennessee

DATE: 08/01/2024

UES Project No. 31-241437

Boring No. B-5

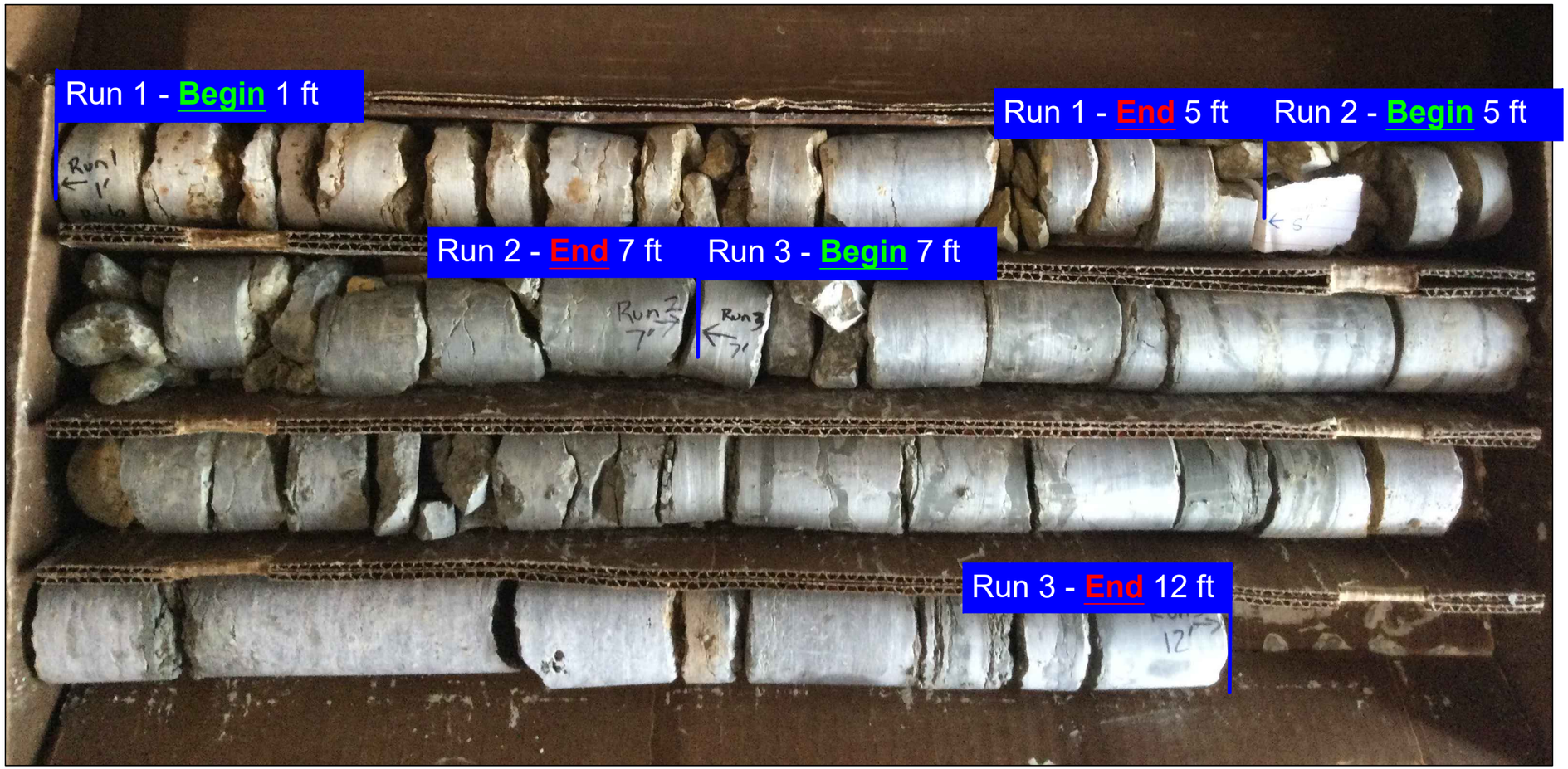
BORING NUMBER B-6

PROJECT NAME Proposed Stone Creek
GEOServices PROJECT# A24112.00680.000
DATE 7/19/24
PROJECT LOCATION Spring Hill, TN
DRILLING CONTRACTOR Southeast Drilling Solutions
LOGGED BY Scott Williams **ON-SITE REP.** ---
DRILLING METHOD HSA
LATITUDE / LONGITUDE ---
GROUND ELEVATION 0 ft **PROPOSED FFE** ---
NORTHING / EASTING ---
REFUSAL Depth 1.0 ft / Elev -1.0 ft
TOP OF ROCK Depth 1.0 ft / Elev -1.0 ft
GROUND WATER LEVELS:
BEGAN CORING Depth 1.0 ft / Elev -1.0 ft
AT END OF DRILLING --- Dry
FOOTAGE CORED (LF) 19.0 ft
AFTER 1 HOUR ---
BOTTOM OF HOLE Depth 20.0 ft / Elev -20.0 ft
AFTER 24 HOURS ---

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	MOISTURE CONTENT (%)	ATTERBERG LIMITS: LIQUID LIMIT	ATTERBERG LIMITS: PLASTICITY INDEX
0	0.0		Auger probed to Refusal						
			Highly Weathered LIMESTONE with clay seams - light gray and gray - moderately hard - fine grained - highly fractured - horizontally thin bedded - highly weathered	RC 1	42 (0)				
5	-5.0		LIMESTONE with clay seams at top - light gray and gray - moderately hard - fine grained - highly fractured - horizontally thin bedded - highly to moderately weathered	RC 2	58 (0)				
			LIMESTONE with healed veins and thin shale lenses interbedded - light gray and gray - moderately hard - fine grained - highly fractured - horizontally thin bedded - moderately weathered	RC 3	92 (8)				
10	-10.0		LIMESTONE with healed veins and thin shale lenses interbedded - light gray and gray - moderately hard - fine grained - highly fractured - horizontally thin to thin and medium bedded - moderately weathered	RC 4	99 (37)				
15	-15.0		LIMESTONE with healed veins - light gray and gray - moderately hard - fine grained - moderately fractured - horizontally thin and medium bedded - slightly weathered	RC 5	100 (47)				
20	-20.0								

NOTES:
Refusal at 1.0 feet.
Bottom of borehole at 20.0 feet.

Water pressure was kept during coring activities with no significant loss of water.



Boring B-6 (Run #1, #2, & #3)				
Run No.	Depth (Feet)	REC (%)	RQD (%)	Rock Quality
1	1.0' to 5.0'	42%	0%	Very Poor
2	5.0' to 7.0'	58%	0%	Very Poor
3	7.0' to 12.0'	92%	8%	Very Poor

Notes:

1) REC = Recovery
2) RQD = Rock Quality Designation

UES™

Rock Core Representative Photo
Proposed Stone Creek
Spring Hill, Tennessee

DATE: 08/01/2024

UES Project No. 31-241437

Boring No. B-6

Boring B-6 (Run #4 & #5)

Run No.	Depth (Feet)	REC (%)	RQD (%)	Rock Quality
4	12.0' to 17.0'	99%	37%	Poor
5	17.0' to 20.0'	100%	47%	Poor

Notes:

1) REC = Recovery
2) RQD = Rock Quality Designation

Rock Core Representative Photo
Proposed Stone Creek
Spring Hill, Tennessee

DATE: 08/01/2024

UES Project No. 31-241437

Boring No. B-6

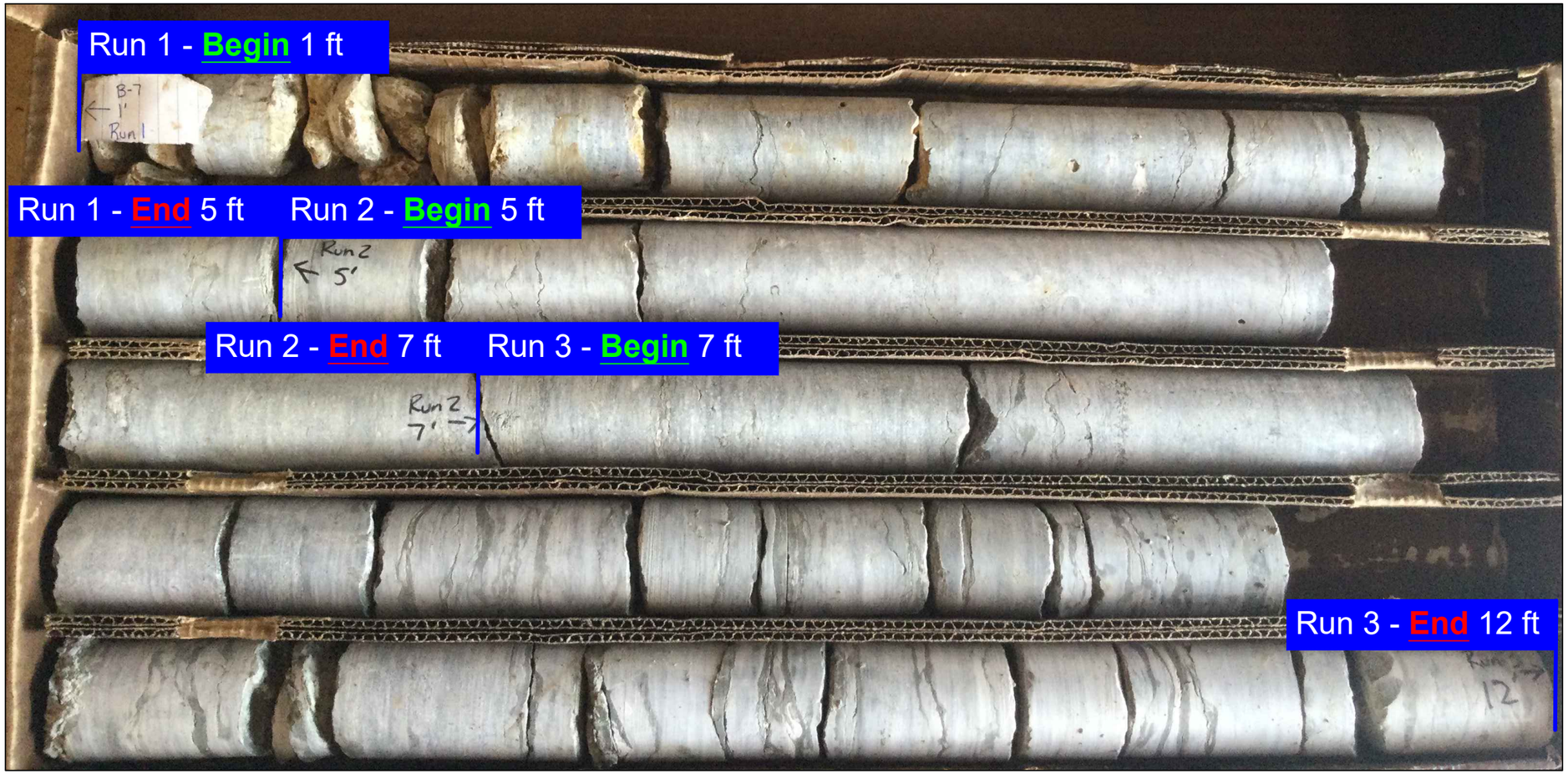
BORING NUMBER B-7

PROJECT NAME Proposed Stone Creek
GEOServices PROJECT# A24112.00680.000
DATE 7/24/24
PROJECT LOCATION Spring Hill, TN
DRILLING CONTRACTOR Southeast Drilling Solutions
LOGGED BY Scott Williams **ON-SITE REP.** ---
DRILLING METHOD HSA
LATITUDE / LONGITUDE ---
GROUND ELEVATION 0 ft **PROPOSED FFE** ---
NORTHING / EASTING ---
REFUSAL Depth 1.0 ft / Elev -1.0 ft
TOP OF ROCK Depth 1.0 ft / Elev -1.0 ft
GROUND WATER LEVELS:
BEGAN CORING Depth 1.0 ft / Elev -1.0 ft
AT END OF DRILLING --- Dry
FOOTAGE CORED (LF) 19.0 ft
AFTER 1 HOUR ---
BOTTOM OF HOLE Depth 20.0 ft / Elev -20.0 ft
AFTER 24 HOURS ---

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	MOISTURE CONTENT (%)	ATTERBERG LIMITS: LIQUID LIMIT	ATTERBERG LIMITS: PLASTICITY INDEX
0	0.0		Auger probed to Refusal						
5	-5.0		LIMESTONE with clay seams at top and trace healed veins - light gray and gray - moderately hard - fine grained - moderately to slighty fractured - horizontally thin bedded - moderately to slightly weathered	RC 1	53 (20)				
10	-10.0		LIMESTONE with trace healed veins - light gray and gray - moderately hard - fine grained - slightly fractured - horizontally thin and medium bedded - slightly weathered	RC 2	100 (73)				
15	-15.0		LIMESTONE with healed veins and trace thin shale lenses interbedded - light gray and gray - moderately hard - fine grained - slightly to moderately fractured - horizontally medium to thin bedded - slightly weathered	RC 3	98 (33)				
20	-20.0		LIMESTONE with healed veins and trace thin shale lenses interbedded - light gray and gray - moderately hard - fine grained - moderately fractured - horizontally thin bedded - slightly weathered	RC 4	98 (36)				
			LIMESTONE with healed veins - light gray and gray - moderately hard - fine grained - slightly fractured - horizontally thin and medium bedded - slightly weathered	RC 5	99 (51)				

NOTES:
Refusal at 1.0 feet.
Bottom of borehole at 20.0 feet.

Water pressure was kept during coring activities with no significant loss of water.



Boring B-7 (Run #1, #2, & #3)				
Run No.	Depth (Feet)	REC (%)	RQD (%)	Rock Quality
1	1.0' to 5.0'	53%	20%	Very Poor
2	5.0' to 7.0'	100%	73%	Fair
3	7.0' to 12.0'	98%	33%	Poor

Notes:

1) REC = Recovery
2) RQD = Rock Quality Designation

UES

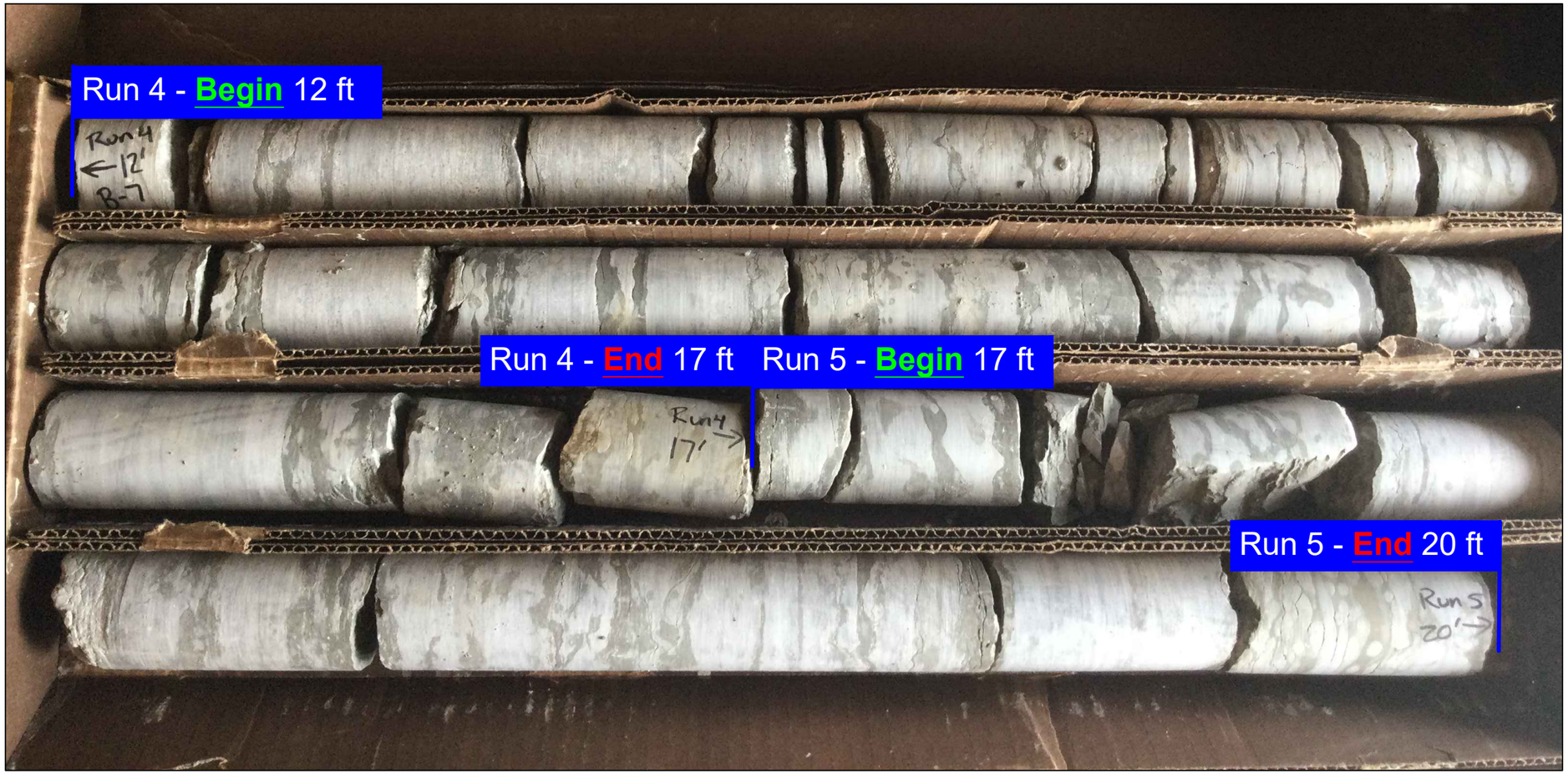
Rock Core Representative Photo
Proposed Stone Creek
Spring Hill, Tennessee

DATE: 08/05/2024

UES Project No. 31-241437

Boring No.

B-7



Boring B-7 (Run #4 & #5)

Run No.	Depth (Feet)	REC (%)	RQD (%)	Rock Quality
3	12.0' to 17.0'	98%	36%	Poor
4	17.0' to 20.0'	99%	51%	Fair

Notes:

1) REC = Recovery
2) RQD = Rock Quality Designation

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Rock Core Representative Photo
Proposed Stone Creek
Spring Hill, Tennessee

DATE: 08/05/2024

UES Project No. 31-241437

Boring No. B-7

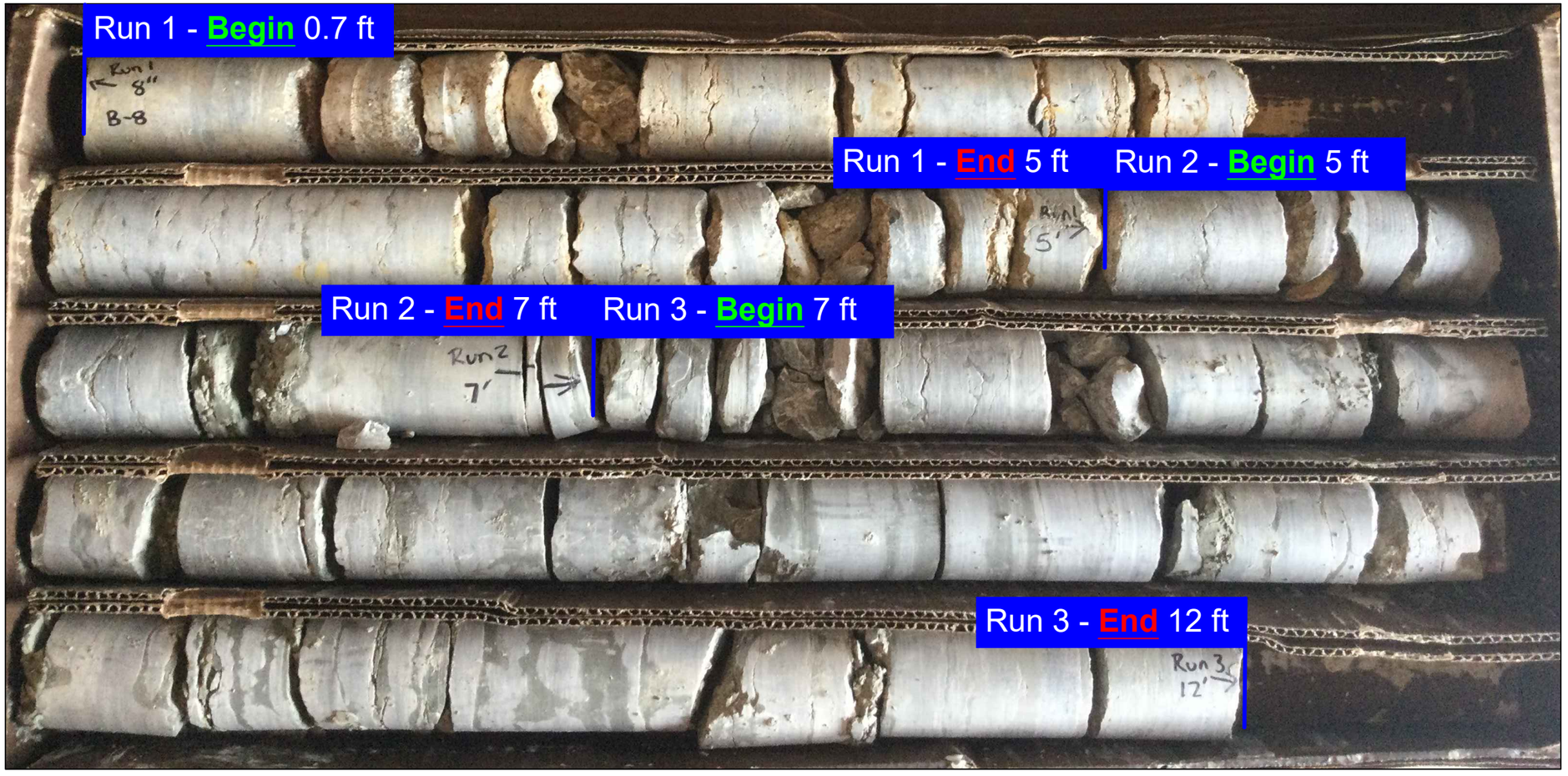
BORING NUMBER B-8

PROJECT NAME Proposed Stone Creek
GEOServices PROJECT# A24112.00680.000
DATE 7/24/24
PROJECT LOCATION Spring Hill, TN
DRILLING CONTRACTOR Southeast Drilling Solutions
LOGGED BY Scott Williams **ON-SITE REP.** ---
DRILLING METHOD HSA
LATITUDE / LONGITUDE ---
GROUND ELEVATION 0 ft **PROPOSED FFE** ---
NORTHING / EASTING ---
REFUSAL Depth 0.7 ft / Elev -0.7 ft
TOP OF ROCK Depth 0.7 ft / Elev -0.7 ft
GROUND WATER LEVELS:
BEGAN CORING Depth 0.7 ft / Elev -0.7 ft
AT END OF DRILLING --- Dry
FOOTAGE CORED (LF) 19.3 ft
AFTER 1 HOUR ---
BOTTOM OF HOLE Depth 20.0 ft / Elev -20.0 ft
AFTER 24 HOURS ---

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	MOISTURE CONTENT (%)	ATTERBERG LIMITS: LIQUID LIMIT	ATTERBERG LIMITS: PLASTICITY INDEX
0	0.0		Auger probed to Refusal						
			LIMESTONE with some clay seams at top, healed veins, and trace thin shale lenses interbedded - light gray and gray - moderately hard - fine grained - moderately fractured - horizontally thin bedded - moderately weathered	RC 1	70 (13)				
5	-5.0		LIMESTONE with healed veins and trace thin shale lenses interbedded - light gray and gray - moderately hard - fine grained - moderately fractured - horizontally thin bedded - moderately weathered	RC 2	63 (0)				
10	-10.0			RC 3	95 (7)				
15	-15.0		LIMESTONE with healed veins - light gray and gray - moderately hard - fine grained - moderately fractured - horizontally thin bedded - slightly weathered	RC 4	98 (27)				
20	-20.0		LIMESTONE with healed veins - light gray and gray - moderately hard - fine grained - slightly fractured - horizontally medium and thin bedded - slightly weathered	RC 5	100 (93)				

NOTES:
Refusal at 0.7 feet.
Bottom of borehole at 20.0 feet.

Water pressure was kept during coring activities with no significant loss of water.



Boring B-8 (Run #1, #2, & #3)

Run No.	Depth (Feet)	REC (%)	RQD (%)	Rock Quality
1	0.7' to 5.0'	70%	13%	Very Poor
2	5.0' to 7.0'	63%	0%	Very Poor
3	7.0' to 12.0'	95%	7%	Very Poor

Notes:

1) REC = Recovery
2) RQD = Rock Quality Designation

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Rock Core Representative Photo
Proposed Stone Creek
Spring Hill, Tennessee

DATE: 08/05/2024

UES Project No. 31-241437

Boring No. B-8

Boring B-8 (Run #4 & #5)

Run No.	Depth (Feet)	REC (%)	RQD (%)	Rock Quality
3	12.0' to 17.0'	98%	27%	Poor
4	17.0' to 20.0'	100%	93%	Excellent

Notes:

1) REC = Recovery
2) RQD = Rock Quality Designation

Rock Core Representative Photo
Proposed Stone Creek
Spring Hill, Tennessee

DATE: 08/05/2024

UES Project No. 31-241437

Boring No. B-8

BORING NUMBER B-9

PROJECT NAME Proposed Stone Creek
GEOServices PROJECT# A24112.00680.000
DATE 7/23/24
PROJECT LOCATION Spring Hill, TN
DRILLING CONTRACTOR Southeast Drilling Solutions
LOGGED BY Scott Williams **ON-SITE REP.** ---
DRILLING METHOD HSA
LATITUDE / LONGITUDE ---
GROUND ELEVATION 0 ft **PROPOSED FFE** ---
NORTHING / EASTING ---
REFUSAL Depth 1.0 ft / Elev -1.0 ft
TOP OF ROCK Depth 1.0 ft / Elev -1.0 ft
GROUND WATER LEVELS:
BEGAN CORING Depth 1.0 ft / Elev -1.0 ft
AT END OF DRILLING --- Dry
FOOTAGE CORED (LF) 19.0 ft
AFTER 1 HOUR ---
BOTTOM OF HOLE Depth 20.0 ft / Elev -20.0 ft
AFTER 24 HOURS ---

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	MOISTURE CONTENT (%)	ATTERBERG LIMITS: LIQUID LIMIT	ATTERBERG LIMITS: PLASTICITY INDEX
0	0.0		Auger probed to Refusal						
			LIMESTONE with some clay seams - light gray and gray - moderately hard - fine grained - moderately fractured - horizontally thin bedded - moderately weathered	RC 1	73 (13)				
5	-5.0		LIMESTONE with trace clay seams at top ad trace healed veins - light gray and gray - moderately hard - fine grained - moderately fractured - horizontally thin bedded - moderately to slightly weathered	RC 2	94 (0)				
10	-10.0		LIMESTONE with healed veins - light gray and gray - moderately hard - fine grained - moderately to slighty fractured - horizontally thin to thin and medium bedded - slightly weathered	RC 3	98 (43)				
15	-15.0		LIMESTONE with healed veins - light gray and gray - moderately hard - fine grained - slighty fractured - horizontally thin and medium bedded - slightly weathered	RC 4	98 (68)				
20	-20.0			RC 5	99 (22)				

NOTES:
Refusal at 1.0 feet.
Bottom of borehole at 20.0 feet.

Water pressure was kept during coring activities with no significant loss of water.

Boring B-9 (Run #1, #2, & #3)				
Run No.	Depth (Feet)	REC (%)	RQD (%)	Rock Quality
1	1.0' to 5.0'	73%	13%	Very Poor
2	5.0' to 7.0'	94%	0%	Very Poor
3	7.0' to 12.0'	98%	43%	Poor

Notes:

1) REC = Recovery
2) RQD = Rock Quality Designation

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Rock Core Representative Photo
Proposed Stone Creek
Spring Hill, Tennessee

DATE: 08/05/2024

UES Project No. 31-241437

Boring No. B-9

Boring B-9 (Run #4 & #5)				
Run No.	Depth (Feet)	REC (%)	RQD (%)	Rock Quality
3	12.0' to 17.0'	98%	68%	Fair
4	17.0' to 20.0'	99%	22%	Very Poor

Notes:

1) REC = Recovery
2) RQD = Rock Quality Designation

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Rock Core Representative Photo
Proposed Stone Creek
Spring Hill, Tennessee

DATE: 08/05/2024

UES Project No. 31-241437

Boring No. B-9

BORING NUMBER B-10

PROJECT NAME Proposed Stone Creek
GEOServices PROJECT# A24112.00680.000
DATE 7/24/24
PROJECT LOCATION Spring Hill, TN
DRILLING CONTRACTOR Southeast Drilling Solutions
LOGGED BY Scott Williams **ON-SITE REP.** ---
DRILLING METHOD HSA
LATITUDE / LONGITUDE ---
GROUND ELEVATION 0 ft **PROPOSED FFE** ---
NORTHING / EASTING ---
REFUSAL Depth 0.7 ft / Elev -0.7 ft
TOP OF ROCK Depth 0.7 ft / Elev -0.7 ft
GROUND WATER LEVELS:
BEGAN CORING Depth 0.7 ft / Elev -0.7 ft
AT END OF DRILLING --- Dry
FOOTAGE CORED (LF) 19.3 ft
AFTER 1 HOUR ---
BOTTOM OF HOLE Depth 20.0 ft / Elev -20.0 ft
AFTER 24 HOURS ---

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	MOISTURE CONTENT (%)	ATTERBERG LIMITS: LIQUID LIMIT	ATTERBERG LIMITS: PLASTICITY INDEX
0	0.0		Auger probed to Refusal						
5	-5.0		LIMESTONE with healed veins and some clay seams - light gray and gray - moderately hard - fine grained - slightly fractured - horizontally thin and medium bedded - moderately weathered	RC 1	78 (49)				
10	-10.0		LIMESTONE with healed veins - light gray and gray - moderately hard - fine grained - slightly fractured - horizontally thin and medium bedded - slightly weathered	RC 2	94 (54)				
15	-15.0		LIMESTONE with healed veins - light gray and gray - moderately hard - fine grained - slightly to moderately fractured - horizontally thin and medium bedded - slightly weathered	RC 3	94 (56)				
20	-20.0		LIMESTONE with healed veins - light gray and gray - moderately hard - fine grained - moderately to slightly fractured - horizontally thin to thin and medium bedded - slightly weathered	RC 4	100 (53)				
			LIMESTONE with healed veins - light gray and gray - moderately hard - fine grained - slightly fractured - horizontally thin and medium bedded - slightly weathered	RC 5	100 (64)				

NOTES:

Refusal at 0.7 feet.
Bottom of borehole at 20.0 feet.

Water pressure was kept during coring activities with no significant loss of water.

Boring B-10 (Run #1, #2, & #3)

Run No.	Depth (Feet)	REC (%)	RQD (%)	Rock Quality
1	0.7' to 5.0'	78%	49%	Poor
2	5.0' to 7.0'	94%	54%	Fair
3	7.0' to 12.0'	94%	56%	Fair

Notes:

1) REC = Recovery
2) RQD = Rock Quality Designation

UES

Rock Core Representative Photo
Proposed Stone Creek
Spring Hill, Tennessee

DATE: 08/05/2024

UES Project No. 31-241437

Boring No. B-10

Boring B-10 (Run #4 & #5)				
Run No.	Depth (Feet)	REC (%)	RQD (%)	Rock Quality
3	12.0' to 17.0'	100%	53%	Fair
4	17.0' to 20.0'	100%	64%	Fair

Notes:

1) REC = Recovery
2) RQD = Rock Quality Designation

UES

Rock Core Representative Photo
Proposed Stone Creek
Spring Hill, Tennessee

DATE: 08/05/2024

UES Project No. 31-241437

Boring No. B-10

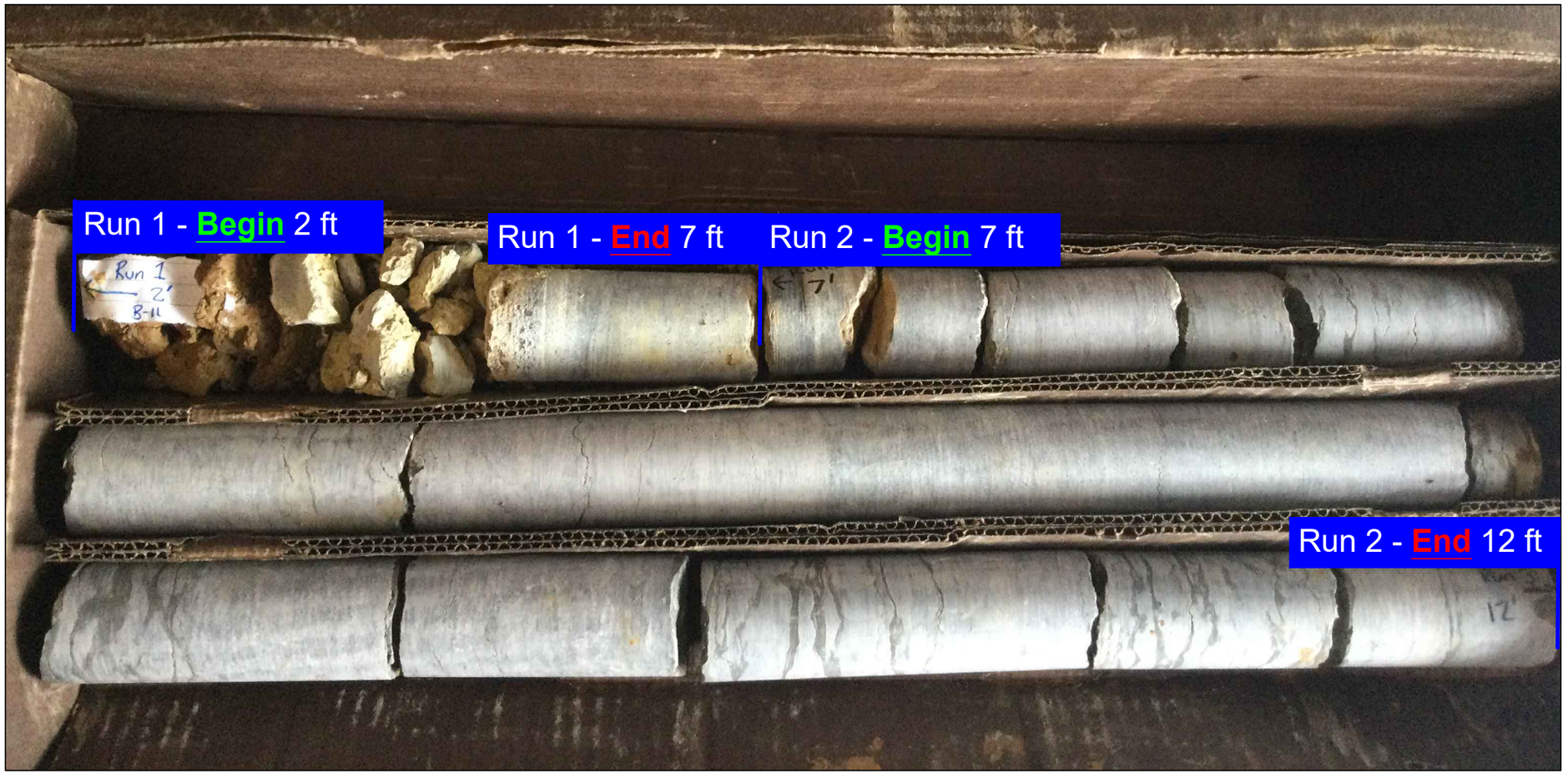
BORING NUMBER B-11

PROJECT NAME Proposed Stone Creek
GEOServices PROJECT# A24112.00680.000
DATE 7/23/24
PROJECT LOCATION Spring Hill, TN
DRILLING CONTRACTOR Southeast Drilling Solutions
LOGGED BY Scott Williams **ON-SITE REP.** ---
DRILLING METHOD HSA
LATITUDE / LONGITUDE ---
GROUND ELEVATION 0 ft **PROPOSED FFE** ---
NORTHING / EASTING ---
REFUSAL Depth 2.0 ft / Elev -2.0 ft
TOP OF ROCK Depth 2.0 ft / Elev -2.0 ft
GROUND WATER LEVELS:
BEGAN CORING Depth 2.0 ft / Elev -2.0 ft
AT END OF DRILLING --- Dry
FOOTAGE CORED (LF) 18.0 ft
AFTER 1 HOUR ---
BOTTOM OF HOLE Depth 20.0 ft / Elev -20.0 ft
AFTER 24 HOURS ---

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	MOISTURE CONTENT (%)	ATTERBERG LIMITS: LIQUID LIMIT	ATTERBERG LIMITS: PLASTICITY INDEX
0	0.0		Auger probed to Refusal						
5	-5.0		LIMESTONE with abundance of clay seams - light gray and gray - moderately hard - fine grained - moderately fractured - horizontally thin bedded - moderately weathered	RC 1	13 (7)				
10	-10.0		LIMESTONE with healed veins - light gray and gray - moderately hard - fine grained - slightly fractured - horizontally thin and medium bedded - slightly weathered	RC 2	100 (71)				
15	-15.0		LIMESTONE with healed veins - light gray and gray - moderately hard - fine grained - moderately fractured - horizontally thin bedded - slightly weathered	RC 3	92 (32)				
20	-20.0			RC 4	100 (33)				

NOTES:
Refusal at 2.0 feet.
Bottom of borehole at 20.0 feet.

Water pressure was kept during coring activities with no significant loss of water.



Boring B-11 (Run #1 & #2)				
Run No.	Depth (Feet)	REC (%)	RQD (%)	Rock Quality
1	2.0' to 7.0'	13%	7%	Very Poor
2	7.0' to 12.0'	100%	71%	Fair

Notes:

1) REC = Recovery
2) RQD = Rock Quality Designation

UES

Rock Core Representative Photo
Proposed Stone Creek
Spring Hill, Tennessee

DATE: 08/05/2024

UES Project No. 31-241437

Boring No. B-11

Boring B-11 (Run #3 & #4)				
Run No.	Depth (Feet)	REC (%)	RQD (%)	Rock Quality
3	12.0' to 17.0'	92%	32%	Poor
4	17.0' to 20.0'	100%	33%	Poor

Notes:

1) REC = Recovery
2) RQD = Rock Quality Designation

UES

Rock Core Representative Photo
Proposed Stone Creek
Spring Hill, Tennessee

DATE: 08/05/2024

UES Project No. 31-241437

Boring No. B-11

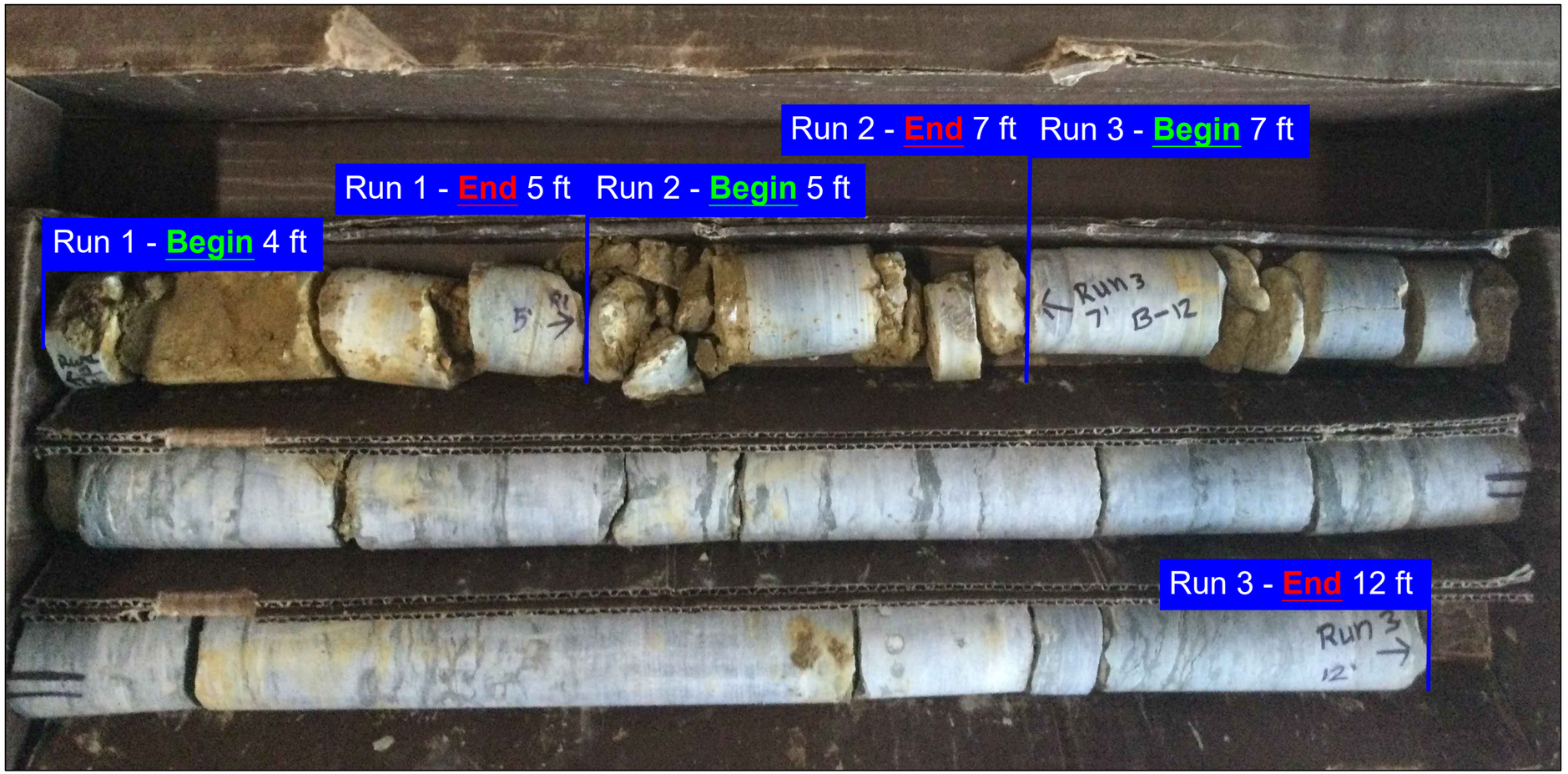
BORING NUMBER B-12

PROJECT NAME Proposed Stone Creek
GEOServices PROJECT# A24112.00680.000
DATE 7/25/24
PROJECT LOCATION Spring Hill, TN
DRILLING CONTRACTOR Southeast Drilling Solutions
LOGGED BY Scott Williams **ON-SITE REP.** ---
DRILLING METHOD HSA
LATITUDE / LONGITUDE ---
GROUND ELEVATION 0 ft **PROPOSED FFE** ---
NORTHING / EASTING ---
REFUSAL Depth 4.0 ft / Elev -4.0 ft
TOP OF ROCK Depth 4.0 ft / Elev -4.0 ft
GROUND WATER LEVELS:
BEGAN CORING Depth 4.0 ft / Elev -4.0 ft
AT END OF DRILLING --- Dry
FOOTAGE CORED (LF) 16.0 ft
AFTER 1 HOUR ---
BOTTOM OF HOLE Depth 20.0 ft / Elev -20.0 ft
AFTER 24 HOURS ---

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	MOISTURE CONTENT (%)	ATTERBERG LIMITS: LIQUID LIMIT	ATTERBERG LIMITS: PLASTICITY INDEX
0	0.0		Topsoil (7 inches)						
			Fat CLAY (CH) with limestone fragments at depth - brown and light brown - moist - (RESIDUUM)	SS 1		8-50/2"	22		
				SS 2		50/5"			
5	-5.0		LIMESTONE with clay seams - light gray and gray - moderately hard - fine grained - highly fractured - horizontally thin bedded - moderately weathered	RC 1	71 (0)				
				RC 2	31 (0)				
10	-10.0		LIMESTONE with healed veins - light gray and gray - moderately hard - fine grained - moderately to slightly fractured - horizontally thin and medium bedded - slightly weathered	RC 3	91 (60)				
15	-15.0		LIMESTONE with healed veins - light gray and gray - moderately hard - fine grained - slightly fractured - horizontally thin and medium bedded - slightly weathered	RC 4	97 (80)				
20	-20.0			RC 5	100 (76)				

NOTES:
Refusal at 4.0 feet.
Bottom of borehole at 20.0 feet.

Water pressure was kept during coring activities with no significant loss of water.



Boring B-12 (Run #1, #2, & #3)				
Run No.	Depth (Feet)	REC (%)	RQD (%)	Rock Quality
1	4.0' to 5.0'	71%	0%	Very Poor
2	5.0' to 7.0'	31%	0%	Very Poor
3	7.0' to 12.0'	91%	60%	Fair

Notes:

1) REC = Recovery
2) RQD = Rock Quality Designation

UES

Rock Core Representative Photo
Proposed Stone Creek
Spring Hill, Tennessee

DATE: 08/05/2024

UES Project No. 31-241437

Boring No. B-12

Boring B-12 (Run #4 & #5)

Run No.	Depth (Feet)	REC (%)	RQD (%)	Rock Quality
4	12.0' to 17.0'	97%	80%	Good
5	17.0' to 20.0'	100%	76%	Good

Notes:

1) REC = Recovery
2) RQD = Rock Quality Designation

UES

Rock Core Representative Photo
Proposed Stone Creek
Spring Hill, Tennessee

DATE: 08/05/2024

UES Project No. 31-241437

Boring No. B-12

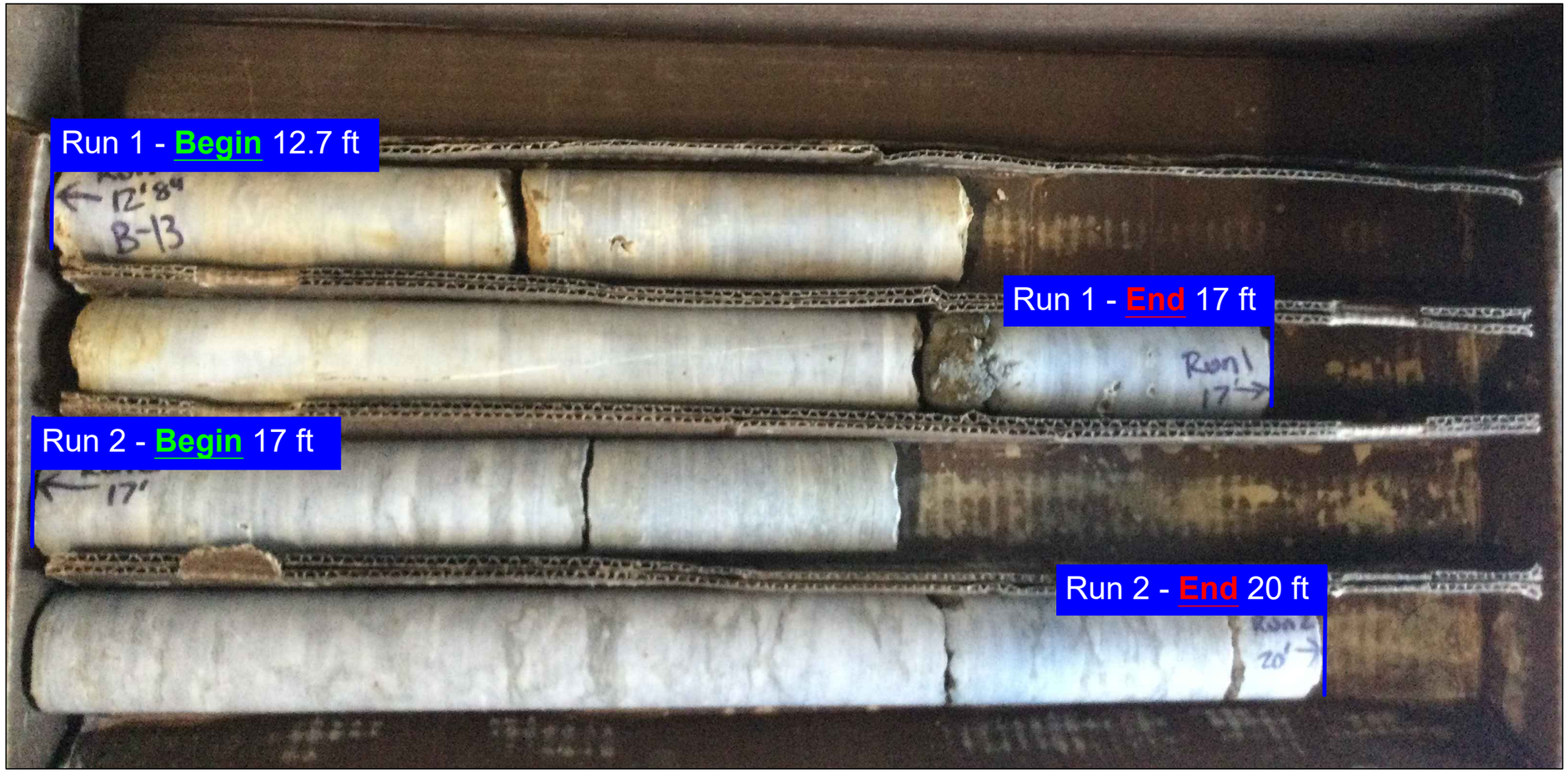
BORING NUMBER B-13

PROJECT NAME Proposed Stone Creek
GEOServices PROJECT# A24112.00680.000
DATE 7/26/24
PROJECT LOCATION Spring Hill, TN
DRILLING CONTRACTOR Southeast Drilling Solutions
LOGGED BY Scott Williams **ON-SITE REP.** ---
DRILLING METHOD HSA
LATITUDE / LONGITUDE ---
GROUND ELEVATION 0 ft **PROPOSED FFE** ---
NORTHING / EASTING ---
REFUSAL Depth 0.3 ft / Elev -0.3 ft
TOP OF ROCK Depth 0.3 ft / Elev -0.3 ft
GROUND WATER LEVELS:
BEGAN CORING Depth 0.3 ft / Elev -0.3 ft
AT END OF DRILLING --- Dry
FOOTAGE CORED (LF) 7.3 ft
AFTER 1 HOUR ---
BOTTOM OF HOLE Depth 20.0 ft / Elev -20.0 ft
AFTER 24 HOURS ---

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	MOISTURE CONTENT (%)	ATTERBERG LIMITS: LIQUID LIMIT	ATTERBERG LIMITS: PLASTICITY INDEX
0	0.0		Auger Probed to Refusal Began coring at 0.3 feet and broke through rock layer into soil back down to true refusal at 12.7 feet.						
5	-5.0								
10	-10.0								
15	-15.0		LIMESTONE with some clay seams near top, some small crystalline voids, and trace thin shale lenses interbedded - light gray and gray - moderately hard - fine grained - slightly fractured - horizontally medium bedded - slightly weathered	RC 1	65 (63)				
20	-20.0		LIMESTONE with healed veins and trace small crystalline voids - light gray and gray - moderately hard - fine grained - slightly fractured - horizontally thin and medium bedded - slightly weathered	RC 2	94 (90)				

NOTES:
Refusal at 0.3 feet.
Bottom of borehole at 20.0 feet.
Water pressure was kept during coring activities with no significant loss of water.

GEOSERVICES BOREHOLE LOG - GEOSERVICES_EXAMPLEPROJ.GPJ - 8/6/24 14:35 - Z:\PROJECT FOLDER\2024 PROJECTS\DEPT. 31- GEOTECHNICAL\31-241437 PROPOSED STONE CREEK, SPRING HILL, TN\APPENDIX A\31-241437 BORING LOGS.GPJ



Boring B-13 (Run #1 & #2)				
Run No.	Depth (Feet)	REC (%)	RQD (%)	Rock Quality
1	12.7' to 17.0'	65%	63%	Fair
2	17.0' to 20.0'	94%	90%	Good

Notes:

1) REC = Recovery
2) RQD = Rock Quality Designation

UES

Rock Core Representative Photo
Proposed Stone Creek
Spring Hill, Tennessee

DATE: 08/08/2024

UES Project No. 31-241437

Boring No. B-13

BORING NUMBER B-14

PROJECT NAME Proposed Stone Creek
GEOServices PROJECT# A24112.00680.000
DATE 7/25/24
PROJECT LOCATION Spring Hill, TN
DRILLING CONTRACTOR Southeast Drilling Solutions
LOGGED BY Scott Williams **ON-SITE REP.** ---
DRILLING METHOD HSA
LATITUDE / LONGITUDE ---
GROUND ELEVATION 0 ft **PROPOSED FFE** ---
NORTHING / EASTING ---
REFUSAL Depth 0.3 ft / Elev -0.3 ft
TOP OF ROCK Depth 0.3 ft / Elev -0.3 ft
GROUND WATER LEVELS:
BEGAN CORING Depth 0.3 ft / Elev -0.3 ft
AT END OF DRILLING --- Dry
FOOTAGE CORED (LF) 11.5 ft
AFTER 1 HOUR ---
BOTTOM OF HOLE Depth 22.0 ft / Elev -22.0 ft
AFTER 24 HOURS ---

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	MOISTURE CONTENT (%)	ATTERBERG LIMITS: LIQUID LIMIT	ATTERBERG LIMITS: PLASTICITY INDEX
0	0.0		Auger Probed to Refusal Began coring at 0.3 feet and broke through rock layer into soil back down to true refusal at 10.5 feet.						
5	-5.0								
10	-10.0		LIMESTONE with clay seams - light gray and gray - moderately hard - fine grained - highly fractured - horizontally thin bedded - moderately weathered	RC 1	69 (0)				
15	-15.0		LIMESTONE with trace small crystalline voids - light gray and gray - moderately hard - fine grained - slightly fractured - horizontally medium bedded - slightly weathered	RC 2	93 (93)				
20	-20.0		LIMESTONE with some clay seams, trace small crystalline voids, and void at 19.5 feet - light gray and gray - moderately hard - fine grained - horizontally thin and medium bedded - slightly weathered	RC 3	78 (70)				

NOTES:

Water pressure was kept during coring activities with no significant loss of water.

(Continued Next Page)

PROJECT NAME Proposed Stone Creek
DATE 7/25/24
DRILLING CONTRACTOR Southeast Drilling Solutions
DRILLING METHOD HSA
GROUND ELEVATION 0 ft **PROPOSED FFE** ---
REFUSAL Depth 0.3 ft / Elev -0.3 ft
TOP OF ROCK Depth 0.3 ft / Elev -0.3 ft
BEGAN CORING Depth 0.3 ft / Elev -0.3 ft
FOOTAGE CORED (LF) 11.5 ft
BOTTOM OF HOLE Depth 22.0 ft / Elev -22.0 ft

GEOServices PROJECT# A24112.00680.000
PROJECT LOCATION Spring Hill, TN
LOGGED BY Scott Williams **ON-SITE REP.** ---
LATITUDE / LONGITUDE ---
NORTHING / EASTING ---

GROUND WATER LEVELS:
AT END OF DRILLING --- Dry
AFTER 1 HOUR ---
AFTER 24 HOURS ---

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	MOISTURE CONTENT (%)	ATTERBERG LIMITS: LIQUID LIMIT	ATTERBERG LIMITS: PLASTICITY INDEX
20	-20.0		LIMESTONE with some clay seams, trace small crystalline voids, and void at 19.5 feet - light gray and gray - moderately hard - fine grained - horizontally thin and medium bedded - slightly weathered *(continued)*						

Refusal at 0.3 feet.
Bottom of borehole at 22.0 feet.

NOTES:

Water pressure was kept during coring activities with no significant loss of water.

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Boring B-14 (Run #1, #2, & #3)				
Run No.	Depth (Feet)	REC (%)	RQD (%)	Rock Quality
1	10.5' to 12.0'	69%	0%	Very Poor
2	12.0' to 17.0'	93%	93%	Excellent
3	17.0' to 22.0'	78%	70%	Fair

Notes:

1) REC = Recovery
2) RQD = Rock Quality Designation

UES

Rock Core Representative Photo
Proposed Stone Creek
Spring Hill, Tennessee

DATE: 08/08/2024

UES Project No. 31-241437

Boring No. B-14

GEOSERVICES BOREHOLE LOG - GEOSERVICES_EXAMPLEPROJ.GPJ - 8/15/24 08:40 - Z:\PROJECT FOLDER\2024 PROJECTS\DEPT. 31- GEOTECHNICAL\31-241437 PROPOSED STONE CREEK, SPRING HILL, TN\APPENDIX A\31-241437 BORING LOGS.GPJ

BORING NUMBER B-15

PROJECT NAME Proposed Stone Creek
GEOServices PROJECT# A24112.00680.000
DATE 7/9/24
PROJECT LOCATION Spring Hill, TN
DRILLING CONTRACTOR Southeast Drilling Solutions
LOGGED BY Scott Williams **ON-SITE REP.** ---
DRILLING METHOD HSA
LATITUDE / LONGITUDE ---
GROUND ELEVATION 0 ft **PROPOSED FFE** ---
NORTHING / EASTING ---
REFUSAL Depth 3.3 ft / Elev -3.3 ft
TOP OF ROCK ---
GROUND WATER LEVELS:
BEGAN CORING ---
AT END OF DRILLING --- Dry
FOOTAGE CORED (LF) ---
AFTER 1 HOUR ---
BOTTOM OF HOLE Depth 3.3 ft / Elev -3.3 ft
AFTER 24 HOURS ---

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	MOISTURE CONTENT (%)	ATTERBERG LIMITS: LIQUID LIMIT	ATTERBERG LIMITS: PLASTICITY INDEX
0	0.0		Topsoil (6 inches)						
			Fat CLAY (CH) with limestone fragments - light brown - moist - (RESIDUUM)	SS 1		13-50/3"	7		

Refusal at 3.3 feet.
Bottom of borehole at 3.3 feet.

NOTES:

BORING NUMBER B-16

PROJECT NAME Proposed Stone Creek
GEOServices PROJECT# A24112.00680.000
DATE 7/26/24
PROJECT LOCATION Spring Hill, TN
DRILLING CONTRACTOR Southeast Drilling Solutions
LOGGED BY Scott Williams **ON-SITE REP.** ---
DRILLING METHOD HSA
LATITUDE / LONGITUDE ---
GROUND ELEVATION 0 ft **PROPOSED FFE** ---
NORTHING / EASTING ---
REFUSAL Depth 3.2 ft / Elev -3.2 ft
TOP OF ROCK Depth 3.2 ft / Elev -3.2 ft
GROUND WATER LEVELS:
BEGAN CORING Depth 3.2 ft / Elev -3.2 ft
AT END OF DRILLING --- Dry
FOOTAGE CORED (LF) 16.8 ft
AFTER 1 HOUR ---
BOTTOM OF HOLE Depth 20.0 ft / Elev -20.0 ft
AFTER 24 HOURS ---

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	MOISTURE CONTENT (%)	ATTERBERG LIMITS: LIQUID LIMIT	ATTERBERG LIMITS: PLASTICITY INDEX
0	0.0		Auger Probed to Refusal Began coring at 0.7 feet and broke through rock layer into soil back down to true refusal at 3.2 feet.						
5	-5.0		LIMESTONE with trace small crystalline voids - light gray and gray - moderately hard - fine grained - horizontally medium bedded - slightly weathered	RC 1	95 (95)				
10	-10.0		LIMESTONE with healed veins and trace small crystalline voids - light gray and gray - moderately hard - fine grained - slightly fractured - horizontally medium and thin bedded - slightly weathered	RC 2	96 (93)				
15	-15.0		LIMESTONE with healed veins - light gray and gray - moderately hard - fine grained - slightly fractured - horizontally medium and thin bedded - unweathered	RC 3	99 (88)				
20	-20.0			RC 4	97 (72)				

NOTES:
Refusal at 3.2 feet.
Bottom of borehole at 20.0 feet.

Water pressure was kept during coring activities with no significant loss of water.

GEOSERVICES BOREHOLE LOG - GEOSERVICES_EXAMPLEPROJ.GPJ - 8/6/24 14:35 - Z:\PROJECT FOLDER\2024 PROJECTS\DEPT. 31- GEOTECHNICAL\31-241437 PROPOSED STONE CREEK, SPRING HILL, TN\APPENDIX A\31-241437 BORING LOGS.GPJ

Boring B-16 (Run #1 & #2)

Run No.	Depth (Feet)	REC (%)	RQD (%)	Rock Quality
1	3.2' to 7.0'	95%	95%	Excellent
2	7.0' to 12.0'	96%	93%	Excellent

Notes:

1) REC = Recovery
2) RQD = Rock Quality Designation

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Rock Core Representative Photo
Proposed Stone Creek
Spring Hill, Tennessee

DATE: 08/08/2024

UES Project No. 31-241437

Boring No. B-16

Boring B-16 (Run #3 & #4)				
Run No.	Depth (Feet)	REC (%)	RQD (%)	Rock Quality
3	12.0' to 17.0'	99%	88%	Good
4	17.0' to 20.0'	97%	72%	Fair

Notes:

1) REC = Recovery
2) RQD = Rock Quality Designation

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Proposed Stone Creek
Spring Hill, Tennessee

DATE: 08/08/2024

UES Project No. 31-241437

Boring No. B-16

BORING NUMBER B-17

PROJECT NAME Proposed Stone Creek
GEOServices PROJECT# A24112.00680.000
DATE 7/9/24
PROJECT LOCATION Spring Hill, TN
DRILLING CONTRACTOR Southeast Drilling Solutions
LOGGED BY Scott Williams **ON-SITE REP.** ---
DRILLING METHOD HSA
LATITUDE / LONGITUDE ---
GROUND ELEVATION 0 ft **PROPOSED FFE** ---
NORTHING / EASTING ---
REFUSAL Depth 0.3 ft / Elev -0.3 ft
TOP OF ROCK ---
GROUND WATER LEVELS:
BEGAN CORING ---
AT END OF DRILLING --- Dry
FOOTAGE CORED (LF) ---
AFTER 1 HOUR ---
BOTTOM OF HOLE Depth 0.3 ft / Elev -0.3 ft
AFTER 24 HOURS ---

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	MOISTURE CONTENT (%)	ATTERBERG LIMITS	
								LIQUID LIMIT	PLASTICITY INDEX
0	0.0		Auger Probed to Refusal						

Refusal at 0.3 feet.
Bottom of borehole at 0.3 feet.

NOTES:

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BORING NUMBER B-18

PROJECT NAME Proposed Stone Creek
GEOServices PROJECT# A24112.00680.000
DATE 7/27/24
PROJECT LOCATION Spring Hill, TN
DRILLING CONTRACTOR Southeast Drilling Solutions
LOGGED BY Scott Williams **ON-SITE REP.** ---
DRILLING METHOD HSA
LATITUDE / LONGITUDE ---
GROUND ELEVATION 0 ft **PROPOSED FFE** ---
NORTHING / EASTING ---
REFUSAL Depth 3.5 ft / Elev -3.5 ft
TOP OF ROCK Depth 3.5 ft / Elev -3.5 ft
GROUND WATER LEVELS:
BEGAN CORING Depth 3.5 ft / Elev -3.5 ft
AT END OF DRILLING --- Dry
FOOTAGE CORED (LF) 16.5 ft
AFTER 1 HOUR ---
BOTTOM OF HOLE Depth 20.0 ft / Elev -20.0 ft
AFTER 24 HOURS ---

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	MOISTURE CONTENT (%)	ATTERBERG LIMITS: LIQUID LIMIT	ATTERBERG LIMITS: PLASTICITY INDEX
0	0.0		No Recovery during Split Spoon Retrieval	SS 1		50/2"			
5	-5.0		Highly Weathered LIMESTONE with abundance of clay seams - light gray and gray - moderately hard - fine grained - highly fractured - horizontally thin bedded - highly weathered	RC 1	29 (0)				
10	-10.0			RC 2	56 (0)				
15	-15.0		LIMESTONE with some clay seams near top and healed veins - light gray and gray - moderately hard - fine grained - moderately fractured - horizontally thin and medium bedded - moderately weathered	RC 3	73 (30)				
20	-20.0		LIMESTONE with some small voids - light gray and gray - moderately hard - fine grained - moderately fractured - horizontally thin and medium bedded - moderately weathered	RC 4	100 (50)				

NOTES:

Refusal at 3.5 feet.
Bottom of borehole at 20.0 feet.

Water circulation was lost at a depth of about 13.3 feet below the existing ground surface elevation during coring activities.

Boring B-18 (Run #1, #2, & #3)				
Run No.	Depth (Feet)	REC (%)	RQD (%)	Rock Quality
1	3.5' to 7.0'	29%	0%	Very Poor
2	7.0' to 12.0'	56%	0%	Very Poor
3	12.0' to 17.0'	73%	30%	Poor

Notes:

1) REC = Recovery
2) RQD = Rock Quality Designation

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Rock Core Representative Photo
Proposed Stone Creek
Spring Hill, Tennessee

DATE: 08/08/2024

UES Project No. 31-241437

Boring No. B-18

Boring B-18 (Run #4)				
Run No.	Depth (Feet)	REC (%)	RQD (%)	Rock Quality
4	17.0' to 20.0'	100%	50%	Fair

Notes:

1) REC = Recovery
2) RQD = Rock Quality Designation

Rock Core Representative Photo
Proposed Stone Creek
Spring Hill, Tennessee

DATE: 08/08/2024

UES Project No. 31-241437

Boring No. B-18

BORING NUMBER B-19

PROJECT NAME Proposed Stone Creek
GEOServices PROJECT# A24112.00680.000
DATE 7/27/24
PROJECT LOCATION Spring Hill, TN
DRILLING CONTRACTOR Southeast Drilling Solutions
LOGGED BY Scott Williams **ON-SITE REP.** ---
DRILLING METHOD HSA
LATITUDE / LONGITUDE ---
GROUND ELEVATION 0 ft **PROPOSED FFE** ---
NORTHING / EASTING ---
REFUSAL Depth 2.8 ft / Elev -2.8 ft
TOP OF ROCK Depth 2.8 ft / Elev -2.8 ft
GROUND WATER LEVELS:
BEGAN CORING Depth 2.8 ft / Elev -2.8 ft
AT END OF DRILLING --- Dry
FOOTAGE CORED (LF) 17.2 ft
AFTER 1 HOUR ---
BOTTOM OF HOLE Depth 20.0 ft / Elev -20.0 ft
AFTER 24 HOURS ---

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	MOISTURE CONTENT (%)	ATTERBERG LIMITS: LIQUID LIMIT	ATTERBERG LIMITS: PLASTICITY INDEX
0	0.0		Auger Probed to Refusal Began coring at 1 foot and broke through rock layer into soil back down to true refusal at 2.8 feet.						
5	-5.0		LIMESTONE with clay seams - light gray and gray - moderately hard - fine grained - highly fractured - horizontally thin bedded - highly weathered	RC 1	44 (0)				
			LIMESTONE with healed veins - light gray and gray - moderately hard - fine grained - moderately fractured - horizontally thin bedded - moderately weathered	RC 2	77 (21)				
10	-10.0		LIMESTONE with healed veins and trace small crystalline voids - light gray and gray - moderately hard - fine grained - moderately fractured - horizontally thin and medium bedded - slightly weathered	RC 3	96 (61)				
15	-15.0		LIMESTONE with healed veins and trace thin shale lenses interbedded - light gray and gray - moderately hard - fine grained - moderately fractured - horizontally thin and medium bedded - slightly weathered	RC 4	99 (50)				
20	-20.0		LIMESTONE with healed veins and trace thin shale lenses interbedded - light gray and gray - moderately hard - fine grained - highly fractured - horizontally thin bedded - slightly weathered	RC 5	94 (24)				

NOTES:
Refusal at 2.8 feet.
Bottom of borehole at 20.0 feet.

Water circulation was lost at a depth of about 3.5 feet below the existing ground surface elevation during coring activities.

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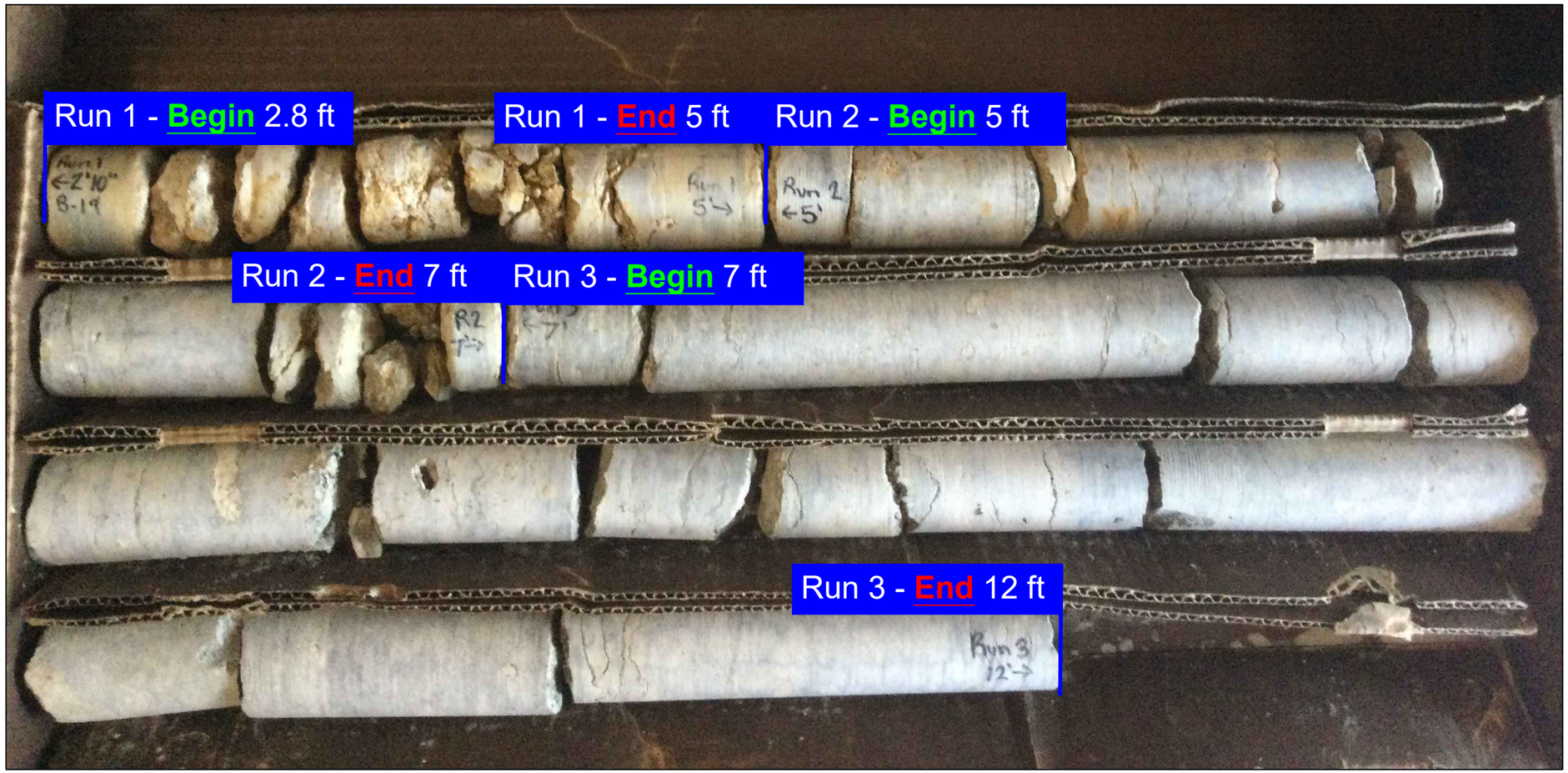


Boring B-19 (Run #1, #2, & #3)				
Run No.	Depth (Feet)	REC (%)	RQD (%)	Rock Quality
1	2.8' to 5.0'	44%	0%	Very Poor
2	5.0' to 7.0'	77%	21%	Very Poor
3	7.0' to 12.0'	96%	61%	Fair

Notes:

1) REC = Recovery
2) RQD = Rock Quality Designation

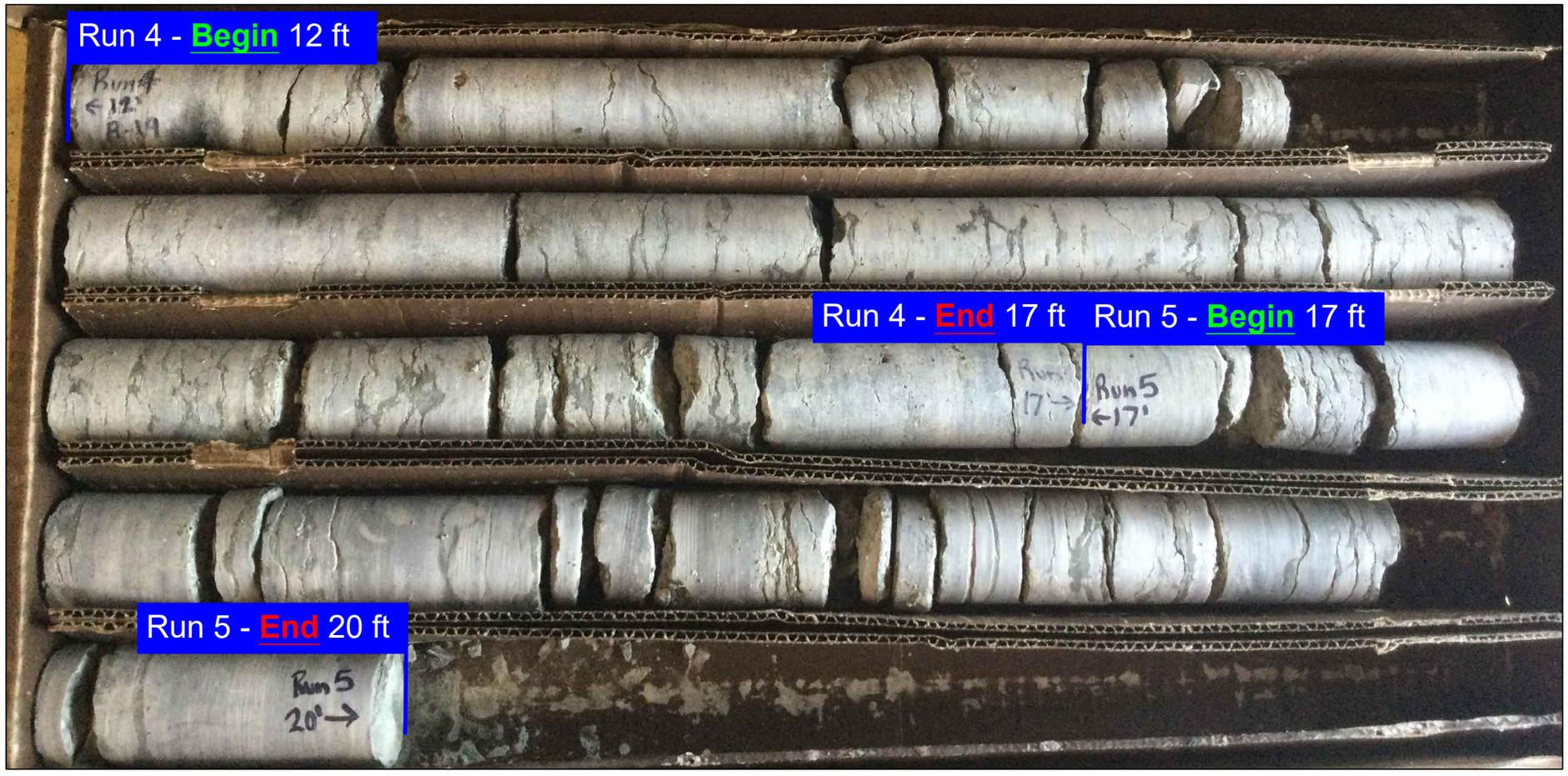
UES

Rock Core Representative Photo
Proposed Stone Creek
Spring Hill, Tennessee

DATE: 08/08/2024

UES Project No. 31-241437

Boring No. B-19



Boring B-19 (Run #4 & #5)				
Run No.	Depth (Feet)	REC (%)	RQD (%)	Rock Quality
4	12.0' to 17.0'	99%	50%	Poor
5	17.0' to 20.0'	94%	24%	Very Poor

Notes:

1) REC = Recovery
2) RQD = Rock Quality Designation

Rock Core Representative Photo
Proposed Stone Creek
Spring Hill, Tennessee

DATE: 08/08/2024

UES Project No. 31-241437

Boring No. B-19

BORING NUMBER B-20

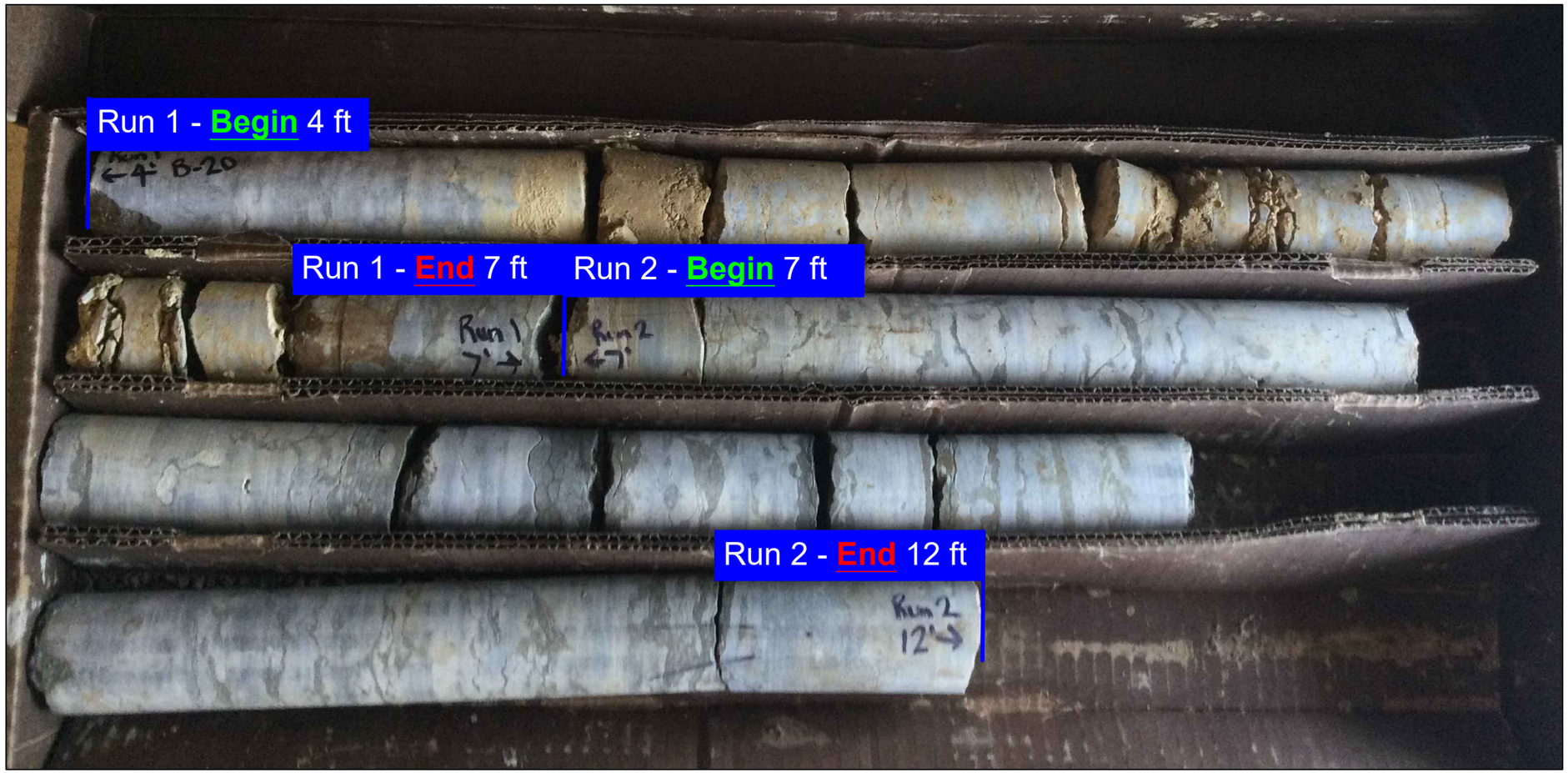
PROJECT NAME Proposed Stone Creek
GEOServices PROJECT# A24112.00680.000
DATE 7/28/24
PROJECT LOCATION Spring Hill, TN
DRILLING CONTRACTOR Southeast Drilling Solutions
LOGGED BY Scott Williams **ON-SITE REP.** ---
DRILLING METHOD HSA
LATITUDE / LONGITUDE ---
GROUND ELEVATION 0 ft **PROPOSED FFE** ---
NORTHING / EASTING ---
REFUSAL Depth 4.0 ft / Elev -4.0 ft
TOP OF ROCK Depth 4.0 ft / Elev -4.0 ft
GROUND WATER LEVELS:
BEGAN CORING Depth 4.0 ft / Elev -4.0 ft
AT END OF DRILLING --- Dry
FOOTAGE CORED (LF) 8.0 ft
AFTER 1 HOUR ---
BOTTOM OF HOLE Depth 12.0 ft / Elev -12.0 ft
AFTER 24 HOURS ---

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	MOISTURE CONTENT (%)	ATTERBERG LIMITS: LIQUID LIMIT	ATTERBERG LIMITS: PLASTICITY INDEX
0	0.0		Topsoil (6 inches)						
			Fat CLAY (CH) with trace chert fragments and limestone fragments at depth - orangish brown and light brown - stiff - moist - (RESIDUUM)	SS 1		14-7-8 (15)	26		
				SS 2		7-50/0"	26		
5	-5.0		LIMESTONE with healed veins and some clay seams - light gray and gray - moderately hard - fine grained - moderately fractured - horizontally thin and medium bedded - moderately weathered	RC 1	86 (22)				
10	-10.0		LIMESTONE with healed veins and trace thin shale lenses interbedded - light gray and gray - moderately hard - fine grained - slightly fractured - horizontally thin and medium bedded - slightly weathered Borehole was terminated at 12 feet due to rig complications.	RC 2	78 (61)				

Refusal at 4.0 feet.
Bottom of borehole at 12.0 feet.

NOTES:

Water pressure was kept during coring activities with no significant loss of water.



Boring B-20 (Run #1 & #2)

Run No.	Depth (Feet)	REC (%)	RQD (%)	Rock Quality
1	4.0' to 7.0'	86%	22%	Very Poor
2	7.0' to 12.0'	78%	61%	Fair

Notes:

1) REC = Recovery
2) RQD = Rock Quality Designation

Rock Core Representative Photo
Proposed Stone Creek
Spring Hill, Tennessee

DATE: 08/08/2024

UES Project No. 31-241437

Boring No. B-20

BORING NUMBER B-21

PROJECT NAME Proposed Stone Creek
GEOServices PROJECT# A24112.00680.000
DATE 7/12/24
PROJECT LOCATION Spring Hill, TN
DRILLING CONTRACTOR Southeast Drilling Solutions
LOGGED BY Scott Williams **ON-SITE REP.** ---
DRILLING METHOD HSA
LATITUDE / LONGITUDE ---
GROUND ELEVATION 0 ft **PROPOSED FFE** ---
NORTHING / EASTING ---
REFUSAL Depth 1.5 ft / Elev -1.5 ft
TOP OF ROCK Depth 1.5 ft / Elev -1.5 ft
GROUND WATER LEVELS:
BEGAN CORING Depth 1.5 ft / Elev -1.5 ft
AT END OF DRILLING --- Dry
FOOTAGE CORED (LF) 38.5 ft
AFTER 1 HOUR ---
BOTTOM OF HOLE Depth 40.0 ft / Elev -40.0 ft
AFTER 24 HOURS ---

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	MOISTURE CONTENT (%)	ATTERBERG LIMITS: LIQUID LIMIT	ATTERBERG LIMITS: PLASTICITY INDEX
0	0.0		Auger probed to Refusal						
5	-5.0		LIMESTONE with clay seams at top and healed veins - light gray and gray - moderately hard - fine grained - moderately fractured - horizontally thin bedded - highly to moderately weathered	RC 1	56 (12)				
10	-10.0		LIMESTONE with healed veins - light gray and gray - moderately hard - fine grained - slightly fractured - horizontally thin and medium bedded - slightly weathered	RC 2	94 (50)				
				RC 3	100 (82)				
15	-15.0			RC 4	99 (69)				
20	-20.0		LIMESTONE with healed veins - light gray and gray - moderately hard - fine grained - moderatey fractured - horizontally thin and medium bedded - slightly weathered	RC 5	98 (49)				

NOTES:

Water pressure was kept during coring activities with no significant loss of water.

(Continued Next Page)

BORING NUMBER B-21

PROJECT NAME Proposed Stone Creek
GEOServices PROJECT# A24112.00680.000
DATE 7/12/24
PROJECT LOCATION Spring Hill, TN
DRILLING CONTRACTOR Southeast Drilling Solutions
LOGGED BY Scott Williams **ON-SITE REP.** ---
DRILLING METHOD HSA
LATITUDE / LONGITUDE ---
GROUND ELEVATION 0 ft **PROPOSED FFE** ---
NORTHING / EASTING ---
REFUSAL Depth 1.5 ft / Elev -1.5 ft
TOP OF ROCK Depth 1.5 ft / Elev -1.5 ft
GROUND WATER LEVELS:
BEGAN CORING Depth 1.5 ft / Elev -1.5 ft
AT END OF DRILLING --- Dry
FOOTAGE CORED (LF) 38.5 ft
AFTER 1 HOUR ---
BOTTOM OF HOLE Depth 40.0 ft / Elev -40.0 ft
AFTER 24 HOURS ---

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	MOISTURE CONTENT (%)	ATTERBERG LIMITS: LIQUID LIMIT	ATTERBERG LIMITS: PLASTICITY INDEX
20	-20.0		LIMESTONE with healed veins - light gray and gray - moderately hard - fine grained - moderatey fractured - horizontally thin and medium bedded - slightly weathered *(continued)*						
			LIMESTONE with healed veins - light gray and gray - moderately hard - fine grained - slightly fractured - horizontally thin and medium bedded - slightly weathered	RC 6	100 (78)				
25	-25.0			RC 7	100 (51)				
30	-30.0								
			LIMESTONE with healed veins - light gray and gray - moderately hard - fine grained - moderatey fractured - horizontally thin and medium bedded - slightly weathered	RC 8	99 (44)				
35	-35.0								
			LIMESTONE with healed veins and trace small crystalline voids - light gray and gray - moderately hard - fine grained - slighty fractured - horizontally thin and medium bedded - slightly weathered	RC 9	100 (85)				
40	-40.0								

NOTES:
Refusal at 1.5 feet.
Bottom of borehole at 40.0 feet.

Water pressure was kept during coring activities with no significant loss of water.

Boring B-21 (Run #1, #2, & #3)				
Run No.	Depth (Feet)	REC (%)	RQD (%)	Rock Quality
1	1.5' to 5.0'	56%	12%	Very Poor
2	5.0' to 7.0'	94%	50%	Poor
3	7.0' to 12.0'	100%	82%	Good

Notes:

1) REC = Recovery
2) RQD = Rock Quality Designation

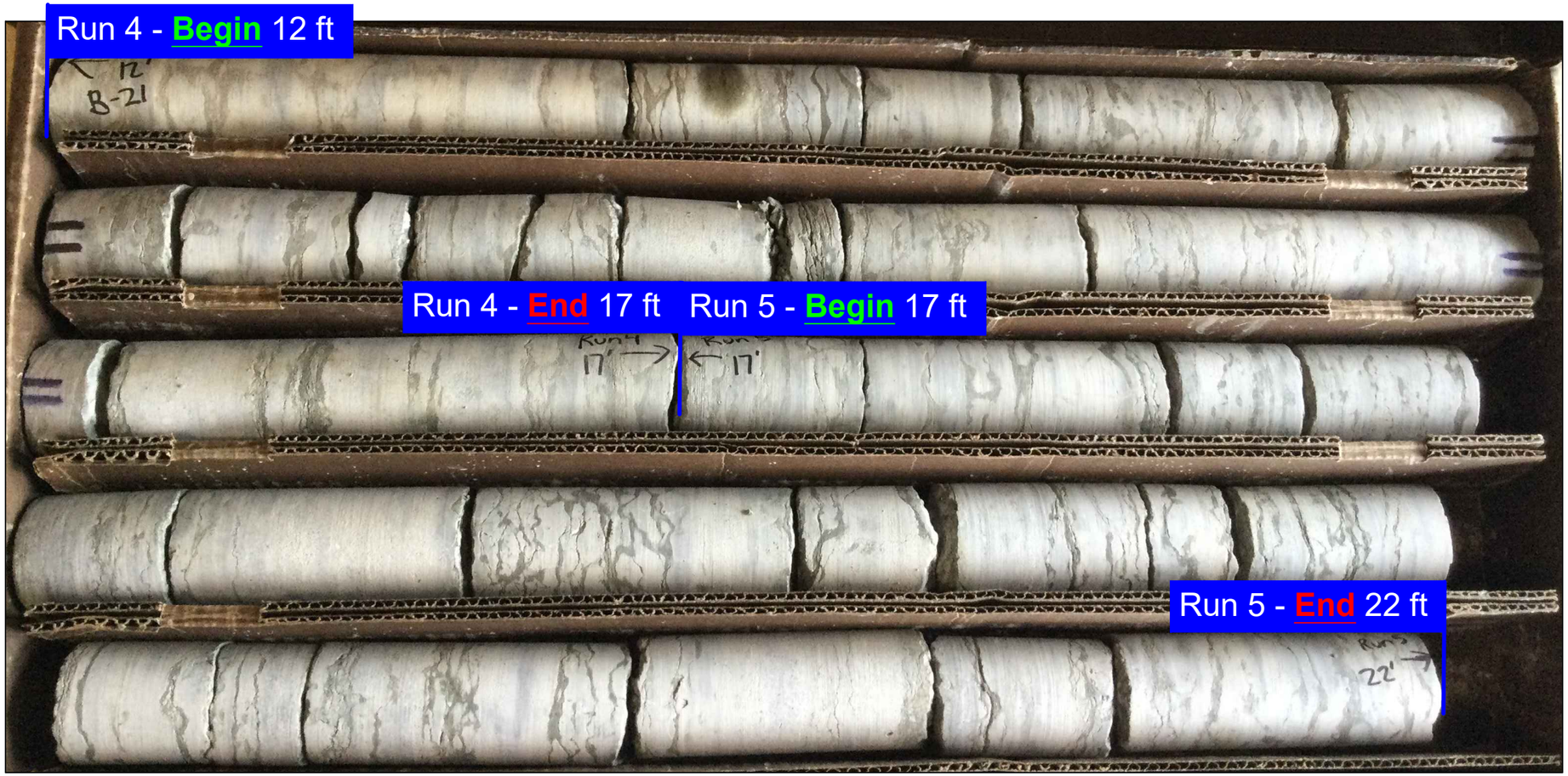
UES

Rock Core Representative Photo
Proposed Stone Creek
Spring Hill, Tennessee

DATE: 07/23/2024

UES Project No. 31-241437

Boring No. B-21



Boring B-21 (Run #4 & #5)				
Run No.	Depth (Feet)	REC (%)	RQD (%)	Rock Quality
4	12.0' to 17.0'	99%	69%	Fair
5	17.0' to 22.0'	98%	49%	Poor

Notes:

1) REC = Recovery
2) RQD = Rock Quality Designation

Rock Core Representative Photo
Proposed Stone Creek
Spring Hill, Tennessee

DATE: 07/23/2024

UES Project No. 31-241437

Boring No. B-21

Boring B-21 (Run #6 & #7)				
Run No.	Depth (Feet)	REC (%)	RQD (%)	Rock Quality
6	22.0' to 27.0'	100%	78%	Good
7	27.0' to 32.0'	100%	51%	Fair

Notes:

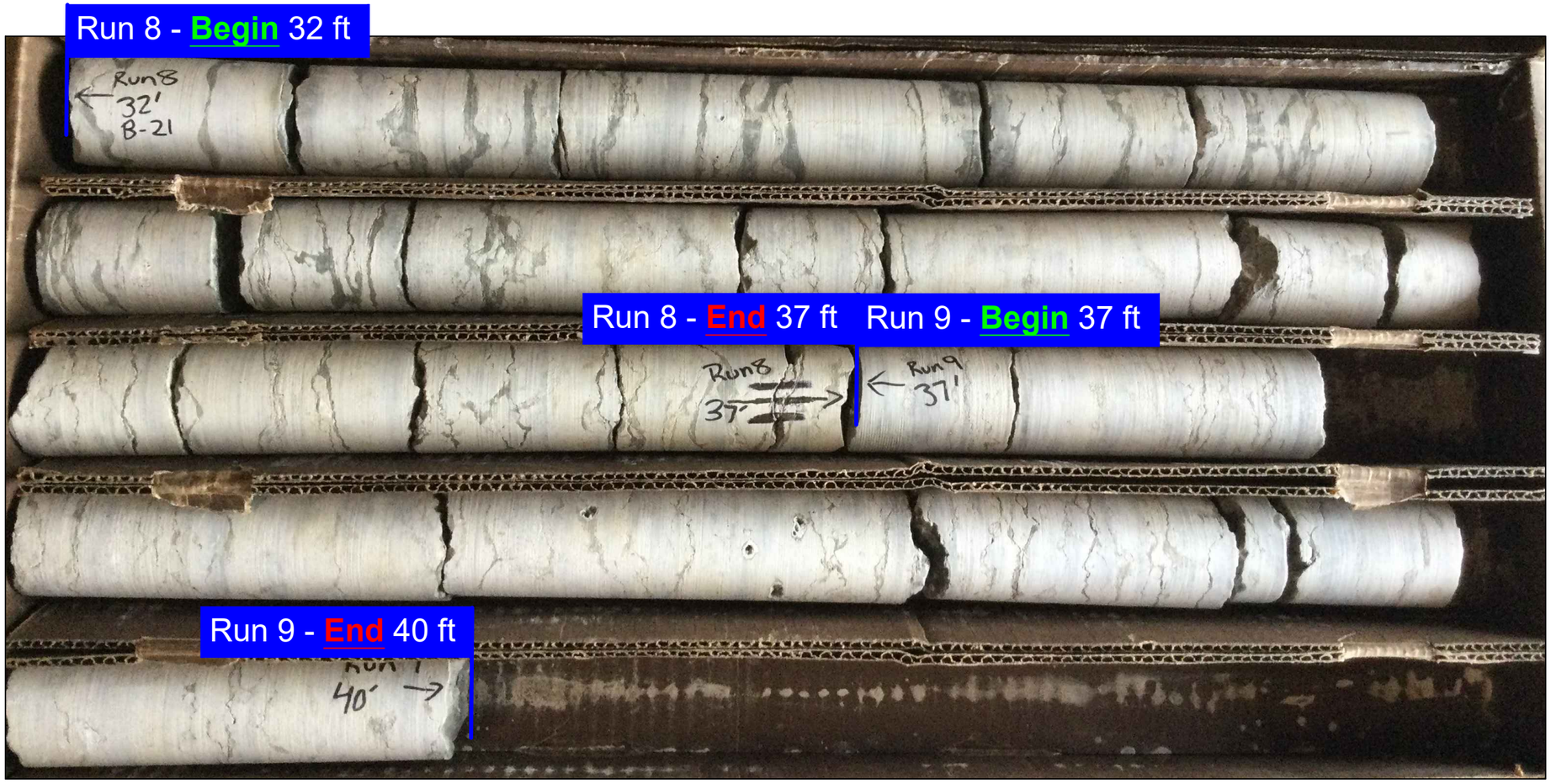
1) REC = Recovery
2) RQD = Rock Quality Designation

Rock Core Representative Photo
Proposed Stone Creek
Spring Hill, Tennessee

DATE: 07/23/2024

UES Project No. 31-241437

Boring No. B-21



Boring B-21 (Run #8 & #9)				
Run No.	Depth (Feet)	REC (%)	RQD (%)	Rock Quality
8	32.0' to 37.0'	99%	44%	Poor
9	37.0' to 40.0'	100%	85%	Good

Notes:

1) REC = Recovery
2) RQD = Rock Quality Designation

Rock Core Representative Photo
Proposed Stone Creek
Spring Hill, Tennessee

DATE: 07/23/2024

UES Project No. 31-241437

Boring No. B-21

BORING NUMBER B-22

PROJECT NAME Proposed Stone Creek
GEOServices PROJECT# A24112.00680.000
DATE 7/11/24
PROJECT LOCATION Spring Hill, TN
DRILLING CONTRACTOR Southeast Drilling Solutions
LOGGED BY Scott Williams **ON-SITE REP.** ---
DRILLING METHOD HSA
LATITUDE / LONGITUDE ---
GROUND ELEVATION 0 ft **PROPOSED FFE** ---
NORTHING / EASTING ---
REFUSAL Depth 1.0 ft / Elev -1.0 ft
TOP OF ROCK Depth 1.0 ft / Elev -1.0 ft
GROUND WATER LEVELS:
BEGAN CORING Depth 1.0 ft / Elev -1.0 ft
AT END OF DRILLING --- Dry
FOOTAGE CORED (LF) 39.0 ft
AFTER 1 HOUR ---
BOTTOM OF HOLE Depth 40.0 ft / Elev -40.0 ft
AFTER 24 HOURS ---

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	MOISTURE CONTENT (%)	ATTERBERG LIMITS: LIQUID LIMIT	ATTERBERG LIMITS: PLASTICITY INDEX
0	0.0		Auger probed to Refusal						
			LIMESTONE with trace clay seams at top and healed veins - light gray and gray - moderately hard - fine grained - moderately to slightly fractured - horizontally thin and medium bedded - moderately to slightly weathered	RC 1	92 (41)				
5	-5.0		LIMESTONE with healed veins - light gray and gray - moderately hard - fine grained - slightly fractured - horizontally thin and medium bedded - slightly weathered	RC 2	100 (73)				
10	-10.0			RC 3	97 (58)				
15	-15.0			RC 4	99 (56)				
20	-20.0			RC 5	100 (57)				

NOTES:

Water pressure was kept during coring activities with no significant loss of water.

(Continued Next Page)

BORING NUMBER B-22

PROJECT NAME Proposed Stone Creek
GEOServices PROJECT# A24112.00680.000
DATE 7/11/24
PROJECT LOCATION Spring Hill, TN
DRILLING CONTRACTOR Southeast Drilling Solutions
LOGGED BY Scott Williams **ON-SITE REP.** ---
DRILLING METHOD HSA
LATITUDE / LONGITUDE ---
GROUND ELEVATION 0 ft **PROPOSED FFE** ---
NORTHING / EASTING ---
REFUSAL Depth 1.0 ft / Elev -1.0 ft
TOP OF ROCK Depth 1.0 ft / Elev -1.0 ft
GROUND WATER LEVELS:
BEGAN CORING Depth 1.0 ft / Elev -1.0 ft
AT END OF DRILLING --- Dry
FOOTAGE CORED (LF) 39.0 ft
AFTER 1 HOUR ---
BOTTOM OF HOLE Depth 40.0 ft / Elev -40.0 ft
AFTER 24 HOURS ---

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	MOISTURE CONTENT (%)	ATTERBERG LIMITS: LIQUID LIMIT	ATTERBERG LIMITS: PLASTICITY INDEX
20	-20.0		LIMESTONE with healed veins - light gray and gray - moderately hard - fine grained - slightly fractured - horizontally thin and medium bedded - slightly weathered *(continued)*						
25	-25.0			RC 6	96 (58)				
			LIMESTONE with healed veins - light gray and gray - moderately hard - fine grained - moderately to slightly fractured - horizontally thin and medium bedded - slightly weathered						
30	-30.0			RC 7	98 (44)				
			LIMESTONE with healed veins and trace small crystalline voids - light gray and gray - moderately hard - fine grained - slightly fractured - horizontally thin and medium bedded - slightly weathered						
35	-35.0			RC 8	98 (78)				
			LIMESTONE with trace healed veins and trace small crystalline voids - light gray and gray - moderately hard - fine grained - horizontally thick, medium, and thin bedded - unweathered						
40	-40.0			RC 9	96 (90)				

NOTES:
Refusal at 1.0 feet.
Bottom of borehole at 40.0 feet.

Water pressure was kept during coring activities with no significant loss of water.

Boring B-22 (Run #1 & #2)				
Run No.	Depth (Feet)	REC (%)	RQD (%)	Rock Quality
1	1.0' to 5.0'	92%	41%	Poor
2	5.0' to 7.0'	100%	73%	Fair

Notes:

1) REC = Recovery
2) RQD = Rock Quality Designation

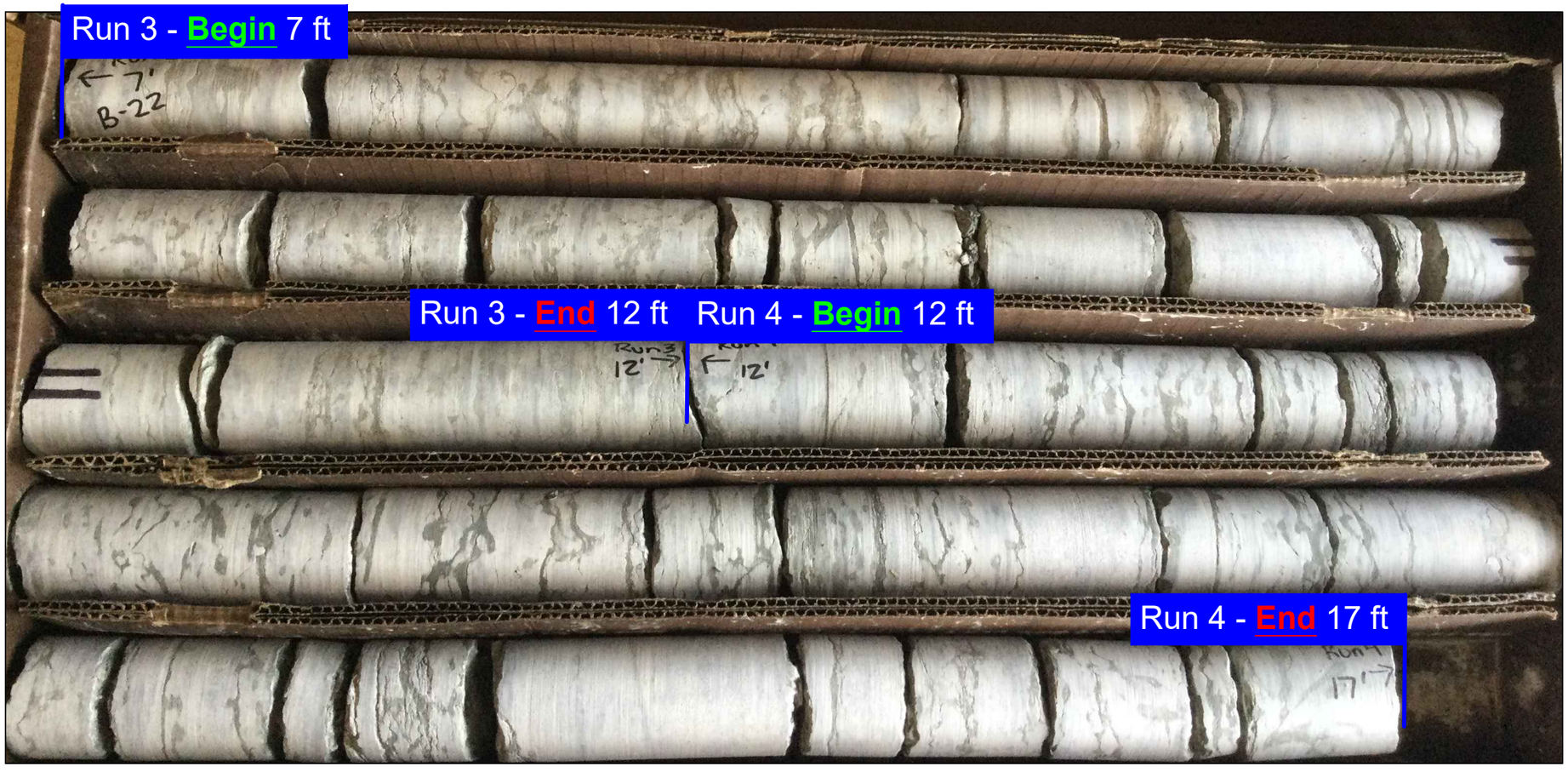
UES

Rock Core Representative Photo
Proposed Stone Creek
Spring Hill, Tennessee

DATE: 07/23/2024

UES Project No. 31-241437

Boring No. B-22



Boring B-22 (Run #3 & #4)				
Run No.	Depth (Feet)	REC (%)	RQD (%)	Rock Quality
1	7.0' to 12.0'	97%	58%	Fair
2	12.0' to 17.0'	99%	56%	Fair

Notes:

1) REC = Recovery
2) RQD = Rock Quality Designation

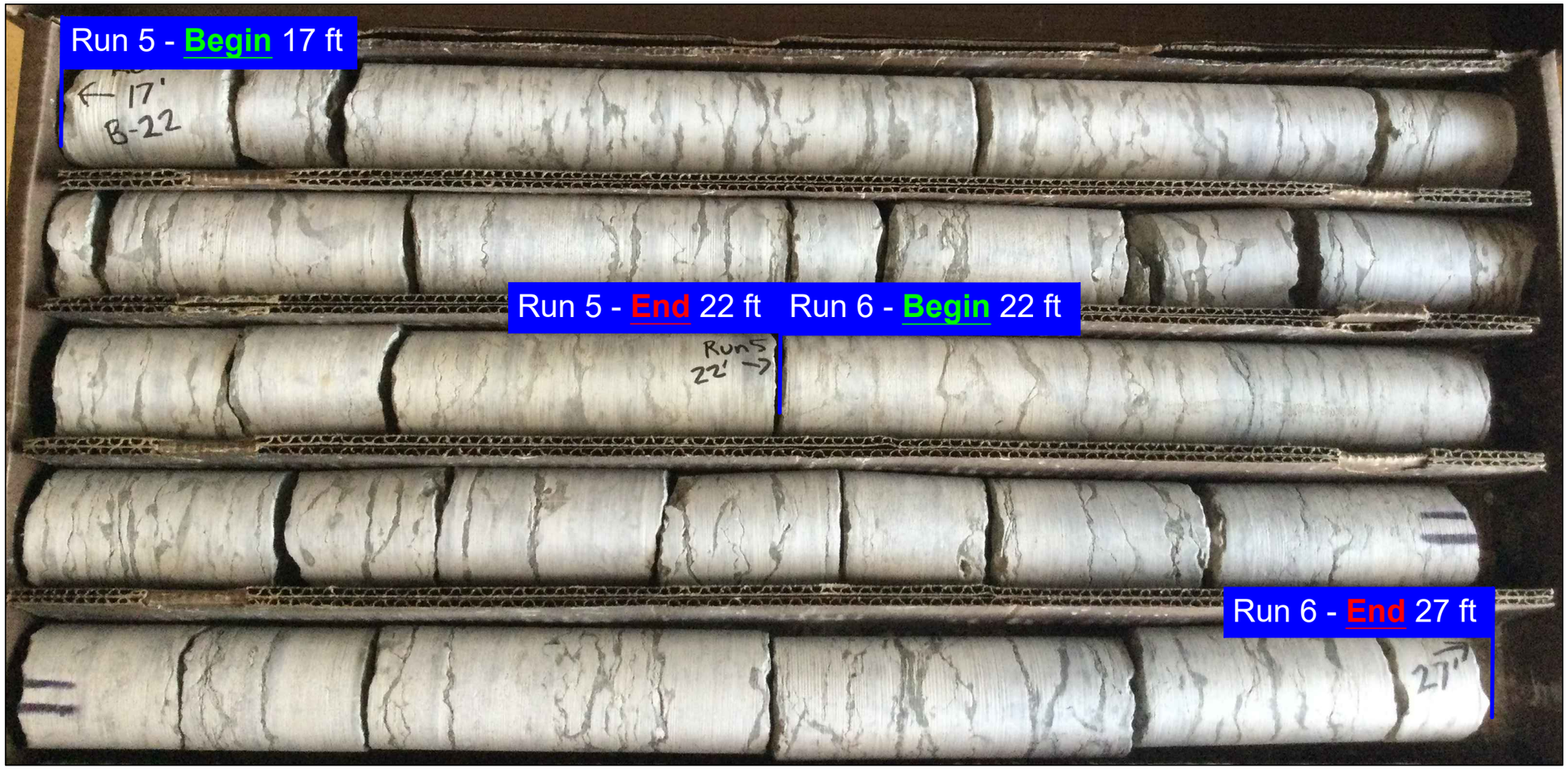
UES

Rock Core Representative Photo
Proposed Stone Creek
Spring Hill, Tennessee

DATE: 07/23/2024

UES Project No. 31-241437

Boring No. B-22



Boring B-22 (Run #5 & #6)

Run No.	Depth (Feet)	REC (%)	RQD (%)	Rock Quality
5	17.0' to 22.0'	100%	57%	Fair
6	22.0' to 27.0'	96%	58%	Fair

Notes:

1) REC = Recovery
2) RQD = Rock Quality Designation

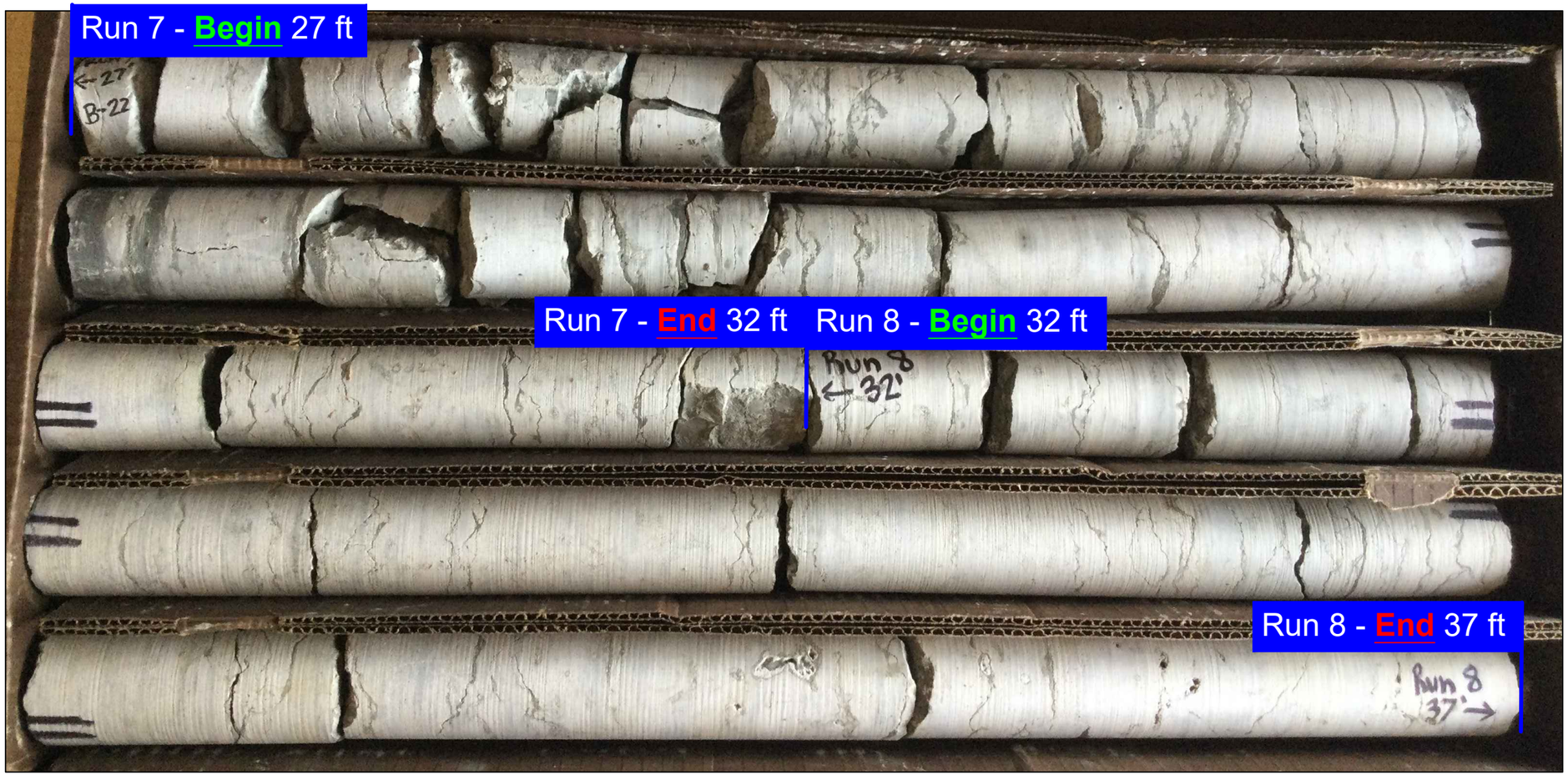
UES

Rock Core Representative Photo
Proposed Stone Creek
Spring Hill, Tennessee

DATE: 07/23/2024

UES Project No. 31-241437

Boring No. B-22



Boring B-22 (Run #7 & #8)				
Run No.	Depth (Feet)	REC (%)	RQD (%)	Rock Quality
7	27.0' to 32.0'	98%	44%	Poor
8	32.0' to 37.0'	98%	78%	Good

Notes:

1) REC = Recovery
2) RQD = Rock Quality Designation

UES

Rock Core Representative Photo
Proposed Stone Creek
Spring Hill, Tennessee

DATE: 07/23/2024

UES Project No. 31-241437

Boring No. B-22

Boring B-22 (Run #9)				
Run No.	Depth (Feet)	REC (%)	RQD (%)	Rock Quality
9	37.0' to 40.0'	96%	90%	Good

Notes:

1) REC = Recovery
2) RQD = Rock Quality Designation

UES

Rock Core Representative Photo
Proposed Stone Creek
Spring Hill, Tennessee

DATE: 07/23/2024

UES Project No. 31-241437

Boring No. B-22

BORING NUMBER B-23

PROJECT NAME Proposed Stone Creek
GEOServices PROJECT# A24112.00680.000
DATE 7/19/24
PROJECT LOCATION Spring Hill, TN
DRILLING CONTRACTOR Southeast Drilling Solutions
LOGGED BY Scott Williams **ON-SITE REP.** ---
DRILLING METHOD HSA
LATITUDE / LONGITUDE ---
GROUND ELEVATION 0 ft **PROPOSED FFE** ---
NORTHING / EASTING ---
REFUSAL Depth 2.0 ft / Elev -2.0 ft
TOP OF ROCK Depth 2.0 ft / Elev -2.0 ft
GROUND WATER LEVELS:
BEGAN CORING Depth 2.0 ft / Elev -2.0 ft
AT END OF DRILLING --- Dry
FOOTAGE CORED (LF) 38.0 ft
AFTER 1 HOUR ---
BOTTOM OF HOLE Depth 40.0 ft / Elev -40.0 ft
AFTER 24 HOURS ---

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	MOISTURE CONTENT (%)	ATTERBERG LIMITS: LIQUID LIMIT	ATTERBERG LIMITS: PLASTICITY INDEX
0	0.0		No Recovery during Split Spoon Retrieval	SS 1		50/2"			
5	-5.0		LIMESTONE with clay seams at top and healed veins - light gray and gray - moderately hard - fine grained - moderately fractured - horizontally thin and medium bedded - moderately to slightly weathered	RC 1	60 (36)				
10	-10.0		LIMESTONE with healed veins - light gray and gray - moderately hard - fine grained - moderately fractured - horizontally thin and medium bedded - slightly weathered	RC 2	97 (57)				
15	-15.0			RC 3	99 (61)				
20	-20.0			RC 4	100 (55)				

NOTES:

Water pressure was kept during coring activities with no significant loss of water.

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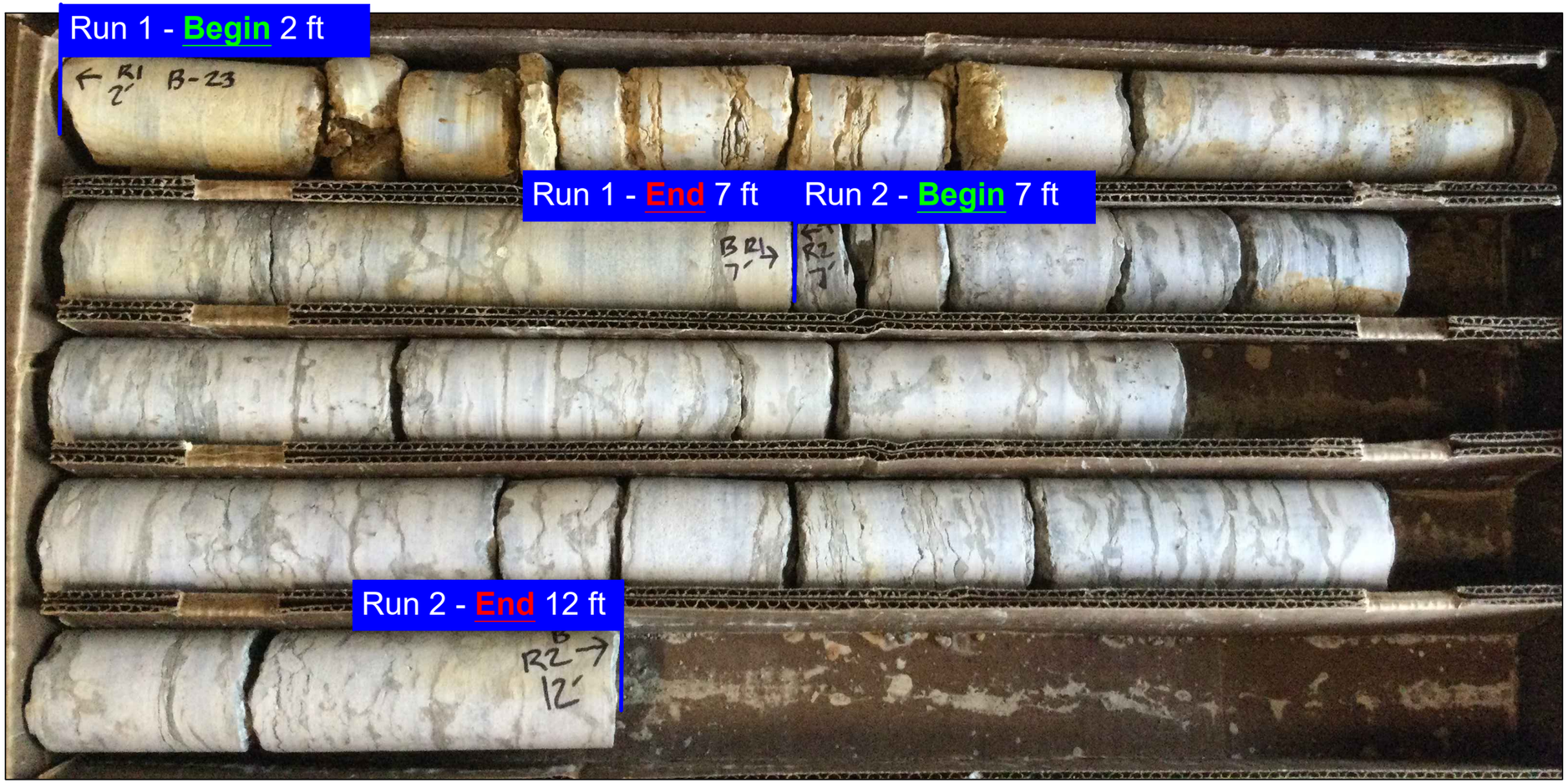
GEOSERVICES BOREHOLE LOG - GEOSERVICES_EXAMPLEPROJ.GPJ - 7/31/24 08:41 - Z:\PROJECT FOLDER\2024 PROJECTS\DEPT. 31- GEOTECHNICAL\31-241437 PROPOSED STONE CREEK, SPRING HILL, TN\APPENDIX A\31-241437 BORING LOGS.GPJ

BORING NUMBER B-23

PROJECT NAME Proposed Stone Creek
GEOServices PROJECT# A24112.00680.000
DATE 7/19/24
PROJECT LOCATION Spring Hill, TN
DRILLING CONTRACTOR Southeast Drilling Solutions
LOGGED BY Scott Williams **ON-SITE REP.** ---
DRILLING METHOD HSA
LATITUDE / LONGITUDE ---
GROUND ELEVATION 0 ft **PROPOSED FFE** ---
NORTHING / EASTING ---
REFUSAL Depth 2.0 ft / Elev -2.0 ft
TOP OF ROCK Depth 2.0 ft / Elev -2.0 ft
GROUND WATER LEVELS:
BEGAN CORING Depth 2.0 ft / Elev -2.0 ft
AT END OF DRILLING --- Dry
FOOTAGE CORED (LF) 38.0 ft
AFTER 1 HOUR ---
BOTTOM OF HOLE Depth 40.0 ft / Elev -40.0 ft
AFTER 24 HOURS ---

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	MOISTURE CONTENT (%)	ATTERBERG LIMITS: LIQUID LIMIT	ATTERBERG LIMITS: PLASTICITY INDEX
20	-20.0		LIMESTONE with healed veins - light gray and gray - moderately hard - fine grained - moderately fractured - horizontally thin and medium bedded - slightly weathered *(continued)*						
				RC 5	98 (63)				
25	-25.0								
				RC 6	98 (48)				
30	-30.0		LIMESTONE with healed veins and trace small crystalline voids - light gray and gray - moderately hard - fine grained - slightly fractured - horizontally thin and medium bedded - slightly weathered						
				RC 7	100 (68)				
35	-35.0								
				RC 8	99 (90)				
40	-40.0								

NOTES:
Refusal at 2.0 feet.
Bottom of borehole at 40.0 feet.
Water pressure was kept during coring activities with no significant loss of water.



Boring B-23 (Run #1 & #2)

Run No.	Depth (Feet)	REC (%)	RQD (%)	Rock Quality
1	2.0' to 7.0'	60%	36%	Poor
2	7.0' to 12.0'	97%	57%	Fair

Notes:

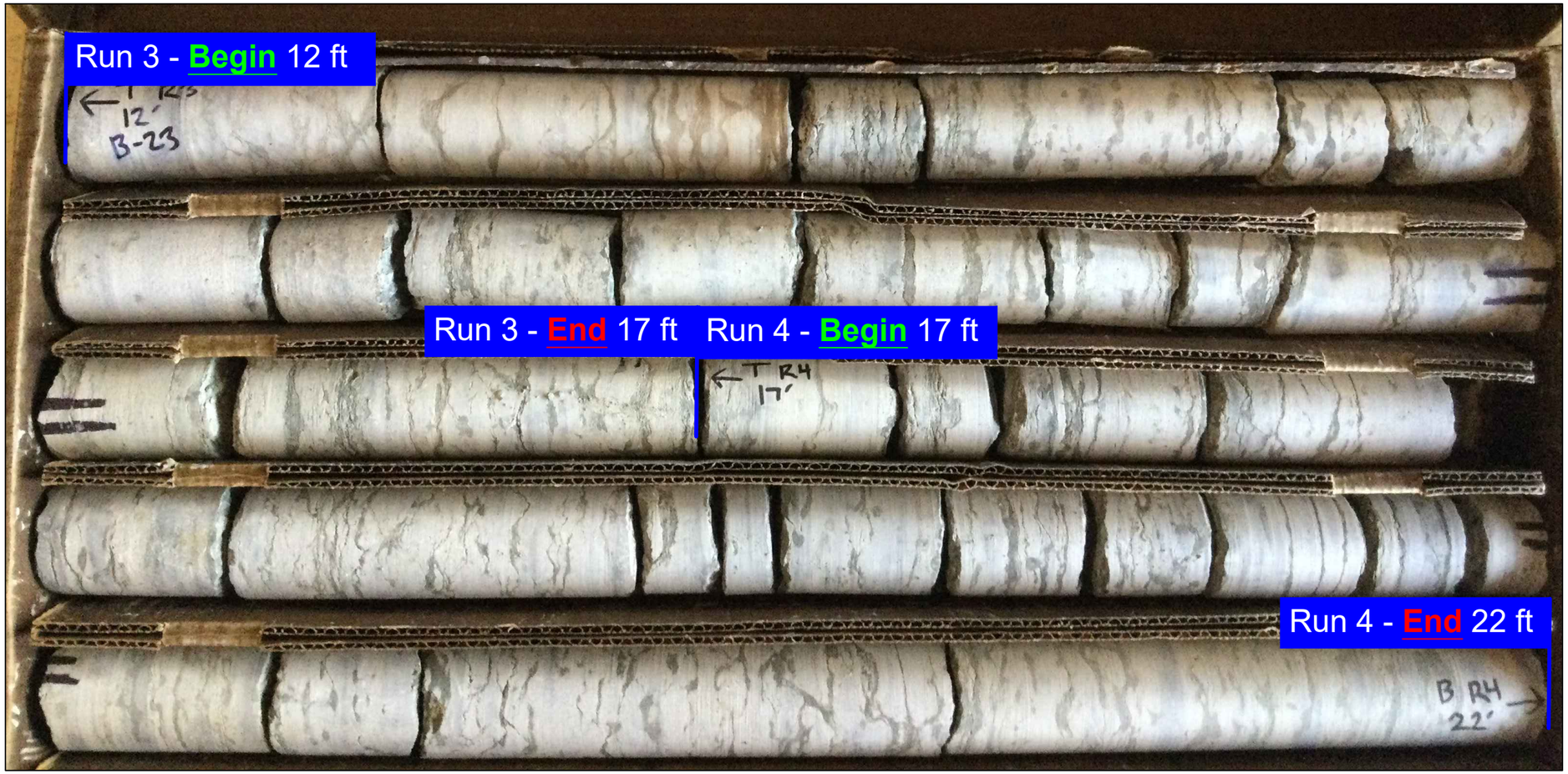
1) REC = Recovery
2) RQD = Rock Quality Designation

Rock Core Representative Photo
Proposed Stone Creek
Spring Hill, Tennessee

DATE: 08/01/2024

UES Project No. 31-241437

Boring No. B-23



Boring B-23 (Run #3 & #4)				
Run No.	Depth (Feet)	REC (%)	RQD (%)	Rock Quality
3	12.0' to 17.0'	99%	61%	Fair
4	17.0' to 22.0'	100%	55%	Fair

Notes:

1) REC = Recovery
2) RQD = Rock Quality Designation

UES

Rock Core Representative Photo
Proposed Stone Creek
Spring Hill, Tennessee

DATE: 08/01/2024

UES Project No. 31-241437

Boring No. B-23

Boring B-23 (Run #5 & #6)				
Run No.	Depth (Feet)	REC (%)	RQD (%)	Rock Quality
5	22.0' to 27.0'	98%	63%	Fair
6	27.0' to 32.0'	98%	48%	Poor

Notes:

1) REC = Recovery
2) RQD = Rock Quality Designation

UES

Rock Core Representative Photo
Proposed Stone Creek
Spring Hill, Tennessee

DATE: 08/01/2024

UES Project No. 31-241437

Boring No. B-23

Boring B-23 (Run #7 & #8)

Run No.	Depth (Feet)	REC (%)	RQD (%)	Rock Quality
7	32.0' to 37.0'	100%	68%	Fair
8	37.0' to 40.0'	99%	90%	Good

Notes:

1) REC = Recovery
2) RQD = Rock Quality Designation

Rock Core Representative Photo
Proposed Stone Creek
Spring Hill, Tennessee

DATE: 08/01/2024

UES Project No. 31-241437

Boring No. B-23

BORING NUMBER B-24

PROJECT NAME Proposed Stone Creek
GEOServices PROJECT# A24112.00680.000
DATE 7/10/24
PROJECT LOCATION Spring Hill, TN
DRILLING CONTRACTOR Southeast Drilling Solutions
LOGGED BY Scott Williams **ON-SITE REP.** ---
DRILLING METHOD HSA
LATITUDE / LONGITUDE ---
GROUND ELEVATION 0 ft **PROPOSED FFE** ---
NORTHING / EASTING ---
REFUSAL Depth 1.2 ft / Elev -1.2 ft
TOP OF ROCK Depth 1.2 ft / Elev -1.2 ft
GROUND WATER LEVELS:
BEGAN CORING Depth 1.2 ft / Elev -1.2 ft
AT END OF DRILLING --- Dry
FOOTAGE CORED (LF) 38.8 ft
AFTER 1 HOUR ---
BOTTOM OF HOLE Depth 40.0 ft / Elev -40.0 ft
AFTER 24 HOURS ---

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	MOISTURE CONTENT (%)	ATTERBERG LIMITS: LIQUID LIMIT	ATTERBERG LIMITS: PLASTICITY INDEX
0	0.0		Auger probed to Refusal						
			LIMESTONE with clay seams at top - light gray and gray - moderately hard - fine grained - highly fractured - horizontally thin bedded - moderately weathered	RC 1	62 (0)				
5	-5.0		LIMESTONE with healed veins - light gray and gray - moderately hard - fine grained - moderately fractured - horizontally thin bedded - moderately weathered	RC 2	92 (17)				
			LIMESTONE with healed veins - light gray and gray - moderately hard - fine grained - moderately to slightly fractured - horizontally thin to thin and medium bedded - slightly weathered	RC 3	96 (27)				
10	-10.0								
			LIMESTONE with healed veins - light gray and gray - moderately hard - fine grained - slightly fractured - horizontally thin and medium bedded - slightly weathered	RC 4	100 (71)				
15	-15.0								
				RC 5	99 (77)				
20	-20.0								

NOTES:

Water pressure was kept during coring activities with no significant loss of water.

(Continued Next Page)

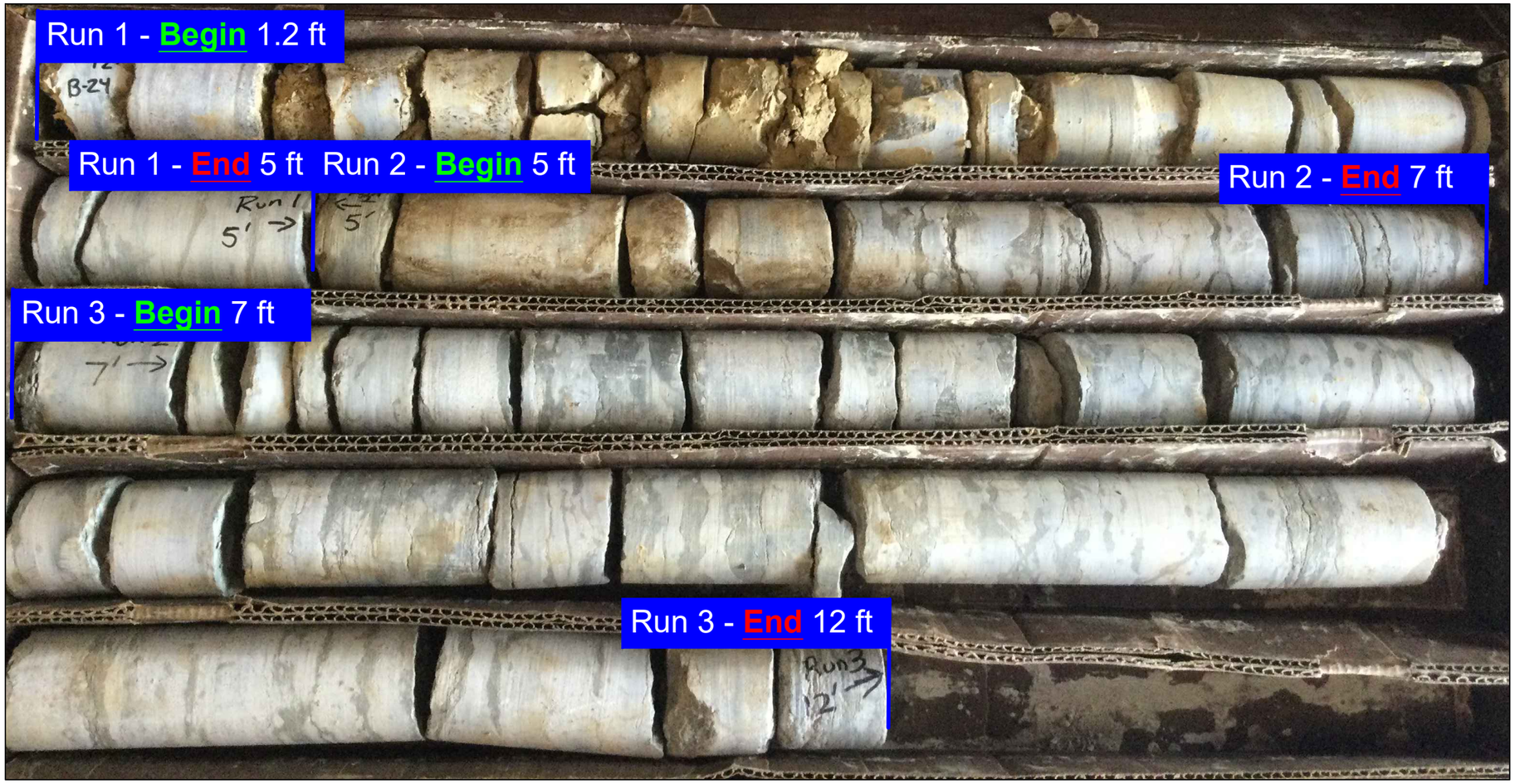
BORING NUMBER B-24

PROJECT NAME Proposed Stone Creek
GEOServices PROJECT# A24112.00680.000
DATE 7/10/24
PROJECT LOCATION Spring Hill, TN
DRILLING CONTRACTOR Southeast Drilling Solutions
LOGGED BY Scott Williams **ON-SITE REP.** ---
DRILLING METHOD HSA
LATITUDE / LONGITUDE ---
GROUND ELEVATION 0 ft **PROPOSED FFE** ---
NORTHING / EASTING ---
REFUSAL Depth 1.2 ft / Elev -1.2 ft
TOP OF ROCK Depth 1.2 ft / Elev -1.2 ft
GROUND WATER LEVELS:
BEGAN CORING Depth 1.2 ft / Elev -1.2 ft
AT END OF DRILLING --- Dry
FOOTAGE CORED (LF) 38.8 ft
AFTER 1 HOUR ---
BOTTOM OF HOLE Depth 40.0 ft / Elev -40.0 ft
AFTER 24 HOURS ---

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	MOISTURE CONTENT (%)	ATTERBERG LIMITS: LIQUID LIMIT	ATTERBERG LIMITS: PLASTICITY INDEX
20	-20.0		LIMESTONE with healed veins - light gray and gray - moderately hard - fine grained - slightly fractured - horizontally thin and medium bedded - slightly weathered *(continued)*						
			LIMESTONE with healed veins - light gray and gray - moderately hard - fine grained - moderately fractured - horizontally thin and medium bedded - slightly weathered	RC 6	100 (41)				
25	-25.0			RC 7	100 (40)				
30	-30.0			RC 8	96 (61)				
35	-35.0								
			LIMESTONE with healed veins - light gray and gray - moderately hard - fine grained - slightly fractured - horizontally thin and medium bedded - slightly weathered	RC 9	100 (57)				
40	-40.0								

NOTES:
Refusal at 1.2 feet.
Bottom of borehole at 40.0 feet.

Water pressure was kept during coring activities with no significant loss of water.



Boring B-24 (Run #1, #2, & #3)				
Run No.	Depth (Feet)	REC (%)	RQD (%)	Rock Quality
1	1.2' to 5.0'	62%	0%	Very Poor
2	5.0' to 7.0'	92%	17%	Very Poor
3	7.0' to 12.0'	96%	27%	Very Poor

Notes:

1) REC = Recovery
2) RQD = Rock Quality Designation

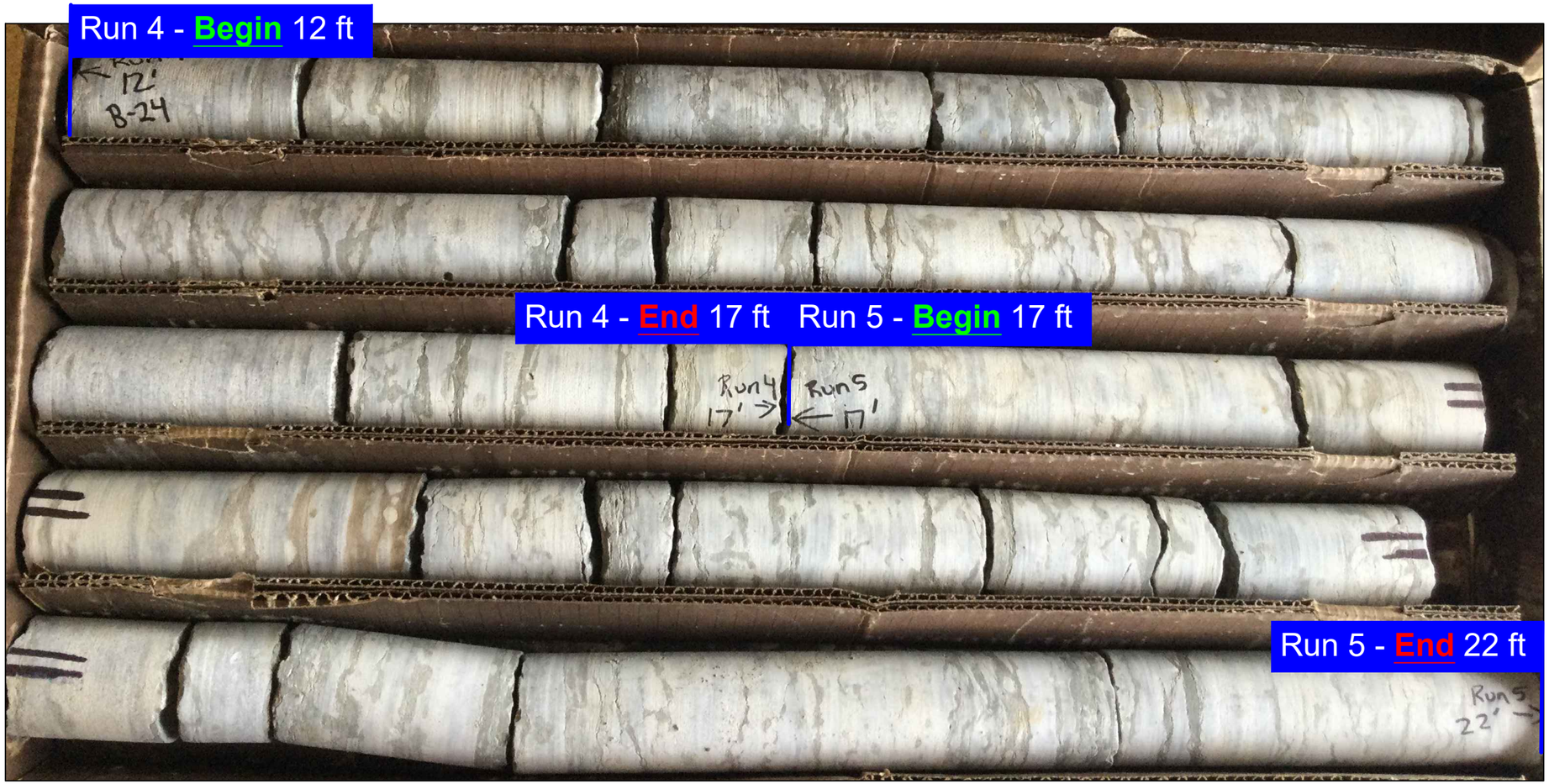
UES

Rock Core Representative Photo
Proposed Stone Creek
Spring Hill, Tennessee

DATE: 07/23/2024

UES Project No. 31-241437

Boring No. B-24



Boring B-24 (Run #4 & #5)				
Run No.	Depth (Feet)	REC (%)	RQD (%)	Rock Quality
4	12.0' to 17.0'	100%	71%	Fair
5	17.0' to 22.0'	99%	77%	Good

Notes:

1) REC = Recovery
2) RQD = Rock Quality Designation

UES

Rock Core Representative Photo
Proposed Stone Creek
Spring Hill, Tennessee

DATE: 07/23/2024

UES Project No. 31-241437

Boring No. B-24

Boring B-24 (Run #6 & #7)				
Run No.	Depth (Feet)	REC (%)	RQD (%)	Rock Quality
6	22.0' to 27.0'	100%	41%	Poor
7	27.0' to 32.0'	100%	40%	Poor

Notes:

1) REC = Recovery
2) RQD = Rock Quality Designation

UES

Rock Core Representative Photo
Proposed Stone Creek
Spring Hill, Tennessee

DATE: 07/23/2024

UES Project No. 31-241437

Boring No. B-24

Boring B-24 (Run #8 & #9)				
Run No.	Depth (Feet)	REC (%)	RQD (%)	Rock Quality
8	32.0' to 37.0'	96%	61%	Fair
9	37.0' to 40.0'	100%	57%	Fair

Notes:

1) REC = Recovery
2) RQD = Rock Quality Designation

UES

Rock Core Representative Photo
Proposed Stone Creek
Spring Hill, Tennessee

DATE: 07/23/2024

UES Project No. 31-241437

Boring No. B-24

BORING NUMBER B-25

PROJECT NAME Proposed Stone Creek
GEOServices PROJECT# A24112.00680.000
DATE 7/19/24
PROJECT LOCATION Spring Hill, TN
DRILLING CONTRACTOR Southeast Drilling Solutions
LOGGED BY Scott Williams **ON-SITE REP.** ---
DRILLING METHOD HSA
LATITUDE / LONGITUDE ---
GROUND ELEVATION 0 ft **PROPOSED FFE** ---
NORTHING / EASTING ---
REFUSAL Depth 4.5 ft / Elev -4.5 ft
TOP OF ROCK Depth 4.5 ft / Elev -4.5 ft
GROUND WATER LEVELS:
BEGAN CORING Depth 4.5 ft / Elev -4.5 ft
AT END OF DRILLING --- Dry
FOOTAGE CORED (LF) 35.5 ft
AFTER 1 HOUR ---
BOTTOM OF HOLE Depth 40.0 ft / Elev -40.0 ft
AFTER 24 HOURS ---

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	MOISTURE CONTENT (%)	ATTERBERG LIMITS: LIQUID LIMIT	ATTERBERG LIMITS: PLASTICITY INDEX
0	0.0		No Recovery during Split Spoon Retrieval	SS 1		50/4"			
5	-5.0		LIMESTONE with clay seams - light gray and gray - moderately hard - fine grained - moderately fractured - horizontally thin bedded - moderately weathered	RC 1	25 (0)				
10	-10.0		LIMESTONE with trace healed veins and trace small crystalline voids - light gray and gray - moderately hard - fine grained - slightly fractured - horizontally thin and medium bedded - slightly weathered	RC 2	74 (54)				
15	-15.0		LIMESTONE with trace healed veins - light gray and gray - moderately hard - fine grained - horizontally medium and thick bedded - unweathered	RC 3	100 (99)				
20	-20.0			RC 4	100 (88)				

NOTES:

Water pressure was kept during coring activities with no significant loss of water.

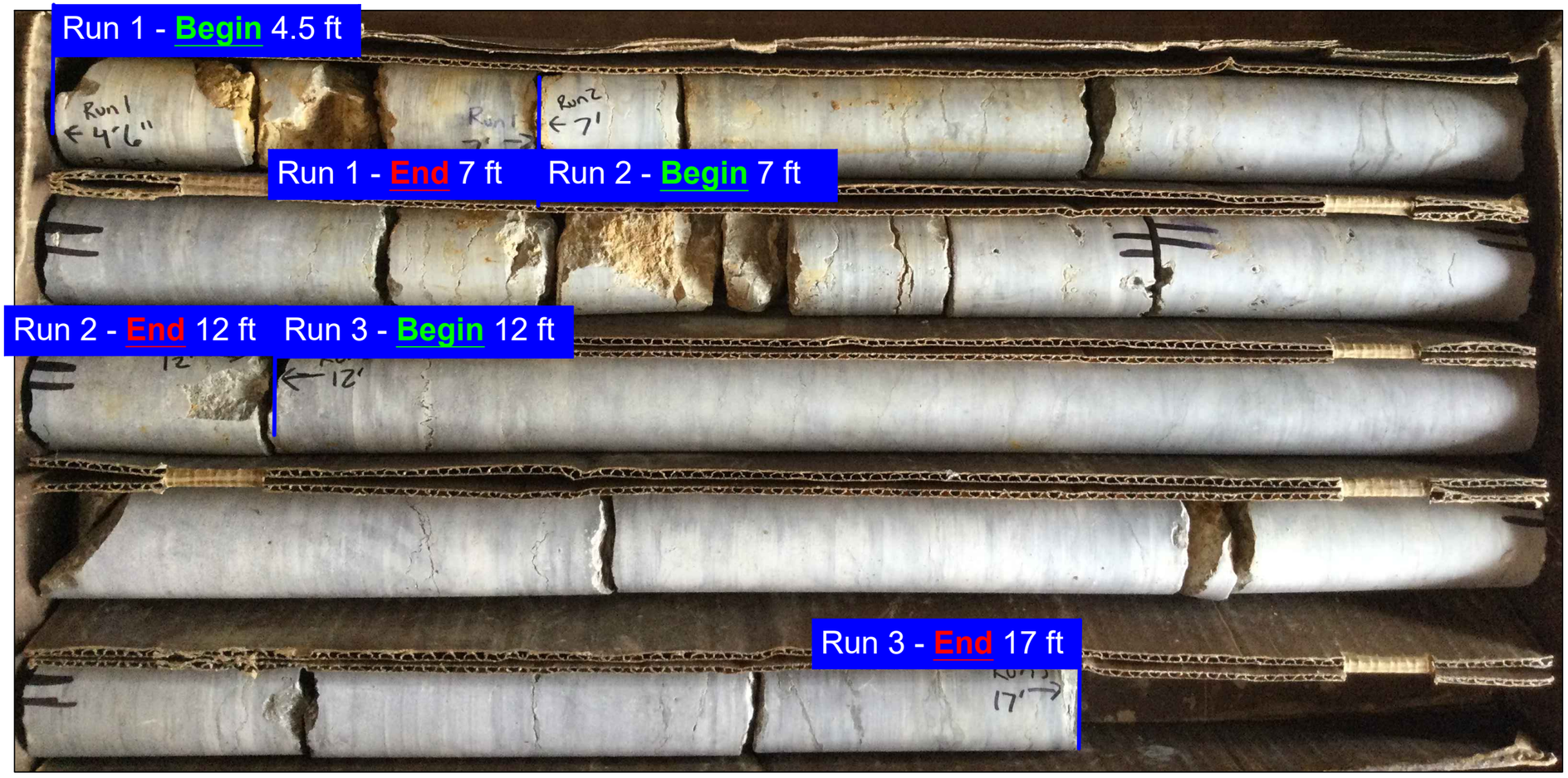
(Continued Next Page)

BORING NUMBER B-25

PROJECT NAME Proposed Stone Creek
GEOServices PROJECT# A24112.00680.000
DATE 7/19/24
PROJECT LOCATION Spring Hill, TN
DRILLING CONTRACTOR Southeast Drilling Solutions
LOGGED BY Scott Williams **ON-SITE REP.** ---
DRILLING METHOD HSA
LATITUDE / LONGITUDE ---
GROUND ELEVATION 0 ft **PROPOSED FFE** ---
NORTHING / EASTING ---
REFUSAL Depth 4.5 ft / Elev -4.5 ft
TOP OF ROCK Depth 4.5 ft / Elev -4.5 ft
GROUND WATER LEVELS:
BEGAN CORING Depth 4.5 ft / Elev -4.5 ft
AT END OF DRILLING --- Dry
FOOTAGE CORED (LF) 35.5 ft
AFTER 1 HOUR ---
BOTTOM OF HOLE Depth 40.0 ft / Elev -40.0 ft
AFTER 24 HOURS ---

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	MOISTURE CONTENT (%)	ATTERBERG LIMITS: LIQUID LIMIT	ATTERBERG LIMITS: PLASTICITY INDEX
20	-20.0		LIMESTONE with trace healed veins - light gray and gray - moderately hard - fine grained - horizontally medium and thick bedded - unweathered *(continued)*						
25	-25.0			RC 5	98 (92)				
			LIMESTONE - light gray and gray - hard - fine grained - horizontally medium and thick bedded - unweathered						
30	-30.0			RC 6	100 (95)				
35	-35.0			RC 7	99 (99)				
40	-40.0			RC 8	99 (99)				

NOTES:
Refusal at 4.5 feet.
Bottom of borehole at 40.0 feet.
Water pressure was kept during coring activities with no significant loss of water.



Boring B-25 (Run #1, #2, & #3)

Run No.	Depth (Feet)	REC (%)	RQD (%)	Rock Quality
1	4.5' to 7.0'	25%	0%	Very Poor
2	7.0' to 12.0'	74%	54%	Fair
3	12.0' to 17.0'	100%	99%	Excellent

Notes:

1) REC = Recovery
2) RQD = Rock Quality Designation

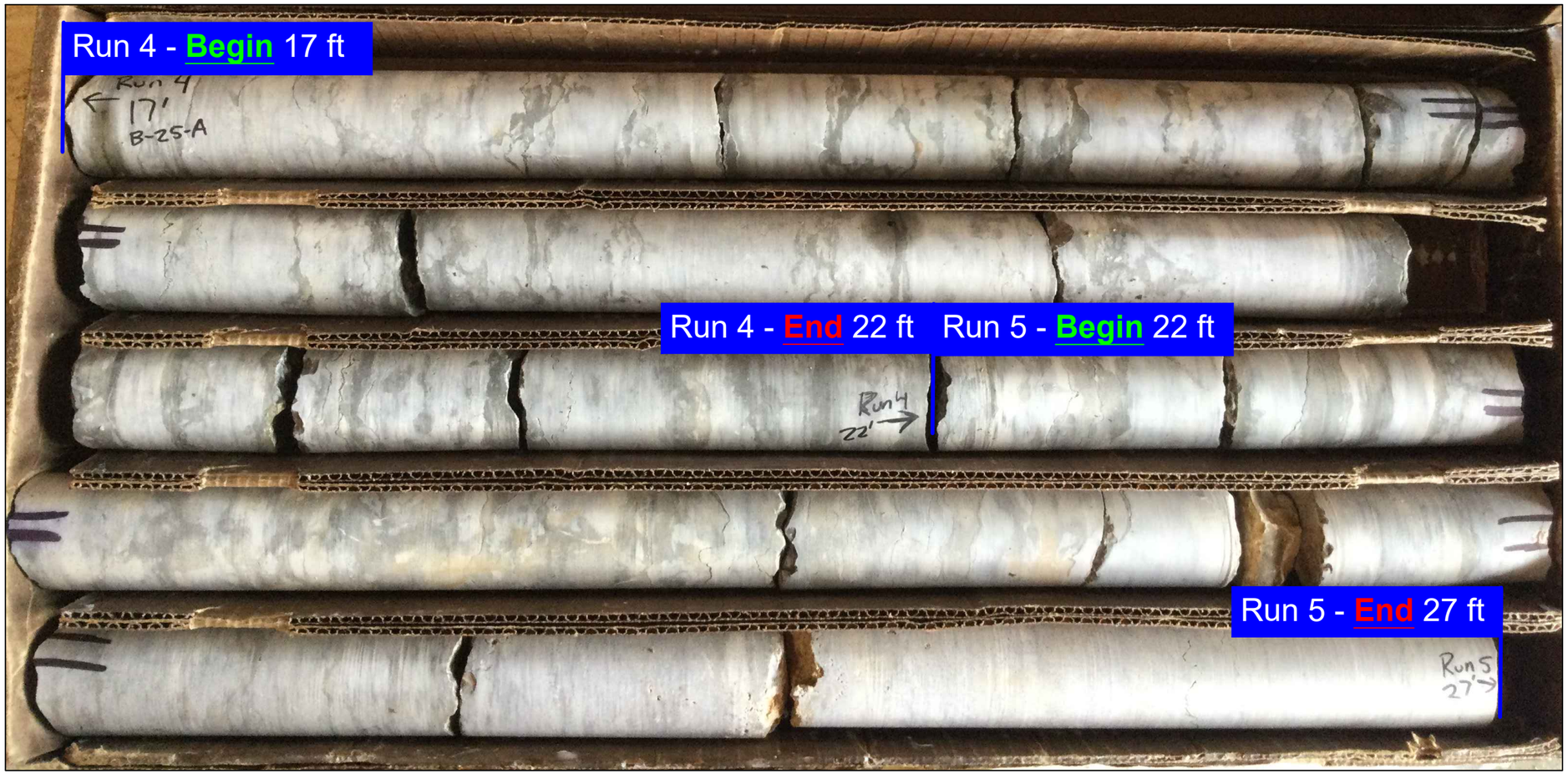
UES

Rock Core Representative Photo
Proposed Stone Creek
Spring Hill, Tennessee

DATE: 08/01/2024

UES Project No. 31-241437

Boring No. B-25



Boring B-25 (Run #4 & #5)				
Run No.	Depth (Feet)	REC (%)	RQD (%)	Rock Quality
4	17.0' to 22.0'	100%	88%	Good
5	22.0' to 27.0'	98%	92%	Excellent

Notes:

1) REC = Recovery
2) RQD = Rock Quality Designation

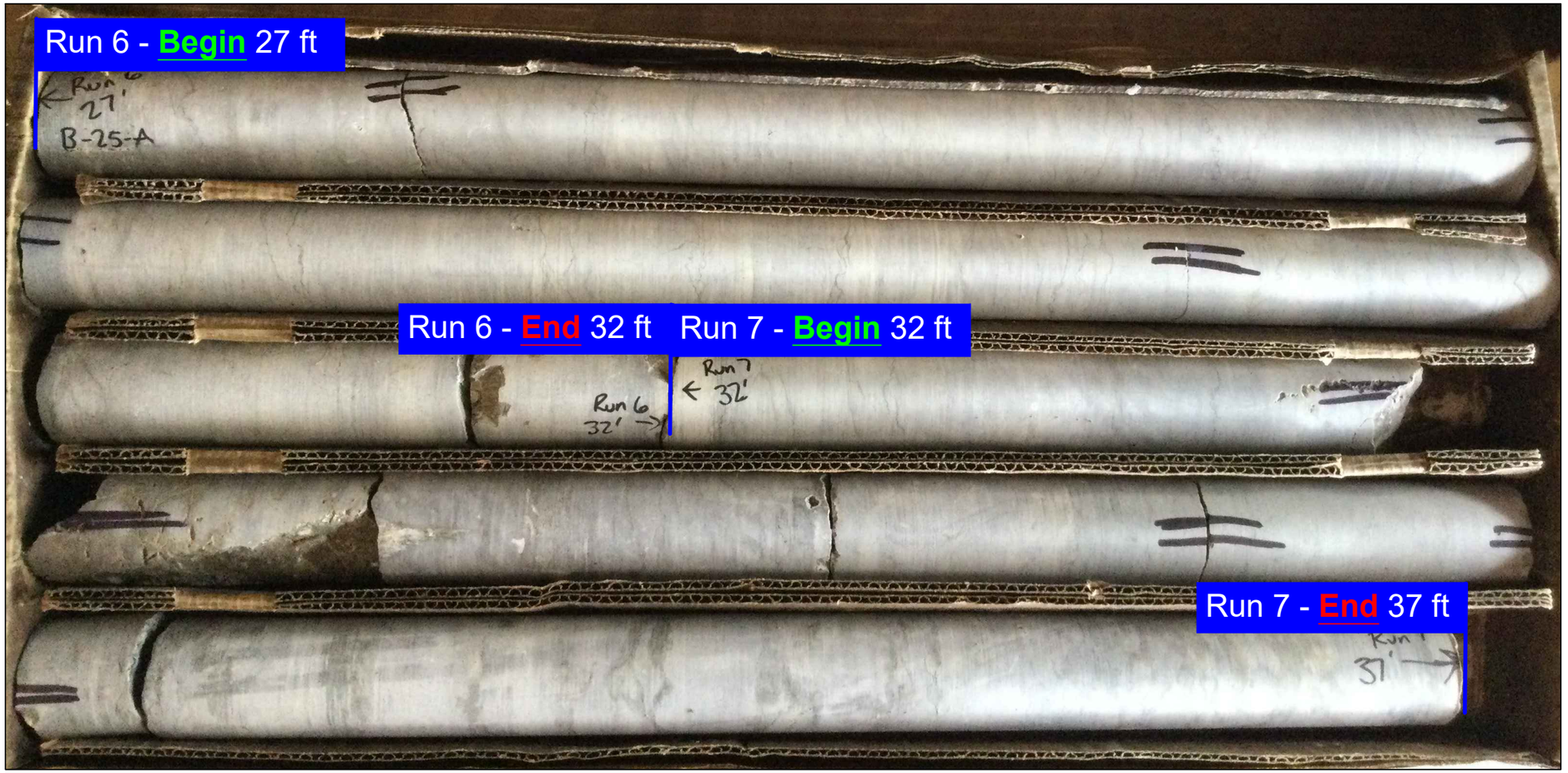
UES

Rock Core Representative Photo
Proposed Stone Creek
Spring Hill, Tennessee

DATE: 08/01/2024

UES Project No. 31-241437

Boring No. B-25



Boring B-25 (Run #6 & #7)

Run No.	Depth (Feet)	REC (%)	RQD (%)	Rock Quality
6	27.0' to 32.0'	100%	95%	Excellent
7	32.0' to 37.0'	99%	99%	Excellent

Notes:

1) REC = Recovery
2) RQD = Rock Quality Designation

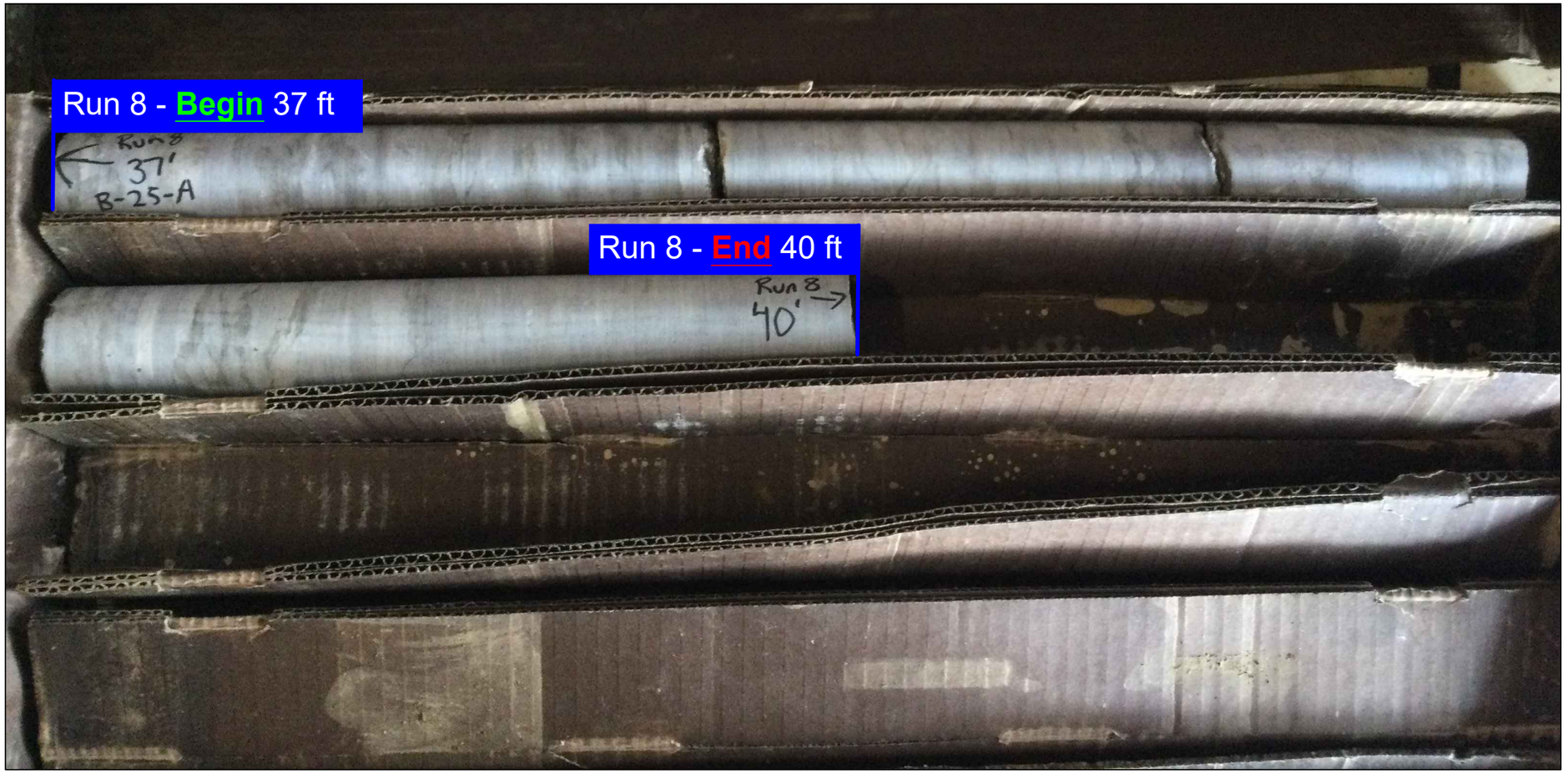
UES

Rock Core Representative Photo
Proposed Stone Creek
Spring Hill, Tennessee

DATE: 08/01/2024

UES Project No. 31-241437

Boring No. B-25



Boring B-25 (Run #8)				
Run No.	Depth (Feet)	REC (%)	RQD (%)	Rock Quality
8	37.0' to 40.0'	99%	99%	Excellent

Notes:

1) REC = Recovery
2) RQD = Rock Quality Designation

UES

Rock Core Representative Photo
Proposed Stone Creek
Spring Hill, Tennessee

DATE: 08/01/2024

UES Project No. 31-241437

Boring No. B-25

BORING NUMBER B-26

PROJECT NAME Proposed Stone Creek
GEOServices PROJECT# A24112.00680.000
DATE 9/3/24
PROJECT LOCATION Spring Hill, TN
DRILLING CONTRACTOR Southeast Drilling Solutions
LOGGED BY Scott Williams **ON-SITE REP.** ---
DRILLING METHOD HSA
LATITUDE / LONGITUDE ---
GROUND ELEVATION 0 ft **PROPOSED FFE** ---
NORTHING / EASTING ---
REFUSAL Depth 7.0 ft / Elev -7.0 ft
TOP OF ROCK Depth 7.0 ft / Elev -7.0 ft
GROUND WATER LEVELS:
BEGAN CORING Depth 7.0 ft / Elev -7.0 ft
AT END OF DRILLING --- 5.5
FOOTAGE CORED (LF) 15.0 ft
AFTER 1 HOUR ---
BOTTOM OF HOLE Depth 22.0 ft / Elev -22.0 ft
AFTER 24 HOURS ---

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	MOISTURE CONTENT (%)	ATTERBERG LIMITS: LIQUID LIMIT	ATTERBERG LIMITS: PLASTICITY INDEX
0	0.0		Topsoil (6 inches)						
			Sandy Lean CLAY (CL) - brown to gray and brown - firm to very soft - moist to wet - (RESIDUUM)	SS 1		3-2-3 (5)			
				SS 2		0-0-0 (0)			
5	-5.0			SS 3		50/2"			
			LIMESTONE with clay seams at top, trace thin shale lenses interbedded, and trace healed veins - light gray and gray - moderately hard - fine grained - highly fractured - horizontally thin bedded - highly to moderately weathered	RC 1	40 (0)				
10	-10.0								
			LIMESTONE with trace thin shale lenses interbedded and trace healed veins - light gray and gray - moderately hard - fine grained - highly fractured - horizontally thin to medium bedded - moderately weathered	RC 2	74 (33)				
15	-15.0								
			LIMESTONE with healed veins - light gray and gray - moderately hard - fine grained - slightly fractured - horizontally thin and medium bedded - slightly weathered	RC 3	100 (61)				
20	-20.0								

NOTES:

Water pressure was kept during coring activities with no significant loss of water.

(Continued Next Page)

PROJECT NAME Proposed Stone Creek
DATE 9/3/24
DRILLING CONTRACTOR Southeast Drilling Solutions
DRILLING METHOD HSA
GROUND ELEVATION 0 ft **PROPOSED FFE** ---
REFUSAL Depth 7.0 ft / Elev -7.0 ft
TOP OF ROCK Depth 7.0 ft / Elev -7.0 ft
BEGAN CORING Depth 7.0 ft / Elev -7.0 ft
FOOTAGE CORED (LF) 15.0 ft
BOTTOM OF HOLE Depth 22.0 ft / Elev -22.0 ft

GEOServices PROJECT# A24112.00680.000
PROJECT LOCATION Spring Hill, TN
LOGGED BY Scott Williams **ON-SITE REP.** ---
LATITUDE / LONGITUDE ---
NORTHING / EASTING ---

GROUND WATER LEVELS:
AT END OF DRILLING --- 5.5
AFTER 1 HOUR ---
AFTER 24 HOURS ---

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	MOISTURE CONTENT (%)	ATTERBERG LIMITS	
								LIQUID LIMIT	PLASTICITY INDEX
20	-20.0		LIMESTONE with healed veins - light gray and gray - moderately hard - fine grained - slightly fractured - horizontally thin and medium bedded - slightly weathered *(continued)*						

Refusal at 7.0 feet.
Bottom of borehole at 22.0 feet.

NOTES:

Water pressure was kept during coring activities with no significant loss of water.

GEOSERVICES BOREHOLE LOG - GEOSERVICES_EXAMPLEPROJ.GPJ - 9/6/24 15:28 - Z:\PROJECT FOLDER\2024 PROJECTS\DEPT. 31- GEOTECHNICAL\31-241437 PROPOSED STONE CREEK, SPRING HILL, TN\APPENDIX A\31-241437 BORING LOGS.GPJ

Boring B-26 (Run #1 & #2)				
Run No.	Depth (Feet)	REC (%)	RQD (%)	Rock Quality
1	7.0' to 12.0'	40%	0%	Very Poor
2	12.0' to 17.0'	74%	33%	Poor

Notes:

1) REC = Recovery
2) RQD = Rock Quality Designation

UES

Rock Core Representative Photo
Proposed Stone Creek
Spring Hill, Tennessee

DATE: 09/09/2024

UES Project No. 31-241437

Boring No. B-26

Boring B-26 (Run #3)				
Run No.	Depth (Feet)	REC (%)	RQD (%)	Rock Quality
3	17.0' to 22.0'	100%	61%	Fair

Notes:

1) REC = Recovery
2) RQD = Rock Quality Designation

UES™

Rock Core Representative Photo
Proposed Stone Creek
Spring Hill, Tennessee

DATE: 09/09/2024

UES Project No. 31-241437

Boring No. B-26

BORING NUMBER B-27

PROJECT NAME Proposed Stone Creek
GEOServices PROJECT# A24112.00680.000
DATE 9/3/24
PROJECT LOCATION Spring Hill, TN
DRILLING CONTRACTOR Southeast Drilling Solutions
LOGGED BY Scott Williams **ON-SITE REP.** ---
DRILLING METHOD HSA
LATITUDE / LONGITUDE ---
GROUND ELEVATION 0 ft **PROPOSED FFE** ---
NORTHING / EASTING ---
REFUSAL Depth 7.3 ft / Elev -7.3 ft
TOP OF ROCK Depth 7.3 ft / Elev -7.3 ft
GROUND WATER LEVELS:
BEGAN CORING Depth 7.3 ft / Elev -7.3 ft
AT END OF DRILLING --- 6
FOOTAGE CORED (LF) 9.7 ft
AFTER 1 HOUR ---
BOTTOM OF HOLE Depth 17.0 ft / Elev -17.0 ft
AFTER 24 HOURS ---

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	MOISTURE CONTENT (%)	ATTERBERG LIMITS: LIQUID LIMIT	ATTERBERG LIMITS: PLASTICITY INDEX
0	0.0		Topsoil (6 inches)						
			Lean CLAY (CL) with some sand - brown and light brown with some mineral staining with depth - firm - moist - (RESIDUUM)	SS 1		4-4-4 (8)			
				SS 2		2-4-4 (8)			
5	-5.0			SS 3		50/2"			
			LIMESTONE with healed veins and trace thin shale lenses interbedded - light gray and gray - moderately hard - fine grained - moderately to slightly fractured - horizontally thin and medium bedded - highly to slightly weathered	RC 1	100 (54)				
10	-10.0								
			LIMESTONE with healed veins and thin shale lenses interbedded - light gray and gray - moderately hard - fine grained - moderately fractured - horizontally thin and medium bedded - slightly weathered	RC 2	96 (15)				
15	-15.0								

Refusal at 7.3 feet.
Bottom of borehole at 17.0 feet.

NOTES:

Water pressure was kept during coring activities with no significant loss of water.

Boring B-27 (Run #1 & #2)

Run No.	Depth (Feet)	REC (%)	RQD (%)	Rock Quality
1	7.3' to 12.0'	100%	54%	Fair
2	12.0' to 17.0'	96%	14%	Very Poor

Notes:

1) REC = Recovery
2) RQD = Rock Quality Designation

UES

Rock Core Representative Photo
Proposed Stone Creek
Spring Hill, Tennessee

DATE: 09/09/2024

UES Project No. 31-241437

Boring No. B-27

APPENDIX B

UNIVERSAL
ENGINEERING SCIENCES

SOIL DATA SUMMARY
Proposed Stone Creek - Spring Hill, Tennessee
UES Project No. A24112.00680.000
August 12, 2024

Boring Number	Sample Number	Depth (feet)	Natural Moisture Content	Atterberg Limits			Soil Type
				LL	PL	PI	
B-12	1	1.0 - 1.7	21.8%				
B-15	1	1.0 - 1.8	6.9%				
B-20	1	1.0 - 2.5	25.8%				
	2	3.5 - 5.0	26.1%				

APPENDIX C

UNIVERSAL
ENGINEERING SCIENCES

N

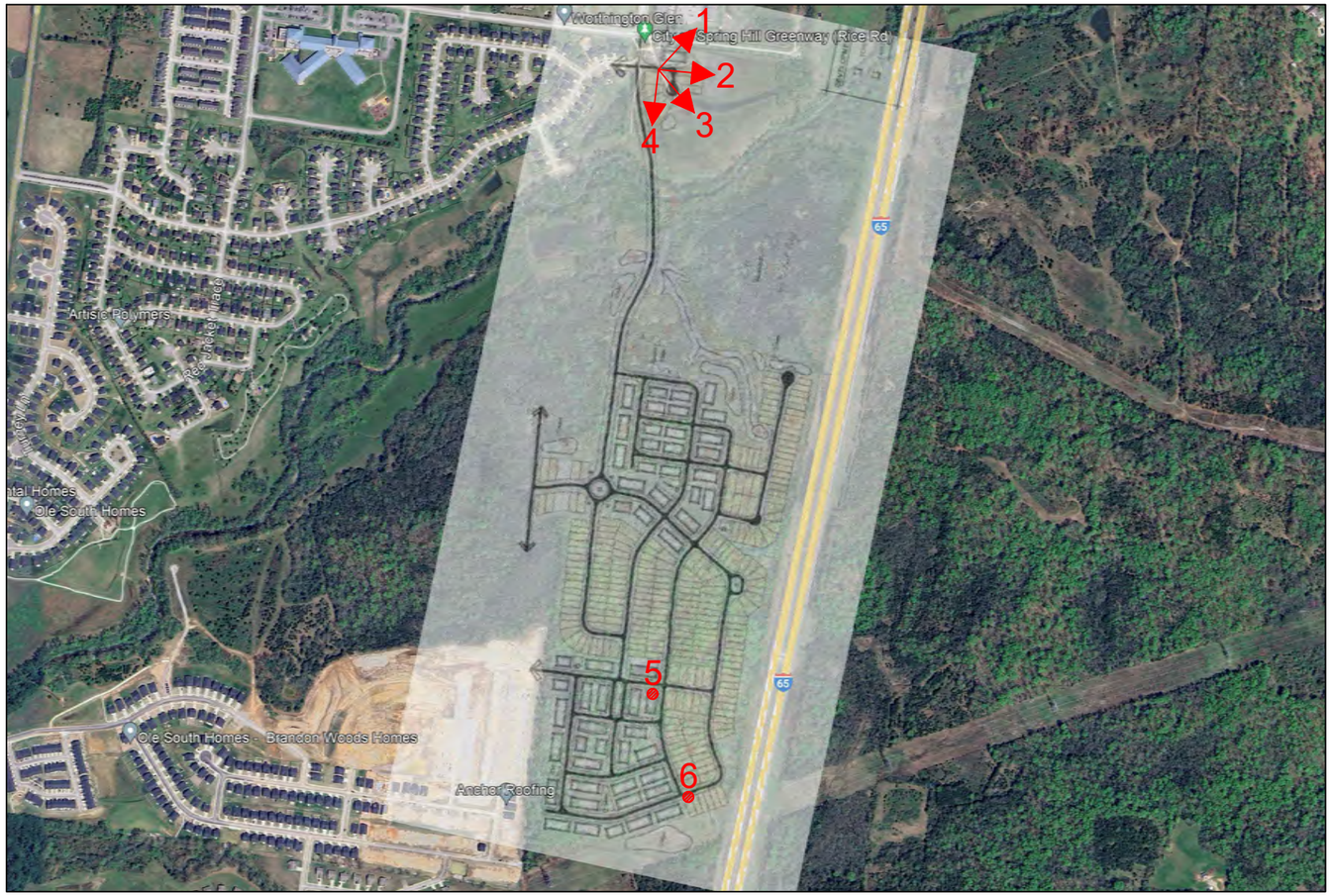


Photo: 6

Photo: 5

Photo: 1

Photo: 2

Photo: 3

Photo: 4

Notes:

1) Site Source Provided by: Client
2) Aerial Provided by: Google Earth Pro, (2023)

UES

Representative Photos
Proposed Stone Creek
Spring Hill, Tennessee

DATE: 01/05/2024

UES Project No. 31-241212

FIGURE: 4

N

Photo: 12

Photo: 11

Photo: 7

Photo: 8

Photo: 9

Photo: 10

Notes:

1) Site Source Provided by: Client
2) Aerial Provided by: Google Earth Pro, (2023)

UES

Representative Photos
Proposed Stone Creek
Spring Hill, Tennessee

DATE: 01/05/2024

UES Project No. 31-241212

FIGURE: 5

N

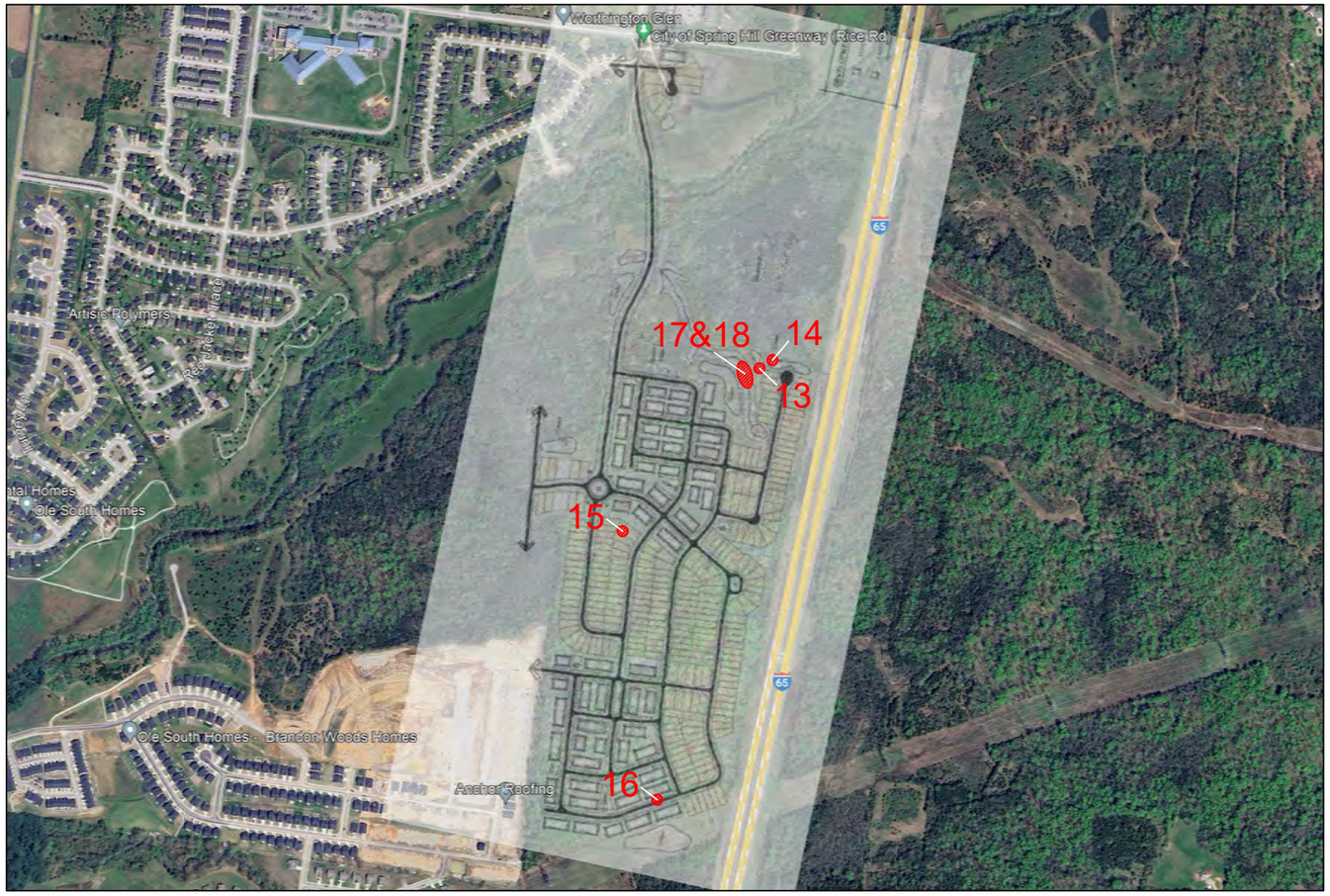


Photo: 18

Photo: 17

Photo: 13

Photo: 14

Photo: 15

Photo: 16

Notes:

1) Site Source Provided by: Client
2) Aerial Provided by: Google Earth Pro, (2023)

UES

Representative Photos
Proposed Stone Creek
Spring Hill, Tennessee

DATE: 01/05/2024

UES Project No. 31-241212

FIGURE: 6

N

Photo: 19

Photo: 20

Representative Photos
Proposed Stone Creek
Spring Hill, Tennessee

DATE: 01/05/2024

UES Project No. 31-241212

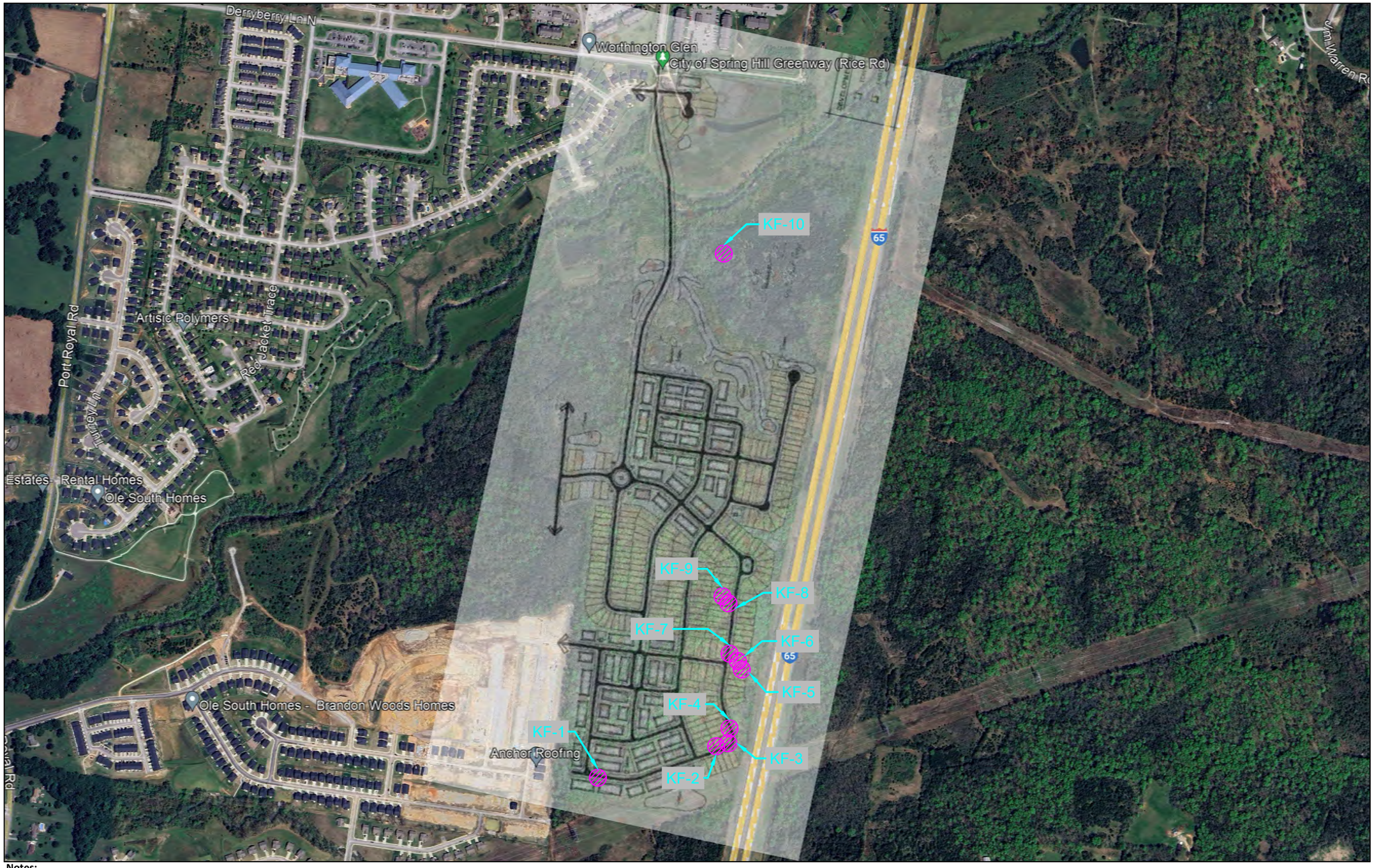
FIGURE: 7

Notes:

1) Site Source Provided by: Client
2) Aerial Provided by: Google Earth Pro, (2023)

APPENDIX D

UNIVERSAL
ENGINEERING SCIENCES



Notes:

1) Site Source Provided by: Client
2) Aerial Provided by: Google Earth Pro, (2023)
3) Karst Feature Locations are shown in general arrangement only
4) Do Not use Karst Feature Locations for determinations of Distance or Quantities

Karst Feature Location & Identifier

UES™

Karst Faeture Location Plan
Proposed Stone Creek
Spring Hill, Tennessee

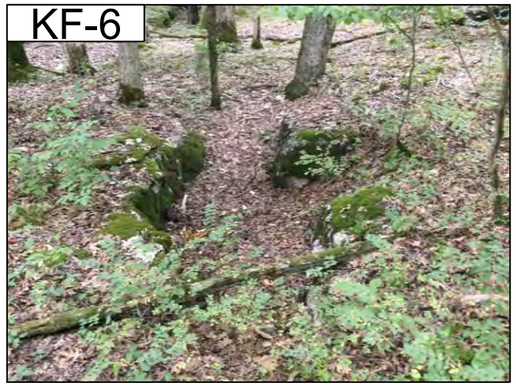
DATE: 08/05/2024

UES Project No. 31-241437

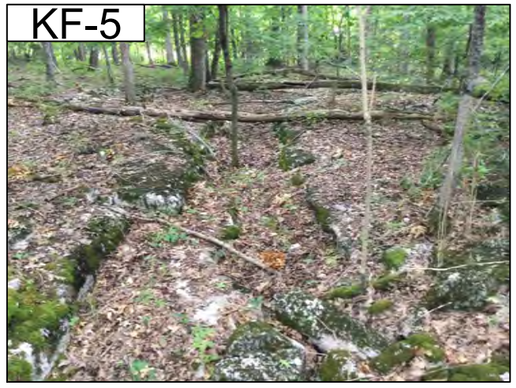
FIGURE: 8

N

KF-6



KF-5

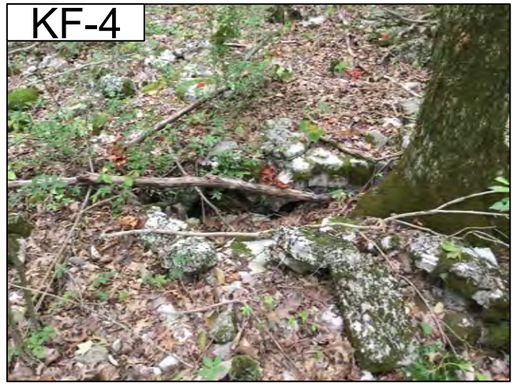


KF-1

KF-2

KF-3

KF-4



Notes:

1) Site Source Provided by: Client
2) Aerial Provided by: Google Earth Pro, (2023)

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Representative Photos
Proposed Stone Creek
Spring Hill, Tennessee

DATE: 01/05/2024

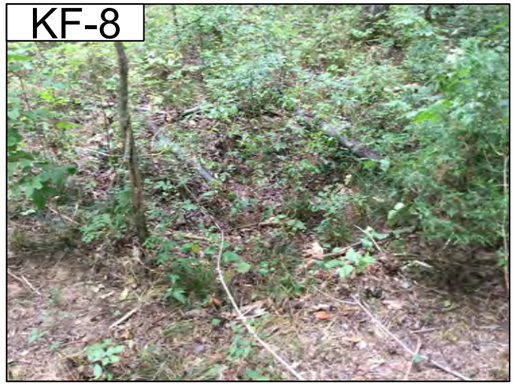
UES Project No. 31-241212

FIGURE: 9

N

KF-7

KF-8



KF-9

KF-10

Notes:

1) Site Source Provided by: Client
2) Aerial Provided by: Google Earth Pro, (2023)

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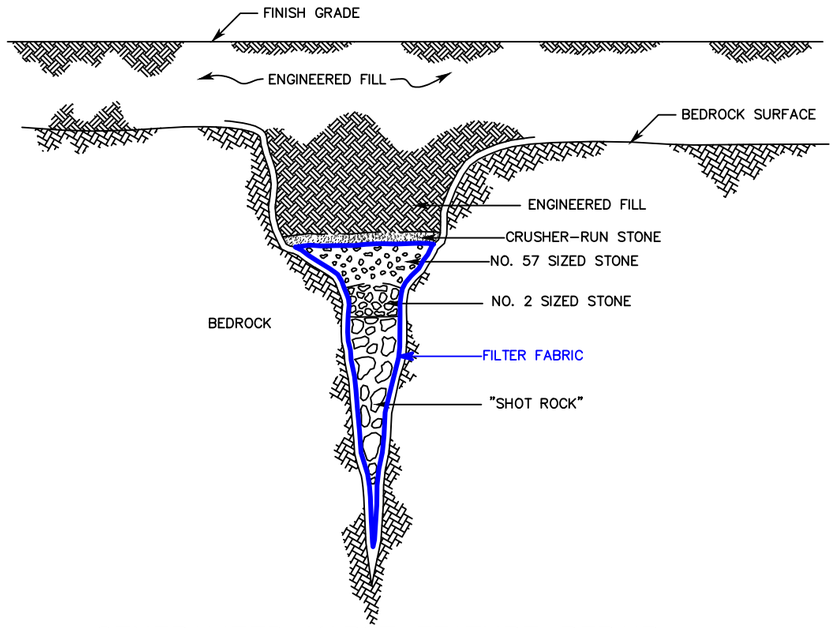
Representative Photos
Proposed Stone Creek
Spring Hill, Tennessee

DATE: 01/05/2024

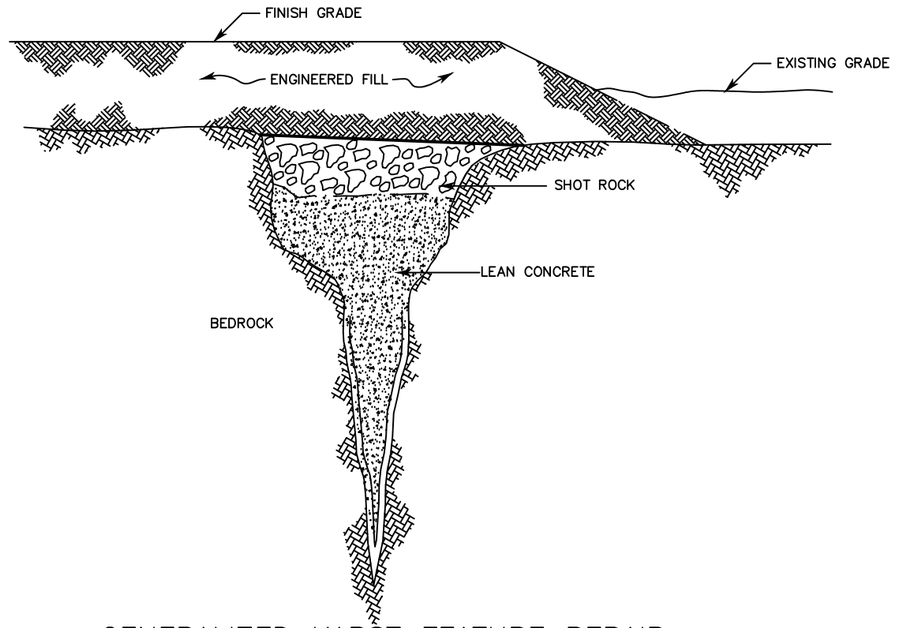
UES Project No. 31-241212

FIGURE: 10



GENERALIZED KARST FEATURE REPAIR

FOR USE IN NON–BUILDING AREAS



GENERALIZED KARST FEATURE REPAIR

FOR USE IN BUILDING AREAS

ACTUAL DIMENSIONS OF EXCAVATION AND VOLUMES
OF BACKFILL MATERIAL WILL BE BASED ON THE GEOTECHNICAL
ENGINEERS FIELD OBSERVATIONS DURING THE REPAIR

UES

Typical Karst Feature Repair Detail
Proposed Stone Creek
Spring Hill, Tennessee

DATE:
08/05/2024

UES Project No.
31-241437

FIGURE:
11

PHASE I ENVIRONMENTAL SITE ASSESSMENT
FOR
STONE CREEK DEVELOPMENT
PARCEL NO. 044 027.00 000, 044 027.03 000, 044 027.04 000
DERRYBERRY LANE & RICE ROAD
SPRING HILL, MAURY COUNTY, TENNESSEE

Prepared For:

FREEHOLD COMMUNITIES®

Freehold Communities, Nashville
783 Old Hickory Blvd. Suite 240
Brentwood, TN 37027

Prepared by:

GEOServices, LLC-Geotechnical and Materials Engineers
A UES COMPANY

GEOServices, LLC
91 South Eastgate Court
Lebanon, Tennessee 37090

January 15, 2024

GEOServices' Project No.: 34-231889

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APPENDIX I ..... RESUMES

1.0 SUMMARY

At the request of Freehold Communities, Nashville (User or Client), GEOServices, LLC (GEOServices) has performed a Phase I Environmental Site Assessment (ESA) in accordance with ASTM E1527-13, *Standard Practice for Environmental Site Assessments*: *Phase I Environmental Site Assessment Process* for the Stone Creek Development, comprised of an approximately 154-acre area of land located southeast of Derryberry Lane and Rice Road in Spring Hill, Maury County, Tennessee (herein referred to as subject property or site). The Site Location Map **(Figure 1)** and the Site Plan **(Figure 2)** for the subject property are presented in **Appendix A**. According to information obtained from the Maury County Assessor of Property (https://www.maurycounty-tn.gov/203/Assessor), and Tennessee Property Viewer (https://assessment.cot.tn.gov/TPAD/) websites the subject property consists of three parcels: 044 027.00 000 (109 acres), 044 027.03.000 (19.78 acres), and 044 027.04 000 (24.63 acres).

This Phase I ESA describes conditions observed on the subject property; assesses information gathered from historical sources, the User, environmental regulatory databases, and owner and/or occupant and government official interviews; and provides the GEOServices conclusions and opinions regarding any necessity of additional environmental investigation.

2.0 INTRODUCTION

2.1 Subject Property Description and Location

The subject property consists of three parcels of land (044 027.00 000, 044 027.03 000, and 044 027.04 000) totaling approximately 154-acres, which are located southeast of Derryberry Lane and Rice Road in Spring Hill, Maury County, Tennessee. The subject property is located in a primarily residential and wooded undeveloped land. The subject property is shown on the United States Geologic Survey (USGS) 7.5-Minute Series, *Carters Creek with the Rally Hill*, topographic quadrangle, dated 2022 **(Figure 1, Appendix A)**. Coordinates for the approximate center of the subject property are Latitude 35.7156250° and Longitude -86.8815470°.

At the time of the site reconnaissance, the subject property was wooded undeveloped land. The property boundaries were derived from conversations with the User, a User-provided site survey, and parcel information from the online parcel database. A more detailed description of the subject property is provided in **Section 5.0**. The Site Plan showing the features on the subject property is included in **Appendix A** as **Figure 2**. Photographs of the subject property are included in **Appendix B**.

2.2 Purpose and Objectives of Assessment

The purpose of this Phase I ESA is to identify, to the extent feasible pursuant to the processes described herein, *recognized environmental conditions* (RECs) in connection with the subject property and in accordance with ASTM E1527-13, *Standard Practice for Environmental Site Assessments*: *Phase I Environmental Site Assessment Process.*

The term *recognized environmental condition* is defined by ASTM E1527-13 as "the presence or likely presence of any *hazardous substances* or *petroleum products* in, on, or at a *property*: (1) due to any *release* to the *environment*; (2) under conditions indicative of a *release* to the *environment*; or (3) under conditions that pose a *material threat* of a future *release* to the *environment*. De minimis conditions are not *recognized environmental conditions*." *De minimis conditions* are defined by E1527-13 as "a condition that generally does not present a threat to human health or the *environment* and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies."

2.3 Scope of Work

The approach to performing this ESA consisted of four major tasks in accordance with ASTM E1527-13, and correspondence with the Client. These tasks consisted of records reviews, a site reconnaissance, interviews, and report preparation. These tasks involve:

Task 1 A review of reasonably ascertainable and practically reviewable public records for the subject property and the immediate vicinity was conducted. This review was performed to characterize environmental features of the subject property and to identify past and present land use activities on or in the vicinity of the subject property which may indicate a potential for recognized environmental conditions. The review of the public record included:

- Examination of public records made available to GEOServices regarding past, present, and pending enforcement actions and investigations at the site and within the immediate vicinity.
- Examination of one or more of the following resources: aerial photographs, fire insurance maps, street directories, and topographic maps of the subject property and vicinity for evidence suggesting past uses that might have involved hazardous substances or petroleum products.

Task 2 A site reconnaissance was performed to identify visual signs of past or existing contamination on or adjacent to the subject property. This reconnaissance was also performed to evaluate any evidence found in the public record review which might indicate activities resulting in hazardous substances or petroleum products being used or deposited on the site. The subject property reconnaissance included the following activities:

- A visual reconnaissance of the subject property and adjacent properties was performed to observe signs of spills, stressed vegetation, buried waste, underground or aboveground storage tanks, transformers, or unusual soil discoloration which may indicate the possible presence of contaminants on the properties.
- The periphery of the property was viewed and a walk-through of accessible areas of the subject property was conducted.
- Areas of the subject property were photographed to document the current use(s) of the property as well as significant conditions such as unusually discolored soil, stressed vegetation, or other significant features associated with the property.

Task 3 The appropriate local government officials were contacted regarding local knowledge of hazardous substances or petroleum products on the subject property or on adjacent properties. The

property owner was interviewed (if provided) regarding their knowledge of the property's history and environmental issues.

Task 4 The collected data was evaluated, and this report was prepared.

2.4 Significant Assumption

In completing this Phase I ESA, GEOServices assumed: honest responses from individuals interviewed, the validity and completeness of data from outside sources, and that ground water flows in the general direction of the surface topography. If the aforementioned assumptions were questioned by GEOServices during the completion of the Phase I ESA, these concerns are addressed in the pertinent sections of this report.

2.5 Limiting Conditions, Deviations, and Exceptions

This report presents an assessment of the existing and past environmental conditions at the subject property based on site conditions at the time of the evaluation and available public information. Should the conditions change or differ from the conditions detailed in this report, GEOServices requests to be contacted immediately so that the change can be properly reviewed, and the report be amended accordingly, if necessary.

Generally, information obtained from the public records and from interviews is reliable. However, GEOServices cannot warrant or guarantee that information provided is complete or accurate. In the event responses requested by GEOServices from public agencies are provided to GEOServices following the completion of the report, they will be forwarded to the Client in the form received for evaluation by the Client.

The provided conclusions regarding the conditions of the subject property do not represent a warranty that all areas within the subject property area are of the same quality as may be inferred from observable site conditions and readily available site history. Furthermore, GEOServices developed an opinion, based on professional judgment, regarding the potential presence or absence of RECs that may be present at the site. This assessment is not designed to provide comprehensive data accumulation, chemical or radiological analyses, or inferences as to surface/subsurface soil contamination, the conditions of surface

and groundwater at the site unless documented information is available. This assessment was performed in an initial attempt to identify future issues that may occur at the site and may impede development of the site due to RECs as defined by ASTM E1527-13. Conclusions drawn from the results of this report should recognize the limitations of the methods used.

The ASTM Standard Method E1527-13 requires the identification of limiting conditions, deviations, and exceptions to the standard. This report was prepared in general accordance with ASTM Standard Method E1527-13, and correspondence with the Client for this site with no limitations, except for the following:

- Property size and dense vegetation

2.6 Special Terms and Conditions

This report is provided for the sole use of the Client. Use of this report by any third parties will be at such parties' sole risk and GEOServices disclaims liability for any use or reliance by third parties.

2.7 User Reliance

The Environmental Professional hereby certifies that this Phase I ESA has been conducted in accordance with ASTM Standard Practice E1527-13. This Phase I ESA has been prepared for the sole use of the Client. This Phase I ESA should not be relied upon by other parties without the express written consent of GEOServices and the Client.

3.0 USER PROVIDED INFORMATION

Per ASTM E1527-13, the User is required to perform specific tasks that will aid in the identification of RECs in connection with the subject property in order to qualify for the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) liability protection. It is the responsibility of the User to complete the User Questionnaire provided for the subject property. The User completed the Questionnaire by the issuance of this report. A copy of the User Questionnaire is included in **Appendix C.**

3.1 Title Records

A title search was not performed by GEOServices as part of this assessment, nor provided by the User for review.

3.2 Environmental Liens or Activity and Use Limitations

The User was unaware of any environmental liens or activity use limitations associated with the subject property.

3.3 Specialized Knowledge

The User stated that the subject property is wooded land with no current use.

3.4 Commonly Known or Reasonably Ascertainable Information

The User was unaware of any commonly known or reasonably ascertainable information about the subject property, including but not limited to any spills or other chemical releases that have taken place on the property and environmental cleanups that have taken place on the property.

3.5 Valuation Reduction for Environmental Issues

The User indicated the purchase price reasonably reflected the fair market value of the subject property.

3.6 Owner, Property Manager, and Occupant Information

The current owner is listed as City of Spring Hill Tennessee and Crestwood Partners LLC according to the

online parcel databases for the Maury County Property Assessor (https://www.maurycounty-tn.gov/203/Assessor) and the Tennessee Property Assessors (https://assessment.cot.tn.gov/TPAD/).

3.7 Reason for Performing Phase I ESA

It GEOServices understanding that this report is for the sole purpose of providing an environmental evaluation for the subject property.

3.8 Other Environmental Information

No additional environmental information was provided.

4.0 RECORDS REVIEW

GEOServices subcontracted Environmental Data Resources Inc. (EDR) to conduct a search of standard environmental record sources published by State, Federal, and Tribal regulatory agencies. It should be noted that regulatory listings include only those sites that are known to the regulatory agencies to be contaminated, in the process of evaluation for potential contamination, or regulated at the time of publication. GEOServices reviewed the results of the EDR Database Report with database search to determine if the subject property or nearby properties are listed as having a past or present record of actual or potential environment impact. The EDR Database Report is included in **Appendix D**. The databases consulted from the EDR database service for this assessment include the following:

4.1 Standard Environmental Record Sources

National Priority List (NPL)

Proposed NPL Sites (Proposed NPL)

Federal Superfund Liens (NPL LIENS)

National Priority Listing Deletions (Delisted NPL)

Federal Facility Site Information Listing (FEDERAL FACILITY)

Superfund Enterprise Management System (SEMS)

Superfund Enterprise Management System Archive (SEMS-ARCHIVE)

Corrective Action Report (CORRACTS)

RCRA – Treatment, Storage, and Disposal (RCRA-TSDF)

RCRA – Large Quantity Generators (RCRA-LQG)

RCRA – Small Quantity Generators (RCRA-SQG)

RCRA – Very Small Quantity Generators (RCRA-VSQG)

Land User Control Information System (LUCIS)

Engineering Controls Sites List (US ENG CONTROLS)

Institutional Controls Sites List (US INST CONTROLS)

Emergency Response Notification System (ERNS)

List of Inactive Hazardous Substance Sites

Solid Waste Disposal Facilities (SWF/LF)

Leaking Underground Storage Tank Database Listing (LUST)

Leaking Underground Storage Tanks on Indian Land (INDIAN LUST)

LUST TRUST Fund Database (LUST TRUST)

Leaking Underground Storage Tanks Sites (HIST_LUST CO)

Underground Storage Tank Listing (FEMA UST)

Facility and Tank Report (UST)

Aboveground Storage Tanks (AST)

Underground Storage Tanks on Indian Land (INDIAN UST)

Engineering Control Sites (ENG CONTROLS)

Institutional Control Sites (INST CONTROLS)

Voluntary Cleanup Priority Listing (INDIAN VCP)

State Remediation Program List (SRP)

Voluntary Cleanup, Oversight and Assistance Program Sites (VCP)

Superfund VOAP Listing (BROWNFIELDS)

4.2 Additional Environmental Record Sources

A Listing of Brownfields Sites (US BROWNFIELDS)

Recycling Facilities (SWRCY)

Report on the Status of Open Dumps of Indian Lands (INDIAN ODI)

Open Dump Inventory (ODI)

Torres Martinez Reservation Illegal Dump Site Locations (DEBRIS REGION 9)

Open Dumps on Indian Land (HIS OPEN DUMPS)

Delisted National Clandestine Laboratory Register (US HIST CDL)

Registry of Contaminated Properties (CDL)

DCERP Remediation Sites Listing (PRIORITYCLEANERS)

Deleted State Hazardous Waste Sites (DEL SHWS)

National Clandestine Laboratory Register (US CDL)

PFAS Contamination Site Location Listing (PFAS)

Underground Storage Tank Database (HIST UST)

Liens Information (LIENS)

CERCLA Lien Information (LIENS 2)

Hazardous Materials Information Reporting System (HMIRS)

State Spills (SPILLS)

RCRA-Non Generators / No Longer Regulated (RCRA NonGen / NLR)

Formerly Used Defense Sites (FUDS)

Department of Defense Sites (DOD)

State Coalition for Remediation of Dry Cleaners Listing (SCRD DRYCLEANERS)

US Financial Assurance (US FIN ASSUR)

EPA Watch List (EPA WATCH LIST)

2020 Corrective Action Program List (2020 COR ACTION)

Toxic Substances Control Act (TSCA)

Toxic Chemical Release Inventory System (TRIS)

Section 7 Tracking Systems (SSTS)

Records of Decision (ROD)

Risk Management Plans (RMP)

RCRA Administrative Action Tracking System (RAATS)

Potentially Responsible Parties (PRP)

PCB Activity Database System (PADS)

Integrated Compliance Information System (ICIS)

FIFRA/TSCA Tracking System-FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/ TSCA (Toxic Substances Control Act) (FTTS)

Material Licensing Tracking System (MLTS)

Coal Combustion Residues Surface Impoundments List (COAL ASH EPA)

Steam-Electric Plan Operation Data (COAL ASH DOE)

PCB Transformer Database Registration (PCB TRANSFORMER)

Radiation Information Database (RADINFO)

FIFRA/TSCA Tracking System Administrative Case Listing (HIST FTTS)

Incident and Accident Data (DOT OPS)

Superfund (CERCLA) Consent Decrees (CONSENT)

Indian Reservations (INDIAN RESERV)

Formerly Utilized Sites Remedial Acton Program (FUSRAP)

Uranium Mill Tailings Sites (UMTRA)

Lead Smelter Sites (LEAD SMELTERS)

Aerometric Information Retrieval System Facility Subsystem (US AIRS)

Mines Master Index File (US MINES)

Abandoned Mines (ABANDONED MINES)

Facility Index System/Facility Registry System (FINDS)

Unexploded Ordnance Sites (UXO)

Hazardous Waste Compliance Docket Listing (DOCKET HWC)

Enforcement & Compliance History Information (ECHO)

EPA Fuels Program Registered Listing (FUELS PROGRAM)

Listing of Permitted Sources (AIRS)

Registered Facilities List (DRYCLEANERS)

Lead Safe Housing Registry (LEAD)

Permitted Facility Listing (NPDES)

Vapor Intrusion (VAPOR)

Mineral Resources Data System (MINES MRDS)

4.3 Summary of Database Information

Some of the surrounding properties were identified in the databases reviewed as part of this Phase I ESA. For the purposes of this report, only those sites that are judged to present a potential environmental risk to the subject property and/or warrant additional clarification are further evaluated. GEOServices considered the following factors in determining which sites found in the regulatory database report are suspected to present an environmental risk to the subject property:

- Type of database for the site;
- Status of any investigations conducted on the site;
- Topographic position of the site relative to the subject property;
- Known or inferred groundwater flow direction in the subject property area;
- Distance of the site from the subject property; or

  Surface and subsurface obstructions and diversions between the site and the subject property (resulting in potential hydrologic barriers or preferential pathways depending on the situation).

Based upon a review of readily available information contained in the regulatory database report, GEOServices did not identify adjoining or nearby listings in the regulatory database reports that were judged to present a potential environmental risk.

Unplottable Sites

GEOServices also reviewed the list of orphan/unmappable sites in the EDR database report for facilities within the ASTM minimum search distances. Two listings were reported in the orphan site database. Neither of these listings are considered to be suspected RECs for the subject property.

4.4 Physical Source Setting

GEOServices reviewed the GEOCHECK – physical setting source summary and most current USGS topographic map depicting the subject property and surrounding area **(Figure 1, Appendix A)**. According to the USGS 7.5-Minute Series, *Carters Creek with the Rally Hill* (2022), topographic, the subject property has an approximate elevation of 680 feet above mean sea level on the northern portion and 760 feet above mean sea level on the southern middle portion.

According to the USGS 7.5-Minute Geologic Map Series, *Carters Creek with the Rally Hill*, Quadrangle dated 2022, the subject property is located in the Central Basin Physiographic Province and the underlying bedrock consists of the Ordovician-aged Stones River Group (which includes Lebanon Limestone). The thickness of the lithologic units within the formation are approximately 80 feet to 100 feet.

4.5 Historical Use Information on the Property and Adjoining Properties

Historical sources were consulted to determine the previous uses of the subject property and surrounding area, which was used to evaluate the likelihood that past uses have resulted in RECs on the subject property. GEOServices attempted to identify obvious uses of the subject property from the present to the first developed use of the subject property. This requires reviewing only as many sources as are necessary to meet the objective and only those records that are reasonably ascertainable and likely to be useful.

4.5.1 Historical Aerial Photographs

Historical aerial photographs for the subject property were ordered from EDR. The following photographs

were available for the subject property: 1953, 1958, 1964, 1975, 1979, 1981, 1992, 1999, 2007, 2010, 2014, and 2018. A copy of the aerials is included in **Appendix E**. Additionally, Google Earth imagery (https://earth.google.com/web/@35.71643983,-86.88999919,205.18869571a,3862.99305574d,35y,0.00129188h,16.92200894t,0.00009718r/data=OgMKATA) was reviewed for the subject property for the years 1985, 1997, 2006, 2007, 2008, 2010, 2011, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, and 2023.

Based on the oldest historical 1953 aerial photograph, the subject property consisted of agricultural land with a drainage feature on the northern portion, and densely wooded land on the central and southern portions. Little to no significant changes were observed between 1953 and 1992. By 1999, the wooded land on the central to northern portion had become less dense in wooded coverage. Little to no significant changes were observed between 1999 and 2007. By 2010, a utility clearing was observed on the southeastern portion of the subject property. Little to no significant changes were observed between 2010 and 2014. By 2018, a clearing comprising with dirt stockpiling was observed on the northwest portion of the subject property and is suspected to have originated from the west adjacent residential housing construction. According to Google Earth imagery, by 2019, a dirt access roadway was observed on the northwest corner of the subject property. By 2021, the dirt access road on the northwest portion of the subject property had extended further south and the dirt stockpiling first observed in the 2018 aerial photograph was no longer observed. A small access roadway was observed on the northwest and northern portions of the subject property. No significant changes were observed between 2021 and 2023.

Based on the 1953 aerial photograph, the adjacent properties and surrounding area appeared to be primarily agricultural and wooded land. Scattered residential building structures were observed in the western and northern vicinities. Little to no significant changes were observed between 1953 and 1958. By 1964, roadway development (present day Interstate 65) was observed adjacent to the east of the subject property. By 1975, a pond was observed in the western vicinity. Little to no significant changes were observed between 1975 and 1992. By 1999, roadway and residential development activities were observed in the southeast vicinity. By 2007, residential developments were observed in the northern and western vicinities of the subject property. Additionally, an elementary school structure was developed to the west of the subject property. By 2010, roadway developments were depicted adjacent to the north, while additional residential developments were observed in the western vicinity. By 2014, additional residential developments activities were observed in the northwestern, and western vicinities. By 2018,

additional residential developments were observed adjacent to the north and west. According to Google Earth imagery, little to no significant changes were observed from 2018 to 2019. By 2021, residential developments were observed adjacent to the west of the southern portion of the subject property. By 2022, further additional residential development activities were observed adjacent to the west of the southern portion of the subject property. Little to no significant changes were observed between 2022 and 2023.

4.5.2 Fire Insurance Maps

Fire insurance maps have been produced in many urban areas since the late 1800's and were used to assess fire hazards. GEOServices reviews these maps to document the historical use of the subject property and surrounding area. There were no fire insurance maps for the subject property or surrounding area.

4.5.3 Property Tax Files

GEOServices searched for reasonably ascertainable tax files from the Maury County Tax Assessors website for historical ownership information pertaining to the property and none were found.

4.5.4 Recorded Land Title Records

The recorded land title records were not reasonably ascertainable for the subject property; therefore, they were not reviewed as part of this Phase I ESA.

4.5.5 USGS Topographic Maps

Historical topographic maps for the subject property were obtained from EDR for 1936, 1941, 1947, 1965/1967, 1981/1982, 2013, 2016, 2019, and 2022. The topographic maps are included in **Appendix F**.

Review of the 1936 historical topographic maps depicted the subject property as densely wooded with access roads on the northern and middle portions of the subject property. Additionally, three (3) occupied structures and Rutherford Creek were depicted on the northern portion of the subject property. By 1941, only two (2) occupied structures were depicted on the northern portion of the subject property. A utility easement was observed on the southeastern portion of the subject property. The 1947 topographic map

depicted the subject property on an "Unmapped" portion of the map. By 1965/1967 no occupied structures were depicted on the subject property. Little to no significant changes were observed between 1967 and 2022.

Review of the 1936 topographic maps depicted the surrounding area as densely wooded land with access roads and creeks to the north, east, and west. Scattered building structures were observed along the roadways. Little to no significant changes were observed between 1936 and 1941. The 1947 topographic map was mostly "Unmapped". By 1965/1967, a highway development (Interstate 65) was depicted adjacent to the east of the subject property. Childress cemetery was depicted adjacent to the northeast of the subject property across Interstate 65. Disturbed areas were observed to the eastern vicinity approximately 0.25 miles to 1.0 miles away. Little to no significant changes were observed between 1967 and 1982. By 2013, highway development (Interstate 396) was observed in the northwestern vicinity. Additional roadway developments were observed to the north, west, and northwest. Little to no significant changes were observed between 2013 and 2019. By 2022, residential roadway development activities were depicted adjacent to the north and west of the subject property.

4.5.6 Local Directories

City directories have been produced since the late 1800's and were produced by various companies for use by municipalities and private businesses. Historical city directories are often archived as reference documents. City directories were obtained for the subject property and surrounding area from EDR Digital Archive and Cole Information Services for the years 2010, 2014, 2017, and 2020. The City Directory Standard Report is included as **Appendix G**.

The subject property has no associated address and was not listed in the City Directories. The adjacent property to the north (1000 Revere Place) was not listed in the City Directories. The other adjacent property to the north (3470 Clegg Drive) was not listed in the City Directories. The adjacent property to the east (3473 Jim Warren Road) was not listed in the City Directories. The other adjacent properties to the east had no associated addresses and were not listed in the City Directories. The adjacent property to the south had no associated address and was not listed in the City Directories. The adjacent properties to the west (2149 and 2150 Longhunter Chase Drive) were listed in the City Directories as residential (2020). The other adjacent properties to the west had no associated addresses and were not listed in the

City Directories. The surrounding area along Longhunter Chase Drive were listed as residential properties. There were no listings of concern in the City Directories.

4.5.7 Environmental Liens or Activity and Use Limitations

An environmental lien or Activity and Use Limitation (AUL) search was not provided nor requested by the Client to be performed by GEOServices. The ASTM Standard Practice E 1527-13 requires an environmental lien search be conducted by the client (User) and provided to the environmental professional (GEOServices) if an environmental lien or AUL exists for the subject property. The search is best performed by the title company. The presence or absence of environmental liens on the subject property should be identified prior to the purchase of the subject property.

5.0 SITE RECONNAISSANCE

5.1 Methodology and Limiting Conditions

GEOServices conducted a site visit of the subject property and a reconnaissance of the surrounding areas (**Table 3)**. The purpose of the reconnaissance was to observe drainage patterns, vegetation patterns, discoloration, surrounding land use and other visual aspects that may indicate the likelihood of identifying RECs in connection with the subject property.

Table 3: Reconnaissance Information

GEOServices Field Personnel	Ms. Alexis Tracy
Site Reconnaissance Date:	January 4, 2024
Weather Conditions:	Sunny and Cool
Escort:	None
Limiting Conditions:	Dense vegetation, property size

5.2 General Site Setting

The subject property consists of three parcels of land (044 027.00 000, 044 027.03 000, and 044 027.04 000) totaling approximately 154-acres, which are located southeast of Derryberry Lane and Rice Road in Spring Hill, Maury County, Tennessee. The subject property is located in a primarily residential and wooded undeveloped land. Site drainage across the area appears to follow general site topography and flow from the central portion of the subject property to the northwest towards Rutherford Creek, and radially from the southern portion of the subject property.

5.3 Subject Property Observations

5.3.1 Exterior & Interior

At the time of the site reconnaissance, the subject property was undeveloped densely wooded land. The subject property was accessed via Derryberry Lane North to the north and from the electrical utility

clearing on the southeastern portion of the subject property. Overall, surface water appeared to generally flow from the central portion to the northeast, and radially from the southern portion.

At the time of the site visit, the northern half of the subject property was grassy land with dirt and gravel ingresses on the northwestern portion. An area of staining was observed on the northern property boundary and was determined to be de minimis (see Appendix B, Site Photographs, photograph 11 for clarification). A sewer cover, fire hydrant, utility pole, natural gas pipeline markers, and natural gas infrastructure were observed along the northwest portion of the subject property boundary. Rutherford Creek was observed intersecting the northern half of the subject property in a west-to-easterly direction. The remainder of the subject property consisted of densely wooded land. Limestone outcrops were observed throughout the central portion of the wooded land on the subject property. An electrical utility easement was observed along the southeastern portion of the subject property.

Table 4 summarizes the site features observed on the subject property. The Site Plan, which shows the features of the subject property, is included in **Appendix A** as **Figure 2**. Photographs of the subject property are included in **Appendix B**.

Table 4: Site Feature Summary

Feature	Observed
Stressed Vegetation	No
Incidental Staining	**YES**
Transformers and/or Capacitors	No
Exterior Dumpsters	No
Leachate or Other Waste Seeps	No
Trash, Debris, and/or Other Waste Materials	No
Uncontrolled Dumping or Disposal Areas	No
Strong, Pungent or Noxious Odors	No
Storm Water Retention or Detention Ponds	No
Pits, Ponds, Lagoons	No
Aboveground Storage Tanks (ASTs)	No
Drums, Barrels and/or Containers > 5 gallons	No
Underground Storage Tanks (USTs)	No
Suspected Water Well	No
Suspected Septic Tank	No

5.4 Adjoining Properties Observations

The areas adjacent to the subject property were visually assessed during the site visit. The following provides a description of adjacent properties.

North

The subject property is bound to the northwest by Derryberry Lane North and Rice Road, followed by residential properties. The properties appeared to be generally up-gradient of the subject property.

South

The subject property is bound to the south by an electrical utility easement followed by undeveloped land. The properties appeared to be generally down-gradient of the subject property.

East

The subject property is bound to the east by Interstate 65, followed by an electrical utility easement and undeveloped wooded land. The property appeared to be generally cross-gradient to up-gradient of the subject property.

West

The subject property is bound to the west by undeveloped wooded land followed by residential developments. The properties appeared to be generally down-gradient of the subject property.

6.0 INTERVIEWS

6.1 Interview with Owner

According to the online parcel database and the Maury County Property Assessor website, the current owner is listed as City of Spring Hill Tennessee and Crestwood Partners LLC. No owner contact information was provided by the Client. GEOServices was unable to contact the current property owner prior to the completion of this report.

6.2 Interview with Site Manager

The site was vacant with no site manager at the time of the site visit.

6.3 Interviews with Occupants

The site was vacant with no occupants available for interview at the time of the site visit.

6.4 Interviews with Local Government Officials

GEOServices contacted the local Maury County Fire Department on December 20, 2023, regarding any emergency responses or hazardous material responses to the subject property. No records were found for the subject property.

6.5 Interviews with Others

No others were interviewed for this report.

7.0 EVALUATION

7.1 Findings and Opinions

Based on the results of the Phase I ESA, GEOServices offers the following findings and opinions regarding de minimis conditions, Recognized Environmental Conditions (RECs), Controlled RECs (CRECs), and Historical RECs (HRECs) for the subject property.

7.1.1 De Minimis Conditions

The following suspected de minimis conditions were observed for the subject property.

- Minor incidental staining from suspected used oil
- Possible buried debris

All de minimis conditions should be properly managed in accordance with all local, state, and federal regulations.

Minor Incidental Staining

A stained area comprising of approximately 2 feet by 3 feet was observed near the greenway on the northern property boundary. The staining should be managed and disposed of in accordance with all Federal, State, and local regulations.

Possible Buried Debris

Typically, buried debris, or existing fill material may be discovered during construction/excavation activities for any future development. This may include abandoned septic tank(s) and/or heating oil tank(s). It should be noted that if unusual staining, odors, or debris are encountered in any existing fill material/soils or soil piles during future site development, the material should be properly characterized, managed, and disposed in accordance with all Federal, State, and local regulations. The owner should be aware of these possibilities and prepared to address mitigation options with the environmental professional of record. If any USTs are encountered, contact GEOServices immediately.

7.1.2 Known or Suspected RECs, CRECs, and HRECs

Based upon a review of readily available information contained in the regulatory database report, GEOServices did not identify listings in the regulatory database report that were considered to be a suspected REC associated with the subject property.

Furthermore, no RECs, CRECs, or HRECs were identified for the subject property from the findings of this report.

7.2 Conclusions

GEOServices has completed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Standard Practice E1527-13 of the subject property referenced as Stone Creek Development which is located southeast of Derryberry Lane and Rice Road in Spring Hill, Maury County, Tennessee. Any exceptions to, or deletions from, this practice are described in **Section 2.5** of this report.

This assessment has revealed no evidence of RECs, CRECs, or HRECs associated with the subject property. All de minimis conditions identified in **Section 7.1.1** should be properly managed in accordance with all federal, state, and local regulations.

In addition, vapor encroachment/intrusion is not a concern for the subject property.

The conclusions presented herein are based solely on the information obtained during the activities performed as outlined in our scope of services for this project. Please note that GEOServices does not comment on items that are outside the scope of the ASTM Standard Practice E1527-13 Phase I ESA, such as wetland and stream determinations, asbestos-containing material surveys, lead-based paint surveys, radon, etc.

7.3 Additional Investigations

No additional investigations are recommended at this time.

7.4 Data Gaps

The ASTM Standard Method E1527-13 requires the identification of data gaps, along with actions taken to address these gaps, and an opinion as to whether these gaps are significant. Information sources at intervals greater than five years between sources from the present to 1940 or the first developed land use, whichever is earlier, can be considered a data gap. In addition, a lack of or the inability to obtain information required by the ASTM Standard (i.e., site reconnaissance or interview with the owner/key site manager) may constitute a data gap. This report is prepared in general accordance with GEOServices proposal provided for this site, with the following gaps:

- No historical tax maps were available for the project site; however, an aerial photograph, topographic map, fire insurance maps, and/or city directory were available for the years 1936, 1941, 1947, 1953, 1958, 1964, 1965/1967, 1975, 1979, 1981/1982, 1992, 1999, 2007, 2010, 2013, 2014, 2016, 2017, 2018, 2019, 2020, and 2022.
- No owner interview.

Given the history of the subject property, observations made during the site reconnaissance, and review of historical data, the above data gaps are not expected to significantly affect the determination of the presence or absence of RECs for the subject property. If additional information becomes available, the presence of RECs at the subject property will be reevaluated and an addendum to this Phase I ESA prepared as deemed necessary. Conclusions drawn from the results of this report should recognize the limitations of the methods used. Please note that GEOServices does not comment on items that are outside the scope of the ASTM Standard Practice E1527-13 Phase I ESA, such as wetland or stream determinations, lead-based paint, asbestos-containing materials, mold, radon, etc.

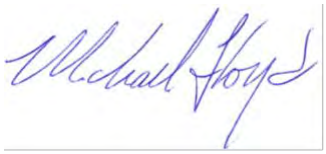
7.5 Environmental Professional Statement, Qualifications, and Signatures

We declare that, to the best of our professional knowledge and belief, we meet the definition of Environmental professional as defined in § 312.10 of 40 CFR 312. We have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting for the subject property. We have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312. Resumes of personnel responsible for completion of this document are provided in **Appendix H.**

Please direct questions or comments regarding this report to the undersigned at (865) 539-8242.

GEOServices, LLC

Alexis Tracy
Environmental Scientist



Michael K. Lloyd, P.G.
Environmental Department Manager

7.6 References

- American Society for Testing and Materials (ASTM), 2013. Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, ASTM Designation E 1527-13.
- Environmental Protection Agency, 40 CFR Part 312, *Federal Register*, Standards and Practices for All Appropriate Inquiries; Final Rule, Vol. 70, No. 210, November 1, 2005.
- Database Report, EDR, December 20, 2023.
- Historical Aerial Report, EDR, December 20, 2023.
- Historical Sanborn Maps, EDR, December 20, 2023.
- Historical Topographic Maps, EDR, December 20, 2023.
- Historical City Directory Report, EDR, December 21, 2023.

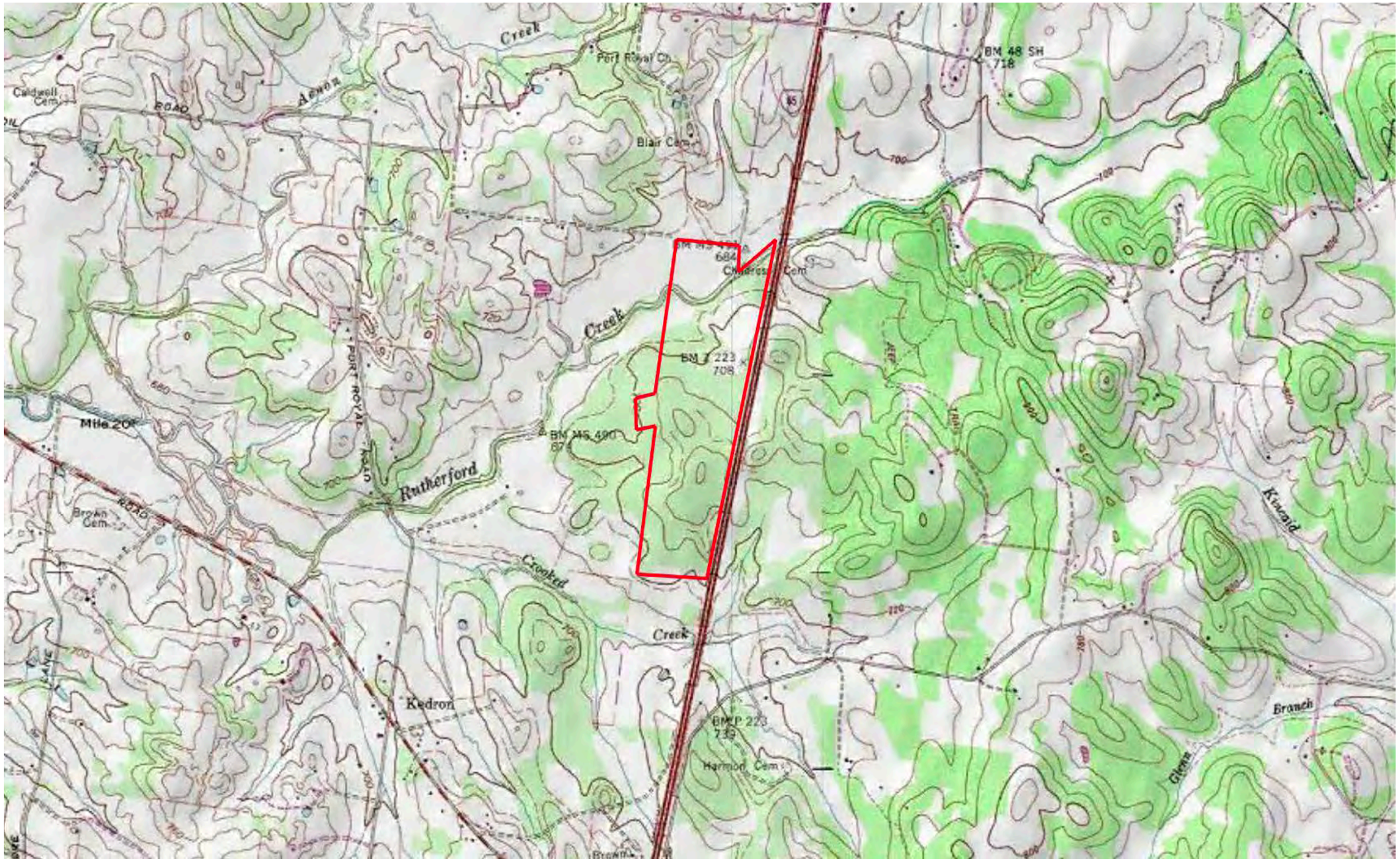
8.0 NON-SCOPE SERVICES

No additional non-scope services were conducted or requested by the client during this report.

APPENDIX A

Figures

N



Source Provided by: EarthPoint Topo
United States Geologic Survey (USGS) 7.5-Minute Series, *Carters Creek with the Rally Hill*, Tennessee (2022)

GEOS
EEEServices, LLC-Geotechnical and Materials Engineers
A UES COMPANY

Site Location Map
Stone Creek Development
Derryberry Lane & Rice Road Phase I ESA
Spring Hill, Tennessee

DATE:
01/08/2024

GEOS Project No.
34-231889

FIGURE:
1

Note:
Site boundary and features shown are approximate only.
Drawing composed from field notes and observations only.

Surface runoff direction.
Subject Property.

SCALE:	NTS
CHECKED BY:	MKL
DRAWN BY:	AT
DATE:	01-08-2024

GEOS
GEOServices, LLC-Geotechnical and Materials Engineers
A UES COMPANY
2651 Willow Point Way
Knoxville, Tennessee 37931
Phone: (865) 539-8242
Fax: (865) 539-8252

SITE PLAN
Stone Creek Development
Derryberry Lane & Rice Road
Spring Hill, Tennessee

JOB NO: 34-231889

2

APPENDIX B

Site Photographs

Photograph 1: View of the adjacent greenway path and apartment complex to the north of the subject property.

Photograph 2: View of the adjacent Interstate 65 to the east of the subject property.

Photograph 3: View of the adjacent undeveloped wooded land to the south of the subject property.

Photograph 4: View of the adjacent residential properties to the west of the subject property.

Photograph 5: View of the northwest corner of the subject property with a sewer cover, fire hydrant, utility pole, and natural gas pipeline markers.

Photograph 6: Zoomed view of the natural gas pipeline marker.

Photograph 7: View of natural gas infrastructure.

Photograph 8: View of the northwest portion of the subject property.

Photograph 9: View of the densely vegetated land on the northern middle portion of the subject property.

Photograph 10: View of mounding on the northwest portion of the subject property.

Photograph 11: View of a stained area on the northern portion of the subject property near the greenway, which is to be addressed as a de minimis condition.

Photograph 12: View of the northeastern portion of the subject property.

Photograph 13: View of Rutherford Creek on the northern middle portion of the subject property.

Photograph 14: View of the pathway on the southern middle portion of the subject property.

Photograph 15: Additional view of Rutherford Creek.

Photograph 16: View of the densely wooded land on the southern bank of the creek.

Photograph 17: View of the wooded land on the northern portion of the subject property.

Photograph 18: View of the electrical utility easement along the southern portion of the subject property.

Photograph 19: View of a limestone outcrop on the southern portion of the subject property.

Photograph 20: View of the densely wooded land on the southern portion of the subject property.

Photograph 21: View of limestone outcrops on the southern portion of the subject property.

Photograph 22: View of the densely wooded land on the southern middle portion of the subject property.

Photograph 23: View of the densely wooded land on the southern middle portion of the subject property.

Photograph 24: View of the densely wooded land on the southern middle portion of the subject property.

Photograph 25: View of the densely wooded land on the middle portion of the subject property.

Photograph 26: View of the densely wooded land on the middle portion of the subject property with limestone outcrops.

Photograph 27: View of the densely wooded land on the northern middle portion of the subject property.

Photograph 28: View of the densely wooded land on the northern middle portion of the subject property.

Photograph 29: View of the densely wooded land on the northern middle portion of the subject property.

Photograph 30: View of the densely wooded land on the northern middle portion of the subject property.

APPENDIX C

User Provided Information

GEOS
GEOServices, LLC-Geotechnical and Materials Engineers

ENVIRONMENTAL QUESTIONNAIRE FOR PHASE I ESAs

In order to qualify for one of the Landowner Liability Protections (LLPs) offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2002 (the "Brownfields Amendments"), the user must provide the following information (if available) to the environmental professional. Failure to provide this information could result in a determination that "all appropriate inquiry" is not complete. Reference 40 CFR Part 312.

Project Number:_____ Project Job Name: Stone Creek

Owner Information

Name: 360 TN 5H, LLC

Address: 783 Old Hickory Blvd. Suite 240

City, State, Zip: Brentwood, TN. 37027

Phone Number: (615) 405-3371 Email: TJF@FreeholdCM.com

1 – What is your relationship to the site?

☐ Owner ☑ Prospective Buyer ☐ Prospective Lender ☐ Other

2 – What is the current use of the property?

☐ Residential

☐ Commercial Please detail specific operations:

☐ Industrial Please detail specific operations: (Please use separate sheet if more room is needed)

☐ Agricultural

☑ Other: Wooded, no use

GEOS
GEOServices, LLC-Geotechnical and Materials Engineers

3 – Are you aware of commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases? For example, as owner:

(a) Do you know the past uses of the property? No

(b) Do you know of specific chemicals that are present or once were present at the property? No

(c) Do you know of spills or other chemical releases that have taken place at the property? No

(d) Do you know of any environmental cleanups that have taken place at the property? No

4 – Please detail any knowledge of current and/or previous ownership history. Attach any title records or chain of title information, if available

See attached

5 – Are you aware of any environmental liens or activity and land use limitations for the property? ☐ Yes ☑ No

If yes, please describe:

Has the title company been retained to check recorded land title records for environmental liens or activity and land use limitations? ☐ Yes ☑ No

Attach any title company records.

6 – Please detail any specialized knowledge you have regarding the subject site. Please include any information pertaining to site use history and environmental issues.

None that I know of.

GEOS
GEOServices, LLC-Geotechnical and Materials Engineers

7 – Are you aware of any valuation reduction in the purchase price of the subject site to account for environmental issues? ☐ Yes ☑ No

If yes, please describe. None

This questionnaire was completed by: Tom Foust

Title: Director of Real Estate Operations

Firm: Freehold Communities, Nashville

Address: 783 Old Hickory Blvd, Suite 240
Brentwood TN 37027

Phone #: 615-405-3371

Date: 12/19/2023

Signature: Tom Foust

APPENDIX D

Environmental Database Report

Derryberry Lane & Rice Road
Derryberry Lane & Rice Road
Spring Hill, TN 37174

Inquiry Number: 7525625.2s
December 20, 2023

The EDR Radius Map™ Report with GeoCheck®

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

TABLE OF CONTENTS

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Overview Map	2
Detail Map	3
Map Findings Summary	4
Map Findings	8
Orphan Summary	9
Government Records Searched/Data Currency Tracking	GR-1

GEOCHECK ADDENDUM

Physical Setting Source Addendum	A-1
Physical Setting Source Summary	A-2
Physical Setting Source Map	A-7
Physical Setting Source Map Findings	A-8
Physical Setting Source Records Searched	PSGR-1

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E1527 - 21), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E2247 - 16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E1528 - 22) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

DERRYBERRY LANE & RICE ROAD
SPRING HILL, TN 37174

COORDINATES

Latitude (North):	35.7156250 - 35° 42' 56.25''
Longitude (West):	86.8815470 - 86° 52' 53.56''
Universal Tranverse Mercator:	Zone 16
UTM X (Meters):	510714.3
UTM Y (Meters):	3952214.8
Elevation:	722 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	50022684 CARTERS CREEK, TN
Version Date:	2022
Southeast Map:	50022726 RALLY HILL, TN
Version Date:	2022

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20181012
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
DERRYBERRY LANE & RICE ROAD
SPRING HILL, TN 37174

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION

NO MAPPED SITES FOUND

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal NPL (Superfund) sites

NPL ---------- National Priority List
Proposed NPL ---------- Proposed National Priority List Sites
NPL LIENS ---------- Federal Superfund Liens

Lists of Federal Delisted NPL sites

Delisted NPL ---------- National Priority List Deletions

Lists of Federal sites subject to CERCLA removals and CERCLA orders

FEDERAL FACILITY ---------- Federal Facility Site Information listing
SEMS ---------- Superfund Enterprise Management System

Lists of Federal CERCLA sites with NFRAP

SEMS-ARCHIVE ---------- Superfund Enterprise Management System Archive

Lists of Federal RCRA facilities undergoing Corrective Action

CORRACTS ---------- Corrective Action Report

Lists of Federal RCRA TSD facilities

RCRA-TSDF ---------- RCRA - Treatment, Storage and Disposal

Lists of Federal RCRA generators

RCRA-LQG ---------- RCRA - Large Quantity Generators
RCRA-SQG ---------- RCRA - Small Quantity Generators
RCRA-VSQG ---------- RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

Federal institutional controls / engineering controls registries

LUCIS ---------- Land Use Control Information System

US ENG CONTROLS..... Engineering Controls Sites List
US INST CONTROLS..... Institutional Controls Sites List

Federal ERNS list

ERNS..... Emergency Response Notification System

Lists of state- and tribal (Superfund) equivalent sites

SHWS..... List of Inactive Hazardous Substance Sites

Lists of state and tribal landfills and solid waste disposal facilities

SWF/LF..... Solid Waste Disposal Facilities
SWM COMPLAINTS..... Solid Waste Management Complaints

Lists of state and tribal leaking storage tanks

LUST..... Leaking Underground Storage Tank Database Listing
INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land
LUST TRUST..... LUST TRUST Fund Database
HIST_LUST CO..... Leaking Underground Storage Tanks Sites

Lists of state and tribal registered storage tanks

FEMA UST..... Underground Storage Tank Listing
UST..... Facility and Tank Report
AST..... Aboveground Storage Tanks
INDIAN UST..... Underground Storage Tanks on Indian Land

State and tribal institutional control / engineering control registries

ENG CONTROLS..... Engineering Control Sites
INST CONTROL..... Institutional Control Sites

Lists of state and tribal voluntary cleanup sites

SRP..... State Remediation Program List
INDIAN VCP..... Voluntary Cleanup Priority Listing
VCP..... Voluntary Cleanup, Oversight and Assistance Program Sites

Lists of state and tribal brownfield sites

BROWNFIELDS..... Superfund VOAP Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY..... Recycling Facilities Listing

INDIAN ODI	Report on the Status of Open Dumps on Indian Lands
ODI	Open Dump Inventory
DEBRIS REGION 9	Torres Martinez Reservation Illegal Dump Site Locations
IHS OPEN DUMPS	Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL	Delisted National Clandestine Laboratory Register
CDL	Registry of Contaminated Properties
PRIORITYCLEANERS	DCERP Remediation Sites Listing
DEL SHWS	Deleted State Hazardous Waste Sites
US CDL	National Clandestine Laboratory Register

Local Lists of Registered Storage Tanks

HIST UST	Underground Storage Tank Database

Local Land Records

LIENS	Liens Information
LIENS 2	CERCLA Lien Information

Records of Emergency Release Reports

HMIRS	Hazardous Materials Information Reporting System
SPILLS	State Spills

Other Ascertainable Records

RCRA NonGen / NLR	RCRA - Non Generators / No Longer Regulated
FUDS	Formerly Used Defense Sites
DOD	Department of Defense Sites
SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR	Financial Assurance Information
EPA WATCH LIST	EPA WATCH LIST
2020 COR ACTION	2020 Corrective Action Program List
TSCA	Toxic Substances Control Act
TRIS	Toxic Chemical Release Inventory System
SSTS	Section 7 Tracking Systems
ROD	Records Of Decision
RMP	Risk Management Plans
RAATS	RCRA Administrative Action Tracking System
PRP	Potentially Responsible Parties
PADS	PCB Activity Database System
ICIS	Integrated Compliance Information System
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS	Material Licensing Tracking System
COAL ASH DOE	Steam-Electric Plant Operation Data
COAL ASH EPA	Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER	PCB Transformer Registration Database
RADINFO	Radiation Information Database
HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS	Incident and Accident Data
CONSENT	Superfund (CERCLA) Consent Decrees

INDIAN RESERV Indian Reservations
FUSRAP Formerly Utilized Sites Remedial Action Program
UMTRA Uranium Mill Tailings Sites
LEAD SMELTERS Lead Smelter Sites
US AIRS Aerometric Information Retrieval System Facility Subsystem
US MINES Mines Master Index File
MINES MRDS Mineral Resources Data System
ABANDONED MINES Abandoned Mines
FINDS Facility Index System/Facility Registry System
DOCKET HWC Hazardous Waste Compliance Docket Listing
ECHO Enforcement & Compliance History Information
UXO Unexploded Ordnance Sites
FUELS PROGRAM EPA Fuels Program Registered Listing
PFAS NPL Superfund Sites with PFAS Detections Information
PFAS FEDERAL SITES Federal Sites PFAS Information
PFAS TSCA PFAS Manufacture and Imports Information
PFAS TRIS List of PFAS Added to the TRI
PFAS RCRA MANIFEST PFAS Transfers Identified In the RCRA Database Listing
PFAS ATSDR PFAS Contamination Site Location Listing
PFAS WQP Ambient Environmental Sampling for PFAS
PFAS NPDES Clean Water Act Discharge Monitoring Information
PFAS ECHO Facilities in Industries that May Be Handling PFAS Listing
PFAS ECHO FIRE TRAINING Facilities in Industries that May Be Handling PFAS Listing
PFAS PART 139 AIRPORT All Certified Part 139 Airports PFAS Information Listing
AQUEOUS FOAM NRC Aqueous Foam Related Incidents Listing
BIOSOLIDS ICIS-NPDES Biosolids Facility Data
PFAS PFAS Contamination Site Location Listing
AIRS Listing of Permitted Sources
DRYCLEANERS Registered Facilities List
LEAD Lead Safe Housing Registry
NPDES Permitted Facility Listing
VAPOR VOC Sites Listing

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP EDR Proprietary Manufactured Gas Plants
EDR Hist Auto EDR Exclusive Historical Auto Stations
EDR Hist Cleaner EDR Exclusive Historical Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF Recovered Government Archive Solid Waste Facilities List
RGA LUST Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were not identified.

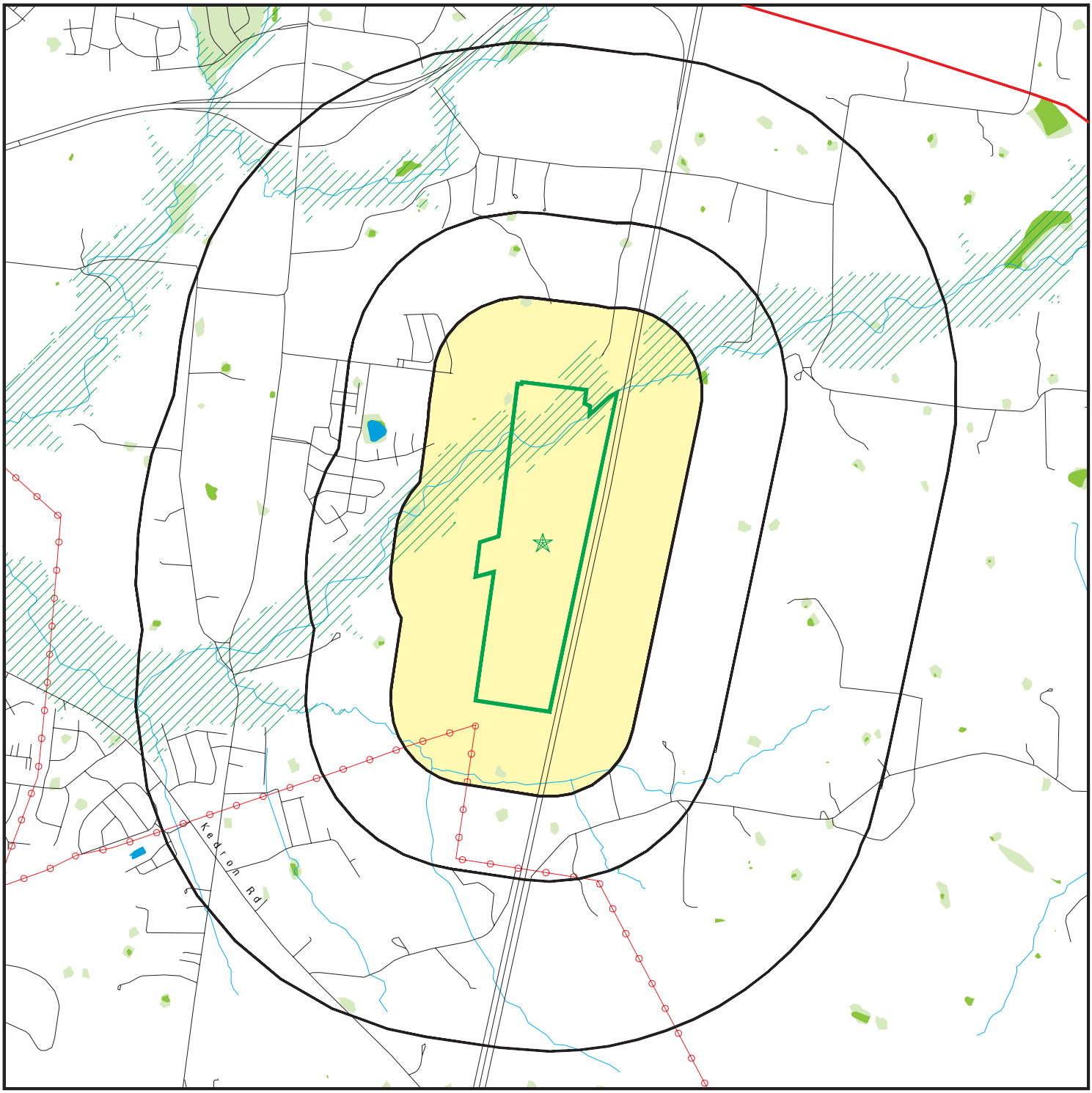
Unmappable (orphan) sites are not considered in the foregoing analysis.

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 2 records.

Site Name	Database(s)
JOE PEAY ROAD, SPRING HILL	SWM COMPLAINTS
DERRYBERRY ROAD AREA ROADWAY IMPRO	NPDES

OVERVIEW MAP - 7525625.2S



0 1/4 1/2 1 Miles

- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- County Boundary
- Power transmission lines
- Special Flood Hazard Area (1%)
- 0.2% Annual Chance Flood Hazard
- National Wetland Inventory
- State Wetlands

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	Derryberry Lane & Rice Road	CLIENT:	GeoServices, LLC
ADDRESS:	Derryberry Lane & Rice Road Spring Hill TN 37174	CONTACT:	Alexis Tracy
		INQUIRY #:	7525625.2s
LAT/LONG:	35.715625 / 86.881547	DATE:	December 20, 2023 1:45 pm

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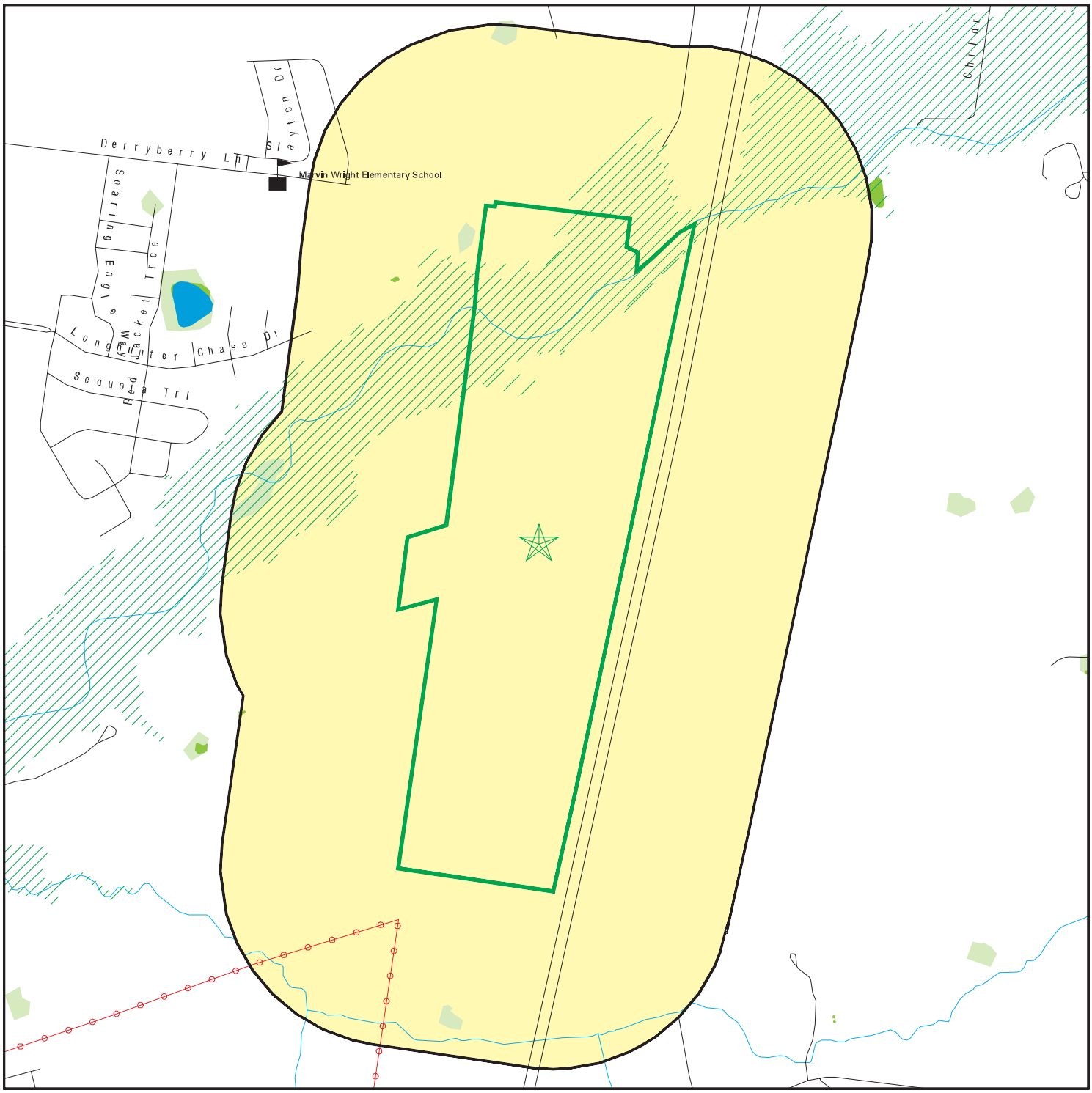
DETAIL MAP - 7525625.2S



0 1/8 1/4 1/2 Miles

- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- Special Flood Hazard Area (1%)
- 0.2% Annual Chance Flood Hazard
- National Wetland Inventory
- State Wetlands

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	Derryberry Lane & Rice Road	CLIENT:	GeoServices, LLC
ADDRESS:	Derryberry Lane & Rice Road Spring Hill TN 37174	CONTACT:	Alexis Tracy
		INQUIRY #:	7525625.2s
LAT/LONG:	35.715625 / 86.881547	DATE:	December 20, 2023 1:46 pm

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Lists of Federal NPL (Superfund) sites								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
Lists of Federal Delisted NPL sites								
Delisted NPL	1.000		0	0	0	0	NR	0
Lists of Federal sites subject to CERCLA removals and CERCLA orders								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
Lists of Federal CERCLA sites with NFRAP								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Lists of Federal RCRA facilities undergoing Corrective Action								
CORRACTS	1.000		0	0	0	0	NR	0
Lists of Federal RCRA TSD facilities								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Lists of Federal RCRA generators								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-VSQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROLS	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	0.001		0	NR	NR	NR	NR	0
Lists of state- and tribal (Superfund) equivalent sites								
SHWS	1.000		0	0	0	0	NR	0
Lists of state and tribal landfills and solid waste disposal facilities								
SWF/LF	0.500		0	0	0	NR	NR	0
SWM COMPLAINTS	0.500		0	0	0	NR	NR	0
Lists of state and tribal leaking storage tanks								
LUST	0.500		0	0	0	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INDIAN LUST	0.500		0	0	0	NR	NR	0
LUST TRUST	0.500		0	0	0	NR	NR	0
HIST_LUST CO	0.500		0	0	0	NR	NR	0
Lists of state and tribal registered storage tanks								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		0	0	NR	NR	NR	0
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
ENG CONTROLS	0.500		0	0	0	NR	NR	0
INST CONTROL	0.500		0	0	0	NR	NR	0
Lists of state and tribal voluntary cleanup sites								
SRP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
VCP	0.500		0	0	0	NR	NR	0
Lists of state and tribal brownfield sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
SWRCY	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	0.001		0	NR	NR	NR	NR	0
CDL	0.001		0	NR	NR	NR	NR	0
PRIORITYCLEANERS	0.500		0	0	0	NR	NR	0
DEL SHWS	1.000		0	0	0	0	NR	0
US CDL	0.001		0	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
HIST UST	0.250		0	0	NR	NR	NR	0
Local Land Records								
LIENS	0.001		0	NR	NR	NR	NR	0
LIENS 2	0.001		0	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
Records of Emergency Release Reports								
HMIRS	0.001		0	NR	NR	NR	NR	0
SPILLS	0.001		0	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	0.001		0	NR	NR	NR	NR	0
EPA WATCH LIST	0.001		0	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	0.001		0	NR	NR	NR	NR	0
TRIS	0.001		0	NR	NR	NR	NR	0
SSTS	0.001		0	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	0.001		0	NR	NR	NR	NR	0
RAATS	0.001		0	NR	NR	NR	NR	0
PRP	0.001		0	NR	NR	NR	NR	0
PADS	0.001		0	NR	NR	NR	NR	0
ICIS	0.001		0	NR	NR	NR	NR	0
FTTS	0.001		0	NR	NR	NR	NR	0
MLTS	0.001		0	NR	NR	NR	NR	0
COAL ASH DOE	0.001		0	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	0.001		0	NR	NR	NR	NR	0
RADINFO	0.001		0	NR	NR	NR	NR	0
HIST FTTS	0.001		0	NR	NR	NR	NR	0
DOT OPS	0.001		0	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	0.001		0	NR	NR	NR	NR	0
US AIRS	0.001		0	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
MINES MRDS	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	0.001		0	NR	NR	NR	NR	0
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
ECHO	0.001		0	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
PFAS NPL	0.250		0	0	NR	NR	NR	0
PFAS FEDERAL SITES	0.250		0	0	NR	NR	NR	0
PFAS TSCA	0.250		0	0	NR	NR	NR	0
PFAS TRIS	0.250		0	0	NR	NR	NR	0
PFAS RCRA MANIFEST	0.250		0	0	NR	NR	NR	0
PFAS ATSDR	0.250		0	0	NR	NR	NR	0
PFAS WQP	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
PFAS NPDES	0.250		0	0	NR	NR	NR	0
PFAS ECHO	0.250		0	0	NR	NR	NR	0
PFAS ECHO FIRE TRAINING	0.250		0	0	NR	NR	NR	0
PFAS PART 139 AIRPORT	0.250		0	0	NR	NR	NR	0
AQUEOUS FOAM NRC	0.250		0	0	NR	NR	NR	0
BIOSOLIDS	0.001		0	NR	NR	NR	NR	0
PFAS	0.250		0	0	NR	NR	NR	0
AIRS	0.001		0	NR	NR	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
LEAD	0.001		0	NR	NR	NR	NR	0
NPDES	0.001		0	NR	NR	NR	NR	0
VAPOR	0.500		0	0	0	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA LF	0.001		0	NR	NR	NR	NR	0
RGA LUST	0.001		0	NR	NR	NR	NR	0
- Totals --		0	0	0	0	0	0	0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

MAP FINDINGS

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number

NO SITES FOUND

Count: 2 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
MAURY COUNTY	S123321769	JOE PEAY ROAD, SPRING HILL	JOE PEAY ROAD, SPRING HILL		SWM COMPLAINTS
SPRING HILL	S111823691	DERRYBERRY ROAD AREA ROADWAY IMPRO	NORTH OF DERRYBERRY LANE AND S	37174	NPDES

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal NPL (Superfund) sites

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 09/19/2023
Date Data Arrived at EDR: 10/03/2023
Date Made Active in Reports: 10/19/2023
Number of Days to Update: 16

Source: EPA
Telephone: N/A
Last EDR Contact: 12/04/2023
Next Scheduled EDR Contact: 01/08/2024
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 09/19/2023
Date Data Arrived at EDR: 10/03/2023
Date Made Active in Reports: 10/19/2023
Number of Days to Update: 16

Source: EPA
Telephone: N/A
Last EDR Contact: 12/04/2023
Next Scheduled EDR Contact: 01/08/2024
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Lists of Federal Delisted NPL sites

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 09/19/2023
Date Data Arrived at EDR: 10/03/2023
Date Made Active in Reports: 10/19/2023
Number of Days to Update: 16

Source: EPA
Telephone: N/A
Last EDR Contact: 12/04/2023
Next Scheduled EDR Contact: 01/08/2024
Data Release Frequency: Quarterly

Lists of Federal sites subject to CERCLA removals and CERCLA orders

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 09/25/2023
Date Data Arrived at EDR: 09/26/2023
Date Made Active in Reports: 12/12/2023
Number of Days to Update: 77

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 09/26/2023
Next Scheduled EDR Contact: 01/08/2024
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 09/19/2023
Date Data Arrived at EDR: 10/03/2023
Date Made Active in Reports: 10/19/2023
Number of Days to Update: 16

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 12/04/2023
Next Scheduled EDR Contact: 01/22/2024
Data Release Frequency: Quarterly

Lists of Federal CERCLA sites with NFRAP

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 09/19/2023
Date Data Arrived at EDR: 10/03/2023
Date Made Active in Reports: 10/19/2023
Number of Days to Update: 16

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 12/04/2023
Next Scheduled EDR Contact: 01/22/2024
Data Release Frequency: Quarterly

Lists of Federal RCRA facilities undergoing Corrective Action

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 12/04/2023
Date Data Arrived at EDR: 12/06/2023
Date Made Active in Reports: 12/12/2023
Number of Days to Update: 6

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 12/06/2023
Next Scheduled EDR Contact: 04/01/2024
Data Release Frequency: Quarterly

Lists of Federal RCRA TSD facilities

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 12/04/2023
Date Data Arrived at EDR: 12/06/2023
Date Made Active in Reports: 12/12/2023
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: (404) 562-8651
Last EDR Contact: 12/06/2023
Next Scheduled EDR Contact: 04/01/2024
Data Release Frequency: Quarterly

Lists of Federal RCRA generators

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 12/04/2023
Date Data Arrived at EDR: 12/06/2023
Date Made Active in Reports: 12/12/2023
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: (404) 562-8651
Last EDR Contact: 12/06/2023
Next Scheduled EDR Contact: 04/01/2024
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 12/04/2023
Date Data Arrived at EDR: 12/06/2023
Date Made Active in Reports: 12/12/2023
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: (404) 562-8651
Last EDR Contact: 12/06/2023
Next Scheduled EDR Contact: 04/01/2024
Data Release Frequency: Quarterly

RCRA-VSQG: RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 12/04/2023
Date Data Arrived at EDR: 12/06/2023
Date Made Active in Reports: 12/12/2023
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: (404) 562-8651
Last EDR Contact: 12/06/2023
Next Scheduled EDR Contact: 04/01/2024
Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 08/03/2023
Date Data Arrived at EDR: 08/07/2023
Date Made Active in Reports: 10/10/2023
Number of Days to Update: 64

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 11/02/2023
Next Scheduled EDR Contact: 02/19/2024
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 08/21/2023
Date Data Arrived at EDR: 08/21/2023
Date Made Active in Reports: 11/07/2023
Number of Days to Update: 78

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 11/17/2023
Next Scheduled EDR Contact: 03/04/2024
Data Release Frequency: Varies

US INST CONTROLS: Institutional Controls Sites List

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 08/21/2023
Date Data Arrived at EDR: 08/21/2023
Date Made Active in Reports: 11/07/2023
Number of Days to Update: 78

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 11/17/2023
Next Scheduled EDR Contact: 03/04/2024
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 09/18/2023
Date Data Arrived at EDR: 09/20/2023
Date Made Active in Reports: 12/11/2023
Number of Days to Update: 82

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 12/13/2023
Next Scheduled EDR Contact: 04/01/2024
Data Release Frequency: Quarterly

Lists of state- and tribal (Superfund) equivalent sites

SHWS: Promulgated Sites

"Inactive hazardous substance sites that constitute an imminent, substantial danger" is an inactive hazardous substance site where there is a threat of danger to the public health, safety, or environment which is both real and presently existing. Such situations may include, but are not limited to one or more of the following: an immediate action is necessary to minimize an ongoing threat to the public health or pollution of the environment, an inactive hazardous substance site where there is an active release, where direct access to the hazardous substance is not controlled, or where incompatible hazardous substances are found in close proximity. Also known as Promulgated Sites List.

Date of Government Version: 09/25/2023
Date Data Arrived at EDR: 09/26/2023
Date Made Active in Reports: 12/14/2023
Number of Days to Update: 79

Source: Department of Environment & Conservation
Telephone: 615-532-0900
Last EDR Contact: 09/26/2023
Next Scheduled EDR Contact: 01/08/2024
Data Release Frequency: Semi-Annually

Lists of state and tribal landfills and solid waste disposal facilities

SWF/LF: Solid Waste Disposal Facilities

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 09/05/2023
Date Data Arrived at EDR: 09/07/2023
Date Made Active in Reports: 11/29/2023
Number of Days to Update: 83

Source: Department of Environment and Conservation
Telephone: 615-532-0804
Last EDR Contact: 12/05/2023
Next Scheduled EDR Contact: 03/18/2024
Data Release Frequency: Quarterly

SWM COMPLAINTS: Solid Waste Management Complaints

A listing of reported complaints related to the Solid Waste Management division.

Date of Government Version: 08/21/2023
Date Data Arrived at EDR: 08/22/2023
Date Made Active in Reports: 11/08/2023
Number of Days to Update: 78

Source: Department of Environment & Conservation
Telephone: 615-532-0780
Last EDR Contact: 11/06/2023
Next Scheduled EDR Contact: 03/04/2024
Data Release Frequency: Varies

Lists of state and tribal leaking storage tanks

LUST: Fund Eligible Leaking Underground Storage Tank Sites

A listing of leaking underground storage tank site locations.

Date of Government Version: 07/31/2023
Date Data Arrived at EDR: 08/09/2023
Date Made Active in Reports: 10/27/2023
Number of Days to Update: 79

Source: Department of Environment and Conservation
Telephone: 615-532-0945
Last EDR Contact: 11/08/2023
Next Scheduled EDR Contact: 02/19/2024
Data Release Frequency: Semi-Annually

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 04/19/2023
Date Data Arrived at EDR: 05/09/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 66

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 10/11/2023
Next Scheduled EDR Contact: 01/29/2024
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 04/25/2023
Date Data Arrived at EDR: 05/09/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 66

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 10/11/2023
Next Scheduled EDR Contact: 01/29/2024
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 04/20/2023
Date Data Arrived at EDR: 05/09/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 66

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 10/11/2023
Next Scheduled EDR Contact: 01/29/2024
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 04/26/2023
Date Data Arrived at EDR: 05/09/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 66

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 10/11/2023
Next Scheduled EDR Contact: 01/29/2024
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/20/2023
Date Data Arrived at EDR: 05/09/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 66

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 10/11/2023
Next Scheduled EDR Contact: 01/29/2024
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 04/20/2023
Date Data Arrived at EDR: 05/09/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 66

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 10/11/2023
Next Scheduled EDR Contact: 01/29/2024
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 04/14/2023
Date Data Arrived at EDR: 05/09/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 66

Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 10/11/2023
Next Scheduled EDR Contact: 01/29/2024
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 04/19/2023
Date Data Arrived at EDR: 05/09/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 66

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 10/11/2023
Next Scheduled EDR Contact: 01/29/2024
Data Release Frequency: Varies

LUST TRUST: LUST TRUST Fund Database
This list contains information on sites that had accidental releases of petroleum and are eligible for reimbursement from the TN Petroleum UST Fund.

Date of Government Version: 07/31/2023
Date Data Arrived at EDR: 08/09/2023
Date Made Active in Reports: 10/27/2023
Number of Days to Update: 79

Source: Department of Environment & Conservation
Telephone: 615-532-0971
Last EDR Contact: 10/31/2023
Next Scheduled EDR Contact: 02/19/2024
Data Release Frequency: Semi-Annually

HIST_LUST CO: Leaking Underground Storage Tanks Sites
A listing of leaking underground storage tank site locations from the Columbia Field Office. The listing is no longer updated.

Date of Government Version: 10/18/1994
Date Data Arrived at EDR: 10/24/1994
Date Made Active in Reports: 12/30/1994
Number of Days to Update: 67

Source: Department of Environmental Conservation, Columbia Field Office
Telephone: 931-380-3371
Last EDR Contact: 06/29/2009
Next Scheduled EDR Contact: 09/28/2009
Data Release Frequency: No Update Planned

Lists of state and tribal registered storage tanks

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 03/08/2023
Date Data Arrived at EDR: 03/09/2023
Date Made Active in Reports: 05/30/2023
Number of Days to Update: 82

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 10/10/2023
Next Scheduled EDR Contact: 01/15/2024
Data Release Frequency: Varies

UST: Facility and Tank Report
Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 07/31/2023
Date Data Arrived at EDR: 08/09/2023
Date Made Active in Reports: 10/27/2023
Number of Days to Update: 79

Source: Department of Environment and Conservation
Telephone: 615-532-0945
Last EDR Contact: 11/08/2023
Next Scheduled EDR Contact: 02/19/2024
Data Release Frequency: Semi-Annually

AST: Aboveground Storage Tanks
Registered Aboveground Storage Tanks.

Date of Government Version: 10/01/1999
Date Data Arrived at EDR: 10/12/1999
Date Made Active in Reports: 11/05/1999
Number of Days to Update: 24

Source: Department of Environment and Conservation
Telephone: 615-532-0965
Last EDR Contact: 10/11/2023
Next Scheduled EDR Contact: 01/29/2024
Data Release Frequency: No Update Planned

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 04/20/2023
Date Data Arrived at EDR: 05/09/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 66

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 10/11/2023
Next Scheduled EDR Contact: 01/29/2024
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 04/19/2023
Date Data Arrived at EDR: 05/09/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 66

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 10/11/2023
Next Scheduled EDR Contact: 01/29/2024
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 04/20/2023
Date Data Arrived at EDR: 05/09/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 66

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 10/11/2023
Next Scheduled EDR Contact: 01/29/2024
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 04/25/2023
Date Data Arrived at EDR: 05/09/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 66

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 10/11/2023
Next Scheduled EDR Contact: 01/29/2024
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 04/14/2023
Date Data Arrived at EDR: 05/09/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 66

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 10/11/2023
Next Scheduled EDR Contact: 01/29/2024
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 04/26/2023
Date Data Arrived at EDR: 05/09/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 66

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 10/11/2023
Next Scheduled EDR Contact: 01/29/2024
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 04/20/2023
Date Data Arrived at EDR: 05/09/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 66

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 10/11/2023
Next Scheduled EDR Contact: 01/29/2024
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 04/20/2023
Date Data Arrived at EDR: 05/09/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 66

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 10/11/2023
Next Scheduled EDR Contact: 01/29/2024
Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

ENG CONTROLS: Engineering Control Sites

Sites that have engineering controls.

Date of Government Version: 08/07/2023
Date Data Arrived at EDR: 08/09/2023
Date Made Active in Reports: 10/27/2023
Number of Days to Update: 79

Source: Department of Environment & Conservation
Telephone: 615-532-0900
Last EDR Contact: 11/07/2023
Next Scheduled EDR Contact: 02/19/2024
Data Release Frequency: Semi-Annually

INST CONTROL: Institutional Control Sites

Sites that have institutional controls.

Date of Government Version: 08/07/2023
Date Data Arrived at EDR: 08/09/2023
Date Made Active in Reports: 10/27/2023
Number of Days to Update: 79

Source: Department of Environment & Conservation
Telephone: 615-532-0900
Last EDR Contact: 11/07/2023
Next Scheduled EDR Contact: 02/19/2024
Data Release Frequency: Semi-Annually

Lists of state and tribal voluntary cleanup sites

VCP: Voluntary Cleanup, Oversight and Assistance Program Sites

The Voluntary Cleanup Oversight and Assistance Program (VOAP) offers people the opportunity to work proactively with state government to address necessary cleanup of a property to return it to productive use. In return for their efforts, participants can receive a No Further Action letter and a release of liability for areas where investigation and cleanup is conducted. The program is open to everyone with an interest in addressing contamination at a site.

Date of Government Version: 09/25/2023
Date Data Arrived at EDR: 09/26/2023
Date Made Active in Reports: 12/14/2023
Number of Days to Update: 79

Source: Department of Environmental & Conservation
Telephone: 615-532-0912
Last EDR Contact: 09/26/2023
Next Scheduled EDR Contact: 01/08/2024
Data Release Frequency: Semi-Annually

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 12/12/2023
Next Scheduled EDR Contact: 04/01/2024
Data Release Frequency: Varies

SRP: State Remediation Program List

The State Remediation Program (SRP) was established in 1994 within the Division of Solid Waste Management for the purpose of providing owners, prospective purchasers and other interested parties the means to voluntarily investigate, clean up or monitor contaminated sites not regulated under RCRA, CERCLA or the Tennessee Division of Underground Tanks (UST).

Date of Government Version: 09/25/2023
Date Data Arrived at EDR: 09/26/2023
Date Made Active in Reports: 12/14/2023
Number of Days to Update: 79

Source: Department of Environemtn & Conservation
Telephone: 615-532-0853
Last EDR Contact: 09/26/2023
Next Scheduled EDR Contact: 01/08/2024
Data Release Frequency: Semi-Annually

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 07/08/2021
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

Lists of state and tribal brownfield sites

BROWNFIELDS: Superfund VOAP Listing

Brownfields sites included on the Superfund Voluntary Cleanup, Oversight & Assistance Program listing.

Date of Government Version: 09/25/2023
Date Data Arrived at EDR: 09/26/2023
Date Made Active in Reports: 12/14/2023
Number of Days to Update: 79

Source: Department of Environment & Conservation
Telephone: 615-532-0912
Last EDR Contact: 09/26/2023
Next Scheduled EDR Contact: 01/08/2024
Data Release Frequency: Semi-Annually

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 08/15/2023
Date Data Arrived at EDR: 08/30/2023
Date Made Active in Reports: 12/01/2023
Number of Days to Update: 93

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 12/14/2023
Next Scheduled EDR Contact: 03/25/2024
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY: Recycling Facilities Listing
A listing of recycling facility locations.

Date of Government Version: 09/05/2023
Date Data Arrived at EDR: 09/07/2023
Date Made Active in Reports: 11/29/2023
Number of Days to Update: 83
Source: Department of Environment & Conservation
Telephone: 615-532-8657
Last EDR Contact: 12/05/2023
Next Scheduled EDR Contact: 03/18/2024
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52
Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 10/23/2023
Next Scheduled EDR Contact: 02/05/2024
Data Release Frequency: Varies

ODI: Open Dump Inventory
An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39
Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations
A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137
Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 10/10/2023
Next Scheduled EDR Contact: 01/29/2024
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land
A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176
Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 10/28/2023
Next Scheduled EDR Contact: 02/05/2024
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register
A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 08/21/2023
Date Data Arrived at EDR: 08/21/2023
Date Made Active in Reports: 11/07/2023
Number of Days to Update: 78
Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 11/17/2023
Next Scheduled EDR Contact: 03/04/2024
Data Release Frequency: No Update Planned

CDL: Registry of Contaminated Properties

Pursuant to TCA 68212509 the following properties have been quarantined because of methamphetamine production, but have not been cleaned and certified within the 60day time frame allotted by the statute. These properties are hereby registered by the Tennessee Department of Environment and Conservation as unremediated methamphetamine sites. This is not a comprehensive list of quarantined properties. These are properties that TDEC has been notified as being quarantined, but have not been cleaned within the 60 day grace period. Other properties where methamphetamine production residues are a concern may not have been quarantined, may not have been reported to TDEC, or may not have passed the 60day grace

Date of Government Version: 07/06/2023
Date Data Arrived at EDR: 07/26/2023
Date Made Active in Reports: 10/16/2023
Number of Days to Update: 82

Source: Department of Environment & Conservation
Telephone: 615-532-0900
Last EDR Contact: 10/25/2023
Next Scheduled EDR Contact: 02/05/2024
Data Release Frequency: Quarterly

PRIORITY CLEANERS: DCERP Remediation Sites Listing

Drycleaner Environmental Response Program remediation sites.

Date of Government Version: 07/10/2023
Date Data Arrived at EDR: 07/11/2023
Date Made Active in Reports: 09/26/2023
Number of Days to Update: 77

Source: Department of Environment & Conservation
Telephone: 615-253-3876
Last EDR Contact: 10/10/2023
Next Scheduled EDR Contact: 01/22/2024
Data Release Frequency: Annually

DEL SHWS: Deleted State Hazardous Waste Sites

A listing of sites removed from the Promulgated Sites Listing.

Date of Government Version: 09/25/2023
Date Data Arrived at EDR: 09/26/2023
Date Made Active in Reports: 12/14/2023
Number of Days to Update: 79

Source: Department of Environment & Conservation
Telephone: 615-532-0900
Last EDR Contact: 09/26/2023
Next Scheduled EDR Contact: 01/08/2024
Data Release Frequency: Semi-Annually

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 08/21/2023
Date Data Arrived at EDR: 08/21/2023
Date Made Active in Reports: 11/07/2023
Number of Days to Update: 78

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 11/17/2023
Next Scheduled EDR Contact: 03/04/2024
Data Release Frequency: Quarterly

Local Lists of Registered Storage Tanks

HIST UST: Underground Storage Tank Database

This database is no longer updated by the agency. It contains records and detail fields that the current UST database does not.

Date of Government Version: 07/31/2023
Date Data Arrived at EDR: 08/09/2023
Date Made Active in Reports: 10/27/2023
Number of Days to Update: 79

Source: Department of Environment & Conservation
Telephone: 615-532-0945
Last EDR Contact: 11/08/2023
Next Scheduled EDR Contact: 02/19/2024
Data Release Frequency: No Update Planned

Local Land Records

LIENS: Liens Information

A listing of sites with environmental liens information.

Date of Government Version: 09/22/2023
Date Data Arrived at EDR: 09/25/2023
Date Made Active in Reports: 12/14/2023
Number of Days to Update: 80

Source: Department of Environment & Conservation
Telephone: 615-532-0900
Last EDR Contact: 12/19/2023
Next Scheduled EDR Contact: 04/08/2024
Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 09/19/2023
Date Data Arrived at EDR: 10/03/2023
Date Made Active in Reports: 10/19/2023
Number of Days to Update: 16

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 11/01/2023
Next Scheduled EDR Contact: 01/08/2024
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 09/18/2023
Date Data Arrived at EDR: 09/20/2023
Date Made Active in Reports: 11/14/2023
Number of Days to Update: 55

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 12/13/2023
Next Scheduled EDR Contact: 04/01/2024
Data Release Frequency: Quarterly

SPILLS: State Spills

A listing of spills locations.

Date of Government Version: 01/05/2015
Date Data Arrived at EDR: 01/06/2015
Date Made Active in Reports: 02/10/2015
Number of Days to Update: 35

Source: Department of Environment & Conservation
Telephone: 615-532-0109
Last EDR Contact: 12/19/2023
Next Scheduled EDR Contact: 04/08/2024
Data Release Frequency: Varies

SPILS: Statewide Petroleum Incident Logging Section

SPILS is a program within TDEC?s Division of Solid Waste Management (DSWM). This program logs incidents along Tennessee?s roadways where a reportable quantity of petroleum products is released to the environment, ensuring that appropriate cleanup standards are applied, remediation activities are completed, and final reports detailing the response are received and reviewed. Once an incident has been remediated, SPILS will issue a closure letter for the Responsible Party?s file.

Date of Government Version: 08/16/2023
Date Data Arrived at EDR: 08/16/2023
Date Made Active in Reports: 11/01/2023
Number of Days to Update: 77

Source: Department of Environment & Conservation
Telephone: 615-532-0780
Last EDR Contact: 11/16/2023
Next Scheduled EDR Contact: 03/04/2024
Data Release Frequency: Varies

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 12/04/2023
Date Data Arrived at EDR: 12/06/2023
Date Made Active in Reports: 12/12/2023
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: (404) 562-8651
Last EDR Contact: 12/06/2023
Next Scheduled EDR Contact: 04/01/2024
Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 08/07/2023
Date Data Arrived at EDR: 08/15/2023
Date Made Active in Reports: 10/10/2023
Number of Days to Update: 56

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 11/10/2023
Next Scheduled EDR Contact: 02/26/2024
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 06/07/2021
Date Data Arrived at EDR: 07/13/2021
Date Made Active in Reports: 03/09/2022
Number of Days to Update: 239

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 10/09/2023
Next Scheduled EDR Contact: 01/22/2024
Data Release Frequency: Varies

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/11/2018
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 574

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 10/04/2023
Next Scheduled EDR Contact: 01/15/2024
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 07/30/2021
Date Data Arrived at EDR: 02/03/2023
Date Made Active in Reports: 02/10/2023
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 11/08/2023
Next Scheduled EDR Contact: 02/19/2024
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 09/18/2023
Date Data Arrived at EDR: 09/20/2023
Date Made Active in Reports: 12/12/2023
Number of Days to Update: 83

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 12/13/2023
Next Scheduled EDR Contact: 04/01/2024
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 10/31/2023
Next Scheduled EDR Contact: 02/12/2024
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 11/03/2023
Next Scheduled EDR Contact: 02/12/2024
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 06/14/2022
Date Made Active in Reports: 03/24/2023
Number of Days to Update: 283

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 12/14/2023
Next Scheduled EDR Contact: 03/25/2024
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2021
Date Data Arrived at EDR: 08/18/2023
Date Made Active in Reports: 11/07/2023
Number of Days to Update: 81

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 11/13/2023
Next Scheduled EDR Contact: 02/26/2024
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 07/17/2023
Date Data Arrived at EDR: 07/18/2023
Date Made Active in Reports: 10/10/2023
Number of Days to Update: 84

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 10/20/2023
Next Scheduled EDR Contact: 01/29/2024
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 09/19/2023
Date Data Arrived at EDR: 10/03/2023
Date Made Active in Reports: 10/19/2023
Number of Days to Update: 16

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 12/04/2023
Next Scheduled EDR Contact: 03/11/2024
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 05/09/2023
Date Data Arrived at EDR: 06/29/2023
Date Made Active in Reports: 09/25/2023
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 09/26/2023
Next Scheduled EDR Contact: 01/29/2024
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 09/19/2023
Date Data Arrived at EDR: 10/03/2023
Date Made Active in Reports: 10/19/2023
Number of Days to Update: 16

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 12/04/2023
Next Scheduled EDR Contact: 02/12/2024
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 03/20/2023
Date Data Arrived at EDR: 04/04/2023
Date Made Active in Reports: 06/09/2023
Number of Days to Update: 66

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 10/06/2023
Next Scheduled EDR Contact: 01/15/2024
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 09/27/2023
Next Scheduled EDR Contact: 01/15/2024
Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 07/20/2023
Date Data Arrived at EDR: 09/01/2023
Date Made Active in Reports: 09/20/2023
Number of Days to Update: 19

Source: Nuclear Regulatory Commission
Telephone: 301-415-0717
Last EDR Contact: 10/10/2023
Next Scheduled EDR Contact: 01/29/2024
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2021
Date Data Arrived at EDR: 04/14/2023
Date Made Active in Reports: 07/10/2023
Number of Days to Update: 87

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 11/27/2023
Next Scheduled EDR Contact: 03/11/2024
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 01/12/2017
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 251

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 11/27/2023
Next Scheduled EDR Contact: 03/11/2024
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 09/13/2019
Date Data Arrived at EDR: 11/06/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 96
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 11/03/2023
Next Scheduled EDR Contact: 02/12/2024
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/01/2019
Date Data Arrived at EDR: 07/01/2019
Date Made Active in Reports: 09/23/2019
Number of Days to Update: 84
Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 12/19/2023
Next Scheduled EDR Contact: 04/08/2024
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data
Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 01/02/2020
Date Data Arrived at EDR: 01/28/2020
Date Made Active in Reports: 04/17/2020
Number of Days to Update: 80
Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 10/04/2023
Next Scheduled EDR Contact: 02/05/2024
Data Release Frequency: Quarterly

CONSENT: Superfund (CERCLA) Consent Decrees
Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 06/30/2023
Date Data Arrived at EDR: 07/19/2023
Date Made Active in Reports: 10/10/2023
Number of Days to Update: 83
Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 10/03/2023
Next Scheduled EDR Contact: 01/15/2024
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2021
Date Data Arrived at EDR: 03/09/2023
Date Made Active in Reports: 03/20/2023
Number of Days to Update: 11
Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 12/06/2023
Next Scheduled EDR Contact: 04/01/2024
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546
Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 10/02/2023
Next Scheduled EDR Contact: 01/15/2024
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 03/03/2023
Date Data Arrived at EDR: 03/03/2023
Date Made Active in Reports: 06/09/2023
Number of Days to Update: 98
Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 10/25/2023
Next Scheduled EDR Contact: 02/12/2024
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 08/30/2019
Date Data Arrived at EDR: 11/15/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 74
Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 11/09/2023
Next Scheduled EDR Contact: 02/26/2024
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 09/19/2023
Date Data Arrived at EDR: 10/03/2023
Date Made Active in Reports: 10/19/2023
Number of Days to Update: 16
Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 12/04/2023
Next Scheduled EDR Contact: 01/08/2024
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

MINES VIOLATIONS: MSHA Violation Assessment Data

Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration.

Date of Government Version: 07/05/2023
Date Data Arrived at EDR: 07/05/2023
Date Made Active in Reports: 09/25/2023
Number of Days to Update: 82

Source: DOL, Mine Safety & Health Admi
Telephone: 202-693-9424
Last EDR Contact: 10/04/2023
Next Scheduled EDR Contact: 02/19/2024
Data Release Frequency: Quarterly

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/01/2023
Date Data Arrived at EDR: 08/22/2023
Date Made Active in Reports: 11/07/2023
Number of Days to Update: 77

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 11/17/2023
Next Scheduled EDR Contact: 03/04/2024
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 01/07/2022
Date Data Arrived at EDR: 02/24/2023
Date Made Active in Reports: 05/17/2023
Number of Days to Update: 82

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 11/20/2023
Next Scheduled EDR Contact: 03/04/2024
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 11/20/2023
Next Scheduled EDR Contact: 03/04/2024
Data Release Frequency: Varies

MINES MRDS: Mineral Resources Data System

Mineral Resources Data System

Date of Government Version: 08/23/2022
Date Data Arrived at EDR: 11/22/2022
Date Made Active in Reports: 02/28/2023
Number of Days to Update: 98

Source: USGS
Telephone: 703-648-6533
Last EDR Contact: 11/20/2023
Next Scheduled EDR Contact: 03/04/2024
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 11/28/2023
Date Data Arrived at EDR: 11/29/2023
Date Made Active in Reports: 12/11/2023
Number of Days to Update: 12

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 11/28/2023
Next Scheduled EDR Contact: 03/18/2024
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 11/03/2023
Date Data Arrived at EDR: 11/08/2023
Date Made Active in Reports: 11/20/2023
Number of Days to Update: 12

Source: EPA
Telephone: (404) 562-9900
Last EDR Contact: 11/08/2023
Next Scheduled EDR Contact: 03/11/2024
Data Release Frequency: Quarterly

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 06/24/2023
Date Data Arrived at EDR: 06/29/2023
Date Made Active in Reports: 09/25/2023
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 10/03/2023
Next Scheduled EDR Contact: 01/15/2024
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 09/06/2023
Date Data Arrived at EDR: 09/13/2023
Date Made Active in Reports: 12/11/2023
Number of Days to Update: 89

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 09/13/2023
Next Scheduled EDR Contact: 01/22/2024
Data Release Frequency: Varies

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/06/2021
Date Data Arrived at EDR: 05/21/2021
Date Made Active in Reports: 08/11/2021
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 11/15/2023
Next Scheduled EDR Contact: 03/04/2024
Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 08/14/2023
Date Data Arrived at EDR: 08/15/2023
Date Made Active in Reports: 10/19/2023
Number of Days to Update: 65

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 11/10/2023
Next Scheduled EDR Contact: 02/26/2024
Data Release Frequency: Quarterly

PFAS NPL: Superfund Sites with PFAS Detections Information

EPA's Office of Land and Emergency Management and EPA Regional Offices maintain data describing what is known about site investigations, contamination, and remedial actions under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) where PFAS is present in the environment.

Date of Government Version: 07/05/2023
Date Data Arrived at EDR: 07/05/2023
Date Made Active in Reports: 10/02/2023
Number of Days to Update: 89

Source: Environmental Protection Agency
Telephone: 703-603-8895
Last EDR Contact: 10/03/2023
Next Scheduled EDR Contact: 01/15/2024
Data Release Frequency: Varies

PFAS FEDERAL SITES: Federal Sites PFAS Information

Several federal entities, such as the federal Superfund program, Department of Defense, National Aeronautics and Space Administration, Department of Transportation, and Department of Energy provided information for sites with known or suspected detections at federal facilities.

Date of Government Version: 07/05/2023
Date Data Arrived at EDR: 07/05/2023
Date Made Active in Reports: 10/02/2023
Number of Days to Update: 89

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 10/03/2023
Next Scheduled EDR Contact: 01/15/2024
Data Release Frequency: Varies

PFAS TSCA: PFAS Manufacture and Imports Information

EPA issued the Chemical Data Reporting (CDR) Rule under the Toxic Substances Control Act (TSCA) and requires chemical manufacturers and facilities that manufacture or import chemical substances to report data to EPA. EPA publishes non-confidential business information (non-CBI) and includes descriptive information about each site, corporate parent, production volume, other manufacturing information, and processing and use information.

Date of Government Version: 07/05/2023
Date Data Arrived at EDR: 07/05/2023
Date Made Active in Reports: 10/02/2023
Number of Days to Update: 89

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 10/03/2023
Next Scheduled EDR Contact: 01/15/2024
Data Release Frequency: Varies

PFAS TRIS: List of PFAS Added to the TRI

Section 7321 of the National Defense Authorization Act for Fiscal Year 2020 (NDAA) immediately added certain per- and polyfluoroalkyl substances (PFAS) to the list of chemicals covered by the Toxics Release Inventory (TRI) under Section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA) and provided a framework for additional PFAS to be added to TRI on an annual basis.

Date of Government Version: 07/05/2023
Date Data Arrived at EDR: 07/05/2023
Date Made Active in Reports: 10/02/2023
Number of Days to Update: 89

Source: Environmental Protection Agency
Telephone: 202-566-0250
Last EDR Contact: 10/03/2023
Next Scheduled EDR Contact: 01/15/2024
Data Release Frequency: Varies

PFAS RCRA MANIFEST: PFAS Transfers Identified In the RCRA Database Listing

To work around the lack of PFAS waste codes in the RCRA database, EPA developed the PFAS Transfers dataset by mining e-Manifest records containing at least one of these common PFAS keywords: PFAS, PFOA, PFOS, PERFL, AFFF, GENX, GEN-X (plus the VT waste codes). These keywords were searched for in the following text fields: Manifest handling instructions (MANIFEST_HANDLING_INSTR), Non-hazardous waste description (NON_HAZ_WASTE_DESCRIPTION), DOT printed information (DOT_PRINTED_INFORMATION), Waste line handling instructions (WASTE_LINE_HANDLING_INSTR), Waste residue comments (WASTE_RESIDUE_COMMENTS).

Date of Government Version: 07/05/2023
Date Data Arrived at EDR: 07/05/2023
Date Made Active in Reports: 10/02/2023
Number of Days to Update: 89

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 10/03/2023
Next Scheduled EDR Contact: 01/15/2024
Data Release Frequency: Varies

PFAS ATSDR: PFAS Contamination Site Location Listing

PFAS contamination site locations from the Department of Health & Human Services, Center for Disease Control & Prevention. ATSDR is involved at a number of PFAS-related sites, either directly or through assisting state and federal partners. As of now, most sites are related to drinking water contamination connected with PFAS production facilities or fire training areas where aqueous film-forming firefighting foam (AFFF) was regularly used.

Date of Government Version: 06/24/2020
Date Data Arrived at EDR: 03/17/2021
Date Made Active in Reports: 11/08/2022
Number of Days to Update: 601

Source: Department of Health & Human Services
Telephone: 202-741-5770
Last EDR Contact: 10/23/2023
Next Scheduled EDR Contact: 02/05/2024
Data Release Frequency: Varies

PFAS WQP: Ambient Environmental Sampling for PFAS

The Water Quality Portal (WQP) is a part of a modernized repository storing ambient sampling data for all environmental media and tissue samples. A wide range of federal, state, tribal and local governments, academic and non-governmental organizations and individuals submit project details and sampling results to this public repository. The information is commonly used for research and assessments of environmental quality.

Date of Government Version: 09/23/2023
Date Data Arrived at EDR: 10/03/2023
Date Made Active in Reports: 10/10/2023
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 10/03/2023
Next Scheduled EDR Contact: 01/15/2024
Data Release Frequency: Varies

PFAS NPDES: Clean Water Act Discharge Monitoring Information

Any discharger of pollutants to waters of the United States from a point source must have a National Pollutant Discharge Elimination System (NPDES) permit. The process for obtaining limits involves the regulated entity (permittee) disclosing releases in a NPDES permit application and the permitting authority (typically the state but sometimes EPA) deciding whether to require monitoring or monitoring with limits. Caveats and Limitations: Less than half of states have required PFAS monitoring for at least one of their permittees and fewer states have established PFAS effluent limits for permittees. New rulemakings have been initiated that may increase the number of facilities monitoring for PFAS in the future.

Date of Government Version: 07/05/2023
Date Data Arrived at EDR: 07/05/2023
Date Made Active in Reports: 10/02/2023
Number of Days to Update: 89

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 10/03/2023
Next Scheduled EDR Contact: 01/15/2024
Data Release Frequency: Varies

PFAS ECHO: Facilities in Industries that May Be Handling PFAS Listing

Regulators and the public have expressed interest in knowing which regulated entities may be using PFAS. EPA has developed a dataset from various sources that show which industries may be handling PFAS. Approximately 120,000 facilities subject to federal environmental programs have operated or currently operate in industry sectors with processes that may involve handling and/or release of PFAS.

Date of Government Version: 07/05/2023
Date Data Arrived at EDR: 07/05/2023
Date Made Active in Reports: 09/25/2023
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 10/03/2023
Next Scheduled EDR Contact: 01/15/2024
Data Release Frequency: Varies

PFAS ECHO FIRE TRAINING: Facilities in Industries that May Be Handling PFAS Listing

A list of fire training sites was added to the Industry Sectors dataset using a keyword search on the permitted facilitys name to identify sites where fire-fighting foam may have been used in training exercises. Additionally, you may view an example spreadsheet of the subset of fire training facility data, as well as the keywords used in selecting or deselecting a facility for the subset. as well as the keywords used in selecting or deselecting a facility for the subset. These keywords were tested to maximize accuracy in selecting facilities that may use fire-fighting foam in training exercises, however, due to the lack of a required reporting field in the data systems for designating fire training sites, this methodology may not identify all fire training sites or may potentially misidentify them.

Date of Government Version: 07/05/2023
Date Data Arrived at EDR: 07/05/2023
Date Made Active in Reports: 09/25/2023
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 10/03/2023
Next Scheduled EDR Contact: 01/15/2024
Data Release Frequency: Varies

PFAS PART 139 AIRPORT: All Certified Part 139 Airports PFAS Information Listing

Since July 1, 2006, all certified part 139 airports are required to have fire-fighting foam onsite that meet military specifications (MIL-F-24385) (14 CFR 139.317). To date, these military specification fire-fighting foams are fluorinated and have been historically used for training and extinguishing. The 2018 FAA Reauthorization Act has a provision stating that no later than October 2021, FAA shall not require the use of fluorinated AFFF. This provision does not prohibit the use of fluorinated AFFF at Part 139 civilian airports; it only prohibits FAA from mandating its use. The Federal Aviation Administration?s document AC 150/5210-6D - Aircraft Fire Extinguishing Agents provides guidance on Aircraft Fire Extinguishing Agents, which includes Aqueous Film Forming Foam (AFFF).

Date of Government Version: 07/05/2023
Date Data Arrived at EDR: 07/05/2023
Date Made Active in Reports: 09/25/2023
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 10/03/2023
Next Scheduled EDR Contact: 01/15/2024
Data Release Frequency: Varies

AQUEOUS FOAM NRC: Aqueous Foam Related Incidents Listing

The National Response Center (NRC) serves as an emergency call center that fields initial reports for pollution and railroad incidents and forwards that information to appropriate federal/state agencies for response. The spreadsheets posted to the NRC website contain initial incident data that has not been validated or investigated by a federal/state response agency. Response center calls from 1990 to the most recent complete calendar year where there was indication of Aqueous Film Forming Foam (AFFF) usage are included in this dataset. NRC calls may reference AFFF usage in the ?Material Involved? or ?Incident Description? fields.

Date of Government Version: 07/05/2023
Date Data Arrived at EDR: 07/06/2023
Date Made Active in Reports: 09/25/2023
Number of Days to Update: 81

Source: Environmental Protection Agency
Telephone: 202-267-2675
Last EDR Contact: 10/03/2023
Next Scheduled EDR Contact: 01/15/2024
Data Release Frequency: Varies

PCS: Permit Compliance System

PCS is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

Date of Government Version: 07/14/2011
Date Data Arrived at EDR: 08/05/2011
Date Made Active in Reports: 09/29/2011
Number of Days to Update: 55

Source: EPA, Office of Water
Telephone: 202-564-2496
Last EDR Contact: 09/28/2023
Next Scheduled EDR Contact: 01/15/2024
Data Release Frequency: No Update Planned

PCS ENF: Enforcement data

No description is available for this data

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 02/05/2015
Date Made Active in Reports: 03/06/2015
Number of Days to Update: 29

Source: EPA
Telephone: 202-564-2497
Last EDR Contact: 09/28/2023
Next Scheduled EDR Contact: 01/15/2024
Data Release Frequency: Varies

BIOSOLIDS: ICIS-NPDES Biosolids Facility Data

The data reflects compliance information about facilities in the biosolids program.

Date of Government Version: 07/16/2023
Date Data Arrived at EDR: 07/18/2023
Date Made Active in Reports: 08/28/2023
Number of Days to Update: 41

Source: Environmental Protection Agency
Telephone: 202-564-4700
Last EDR Contact: 12/19/2023
Next Scheduled EDR Contact: 01/29/2024
Data Release Frequency: Varies

PFAS: PFAS Contamination Site Location Listing

A listing of sites where PFAS has been detected to date.

Date of Government Version: 09/01/2022
Date Data Arrived at EDR: 12/19/2022
Date Made Active in Reports: 03/14/2023
Number of Days to Update: 85

Source: Department of Environment & Conservation
Telephone: 615-532-5281
Last EDR Contact: 12/06/2023
Next Scheduled EDR Contact: 02/26/2024
Data Release Frequency: Varies

AIRS: Listing of Permitted Sources

A listing of permitted sources issued by the Division of Air Pollution Control.

Date of Government Version: 07/24/2023
Date Data Arrived at EDR: 07/26/2023
Date Made Active in Reports: 10/16/2023
Number of Days to Update: 82

Source: Department of Environment & Conservation
Telephone: 615-532-0545
Last EDR Contact: 10/25/2023
Next Scheduled EDR Contact: 02/05/2024
Data Release Frequency: Varies

DRYCLEANERS: Registered Facilities List

A list of all active registered drycleaner facilities, There may be some inactive facilities included.

Date of Government Version: 06/01/2023
Date Data Arrived at EDR: 07/11/2023
Date Made Active in Reports: 09/26/2023
Number of Days to Update: 77

Source: Dept. of Environment & Conservation
Telephone: 615-532-0900
Last EDR Contact: 10/10/2023
Next Scheduled EDR Contact: 01/22/2024
Data Release Frequency: Annually

LEAD CERT: Lead Safe Housing Registry

A listing of Tennessee properties that have achieved a lead safe designation.

Date of Government Version: 02/25/2019
Date Data Arrived at EDR: 02/26/2019
Date Made Active in Reports: 06/13/2019
Number of Days to Update: 107

Source: Department of Environment & Conservation
Telephone: 615-532-8011
Last EDR Contact: 11/21/2023
Next Scheduled EDR Contact: 03/11/2024
Data Release Frequency: Varies

NPDES: Permitted Facility Listing
A listing of permitted wastewater facilities.

Date of Government Version: 08/14/2023
Date Data Arrived at EDR: 08/15/2023
Date Made Active in Reports: 11/01/2023
Number of Days to Update: 78

Source: Department of Environment & Conservation
Telephone: 615-253-2245
Last EDR Contact: 11/13/2023
Next Scheduled EDR Contact: 02/26/2024
Data Release Frequency: Quarterly

VAPOR: VOC Sites Listing
A list of sites where vapor intrusion has been identified. Volatile organic compounds (VOC) are compounds that have a high vapor pressure and low water solubility.

Date of Government Version: 05/05/2023
Date Data Arrived at EDR: 06/28/2023
Date Made Active in Reports: 08/04/2023
Number of Days to Update: 37

Source: Department of Environment & Conservation
Telephone: 615-532-0930
Last EDR Contact: 09/28/2023
Next Scheduled EDR Contact: 01/15/2024
Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants
The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations
EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners
EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environment and Conservation in Tennessee.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/15/2014
Number of Days to Update: 198

Source: Department of Environment and Conservation
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environment and Conservation in Tennessee.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/03/2014
Number of Days to Update: 186

Source: Department of Environment and Conservation
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 08/07/2023
Date Data Arrived at EDR: 08/08/2023
Date Made Active in Reports: 10/24/2023
Number of Days to Update: 77

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 11/07/2023
Next Scheduled EDR Contact: 02/19/2024
Data Release Frequency: No Update Planned

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 11/30/2023
Date Made Active in Reports: 12/01/2023
Number of Days to Update: 1

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 11/30/2023
Next Scheduled EDR Contact: 02/05/2024
Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 06/30/2018
Date Data Arrived at EDR: 07/19/2019
Date Made Active in Reports: 09/10/2019
Number of Days to Update: 53

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 10/05/2023
Next Scheduled EDR Contact: 01/22/2024
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 11/30/2021
Date Made Active in Reports: 02/18/2022
Number of Days to Update: 80

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 11/09/2022
Next Scheduled EDR Contact: 02/26/2024
Data Release Frequency: Annually

VT MANIFEST: Hazardous Waste Manifest Data
Hazardous waste manifest information.

Date of Government Version: 10/28/2019
Date Data Arrived at EDR: 10/29/2019
Date Made Active in Reports: 01/09/2020
Number of Days to Update: 72

Source: Department of Environmental Conservation
Telephone: 802-241-3443
Last EDR Contact: 10/05/2023
Next Scheduled EDR Contact: 01/22/2024
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 06/19/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 76

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 11/29/2023
Next Scheduled EDR Contact: 03/18/2024
Data Release Frequency: Annually

Oil/Gas Pipelines
Source: Endeavor Business Media
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

Electric Power Transmission Line Data
Source: Endeavor Business Media
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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Child Care Listing
Source: Department Of Human Services
Telephone: 615-313-4778

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Environment & Conservation
Telephone: 651-532-0052

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

DERRYBERRY LANE & RICE ROAD
DERRYBERRY LANE & RICE ROAD
SPRING HILL, TN 37174

TARGET PROPERTY COORDINATES

Latitude (North):	35.715625 - 35° 42' 56.25''
Longitude (West):	86.881547 - 86° 52' 53.57''
Universal Tranverse Mercator:	Zone 16
UTM X (Meters):	510714.3
UTM Y (Meters):	3952214.8
Elevation:	722 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	50022684 CARTERS CREEK, TN
Version Date:	2022
Southeast Map:	50022726 RALLY HILL, TN
Version Date:	2022

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

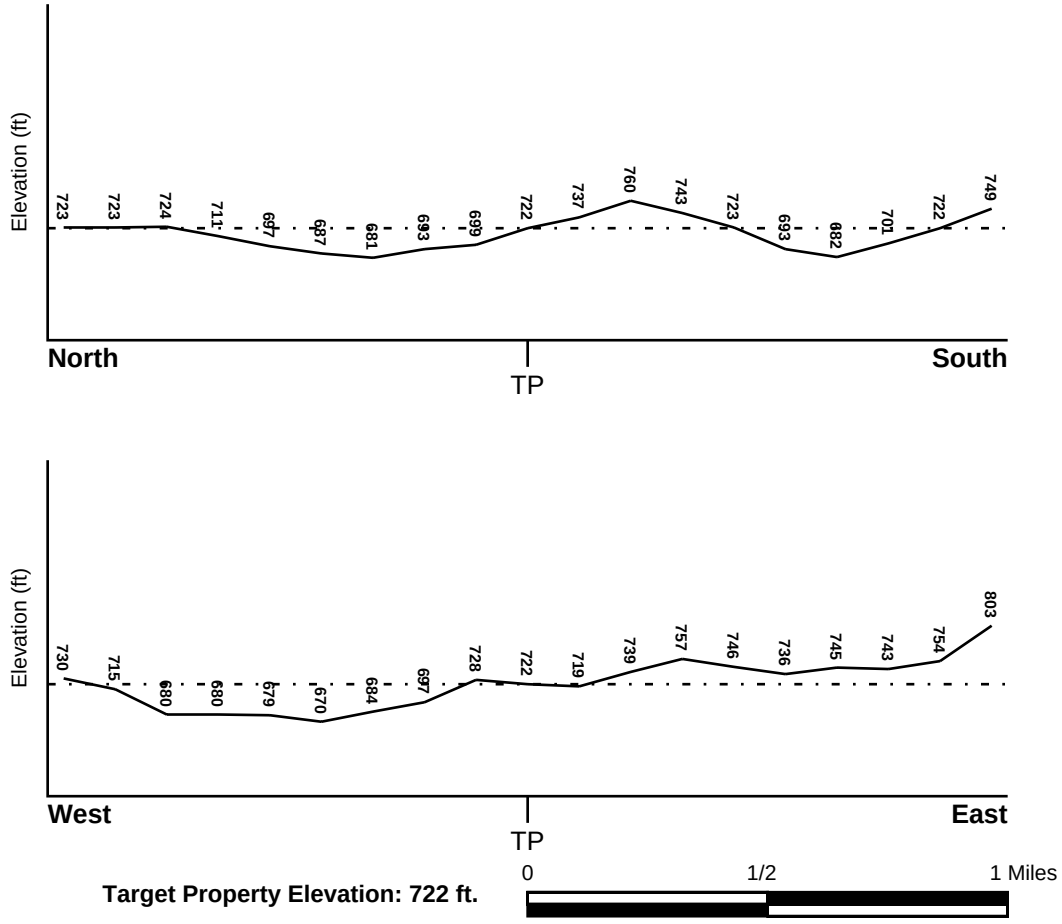
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General NW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Target Property Elevation: 722 ft.

Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
47119C0185E	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
47119C0205E	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
CARTERS CREEK	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

Era:	Paleozoic
System:	Ordovician
Series:	Middle Ordovician (Mohawkian)
Code:	O2 *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name:	NOLIN
Soil Surface Texture:	silt loam
Hydrologic Group:	Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.
Soil Drainage Class:	Well drained. Soils have intermediate water holding capacity. Depth to water table is more than 6 feet.

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: LOW

Depth to Bedrock Min: > 60 inches

Depth to Bedrock Max: > 60 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)	Soil Reaction (pH)
1	0 inches	8 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 2.00 Min: 0.60	Max: 8.40 Min: 5.60
2	8 inches	52 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 2.00 Min: 0.60	Max: 8.40 Min: 5.60
3	52 inches	65 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 6.00 Min: 0.60	Max: 8.40 Min: 5.10

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: unweathered bedrock
silty clay loam

Surficial Soil Types: unweathered bedrock
silty clay loam

Shallow Soil Types: No Other Soil Types

Deeper Soil Types: silty clay loam
silt loam
unweathered bedrock
silty clay
clay

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

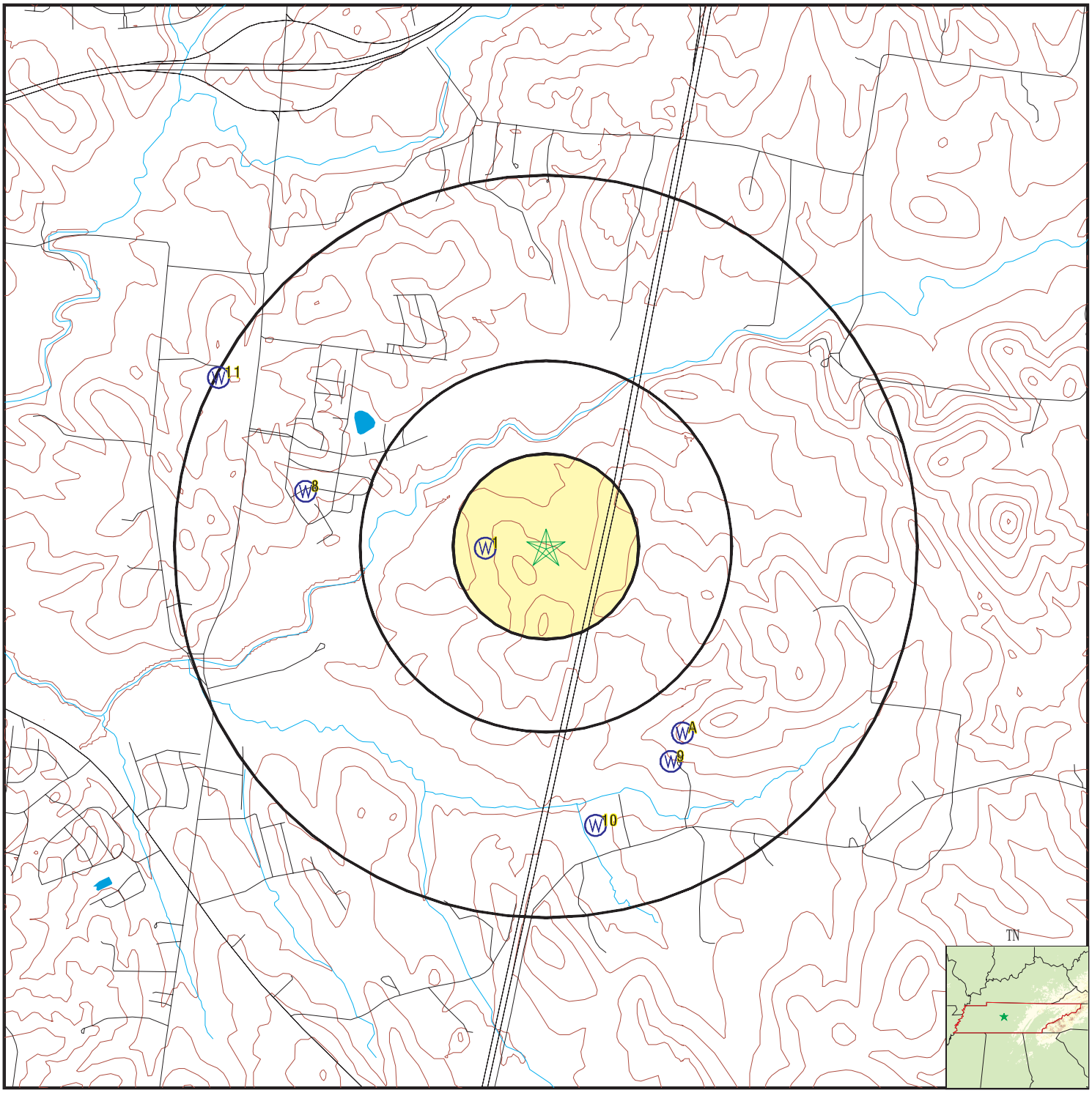
MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	TN8000000040457	1/8 - 1/4 Mile West
A2	TN8000000040463	1/2 - 1 Mile SE
A3	TN8000000040466	1/2 - 1 Mile SE
A4	TN8000000259654	1/2 - 1 Mile SE
A5	TN8000000040453	1/2 - 1 Mile SE
A6	TN8000000040454	1/2 - 1 Mile SE
A7	TN8000000040455	1/2 - 1 Mile SE
8	TN8000000040465	1/2 - 1 Mile WNW
9	TN8000000040665	1/2 - 1 Mile SSE
10	TN8000000040668	1/2 - 1 Mile South
11	TN8000000040451	1/2 - 1 Mile WNW

PHYSICAL SETTING SOURCE MAP - 7525625.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- GI Indeterminate Groundwater Flow at Location
- GV Groundwater Flow Varies at Location
- Oil, gas or related wells

SITE NAME:	Derryberry Lane & Rice Road	CLIENT:	GeoServices, LLC
ADDRESS:	Derryberry Lane & Rice Road Spring Hill TN 37174	CONTACT:	Alexis Tracy
		INQUIRY #:	7525625.2s
LAT/LONG:	35.715625 / 86.881547	DATE:	December 20, 2023 1:46 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

1
West
1/8 - 1/4 Mile
Lower

TN WELLS **TN8000000040457**

Well Number:	20002467	Well Use:	Irrigation
Completion Date:	30-MAR-00	Total Depth (ft):	310
Completion Est Yield (gpm):	5	Casing Type:	Not Reported
Casing Feet Below Ground:	20	License Code:	120
Driller Tag #:	D0043747	Driller Report ID:	220
Inspection Date:	19-APR-00	Inspection Tag #:	28751
Completion Static Levels:	12	Finish Type:	Open Hole
Finish From (ft):	20	Finish to (ft):	310
Form Log:	Yes		

A2
SE
1/2 - 1 Mile
Lower

TN WELLS **TN8000000040463**

Well Number:	20122286	Well Use:	Irrigation
Completion Date:	27-AUG-12	Total Depth (ft):	205
Completion Est Yield (gpm):	0	Casing Type:	Galvanized
Casing Feet Below Ground:	20	License Code:	756
Driller Tag #:	D0098481	Driller Report ID:	0
Inspection Date:	Not Reported	Inspection Tag #:	0
Completion Static Levels:	0	Finish Type:	Open Hole
Finish From (ft):	0	Finish to (ft):	0
Form Log:	Yes		

A3
SE
1/2 - 1 Mile
Lower

TN WELLS **TN8000000040466**

Well Number:	98004856	Well Use:	Residential
Completion Date:	30-SEP-98	Total Depth (ft):	410
Completion Est Yield (gpm):	4	Casing Type:	Steel
Casing Feet Below Ground:	20	License Code:	15
Driller Tag #:	D0030046	Driller Report ID:	95
Inspection Date:	Not Reported	Inspection Tag #:	0
Completion Static Levels:	0	Finish Type:	Open Hole
Finish From (ft):	20	Finish to (ft):	410
Form Log:	No		

A4
SE
1/2 - 1 Mile
Lower

TN WELLS **TN8000000259654**

Well Number:	18702622	Well Use:	Residential
Completion Date:	07-DEC-84	Total Depth (ft):	803
Completion Est Yield (gpm):	7	Casing Type:	Steel
Casing Feet Below Ground:	20	License Code:	15

Driller Tag #:	Not Reported	Driller Report ID:	770
Inspection Date:	Not Reported	Inspection Tag #:	0
Completion Static Levels:	40	Finish Type:	Open Hole
Finish From (ft):	20	Finish to (ft):	803
Form Log:	No		

A5
SE **TN WELLS** **TN8000000040453**
1/2 - 1 Mile
Lower

Well Number:	11900638	Well Use:	Farm
Completion Date:	05-JUL-72	Total Depth (ft):	755
Completion Est Yield (gpm):	6	Casing Type:	Steel
Casing Feet Below Ground:	23	License Code:	120
Driller Tag #:	Not Reported	Driller Report ID:	730
Inspection Date:	Not Reported	Inspection Tag #:	0
Completion Static Levels:	0	Finish Type:	Not Reported
Finish From (ft):	0	Finish to (ft):	0
Form Log:	No		

A6
SE **TN WELLS** **TN8000000040454**
1/2 - 1 Mile
Lower

Well Number:	11900663	Well Use:	Not Reported
Completion Date:	01-JUN-73	Total Depth (ft):	405
Completion Est Yield (gpm):	3	Casing Type:	Steel
Casing Feet Below Ground:	20	License Code:	178
Driller Tag #:	Not Reported	Driller Report ID:	370
Inspection Date:	Not Reported	Inspection Tag #:	0
Completion Static Levels:	0	Finish Type:	Not Reported
Finish From (ft):	0	Finish to (ft):	0
Form Log:	Yes		

A7
SE **TN WELLS** **TN8000000040455**
1/2 - 1 Mile
Lower

Well Number:	11901009	Well Use:	Residential
Completion Date:	01-JUL-81	Total Depth (ft):	350
Completion Est Yield (gpm):	0	Casing Type:	Steel
Casing Feet Below Ground:	21	License Code:	15
Driller Tag #:	Not Reported	Driller Report ID:	0
Inspection Date:	Not Reported	Inspection Tag #:	0
Completion Static Levels:	0	Finish Type:	Not Reported
Finish From (ft):	0	Finish to (ft):	0
Form Log:	Yes		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

8
WNW
1/2 - 1 Mile
Lower

TN WELLS **TN8000000040465**

Well Number:	20190665	Well Use:	Heat Pump
Completion Date:	22-APR-19	Total Depth (ft):	300
Completion Est Yield (gpm):	0	Casing Type:	Not Reported
Casing Feet Below Ground:	0	License Code:	1014
Driller Tag #:	GEO4013	Driller Report ID:	0
Inspection Date:	30-APR-19	Inspection Tag #:	64533
Completion Static Levels:	0	Finish Type:	Not Reported
Finish From (ft):	0	Finish to (ft):	0
Form Log:	Yes		

9
SSE
1/2 - 1 Mile
Lower

TN WELLS **TN8000000040665**

Well Number:	95005055	Well Use:	Residential
Completion Date:	06-OCT-95	Total Depth (ft):	832
Completion Est Yield (gpm):	6	Casing Type:	Not Reported
Casing Feet Below Ground:	20	License Code:	120
Driller Tag #:	D0014322	Driller Report ID:	805
Inspection Date:	24-OCT-96	Inspection Tag #:	18371
Completion Static Levels:	110	Finish Type:	Open Hole
Finish From (ft):	20	Finish to (ft):	832
Form Log:	No		

10
South
1/2 - 1 Mile
Lower

TN WELLS **TN8000000040668**

Well Number:	97002685	Well Use:	Residential
Completion Date:	02-JUL-97	Total Depth (ft):	744
Completion Est Yield (gpm):	3	Casing Type:	Not Reported
Casing Feet Below Ground:	20	License Code:	227
Driller Tag #:	D0021542	Driller Report ID:	710
Inspection Date:	14-JUL-98	Inspection Tag #:	21133
Completion Static Levels:	112	Finish Type:	Open Hole
Finish From (ft):	20	Finish to (ft):	744
Form Log:	No		

11
WNW
1/2 - 1 Mile
Higher

TN WELLS **TN8000000040451**

Well Number:	11900056	Well Use:	Residential
Completion Date:	30-APR-64	Total Depth (ft):	75
Completion Est Yield (gpm):	10	Casing Type:	Steel
Casing Feet Below Ground:	38	License Code:	7

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Driller Tag #:	Not Reported	Driller Report ID:	55
Inspection Date:	Not Reported	Inspection Tag #:	0
Completion Static Levels:	15	Finish Type:	Not Reported
Finish From (ft):	0	Finish to (ft):	0
Form Log:	No		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: TN Radon

Radon Test Results

County	Total Sites	Avg	Max	<4 pCi/L	4-10 pCi/L	10-20 pCi/L	20-50 pCi/L	50-100 pCi/L	>100 pCi/L
MAURY	13	4.8	14.6	9	1	3	0	0	0

Federal EPA Radon Zone for MAURY County: 1

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for MAURY COUNTY, TN

Number of sites tested: 27

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	2.878 pCi/L	70%	30%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	6.842 pCi/L	42%	50%	8%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Environment & Conservation
Telephone: 651-532-0052

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

County Water Wells in Tennessee
Source: Department of Environment and Conservation
Telephone: 615-532-0160
Water well locations for the entire state.

Oil and Gas Well Database
Department of Environment & Conservation
Telephone: 615-687-7109
A listing of locations of oil and gas well permits issued across the state.

OTHER STATE DATABASE INFORMATION

RADON

State Database: TN Radon
Source: Department of Environment & Conservation
Telephone: 615-299-9725
Radon Test Results

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

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APPENDIX E

Historical Aerial Photographs

Derryberry Lane & Rice Road

Derryberry Lane & Rice Road

Spring Hill, TN 37174

Inquiry Number: 7525625.8

December 20, 2023

The EDR Aerial Photo Decade Package

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

12/20/23

Site Name:

Derryberry Lane & Rice Road
Derryberry Lane & Rice Road
Spring Hill, TN 37174
EDR Inquiry # 7525625.8

Client Name:

GeoServices, LLC
P.O. Box 23894
Knoxville, TN 37933
Contact: Alexis Tracy

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

Year	*Scale*	*Details*	*Source*
2018	1"=750'	Flight Year: 2018	USDA/NAIP
2014	1"=750'	Flight Year: 2014	USDA/NAIP
2010	1"=750'	Flight Year: 2010	USDA/NAIP
2007	1"=750'	Flight Year: 2007	USDA/NAIP
1999	1"=750'	Acquisition Date: January 01, 1999	USGS/DOQQ
1992	1"=750'	Flight Date: March 17, 1992	USGS
1981	1"=750'	Flight Date: February 24, 1981	USDA
1979	1"=750'	Flight Date: April 06, 1979	USGS
1975	1"=750'	Flight Date: April 01, 1975	USGS
1964	1"=750'	Flight Date: February 24, 1964	USGS
1958	1"=750'	Flight Date: April 12, 1958	USGS
1953	1"=750'	Flight Date: October 23, 1953	USGS

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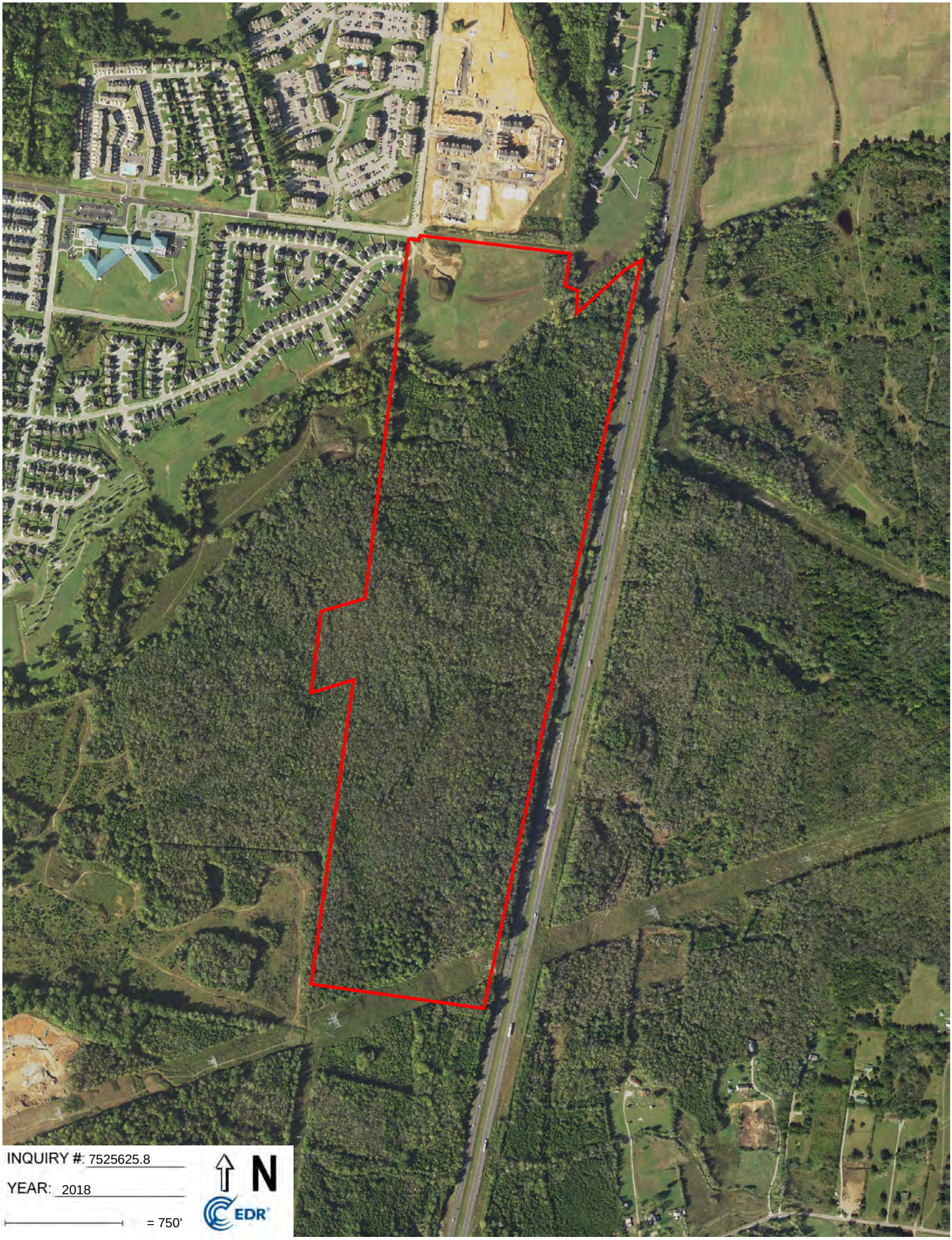
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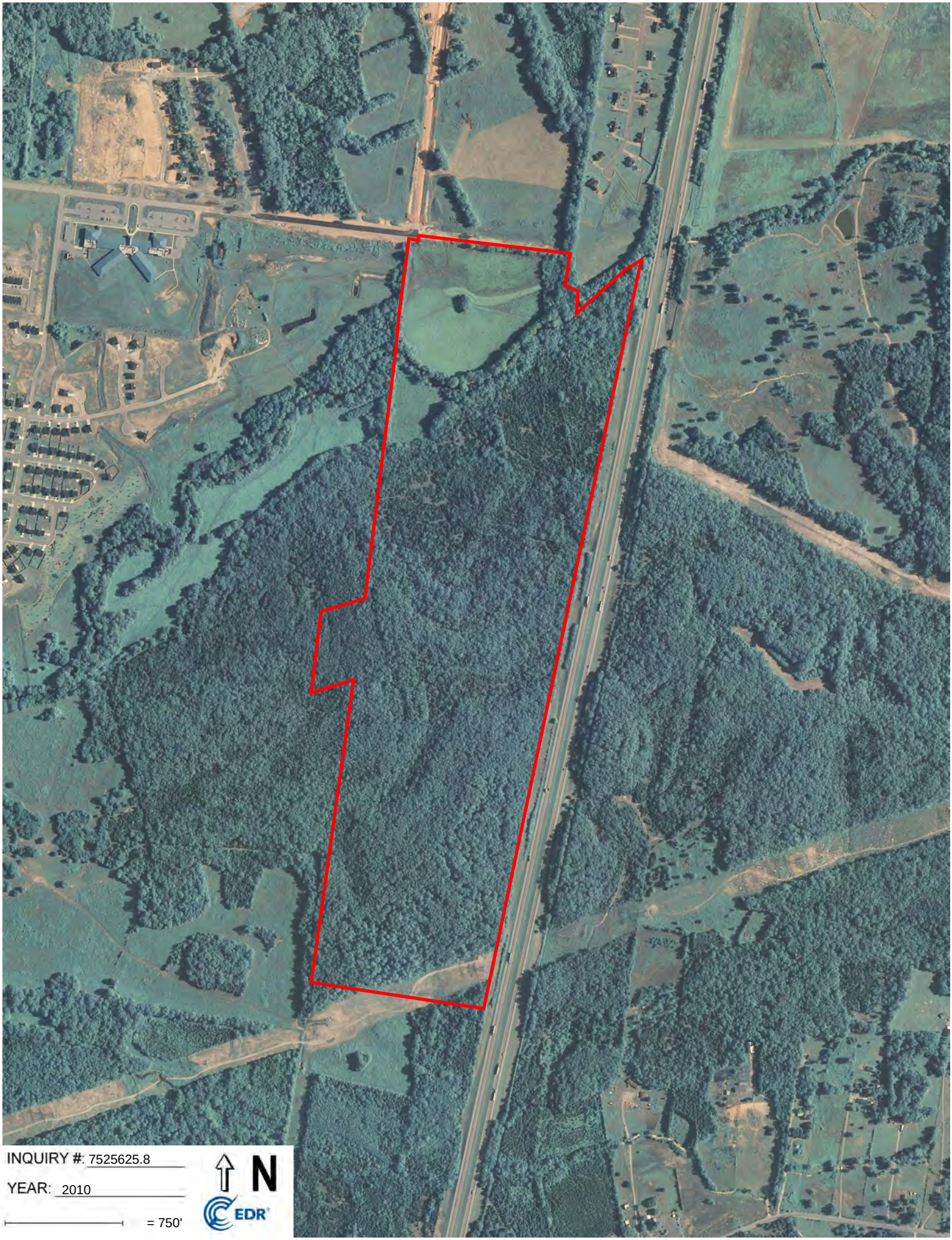
YEAR: 2018
= 750'
N
EDR

INQUIRY #: 7525625.8
YEAR: 2014
= 750'
N
EDR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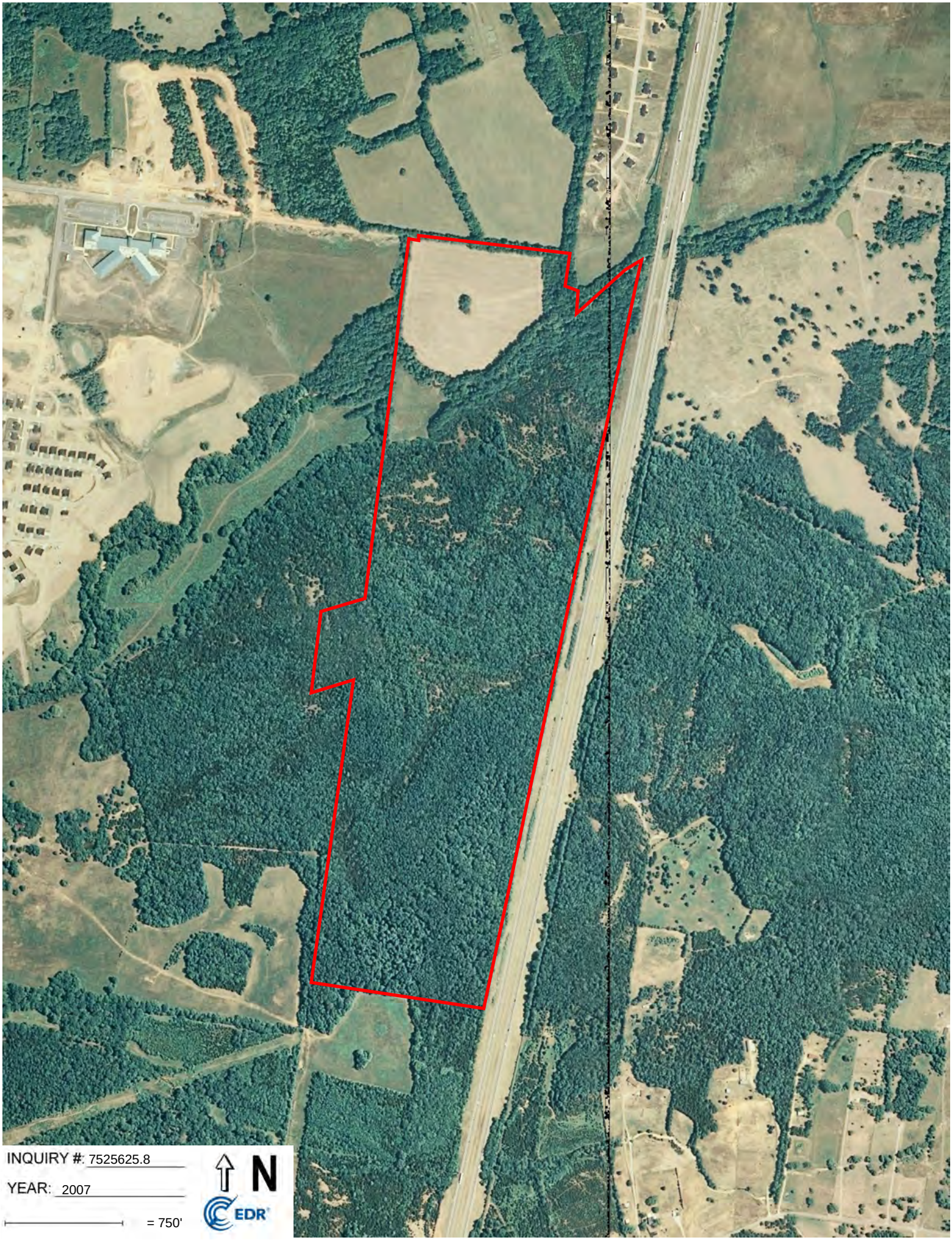
YEAR: 2010
= 750'
N
EDR


INQUIRY #: 7525625.8
YEAR: 2007
= 750'
N
EDR

INQUIRY #: 7525625.8
YEAR: 1999
= 750'
N
EDR

INQUIRY #: 7525625.8

YEAR: 1992

= 750'

N

EDR

Subject boundary not shown because it exceeds image extent or image is not georeferenced.

INQUIRY #: 7525625.8
YEAR: 1981
= 750'
N
EDR

INQUIRY #: 7525625.8

YEAR: 1979

= 750'

N

EDR

Subject boundary not shown because it exceeds image extent or image is not georeferenced.

INQUIRY #: 7525625.8
YEAR: 1975
= 750'
N
EDR

INQUIRY #: 7525625.8

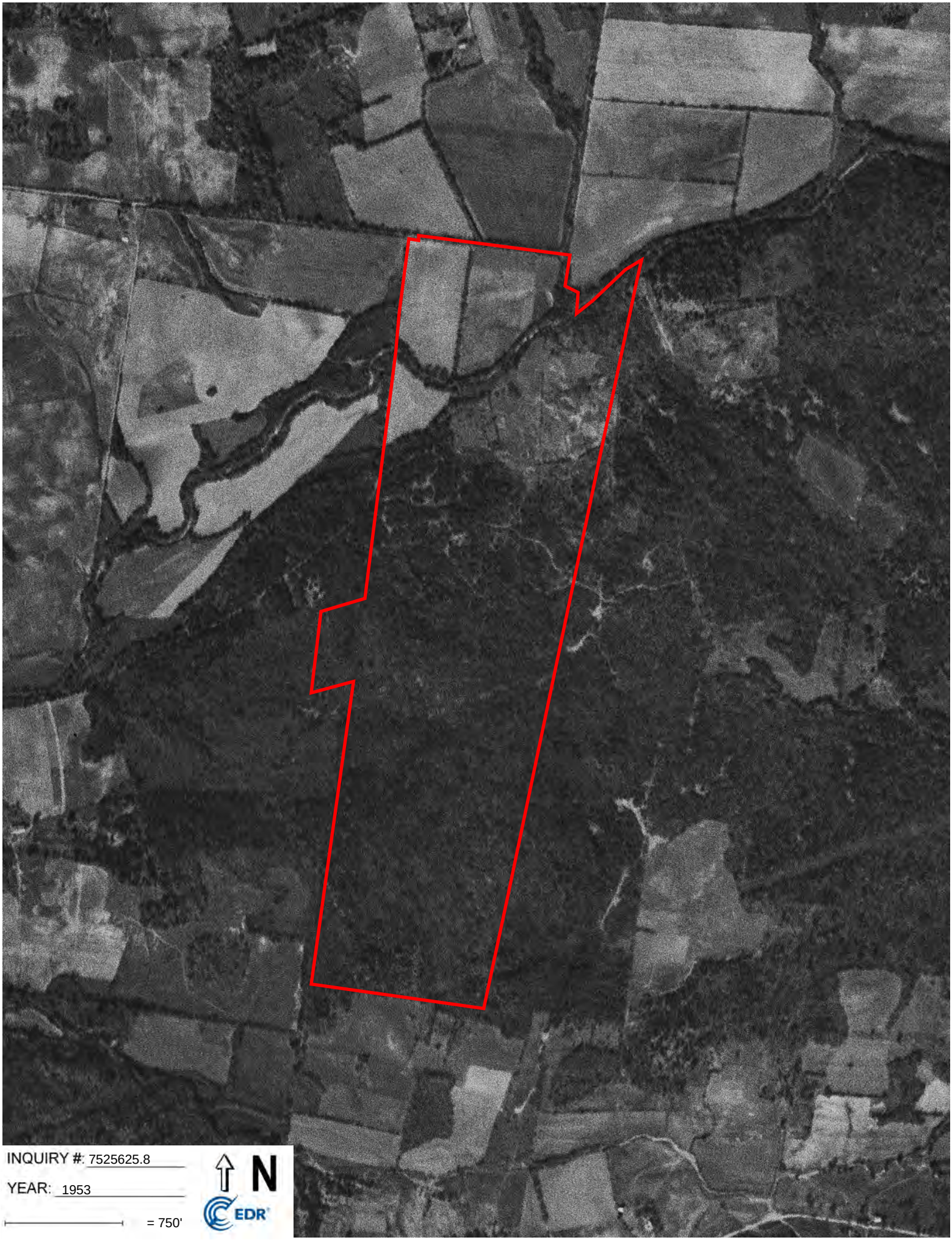
YEAR: 1964

= 750'

N

EDR

INQUIRY #: 7525625.8
YEAR: 1958
= 750'
N
EDR


INQUIRY #: 7525625.8
YEAR: 1953
= 750'
N
EDR

APPENDIX F

Historical Topographic Maps

Derryberry Lane & Rice Road

Derryberry Lane & Rice Road

Spring Hill, TN 37174

Inquiry Number: 7525625.4

December 20, 2023

EDR Historical Topo Map Report

with QuadMatch™

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Historical Topo Map Report

12/20/23

Site Name:

Derryberry Lane & Rice Road
Derryberry Lane & Rice Road
Spring Hill, TN 37174
EDR Inquiry # 7525625.4

Client Name:

GeoServices, LLC
P.O. Box 23894
Knoxville, TN 37933
Contact: Alexis Tracy

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by GeoServices, LLC were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:

P.O.# Stone Creek Spring Hill Dev
Project: Stone Creek Spring Hill Dev

Coordinates:

Latitude:	35.715625 35° 42' 56" North
Longitude:	-86.881547 -86° 52' 54" West
UTM Zone:	Zone 16 North
UTM X Meters:	510714.09
UTM Y Meters:	3952414.32
Elevation:	721.68' above sea level

Maps Provided:

2022
2019
2016
2013
1981, 1982
1965, 1967
1947
1941
1936

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Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2022 Source Sheets

Carters Creek
2022
7.5-minute, 24000

Rally Hill
2022
7.5-minute, 24000

2019 Source Sheets

Carters Creek
2019
7.5-minute, 24000

Rally Hill
2019
7.5-minute, 24000

2016 Source Sheets

Carters Creek
2016
7.5-minute, 24000

Rally Hill
2016
7.5-minute, 24000

2013 Source Sheets

Carters Creek
2013
7.5-minute, 24000

Rally Hill
2013
7.5-minute, 24000

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1981, 1982 Source Sheets

Rally Hill
1981
7.5-minute, 24000
Aerial Photo Revised 1979

Carters Creek
1982
7.5-minute, 24000
Aerial Photo Revised 1979

1965, 1967 Source Sheets

Carters Creek
1965
7.5-minute, 24000
Aerial Photo Revised 1964

Rally Hill
1967
7.5-minute, 24000
Aerial Photo Revised 1966

1947 Source Sheets

Rally Hill
1947
7.5-minute, 24000

1941 Source Sheets

Carters Creek
1941
7.5-minute, 24000

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

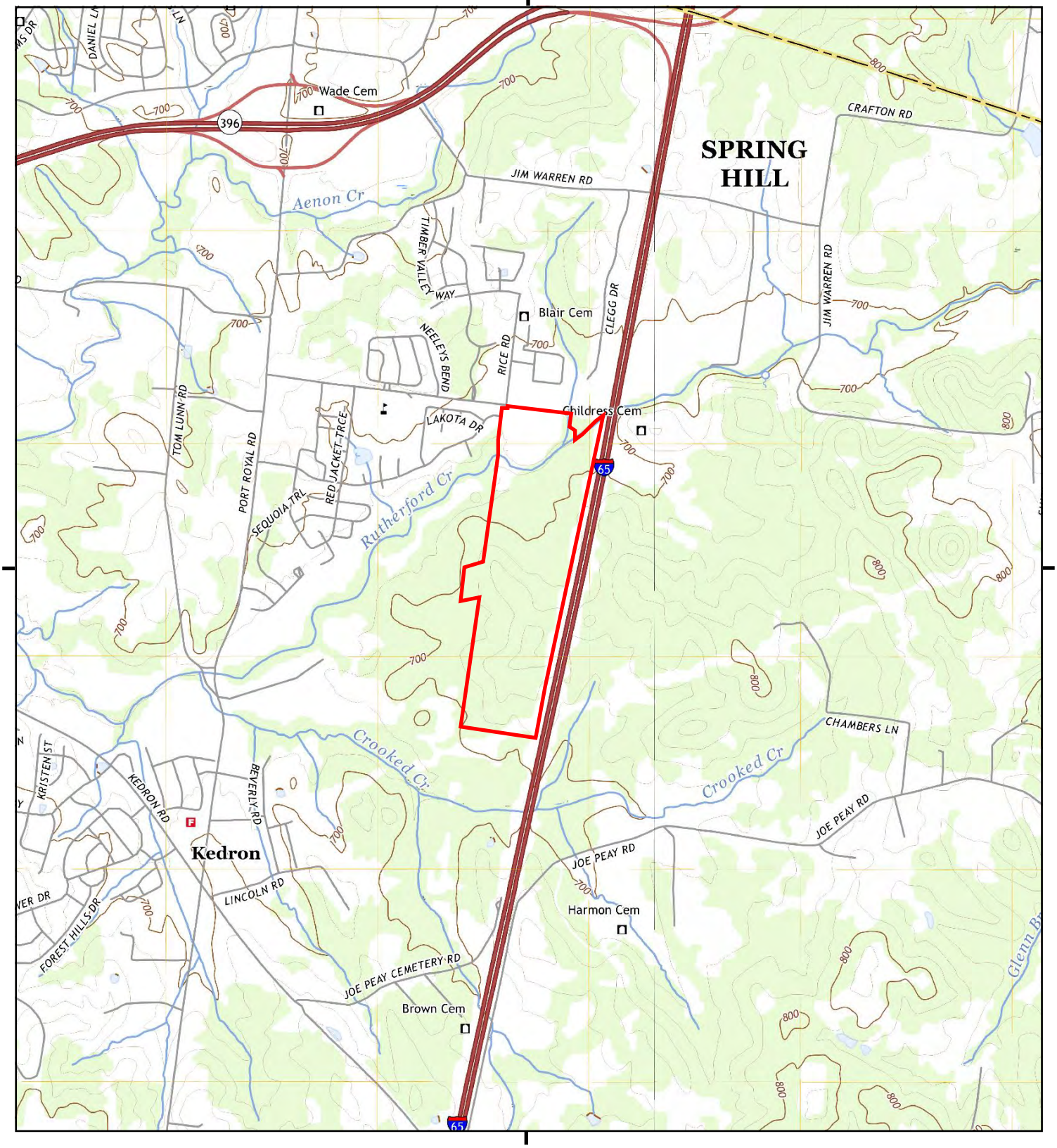
1936 Source Sheets

Carters Creek
1936
7.5-minute, 24000

Rally Hill
1936
7.5-minute, 24000

Historical Topo Map

2022



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

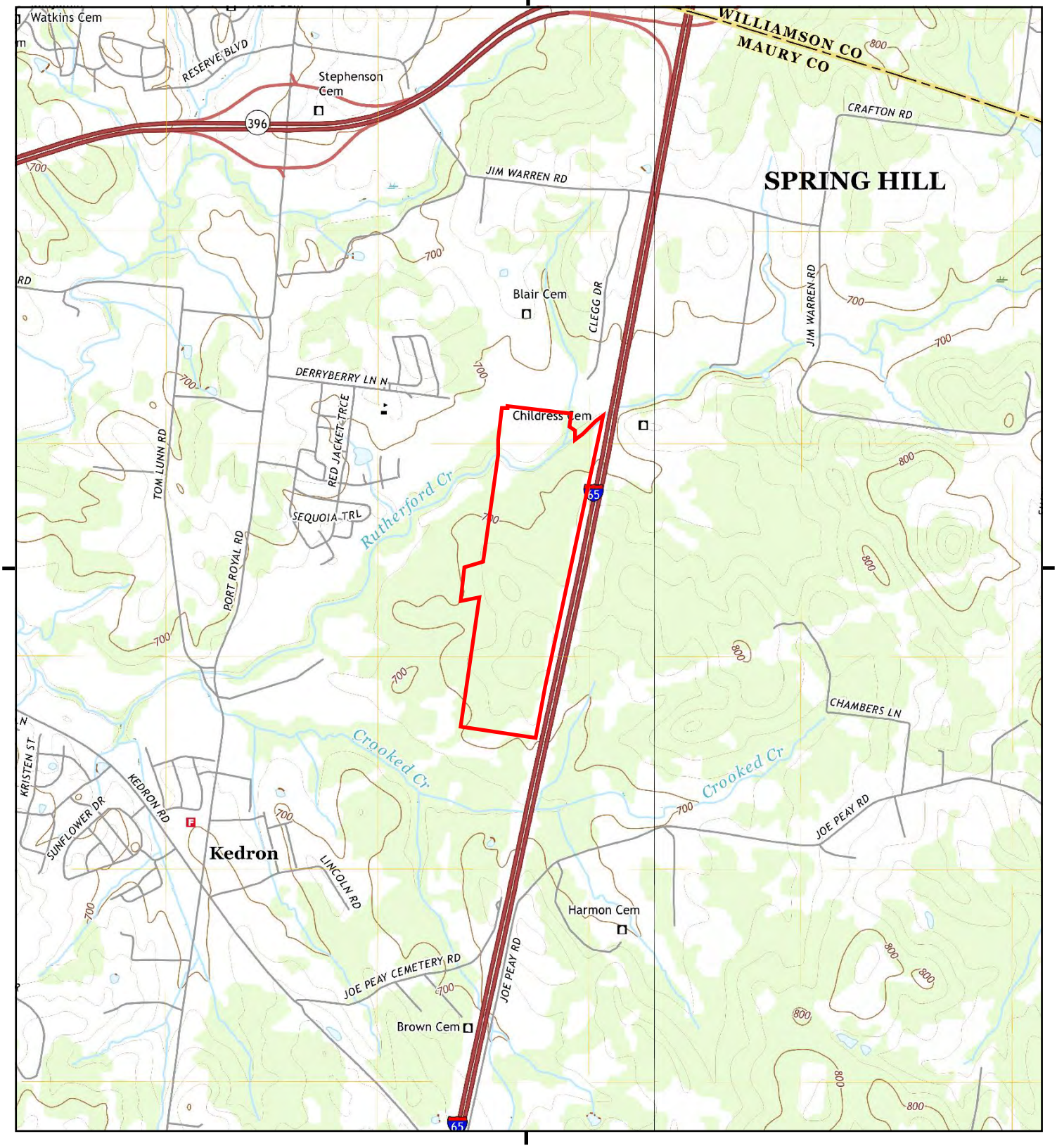
TP, Carters Creek, 2022, 7.5-minute
SE, Rally Hill, 2022, 7.5-minute

SITE NAME: Derryberry Lane & Rice Road
ADDRESS: Derryberry Lane & Rice Road
Spring Hill, TN 37174
CLIENT: GeoServices, LLC

N

Historical Topo Map

2019



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

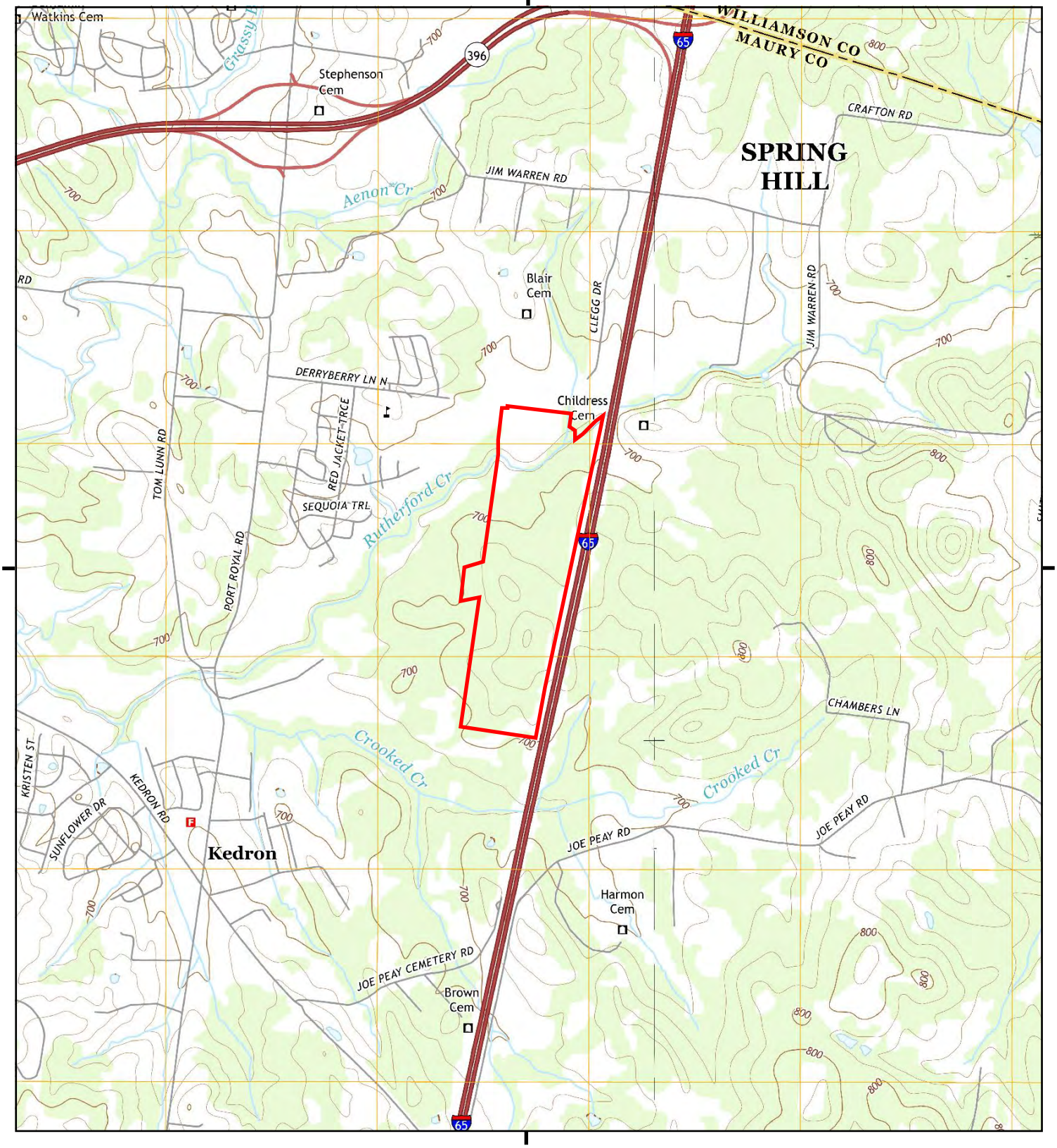
TP, Carters Creek, 2019, 7.5-minute
SE, Rally Hill, 2019, 7.5-minute

SITE NAME: Derryberry Lane & Rice Road
ADDRESS: Derryberry Lane & Rice Road
Spring Hill, TN 37174
CLIENT: GeoServices, LLC

N

Historical Topo Map

2016



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0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

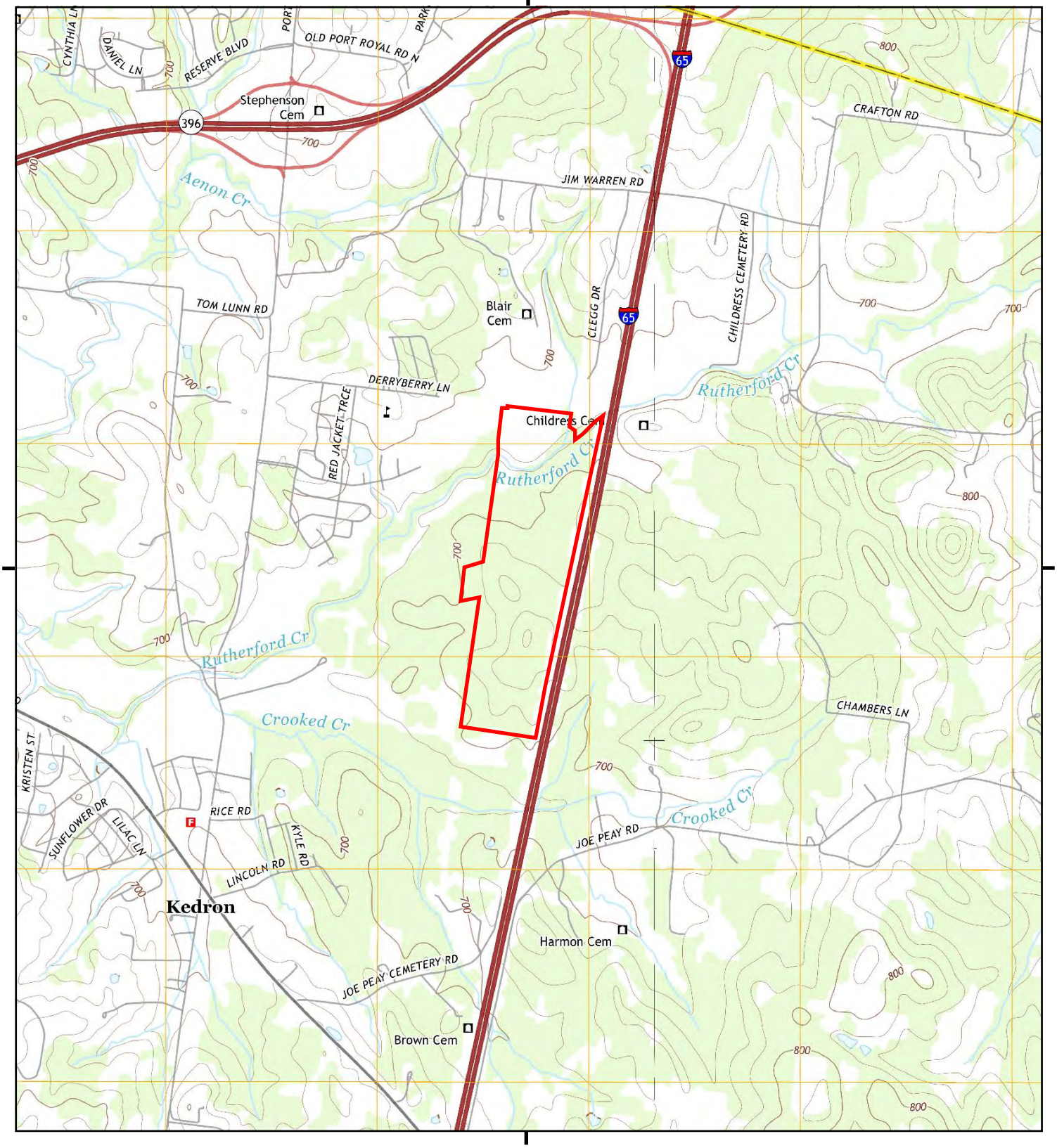
TP, Carters Creek, 2016, 7.5-minute
SE, Rally Hill, 2016, 7.5-minute

SITE NAME: Derryberry Lane & Rice Road
ADDRESS: Derryberry Lane & Rice Road
Spring Hill, TN 37174
CLIENT: GeoServices, LLC

N

Historical Topo Map

2013



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

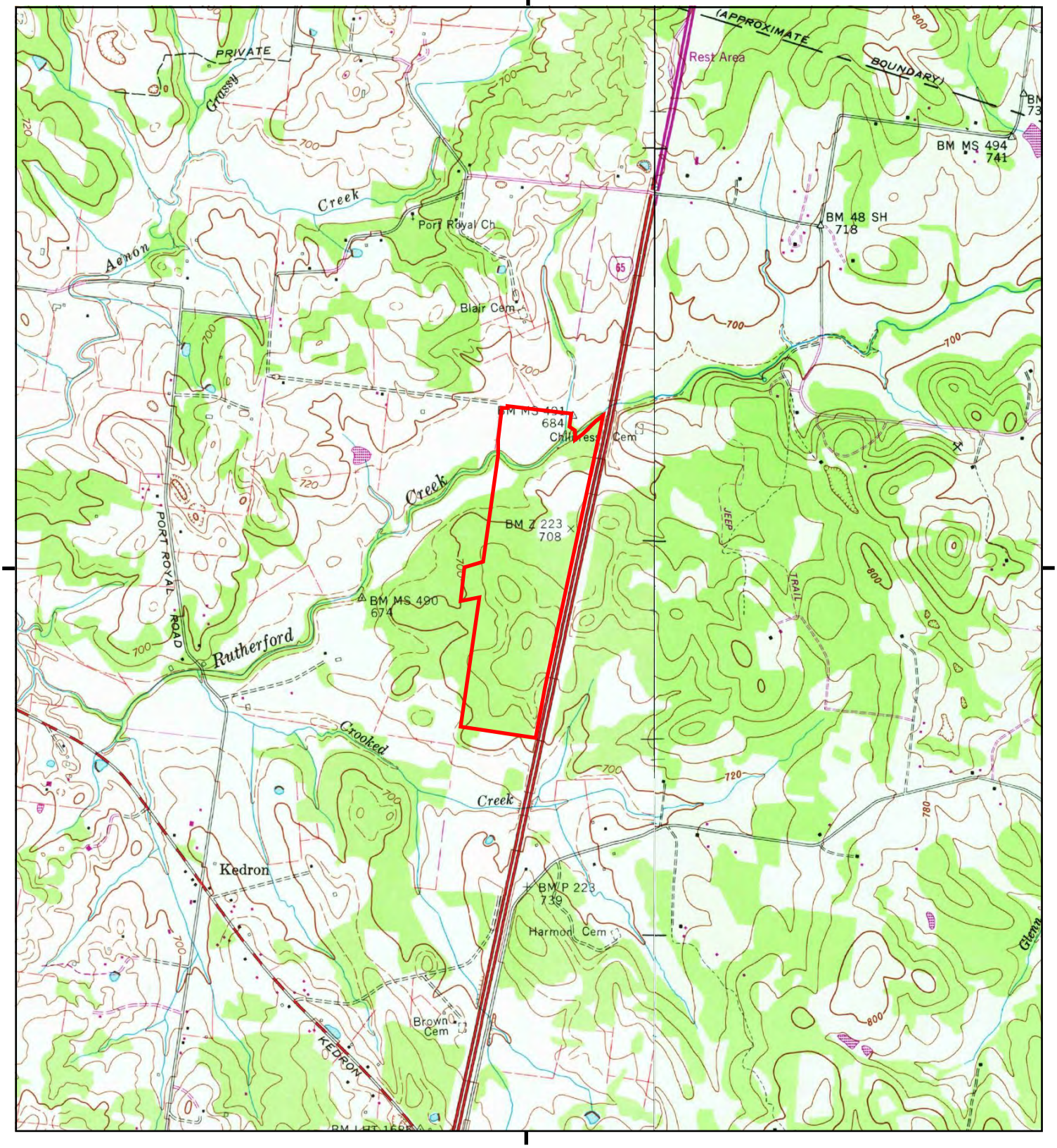
TP, Carters Creek, 2013, 7.5-minute
SE, Rally Hill, 2013, 7.5-minute

SITE NAME: Derryberry Lane & Rice Road
ADDRESS: Derryberry Lane & Rice Road
Spring Hill, TN 37174
CLIENT: GeoServices, LLC

N

Historical Topo Map

1981, 1982



This report includes information from the following map sheet(s).

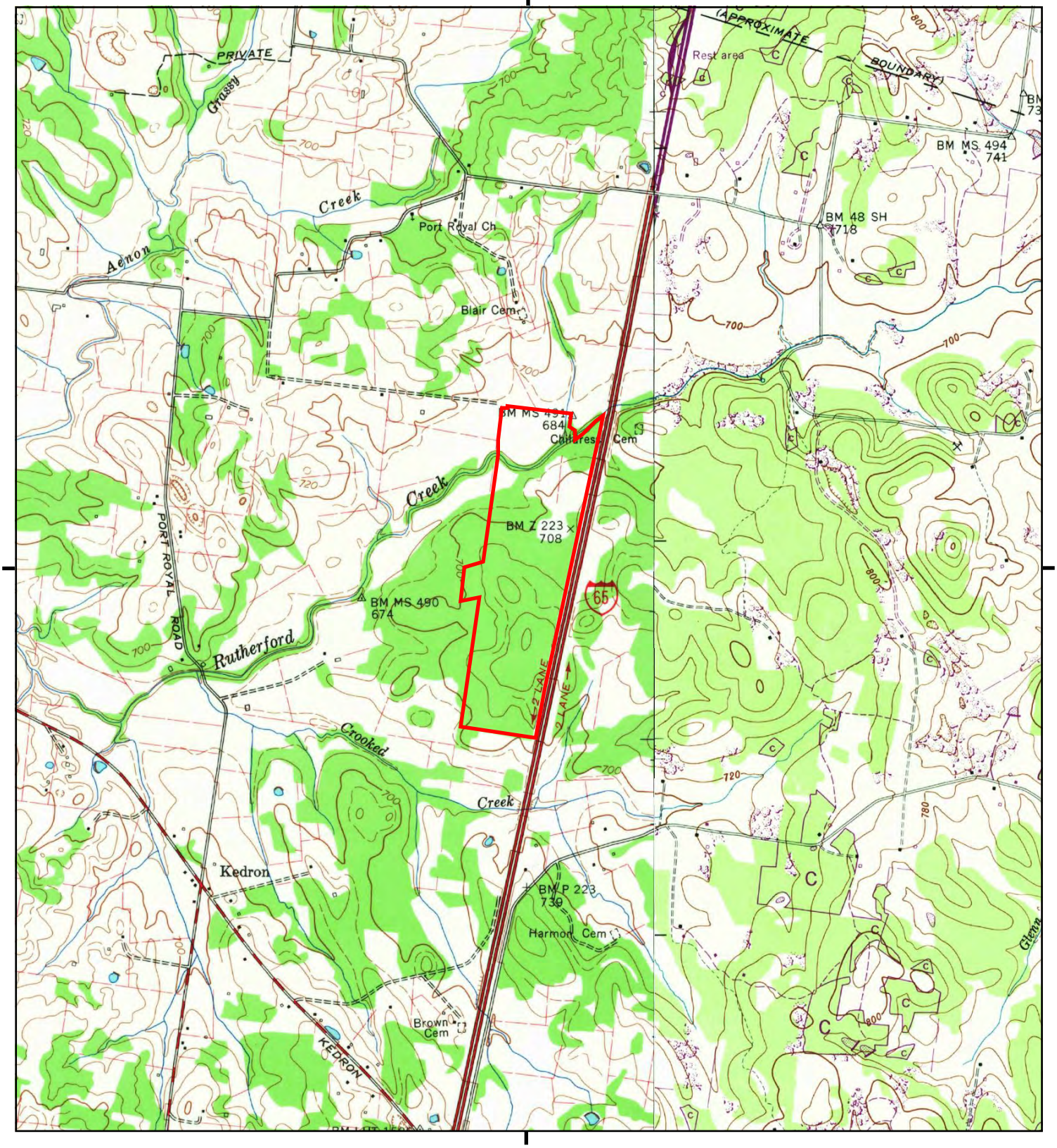
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Carters Creek, 1982, 7.5-minute
SE, Rally Hill, 1981, 7.5-minute

SITE NAME: Derryberry Lane & Rice Road
ADDRESS: Derryberry Lane & Rice Road
Spring Hill, TN 37174
CLIENT: GeoServices, LLC

N



This report includes information from the following map sheet(s).

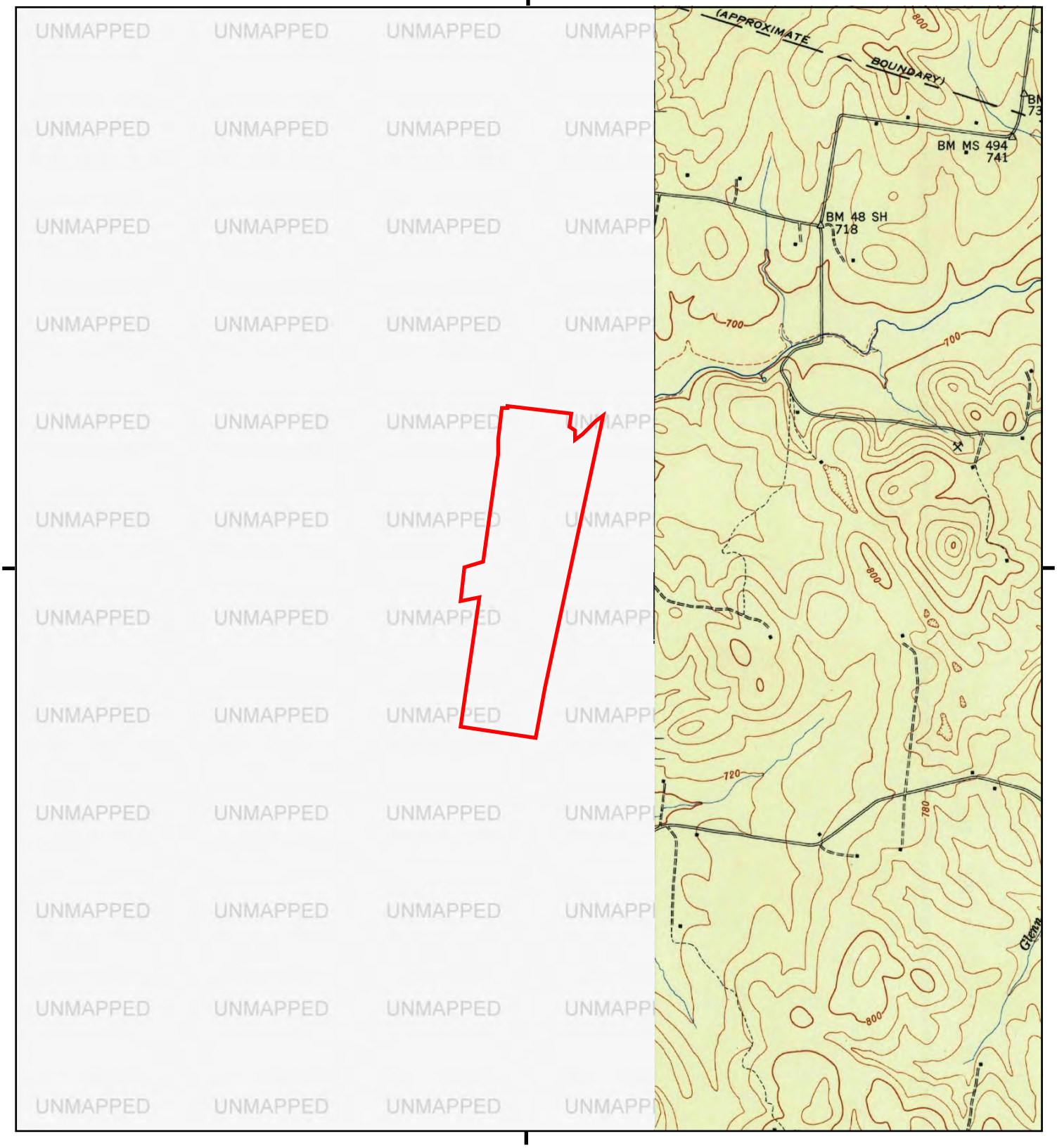
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Carters Creek, 1965, 7.5-minute
SE, Rally Hill, 1967, 7.5-minute

SITE NAME: Derryberry Lane & Rice Road
ADDRESS: Derryberry Lane & Rice Road
Spring Hill, TN 37174
CLIENT: GeoServices, LLC

N



This report includes information from the following map sheet(s).

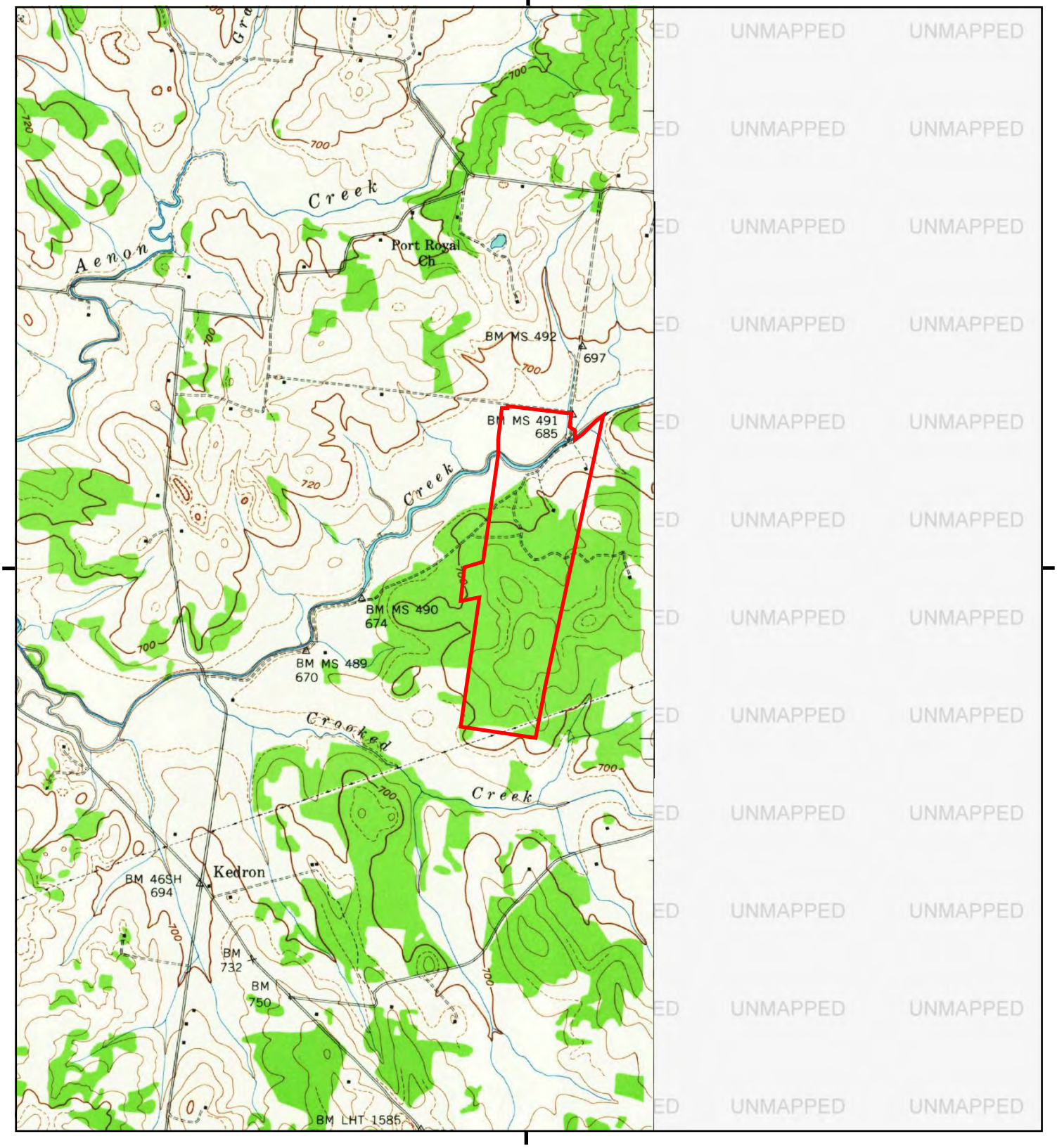
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

SE, Rally Hill, 1947, 7.5-minute

SITE NAME: Derryberry Lane & Rice Road
ADDRESS: Derryberry Lane & Rice Road
Spring Hill, TN 37174
CLIENT: GeoServices, LLC

N



This report includes information from the following map sheet(s).

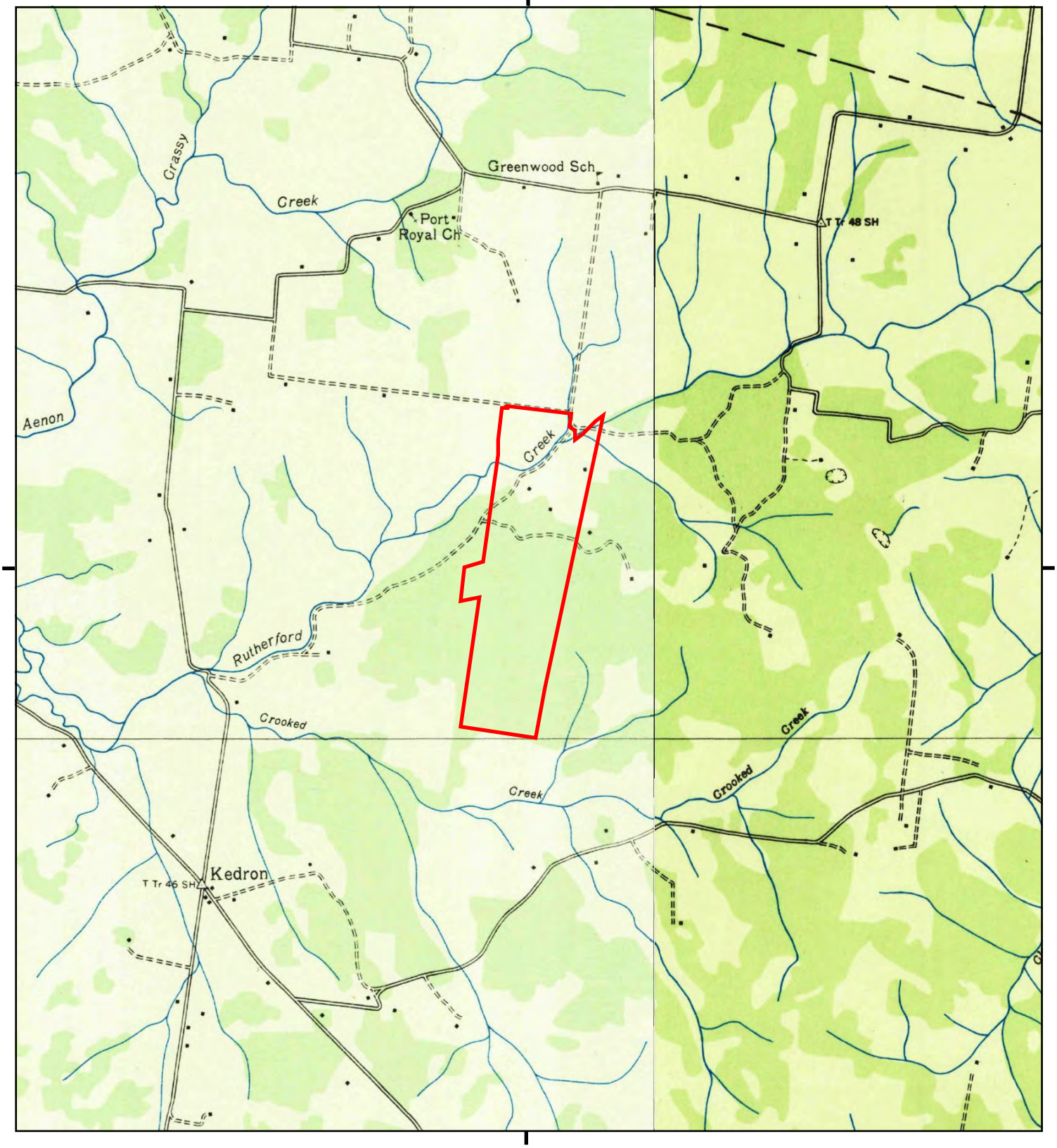
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Carters Creek, 1941, 7.5-minute

SITE NAME: Derryberry Lane & Rice Road
ADDRESS: Derryberry Lane & Rice Road
Spring Hill, TN 37174
CLIENT: GeoServices, LLC

N



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Carters Creek, 1936, 7.5-minute
SE, Rally Hill, 1936, 7.5-minute

SITE NAME: Derryberry Lane & Rice Road
ADDRESS: Derryberry Lane & Rice Road
Spring Hill, TN 37174
CLIENT: GeoServices, LLC

N

APPENDIX G

City Directory Report

Derryberry Lane & Rice Road
Derryberry Lane & Rice Road
Spring Hill, TN 37174

Inquiry Number: 7525625.5
December 21, 2023

The EDR-City Directory Image Report

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

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City Directory Images

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available business directory data at approximately five year intervals.

RECORD SOURCES

The EDR City Directory Report accesses a variety of business directory sources, including Haines, InfoUSA, Polk, Cole, Bresser, and Stewart. Listings marked as EDR Digital Archive access Cole and InfoUSA records. The various directory sources enhance and complement each other to provide a more thorough and accurate report.

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RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

Year	*Target Street*	*Cross Street*	*Source*
2020	☐	☑	EDR Digital Archive
2017	☐	☑	Cole Information
2014	☐	☑	Cole Information
2010	☐	☑	Cole Information
2005	☐	☐	Cole Information
2000	☐	☐	Cole Information
1995	☐	☐	Cole Information
1992	☐	☐	Cole Information

FINDINGS

TARGET PROPERTY STREET

Derryberry Lane & Rice Road
Spring Hill, TN 37174

Year	*CD Image*	*Source*	
DEWBERRY LN			
2020	-	EDR Digital Archive	Street not listed in Source
2017	-	Cole Information	Street not listed in Source
2014	-	Cole Information	Street not listed in Source
2010	-	Cole Information	Street not listed in Source
2005	-	Cole Information	Street not listed in Source
2000	-	Cole Information	Street not listed in Source
1995	-	Cole Information	Street not listed in Source
1992	-	Cole Information	Street not listed in Source
RICE RD			
2020	-	EDR Digital Archive	Street not listed in Source
2017	-	Cole Information	Street not listed in Source
2014	-	Cole Information	Street not listed in Source
2010	-	Cole Information	Street not listed in Source
2005	-	Cole Information	Street not listed in Source
2000	-	Cole Information	Street not listed in Source
1995	-	Cole Information	Street not listed in Source
1992	-	Cole Information	Street not listed in Source

FINDINGS

CROSS STREETS

Year	*CD Image*	*Source*	
LONGHUNTER CHASE DR			
2020	pg. A2	EDR Digital Archive	
2017	pg. A5	Cole Information	
2014	pg. A6	Cole Information	
2010	pg. A7	Cole Information	
2005	-	Cole Information	Street not listed in Source
2000	-	Cole Information	Street not listed in Source
1995	-	Cole Information	Street not listed in Source
1992	-	Cole Information	Street not listed in Source

City Directory Images

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

LONGHUNTER CHASE DR 2020

1003	JENNIFER VALONE
1005	DENNIS CADUGAN
	KILEY PAGE
	LISA CADUGAN
	STEVEN LOTTER
1006	ROBERT SPARKMAN
1007	COLETTE MOONEY
1008	DAVID SCHINDEL
	DAVID THOMA
	KATHLEEN THOMA
1009	ALLISON POTTS
	DALTON POTTS
1010	ANNE LUEDTKE
	BRANT PEWITT
	JERROD KITCHEN
	JOHN PEWITT
1011	PRISCILLA BOOTH
	RONALD BOOTH
1012	DARRIL GETTEL
	LELA GETTEL
1014	RAMIRO MUNOZ
	SERGIO MUNOZ
1016	JASON BARIL
	MONICA DELAITE
1017	DAVID HARGROVE
1018	CHERYL HAWKS
	EVELYN HAWKS
	JOHN BRAKE
1019	AUSTIN VICK
	CHRISTOPHER VICK
	DANA VICK
1021	JACKIE BRITT
1024	MELINDA YANCEY
2074	DAVID GRODI
2075	PHILLIP KINAN
2077	DONALD MITCHELL
	ROBERT NECKER
2078	JASON KEEL
2079	AMY PLATNER
2081	ALEXIS ZUNIGA
2083	EDWARD ALVORD
	TERRI ALVORD
2085	JUSTIN STOKES
	MEAGAN STOKES
	SHARON STOKES
2087	FREDA MEEKMA
	PETER MEEKMA
	ROBERT MEEKMA
2089	ERIK ROBERTS
2091	JEREMY ROSS

LONGHUNTER CHASE DR 2020 (Cont'd)

2091	JESSICA ROSS
2092	CATHERINE MANGA
2093	MARCELO SANZ
2095	JEREMY STEWART
	JOHN BOTTEICHER
2097	JON CADLE
	LINDSEY CADLE
2099	AUSTIN MASINGALE
	CHELSEA STEPHENS
	CHELSEA VANTREASE
2100	DEBORAH SCHOBER
	ERYKA SCHOBER
	RICHARD SCHOBER
2101	CYNTHIA GARRISON
2102	KATIE COLLETT
	MACKENZIE PRICE
	MADISON PRICE
	MATTHEW PRICE
	REBECCA PRICE
2103	JUDITH PIERCE
2104	LORI CRAVENS
	LORI LUSK
	TIFFANY LUSK
2105	BRIAN ROBERTS
	STEPHANIE ROBERTS
2107	KASSANDRA VASQUEZ
2109	GRACE PORTER
	LISA FARNEMAN
2110	RONALD REED
	SHIRLEY GOINS
2111	GEORGETTE SEEHAUSEN
2113	ADAM SLAUGHTER
	STACEY SLAUGHTER
2114	PERRY KRIEG
2115	EDWARD CORIN
	ROBERTA CORIN
	TOSHA CORIN
2116	JEREMIAH STEINHAUER
	MARIA ALTMAN
2117	FRANK IZAGUIRRE
	RONALD IZAGUIRRE
2118	ANNA MCCLELLAN
	ANTHONY MC CLELLAN
	CATHERINE BEHRLE
2119	LANA STRICKLAND
2121	SABRINA ARRINGTON
2122	JARED STREET
2123	LINCY REYNOLDS
2124	JASMYN PICCOLO
	ROSEMARY PICCOLO

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

LONGHUNTER CHASE DR 2020 (Cont'd)

2124	SALVATORE PICCOLO
2125	ROBERT SMITH
2126	GREG CHOISSER
	PATRICIA CHOISSER
2127	DEBBIE BRIGHTON
2128	CANDICE PROKOP
	MICHAEL PROKOP
2129	JASON CHIVERS
2130	JONATHAN SCHWARZ
2131	AMANDA RICKLES
	MICHAEL RICKLES
2132	JUDITH DEBORD
2134	JARED HAMPSON
	KIRSTEN HAMPSON
2135	JOSHUA HANSON
	KELCEY BRIDGES
2136	JONATHON ANDERSON
2137	CATHERINE PARSONS
2138	AMANDA BUSH
2139	LINDA WATTS
	VIVIENNE OKMA
2140	PATRICIA STROHMEIER
2141	JESSICA MULHOLLAND
	MICHAEL MULHOLLAND
2142	ALLAELDIN HASSAN
2143	JAKE RUSCH
	MARISSA RUSCH
2144	SESE BENNETT
2145	STACI STILL
2146	JESSEE LOVAAS
	REBEKAH LOVAAS
2148	ANGELA WOODARD
2150	JOSHUA SADLER
	VANESSA SADLER

Target Street	Cross Street	Source
-	✓	Cole Information

LONGHUNTER CHASE DR 2017

1005	LAFRAMBOISE, ANDREW
1007	MOONEY, COLETTE M
1008	BLAIR, KRAIG W
1009	TRELZ, TRACEY L
1010	PEWITT, JOHN B
1011	BOOTH, RONALD L
1012	GETTEL, LELA A
1016	SWAIN, THERESA E
1017	SCOTT, STEVEN L
1018	HAWKS, MICHAEL W
1019	VICK, CHRISTOPHER P

Target Street	Cross Street	Source
-	✓	Cole Information

LONGHUNTER CHASE DR 2014

1005	APARCANA, MARIANA
1006	SPARKMAN, ROBERT
1007	CURRY, COLETTE M
1008	OCCUPANT UNKNOWN,
1009	OCCUPANT UNKNOWN,
1010	LUEDTKE, ANNE M
1011	BOOTH, RONALD L
1012	GETTEL, LELA A
1013	GILL, JASON A
1014	MUNOZ, SERGIO
1016	SWAIN, THERESA E
1017	BARKER, JEFF A
1018	HAWKS, MICHAEL W
1019	VICK, CHRISTOPHER P
1021	BRITT, JACKIE L
1024	JONES, DAN
2074	COWAN, RONALD E
2075	KINAN, PHILLIP M
2077	ZIENTAR, RICHARD M
2078	ETSCH, LISA
2079	FOWLER, SCOTT
2081	WILLIAMS, DAVID L
2083	JEWELL, MELISSA R
2085	HILTON, BENJAMIN
2087	SMITH, DAVE
2089	GUILLORY, GARRETT
2091	ROSS, JESSICA L
2093	OCCUPANT UNKNOWN,
2095	BOTTEICHER, JOHN
2097	ROKEY, KEVIN
2099	TOLZMANN, NATALIE B
2100	KREMER, DANIEL
2101	CESNICK, STEVEN
2102	FELTON, KATHERINE A
2103	PIERCE, JUDITH W
2105	NIGHTINGALE, ROBERT J

Target Street	Cross Street	Source
-	✓	Cole Information

LONGHUNTER CHASE DR 2010

1006	SPARKMAN, ROBERT A
1007	CURRY, COLETTE M
1010	LUEDTKE, ANNE M
1011	BOOTH, RONALD L
1013	GILL, JASON A
1014	MUNOZ, SERGIO
1016	WIENS, LORI J
1017	BARKER, JEFF A
1018	HAWKS, CHERYL L
1021	ASHBURN, TROY V
1024	JONES, DANIEL
2075	KINAN, PHILLIP M
2077	PERKINS, RYAN K
2079	FOWLER, SCOTT
2083	JEWELL, HEATHER M

APPENDIX H

Record of Communication

GEOServices, LLC, Geotechnical and Materials Engineers

Record of Communication

Date: 1/8/2024 Communication with: Maury County Fire Department

Project Name/Number: 34-231889 PhoneNumber/Email: 931-388-0035

Conducted By: A. Tracy Place of Interview: By phone

Summary of Conversation:

On December 20, 2023, Ms. Tracy contacted the Maury County Fire Department for a file review on the subject property and nearby properties, and a file review relating to any fire response records pertaining to calls made for fire, chemical spills, HAZMAT, or any environmental concern to the Subject Property. No records were found for the subject property.

Follow Up: No _____ Yes ___X_____ Explain (including dates, sources, etc.)

APPENDIX I

Resumes

Michael K. Lloyd, P.G.

Environmental Department Manager (Nashville, TN)

YEARS EXPERIENCE
25

EDUCATION
B.S., Environmental Science and Technology;
Minor: Geology;
Middle Tennessee State University,
Murfreesboro, TN; 1999

REGISTRATIONS
Professional Geologist: Tennessee 5057 (2004 to present)

CERTIFICATIONS
TN EPSC Level I (14330)

City of Chattanooga SCM I&M Certification (19-111508)

40-Hour HAZWOPER OSHA Training per 29 CFR 1910.120

8-Hour HAZWOPER Refresher OSHA Training per 29 CFR 1910.120

10-Hour Construction Outreach Training per 29 CFR 1926

TDEC-DUST certified CAS Specialist

DOT - Hazardous Materials Transportation Training

Phase I ESA Workshop, Conestoga-Rovers & Associates, Inc.

Project Manager Training, Conestoga-Rovers & Associates, Inc.

Supervisor Training, Conestoga-Rovers & Associates, Inc.

Motor Vehicle Safety Training

Loss Prevention System (LPS) Training

First Aid / CPR and AED Training

FIELDS OF COMPETENCE
Development, implementation, oversight, and management of emergency response activities, environmental investigations, remedial activities, environmental due diligence (Phase I and II ESAs), permitting, environmental management systems, waste management permitting/characterization/disposal, environmental compliance, Brownfield redevelopments, natural resource management/permitting, Stormwater Pollution Prevention Plan (SWPPP) services/permits/compliance, Spill Prevention Control and Countermeasure services/plans (SPCC), industrial wastewater permitting/compliance/monitoring, hazardous materials assessments (asbestos, lead, PCB, mold, mercury, etc.), and regulatory agency interaction and stakeholder engagement associated with commercial, industrial, manufacturing, aboveground storage tank (AST), underground storage tank (UST) facilities/sites and other petroleum/chemical manufacturing facilities.

EXPERIENCE SUMMARY
Michael Lloyd has over 25 years of experience in the environmental consulting field and is currently a senior project manager, environmental program manager, and branch manager for the Murfreesboro, TN branch with ATC Group Services LLC dba Atlas Technical (Atlas). Specific project experience with site investigations, due diligence assessments, remediation, permitting, compliance (air, water, and waste), Brownfield redevelopments & regulatory negotiations for BVAs, LURs, & engineering/institutional controls, environmental management, health & safety, mold assessments, hazardous materials management, and asbestos/lead-based paint investigations/abatement. Project experience with CERCLA, RCRA, UST/AST, terminals/refineries, numerous State Voluntary Programs, and commercial/industrial sites. Experience includes fieldwork, safety oversight, data interpretation, report preparation, project management, client management, portfolio management, and project geological and technical support.

EMPLOYMENT HISTORY
April 2023 to Present – Senior Project Manager/Environmental Department Manager (Nashville, TN)
GEOServices, LLC
91 South Eastgate Court
Lebanon, TN 37090

- Manage Lebanon, TN GEOServices environmental staff and oversee the environmental service line. National, Regional, and Local client interaction and management. Supervise, coordinate field activities, provide technical support/mentoring for technicians, engineers, geologists, and other environmental professionals.

- Manage all aspects of numerous environmental projects throughout the United States for environmental due diligence, industrial facilities, RCRA/CERCLA investigation/remedial facilities, UST/AST site investigation/remediation, natural resource evaluations/monitoring/permitting through TDEC-DWR/USACE, Brownfield redevelopments, and industrial waste stream characterization/disposal. Risk analysis and Fate and Transport modeling to determine potential exposure pathways on and off Site for numerous facilities.

- Manage all aspects of numerous private Brownfield redevelopment projects throughout the Southeastern United States with interaction with numerous State Voluntary Programs. Manage projects from the due diligence phases (Phase I, II, & II) through redevelopment completion and receipt of NFA. Historical uses of properties

include but are not limited to former industrial, chemical, petroleum, chlorinated solvent, and heavy metal production facilities. Pre-project budgeting to determine if identified blighted properties are economically feasible for redevelopment under the Brownfields program for go/no-go decisions. Regulatory, client, and stakeholder negotiations to prepare applicable BVAs, and development of appropriate engineering/institutional controls to ensure protection of human health and the environment while also ensuring the projects remain on schedule, within scope, and economically feasible for the client(s).

- Prepare, review and edit environmental reports, correspondences, Agreements, and permits including those required by the Tennessee Department of Environment and Conservation (TDEC), including but not limited to the Division of Underground Storage Tanks (DUST), Division of Remediation (DOR), Division of Solid Waste Management (DSWM), Division of Water Resources (DWR), and Division of Air Pollution Control (DAPC). As well as regulatory coordination with the US Environmental Protection Agency (EPA), US Army Corps of Engineers (USACE), and other municipal/county/city regulatory authorities.

May 2011 to April 2023 – Senior Project Manager/Environmental Program Manager/Branch Manager
ATC Group Services, LLC dba Atlas Technical (Atlas)
(ATC began doing business as Atlas Technical on July 1, 2021)
2690 Memorial Blvd., Suite D
Murfreesboro, TN 37129

- Manage Murfreesboro, TN Atlas office with staff ranging from 10 to 20 personnel. Manage and oversee the environmental service line. National, Regional, and Local client interaction and management. Supervise, coordinate field activities, provide technical support/mentoring for technicians, engineers, geologists, and other environmental professionals.

- Manage all aspects of numerous environmental projects throughout the United States for due diligence, industrial facilities, RCRA/CERCLA investigation/remedial facilities, UST/AST site investigation/remediation, natural resource evaluations/monitoring/permitting through TDEC-DWR/USACE, Brownfield redevelopments, and industrial waste stream characterization/disposal. Risk analysis and Fate and Transport modeling to determine potential exposure pathways on and off Site for numerous facilities.

- Manage all aspects of numerous private Brownfield redevelopment projects throughout the Southeastern United States with interaction with numerous State Voluntary Programs. Manage projects from the due diligence phases (Phase I, II, & II) through redevelopment completion and receipt of NFA. Historical uses of properties include but are not limited to former industrial, chemical, petroleum, chlorinated solvent, and heavy metal production facilities. Pre-project budgeting to determine if identified blighted properties are economically feasible for redevelopment under the Brownfields program for go/no-go decisions. Regulatory, client, and stakeholder negotiations to prepare applicable BVAs, and development of appropriate engineering/institutional controls to ensure protection of human health and the environment while also ensuring the projects remain on schedule, within scope, and economically feasible for the client(s).

- Prepare, review and edit environmental reports, correspondences, Agreements, and permits including those required by the Tennessee Department of Environment and Conservation (TDEC), including but not limited to the Division of Underground Storage Tanks (DUST), Division of Remediation (DOR), Division of Solid Waste Management

(DSWM), Division of Water Resources (DWR), and Division of Air Pollution Control (DAPC). As well as regulatory coordination with the US Environmental Protection Agency (EPA), US Army Corps of Engineers (USACE), and other municipal/county/city regulatory authorities.

- Prepare, review and edit environmental reports, correspondences, and permits including those required by other State regulatory Agencies including: Mississippi Department of Environmental Quality (MDEQ), Arkansas Department of Environmental Quality (ADEQ), Alabama Department of Environmental Management (ADEM), Louisiana Department of Environmental Quality (LDEQ), Georgia Environmental Protection Division (GEPD), Alabama Department of Environmental Protection (ADEM), Kentucky Department for Environmental Protection (KDEP), Ohio Environmental Protection Agency (OEPA), Texas Commission on Environmental Quality (TCEQ), and Pennsylvania Department of Environmental Protection (PDEP).

- Monitor, maintain and manage numerous remediation systems (15+). Utilize telemetry to interface with equipment and monitor system operations and efficiency. Organize and maintain technical data. Obtain environmental discharge permits (air and water) to operate remediation systems. Track, analyze, and trend data generated from environmental monitoring. Create new documents, databases, and spreadsheets to comply with all Federal, State, and Local regulations. Maintain daily interaction with State, Federal, and Local regulatory officials, clients, and third party stakeholders regarding environmental issues. Execute changes to streamline work processes. Create and manage budgets for environmental projects. Perform safety audits to ensure all activities are being completed in accordance with the scope of work and in a safe manner.

- Monitor, manage, provide oversight, and coordinate field activities for installation and O&M of numerous active remedial systems (15+) for UST, bulk terminals and refinery facilities as well as other industrial facilities including solvent/chlorinated solvent, PCB, metals, and organic chemical production facilities. Various remedial techniques employed, including dual-phase vacuum extraction, SVE, groundwater extraction (pump and treat), Enhances Bio-Remediation, NAPL recovery, iSOC, ISCO, thermal desorption, carbon injections, and air/ozone sparging.

- Manage all aspects of oil water separator, wastewater, and stormwater treatment systems program responsible for permit preparation, monitoring/sampling of stormwater/wastewater for regulatory compliance, reporting, troubleshooting, and routine operation and maintenance in accordance with existing Municipal Separate Storm Sewer System (MS4) Programs, National Pollutant Discharge Elimination System (NPDES) permits, or Publicly Owned Treatment Works (POTW) permitting.

April 2004 to May 2011 – Project Manager/Project Geologist
Conestoga Rovers and Associates (CRA)
(Purchased by GHD in 2014)
209 Gothic Cort, Suite 109
Franklin, TN 37067

- Manage all aspects of numerous environmental projects throughout the United States for due diligence, industrial facilities, RCRA/CERCLA remedial facilities, UST/AST sites, natural resource evaluations/monitoring/permitting through TDEC-DWR/USACE, Brownfield redevelopments and industrial waste stream characterization/disposal.

- Prepare, review and edit environmental reports, correspondences, and permits including those required by the TDEC, including but not limited to the DUST, DOR, DSWM, DWR) and Division of Air Pollution Control (DAPC). As well as regulatory coordination with the US EPA, USACE, and other municipal/county/city regulatory authorities. Risk analysis and

Fate and Transport modeling to determine potential exposure pathways on and off Site for numerous facilities.

- Prepare, review and edit environmental reports, correspondences, and permits including those required by other State regulatory Agencies including: MDEQ, ADEQ, ADEM, LDEQ, GEPD, ADEM, KDEP, OEPA, TCEQ, and PDEP.

- Monitor, maintain and manage numerous remediation systems (20+). Utilize telemetry to interface with equipment and monitor system operations and efficiency. Organize and maintain technical data. Obtain environmental discharge permits (air and water) to operate remediation systems. Track, analyze, and trend data generated from environmental monitoring. Create new documents, databases, and spreadsheets to comply with all Federal, State, and Local regulations. Maintain daily interaction with State officials, clients, and third party personnel regarding environmental issues. Supervise, coordinate field activities, provide technical support/mentoring for technicians, engineers, geologists, and other environmental professionals. Execute changes to streamline work processes. Create and manage budgets for environmental projects. Perform safety audits to ensure all activities are being completed in accordance with the scope of work and in a safe manner.

- Monitor, manage, provide oversight, and coordinate field activities for installation and O&M of numerous active remedial systems (20+) for UST, bulk terminals and refinery facilities as well as other industrial facilities including solvent/chlorinated solvent, PCB, metals, and organic chemical production facilities. Various remedial techniques employed, including dual-phase vacuum extraction, SVE, groundwater extraction (pump and treat), Enhances Bio-Remediation, NAPL recovery, iSOC, ISCO, thermal desorption, carbon injections, and air/ozone sparging.

- Oil water separator, wastewater, and stormwater treatment systems program project manager responsible for monitoring/sampling of stormwater/wastewater for regulatory compliance, reporting, troubleshooting, and routine operation and maintenance in accordance with existing MS4 Programs, NPDES permits, or POTW permitting.

June 1998 to April 2004 – Staff Geologist/Project Coordinator/Senior Technician
SEMS of Nashville LLC (SEMS)
2616 Franklin Pike
Nashville, TN 37204

- Project coordination, oversight, and field activities for installation and O&M of numerous active remedial systems (30+) for UST, bulk terminals and refinery facilities as well as other industrial facilities including solvent/chlorinated solvent, PCB, metals, and organic chemical production facilities. Various remedial techniques employed, including dual-phase vacuum extraction, SVE, groundwater extraction (pump and treat), Enhances Bio-Remediation, NAPL recovery, iSOC, ISCO, thermal desorption, carbon injections, and air/ozone sparging.

- Project coordination, oversight, and field activities for Low-flow, flow-cell, and surface/groundwater water sampling techniques including equipment monitoring, routine maintenance, and calibration. Water resource evaluations and management.

- Project coordination, oversight, and field activities for environmental monitoring equipment operation and maintenance (In-Situ, QED, YSI, etc.) at numerous commercial and industrial facilities. Routine calibration and maintenance of environmental monitoring equipment. Remote field electronic data collection (data loggers, Palm, CRA eMonitor, etc.). Installation and troubleshooting of environmental monitoring equipment.

- Project coordination, oversight, and field activities for installation and field logging of numerous soil borings and monitor/recovery wells at various locations throughout the southeast.

- Vadose zone, soil gas, and sub lab air sampling and evaluation of UST, bulk storage, and other industrial facilities. Risk based evaluations for potential vapor intrusion scenarios. Development of engineering/institutional controls or remedial system design to mitigate vapor intrusion.

PROFESSIONAL/COMMUNITY AFFILIATIONS

U.S. Green Building Council (USGBC)
Middle Tennessee State University – Geosciences MS/PS Advisory Board Member
Tennessee Onsite Wastewater Association Inc.
Middle Tennessee Environmental Professionals Association (MTEPA)

Alexis Tracy

POSITION Environmental Scientist
GEOServices, LLC

EXPERIENCE Joined GEOServices, LLC in 2021 with 2 years previous experience

EDUCATION Bachelor of Science Concentration: Geology- Middle Tennessee State University-2017

FIELDS OF COMPETENCE

Phase I & II Environmental Site Assessments, Site Characterizations, Soil, Vapor, & Groundwater Sampling

KEY PROJECTS AND ASSIGNMENTS

- (GEOServices, LLC) – Phase I Environmental Site Assessments – Various clients, Nashville, Clarksville, Murfreesboro, Franklin, Hendersonville, Columbia, Lebanon, Tennessee. Conducted numerous Phase I investigations to support real estate purchases of commercial, residential, and industrial properties throughout Tennessee. Responsibilities for a Phase I investigation including inspection of the subject property and nearby area, a review of historical and regulatory information concerning the subject property and other nearby properties of environmental concerns, and preparation of a report detailing results, conclusions and recommendations.
- (GEOServices, LLC) – Phase II Environmental Site Assessment – Industrial Development, Hendersonville, Tennessee. Provided an environmental evaluation for a recognized environmental condition (REC) identified in the Phase I investigation. Collected soil gas samples to determine the potential existence of volatile and semi-volatile organic compounds associated with an ongoing remediation at an upgradient property.
- (GEOServices, LLC) – Phase II Environmental Site Assessment – Gasoline Filling Station, Reliance, Tennessee. Provided an environmental evaluation for a recognized environmental condition (REC) identified in the Phase I investigation. Collected soil gas samples to determine the potential existence of volatile and semi-volatile organic compounds associated with a gasoline filling station on site.
- (GEOServices, LLC) - Phase II Environmental Site Assessment - Auto dealership with service centers and former battery manufacturing, Nashville, Tennessee. Provided an environmental evaluation for several on- and off-site recognized environmental conditions identified in the Phase I Investigation. Collected thirty soil samples, seven soil gas samples, and one groundwater sample to determine the potential existence of volatile organic compounds, semi-volatile organic compounds, polychlorinated biphenyls, extractable petroleum hydrocarbons, and RCRA 8 Metals associated with on-site auto repair and battery manufacturing activities and off-site former gasoline stations, printing shops, and dry cleaners.

TRAFFIC IMPACT ANALYSIS
STONE CREEK

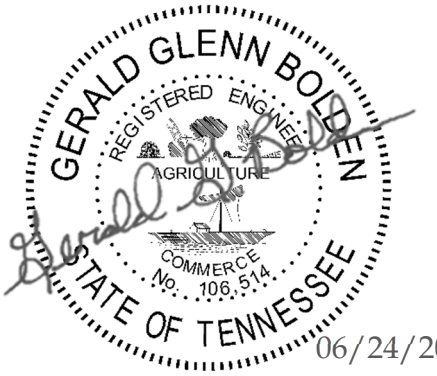
Prepared For: Freehold Communities

Prepared By: The Corradino Group, Inc.

June 2024

Traffic Impact Study
Stone Creek Development
Spring Hill, Tennessee

Prepared For:
Freehold Communities



06/24/2024

Prepared By:
The Corradino Group
Franklin, TN

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Executive Summary

Project Description

This study will evaluate the traffic impacts of a proposed residential development located south of Derryberry Lane, west of I-65, and north of the Tennessee Valley Authority (TVA) easement in Spring Hill, Tennessee. The proposed Stone Creek development consists of a mixture of single-family attached, single-family detached, and multi-family residential units. In total, there are approximately 111 acres of development with 1034 proposed residential dwelling units.

The development will be served by three proposed site accesses – one on Derryberry Lane and two on Brandon Woods Drive. Project Access One is on the north of the property, this access is located at the intersection of Derryberry Lane and Rice Road. It is approximately 0.7 miles east of Port Royal Road. The second access will be west of the property approximately 0.5 miles east of Port Royal Road in the Brandon Woods subdivision joining Rex Drive from the north. The third access is proposed on the south of the property connecting to Rex Drive from the south within the same subdivision and ultimately to Brandon Woods Drive. For this study, it is assumed the development will be completed by 2032.

Existing Traffic Volumes

Intersection turning movement counts were conducted at the following locations:

- Port Royal Road and Derryberry Lane
- Port Royal Road and Brandon Woods Drive
- Derryberry Lane and Rice Road

Turning movement counts were collected on Tuesday, January 30, 2024, during the AM and PM peak periods while school was in full session. The AM count period was from 6:30 – 8:30 AM and the PM count period was from 2:30 – 6:30 PM, to be inclusive of the school arrival and dismissal periods. The overall network peak hours were from 7:15 – 8:15 AM and 5:00 – 6:00 PM.

In addition to the turning movement counts, 48-hour bi-directional volume and speed tube counts were conducted on Brandon Woods Drive, Derryberry Lane and Rice Road in the vicinity of the proposed development access.

Projection of Future Traffic Volumes

It is assumed the traffic will continue to grow before the project is complete. Therefore, a historic growth rate was calculated and ultimately a 3.6 percent growth rate was applied to the study area. There were several approved yet uncomplete developments near the study area that were included in the background and projected traffic volumes. Background calculated growth plus the approved yet uncompleted developments traffic along with the trips expected from the proposed development were added to the existing trips to determine the total projected and horizon year traffic volumes. These trips were analyzed to determine the recommendations required for adequate roadway operations in the study.

Conclusions and Recommendations

From the analysis provided in the study, the study area intersections will experience increased delay and poor levels of service due to general background traffic growth and the proposed development traffic. The addition of the Stone Creek Residential development has some impact on the overall traffic operations within the study area. With the combined impacts of the background traffic growth, other approved yet unbuilt developments, and the Stone Creek development, the need for significant corridor improvements is apparent. This is not exclusively a result of the Stone Creek development, but a combination of multiple developments within the immediate corridor and overall regional traffic growth. The following improvements have been identified to help mitigate the traffic impacts in the study area. As noted below, some of these improvements have already been conditioned on previously approved developments and should not be considered the responsibility of this development.

1 A traffic signal should be installed at the intersection of Port Royal Road and Derryberry Lane. The design and components of the traffic signal shall be consistent with the City of Spring Hill Traffic Signal Specifications and shall follow TDOT and MUTCD standards. *As noted within the study, this traffic signal was part of the conditions of approval for the Port Royal Commercial development that was approved in 2023 located at the corner of Port Royal Road and Derryberry Lane.*

2 A traffic signal should be installed at the intersection of Port Royal Road and Brandon Woods Drive. The design and components of the traffic signal shall be consistent with the City of Spring Hill Traffic Signal Specifications and shall follow TDOT and MUTCD standards. *As noted within the study, this traffic signal has been designed and approved by the City as part of the Brandon Woods conditions of approval.*

3 At the intersection of Port Royal Road and Brandon Woods Drive, a left-turn lane for the southbound approach and a right-turn lane for the northbound approach should be installed. The left-turn lane should have a minimum of 250 feet of storage and taper to AASHTO standards. The right-turn lane should have a minimum of 100 feet of storage and taper to AASHTO standards. The design and components of the lanes shall be consistent with the AASHTO standards, City of Spring Hill, and shall follow TDOT and MUTCD standards. *As noted within the study, these turn lanes have been designed and approved by the City as part of the Brandon Woods conditions of approval.*

4 Project Access 1 on Derryberry Lane should be constructed with one lane entering and one lane exiting. This access shall join the end of Derryberry Lane to form a "T" stop-controlled intersection with Rice Road intersecting Derryberry Lane at 90 degrees and being under stop-control. The intersection design shall be completed according to AASHTO, TODT and City of Spring Hill standards and requirements. All signing and pavement markings shall adhere to the latest edition of the MUTCD.

5 Project Access 2 on Rex Drive shall be constructed with one lane for exiting traffic and one lane for entering traffic. The intersection design shall be completed according to AASHTO, TDOT, and City of Spring Hill standards and requirements. As part of the final roadway layout design, the intersection should be evaluated for two-way and all-way stop control. All signing and markings shall be done in accordance with the latest edition of the MUTCD.

6 Project Access 3 on Rex Drive shall be constructed with one lane for exiting traffic and one lane for entering traffic. The intersection design shall be completed according to AASHTO, TDOT, and City of

Spring Hill standards and requirements. As part of the final roadway layout design, the intersection should be evaluated for two-way and all-way stop control. All signing and markings shall be done in accordance with the latest edition of the MUTCD.

7 Each project access should be located and designed such that departure sight triangles, as specified by ASSHTO, will be clear of all potential sight obstructions, including buildings, signs, vertical and horizontal curves, utility poles, trees, etc.

8 All project accesses to the local roadway network shall meet the City's UDC requirements for alignment and spacing in relation to driveways/access points along the same side or opposite side of the roadway.

9 The Stone Creek development team should work with the City's Planning and Public Works staff to identify potential traffic mitigation strategies as it relates to potential cut-through traffic through adjoining developments.

10 The developer shall coordinate with the City of Spring Hill on future improvements along the Port Royal Road corridor.

Introduction

This study will evaluate the traffic impacts of a proposed residential development located south of Derryberry Lane, west of I-65, and north of the Tennessee Valley Authority (TVA) easement in Spring Hill, Tennessee. The proposed Stone Creek development consists of a mixture of single-family attached, single-family detached, and multi-family residential units. In total, there are approximately 111 acres of development with 1034 proposed residential dwelling units.

The development will be served by three proposed site accesses – one on Derryberry Lane and two on Brandon Woods Drive. Project Access One is on the north of the property, this access is located at the intersection of Derryberry Lane and Rice Road. It is approximately 0.7 miles east of Port Royal Road. The second access will be west of the property approximately 0.5 miles east of Port Royal Road in the Brandon Woods subdivision joining Rex Drive from the north. The third access is proposed on the south of the property connecting to Rex Drive from the south within the same subdivision and ultimately to Brandon Woods Drive. For this study, it is assumed the development will be completed by 2032.

This study will evaluate the existing conditions of the roadway network in the study area using traffic counts conducted along the study area roadways and at intersections. The expected traffic growth will be determined by calculating the traffic generated by the proposed development and distributing the traffic to the roadway network. Industry standards will be used to analyze the traffic volumes and develop mitigation strategies to offset the decline in roadway operations resulting from the proposed development.

Project Description

The proposed residential-use development is located in the southeastern area of the City of Spring Hill in Maury County, Tennessee. As shown on **Figure 1**, the development is located west of Interstate 65 and south of Derryberry Lane. The site is bounded on the east by Interstate 65, on the north by Derryberry Lane, on the south by the Tennessee Valley Authority (TVA) easement and to the east by vacant land and residential development. As shown on the site plan provided in **Appendix A**, the development consists of 960 units with a mixture of single-family detached, single-family attached (townhomes), and multi-family units with three total accesses to the development. The project is anticipated to be completed in 2032.

Figure 1 Project Location

Existing Conditions

Existing Roadway Network

The existing roadway network, in the vicinity of the project site, includes Port Royal Road, Derryberry Lane, Brandon Woods Drive, and Rice Road. The study area consists of a mixture of single-family residential, multi-family residential, institutional, industrial, and agricultural parcels.

Roadways

Port Royal Road runs from the Kedron Road intersection south of the development, on the west of the study area and traverses north across SR-396 and ultimately terminates near Thompson's Station Road. Throughout the corridor, the land uses vary from large vacant parcels, single-family residential, multi-family residential, and commercial/retail. Through the study area, Port Royal Road is a two-lane arterial roadway with 11–12-foot travel lanes with 1–2-foot shoulder and an open ditch on both sides. There are no sidewalk or bicycle lanes along Port Royal Road in the vicinity of the project. The posted speed limit is 45 mph.

Port Royal Road – Looking North Towards Rutherford Creek

Port Royal Road – Looking South near Derryberry Lane

Derryberry Lane runs in an east-west direction from Port Royal Road approximately 0.7 miles to the east to the intersection with Rice Road. Derryberry Lane is a three-lane collector roadway with lanes measuring approximately 12 feet wide and curb along both sides of the roadway. There is sidewalk along some sections of Derryberry Lane, primarily for access to the elementary school. There are no bicycle lanes along Derryberry Lane. The posted speed limit is 40 mph with a 20-mph school zone located approximately 1,000 feet west of the proposed access to the development.

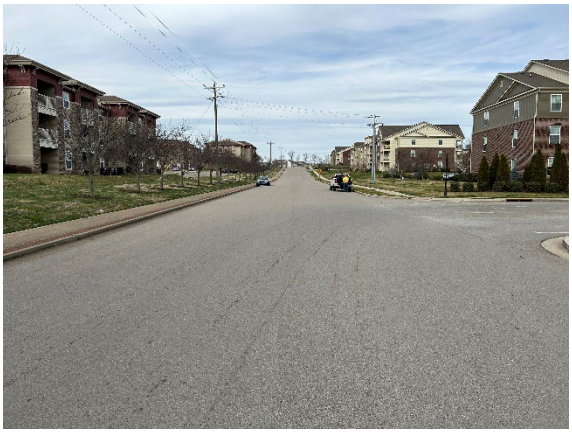
Derryberry Lane serves as the primary access to Marvin Wright Elementary School (MWES). The zoning for MWES is generally bounded to the south by Brandon Woods subdivision, to the west in the vicinity of McLemore Avenue and School Street, to the Williamson-Maury County line to the north, and east to the rural areas around US Highway 431. Based on the zone, most of the school traffic originates from the north of Derryberry Lane.

Derryberry Lane – Looking West Towards Port Royal Road

Derryberry Lane – Looking East Towards Rice Road & Proposed Site Access

Rice Road is a local roadway serving as the access for several multi-family and single family residential developments. Rice Road is currently in the development of being extended to the north to an intersection with Jim Warren Road. The south terminus provides a connection to Derryberry Lane which joins Port Royal Road to the north of the study area. There are no pavement markings on Rice Road. From Derryberry Lane on the south, Rice Road has 36-feet of pavement for one travel lane in each direction with curbing. For the entire stretch of Rice Road there is an existing sidewalk on both sides of the road. There is also a 4- to 6-foot grass strip buffer between the sidewalk and the roadway on the east side of Rice Road. The posted speed limit is 40 mph.

Additionally, Rice Road has connectivity to Tom Lunn Road on the north, which also connects to Jim Warren Road providing access to Port Royal Road.



Rice Road – Looking North towards Tom Lunn Road

Rice Road – Looking South Towards Derryberry Lane and Proposed Access

Brandon Woods Drive runs in an east-west direction from Port Royal Road internal to the Brandon Woods subdivision. It provides a connection to Port Royal Road in the west, and ultimately the two proposed accesses to the proposed Stone Creek development. There are no pavement markings on Brandon Woods Drive. From Port Royal Road, it has approximately 26-feet of pavement for one travel lane in each direction with curbing. There is a sidewalk and grass strip on one side of the road towards the intersection of Port Royal Road, the sidewalk and grass strip transition to both sides of the road as you travel east into the subdivision. The posted speed limit is 20 mph.

Brandon Woods Drive – Looking West to Port Royal Road

Brandon Woods Drive – Looking East

Tom Lunn Road is classified as a collector according to the City's Major Thoroughfare Plan. It provides a connection to John Lunn Road for access over to Kedron Road and to the residential developments west of Port Royal Road. In the vicinity of the project (near Port Royal Road), Tom Lunn Road is a two-lane roadway with one 12-foot travel lanes in each direction and 2-4-foot shoulders on each side. The posted speed limit is 35 mph.

Tom Lunn Road – Looking West

Tom Lunn Road – Looking East towards Port Royal Road

Jim Warren Road is classified as an arterial according to the City's Major Thoroughfare Plan. It provides a connection from Port Royal Road to the east across Interstate 65 and ultimately to US Highway 431. The typical cross-section consists of one 11-foot travel lane in each direction with minimal shoulders. There is not a posted speed limit along the corridor, however there are several advisory curve speed zones of 15 or 20 mph.

Jim Warren Road – Looking East

Jim Warren Road – Looking West towards Port Royal Road

Intersections

The following section outlines the existing intersection configurations and traffic control for each. The existing intersection lane configurations are shown in **Figure 2**.

Port Royal Road and Derryberry Lane form a three-legged, unsignalized intersection with Derryberry Lane under stop control. On northbound Port Royal Road there is one through lane and one right-turn lane with approximately 100 feet of storage. On southbound Port Royal Road there is one through lane and one left-turn lane with approximately 150 feet of storage. The westbound approach of Derryberry Lane consists of two approach lanes – one left-turn and one right-turn. The right-turn lane is the continuation of the travel lane along Derryberry Lane, and the left-turn lane has approximately 300 feet of storage. Currently, there are no pedestrian accommodations at the intersection.

Northbound Approach to Port Royal Road and Derryberry Lane Intersection

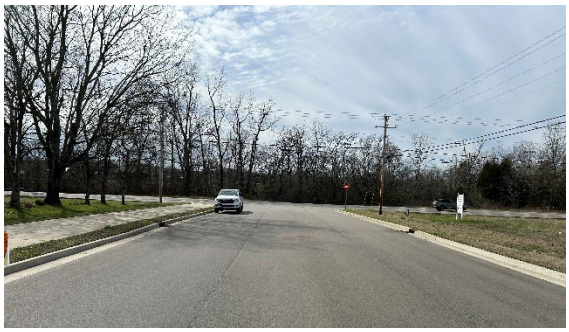
Southbound Approach to Port Royal Road and Derryberry Lane Intersection

Eastbound Approach to Port Royal Road and Derryberry Lane Intersection

Port Royal Road and Brandon Woods Drive form a three-legged, unsignalized intersection with Brandon Woods Drive under stop control. Both southbound and northbound approaches of Port Royal Road consist of one lane. The northbound lane is a shared through/right-turn lane and the southbound lane is a shared through/left-turn lane. Brandon Woods Drive is a 40-foot-wide unstriped approach that functions as a left-turn lane with storage and right-turn lane. This intersection has a curb ramp on the southeast corner of the intersection and sidewalk along the south side of Brandon Wood Drive to accommodate pedestrians. As part of the conditions of approval for the Brandon Woods development, intersection improvements consisting of a southbound left-turn lane with approximately 150 feet of storage, a northbound right-turn lane with approximately 50 feet of storage and a traffic signal. The plans for these improvements have been approved by the City.

Northbound Approach to Port Royal Road and Brandon Woods Drive Intersection

Southbound Approach to Port Royal Road and Brandon Woods Drive Intersection



Westbound Approach to Port Royal Road and Brandon Woods Drive Intersection

Derryberry Lane and Rice Road form a two-legged, unsignalized intersection with Derryberry Lane having a free left-turn and Rice Road under a free right-turn movement. The eastbound approach of Derryberry Lane consists of one lane turning left at the intersection. The southbound approach of Rice Road has a single right-turn lane for maneuvering onto westbound Derryberry Lane. The westbound approach is currently a dead end and the proposed access for Stone Creek will become the third leg of the intersection. There are sidewalk facilities on both sides of the southbound approach of Rice Road. Derryberry Lane has a sidewalk on the northern side of the approach only.

Eastbound Approach to Rice Road and Proposed Site Access Intersection

Southbound Approach to Derryberry Lane Intersection

Port

Royal Road and Tom Lunn Road form a three-legged, unsignalized intersection with Tom Lunn Road under stop control. Both southbound and northbound approaches of Port Royal Road consist of one lane. The northbound lane is a shared through/left-turn lane and the southbound lane is a shared through/right-turn lane. The eastbound approach of Tom Lunn Road consists of one lane for both the left- and right-turn movements. There are no pedestrian accommodations at this intersection.

It should be noted this intersection has been identified in traffic impact studies for other developments, Saturn Parkway Warehouses and Brandywine Industrial Park, for improvements to address operational deficiencies. One study recommended construction of a northbound left-turn lane, a southbound right-turn lane and an eastbound left-turn lane. The other study recommended installation of a traffic signal at the intersection. Due to several ongoing developments and several new developments going through the various stages of the approval process, no individual development was conditioned for completing all of the improvements, however, various developments have been conditioned to contribute to the cost of the improvement.

Northbound Approach to Port Royal Road and Tom Lunn Road Intersection

Southbound Approach to Port Royal Road and Tom Lunn Road Intersection

Eastbound Approach to Port Royal Road and Tom Lunn Road Intersection

Port Royal Road and Jim Warren Road form a three-legged, unsignalized intersection with Jim Warren Road under stop control. Northbound Port Royal Road consists of one shared lane for the through and right-turn movements. Southbound Port Royal Road consists of one through lane and one left turn lane with approximately 90 feet of storage. The westbound approach of Jim Warren Road consists of two approach lanes – one left-turn and one right-turn. The right-turn lane is the continuation of the travel lane along Jim Warren Road and the left-turn lane has approximately 75 feet of storage. Currently, there are no pedestrian accommodations at the intersection.

Northbound Approach to Port Royal Road and Jim Warren Road Intersection

Southbound Approach to Port Royal Road and Jim Warren Road Intersection

Westbound Approach to Port Royal Road and Jim Warren Road Intersection

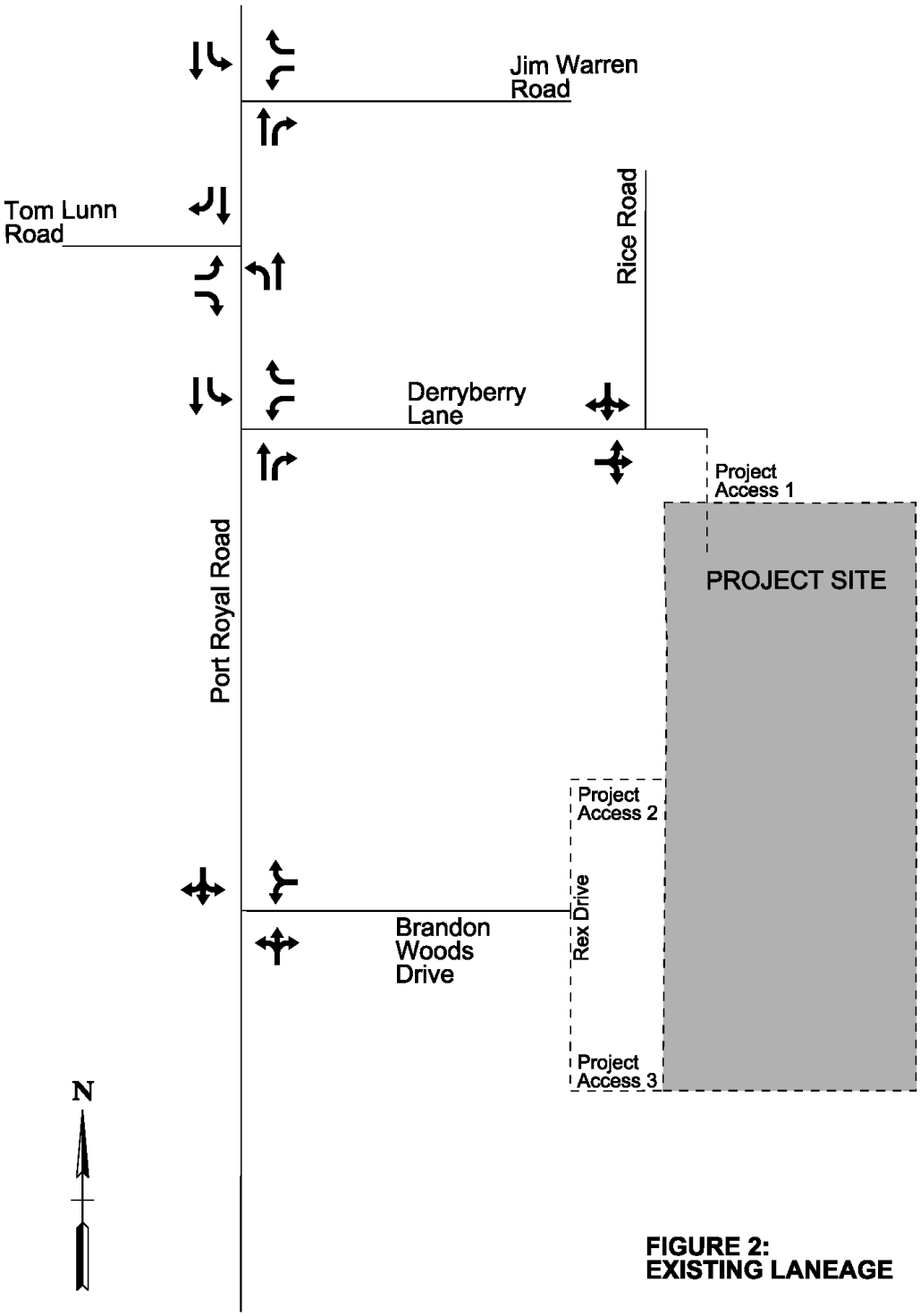


FIGURE 2:
EXISTING LANEAGE

Multimodal Infrastructure

Currently, there is minimal pedestrian infrastructure located at the study area intersections and roadways within the immediate vicinity of the proposed development. The existing pedestrian infrastructure includes:

- Derryberry Lane - there are some segments of sidewalk on the north side of the roadway and some segments of sidewalk on the south side of the roadway.
- Brandon Woods Drive - there is sidewalk throughout the sections within the subdivision. There is also a multi-use trail (MUT) extending from Port Royal Road intersection along the south side of Brandon Woods Drive and crossing over to the north side near Tristan Way and continuing along the northern boundary of the subdivision.

Also, there are no existing bicycle lanes, greenways, or multiuse paths with the study area. However, according to the City's *Bicycle and Greenway Plan*, adopted in September 2021, there are several facilities proposed within the study area. **Table 1** shows the list of projects with termini and priority.

TABLE 1
PLANNED MULTIMODAL PROJECTS

PROJECT	TERMINUS	PRIORITY
Derryberry Bike Lanes	From Port Royal Road to Tom Lunn Road	Short Term
Port Royal Road Bike Lanes – Phase 2	From Reserve Boulevard to Derryberry Lane	Long Term
Port Royal Road Bike Lanes – Phase 2	From Derryberry Lane to Kedron Road	Long Term
Jim Warren Road Bike Lanes	From Port Royal Road to south of Crafton Road	Long Term
Lunn Bike Lanes	From Port Royal Road to Worthington Lane	Long Term

Transit Network

Spring Hill does not have a local transit service for local trips. However, WeGo Public Transit – Nashville provides a Spring Hill Express service (Route 95) between Spring Hill and downtown Nashville. The current departure/arrival location in Spring Hill is located just north of State Route 396 ramps, at the Kroger on Port Royal Road.

Existing Traffic Volumes

In order to analyze the roadway operations in the vicinity of the proposed development, intersection turning movement counts were conducted at the following locations:

- Port Royal Road and Derryberry Lane
- Port Royal Road and Brandon Woods Drive
- Derryberry Lane and Rice Road (the location of the north proposed site access)

Turning movement counts were collected on Tuesday, January 30, 2024, during the AM and PM peak periods while school was in full session. The AM count period was from 6:30 – 8:30 AM and the PM count

period was from 2:30 – 6:30 PM, to be inclusive of the school arrival and dismissal periods. The overall network peak hours were from 7:15 – 8:15 AM and 5:00 – 6:00 PM.

In addition to the turning movement counts, 48-hour bi-directional volume and speed tube counts were conducted on Brandon Woods Drive, Derryberry Lane and Rice Road in the vicinity of the proposed development access. The traffic count reports are included in **Appendix B**.

Also, for the intersection of Port Royal Road and J.W. Parkway, the traffic volumes used for this study was based on the collected data for this study and historic traffic data from various traffic studies completed over the previous couple of years.

Existing Traffic Analysis

To determine the effects of the proposed development on the existing roadway network, analysis of the roadway network in the study area was conducted. The existing traffic volumes used are shown in **Figure 3**. The operational analysis results in a Level of Service (LOS) for each intersection during the AM and PM peak hours. The LOS is based on the industry standard outlined in the *Highway Capacity Manual* 2010. The LOS results range from an A to an F with A being the best and F the worst. For intersections, the LOS is based on the volume-to-capacity ratio and amount of delay experienced by each movement. For unsignalized intersections, the LOS is reported for critical turning movements based on delay and volume-to-capacity (v/c) ratio and for signalized intersection the LOS is reported for each approach and for the overall intersection based on delay, as shown in **Table 2**. The LOS for the existing traffic volumes at the study intersections is shown in **Table 3** and **Appendix C** contains the LOS reports.

TABLE 2
LEVEL OF SERVICE THRESHOLDS

LOS	CONTROL DELAY/VEHICLE (s/veh)	
	UNSIGNALIZED	SIGNALIZED
A	0 – 10	≤ 10
B	> 10 – 15	> 10 – 20
C	> 15 – 25	> 20 – 35
D	> 25 – 35	> 35 – 55
E	> 35 – 50	> 55 – 80
F	> 50	> 80

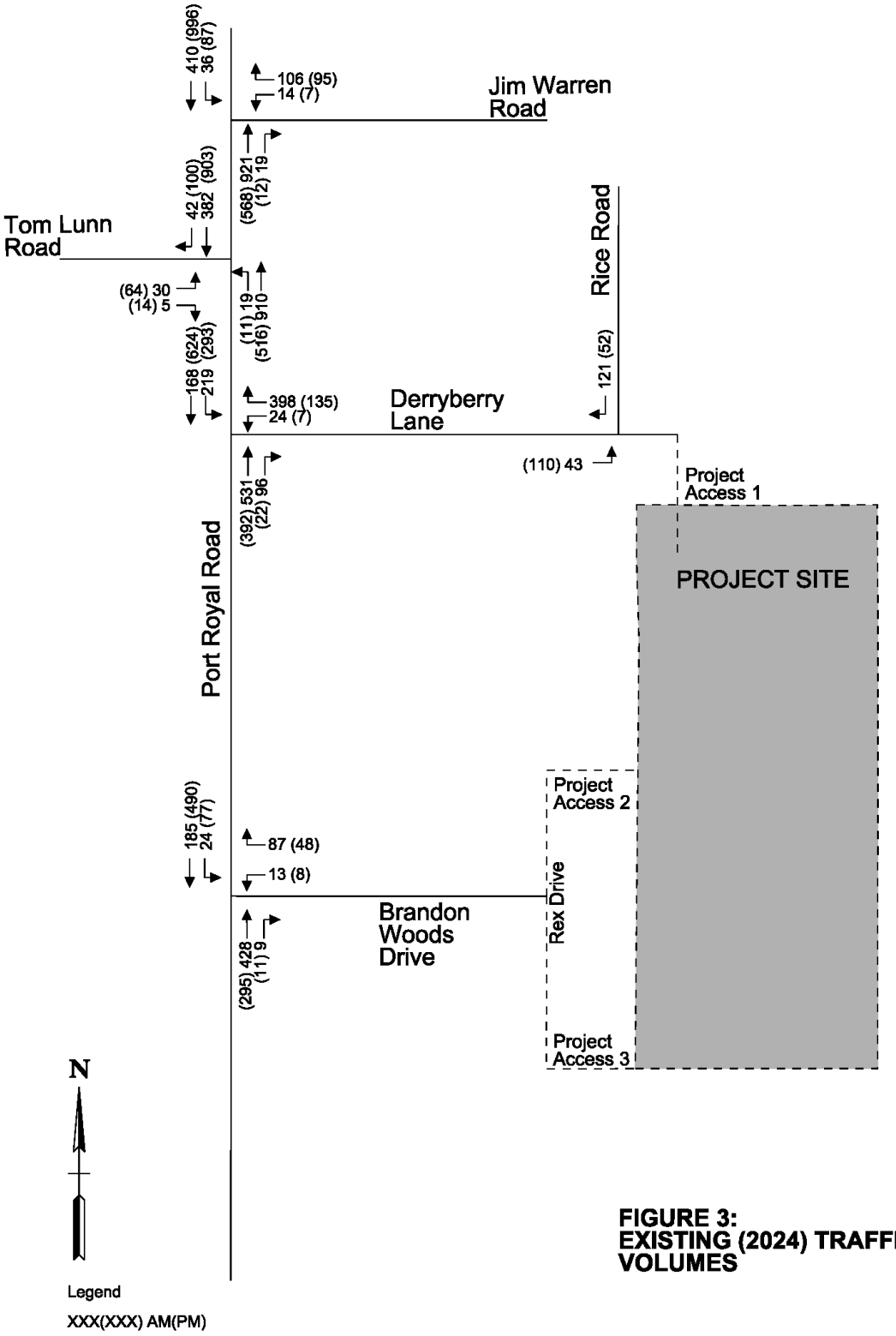


FIGURE 3:
EXISTING (2024) TRAFFIC VOLUMES

TABLE 3
EXISTING LEVEL OF SERVICE

Intersection	Movement	AM Peak			PM Peak		
		LOS	Delay (s/veh)	95th % Queue[1]	LOS	Delay (s/veh)	95th % Queue[1]
Port Royal Road & Derryberry Lane	*Westbound Approach*	F	*54.0*		B	*14.9*	
	Westbound Left	D	33.4	<25 ft.	F	60.9	< 25 ft.
	Westbound Right	F	55.2	298 ft.	B	12.5	< 25 ft.
	Southbound Left	B	10.0	<25 ft.	A	9.5	30 ft.
	Overall Intersection	***C***	***18.2***		***A***	***3.3***	
Port Royal Road & Brandon Woods Drive	*Westbound Approach*	*B*	*12.8*		*B*	*12.5*	
	Westbound Left	C	16.3	< 25 ft.	C	22.2	< 25 ft.
	Westbound Right	B	12.3	< 25 ft.	B	10.9	< 25 ft.
	Southbound Left	A	8.5	< 25 ft.	A	8.2	< 25 ft.
	Overall Intersection	***A***	***2.1***		***A***	***1.5***	
Port Royal Road & Tom Lunn Road	*Eastbound Approach*	*E*	*36.1*		*F*	*70.7*	
	Eastbound Left	E	40.3	< 25 ft.	F	82.1	80 ft.
	Eastbound Right	B	10.9	< 25 ft.	C	18.5	< 25 ft.
	Northbound Left	A	8.3	< 25 ft.	B	10.7	< 25 ft.
	Overall Intersection	***A***	***1.0***		***A***	***3.5***	
Port Royal Road & Jim Warren Road	*Westbound Approach*	*D*	*27.0*		*C*	*17.8*	
	Westbound Left	E	39.0	< 25 ft.	F	64.5	< 25 ft.
	Westbound Right	D	25.4	45 ft.	B	14.4	< 25 ft.
	Southbound Left	B	10.6	< 25 ft.	A	9.2	< 25 ft.
	Overall Intersection	***A***	***2.4***		***A***	***1.5***	
Derryberry Lane & Rice Road	*Southbound Approach*		*FREE*			*FREE*	
	Southbound Right		*FREE*	< 25 ft.		*FREE*	< 25 ft.
	Westbound Left		*FREE*	< 25 ft.		*FREE*	< 25 ft.
	Overall Intersection						

[1] For queue calculation purposes, each 25 feet is equivalent to one vehicle.

As shown in **Table 3**, all the study area intersections operate at acceptable levels of service (LOS) for the overall intersection. However, some of the minor street approach movements operate at unacceptable levels of service (LOS E or F) during the peak periods. With Port Royal Road serving as a major connection between the residential neighborhoods to the south of SR-396 and the regional roadway network and retail/commercial areas to the north the operational conditions shown are not uncommon for these type of network conditions. It is common for stop-controlled approaches on high volume roadways to experience longer delays, for completion of turning maneuvers, due to fewer available gaps in the mainline traffic.

Background Traffic Volumes

Developing Historic Growth Rates

In order to calculate the growth rate in the vicinity of the proposed development, the two TDOT count stations in the study area were identified. Traffic counts from 2021 to 2023 were used to develop an annual historic growth rate. Due to the impact of Corona virus traffic counts from 2019 and 2020 were excluded. **Table 4** below shows the AADT for TDOT count station (Location ID 60000244) located on Port Royal Road, south of SR-396 and north of the study area, and TDOT count station (Location ID 60000196) located on Kedron Road south of SR-396 interchange.

The Compound Annual Growth Rates (CAGR) from 2021 to 2023 are shown in **Table 4.** The calculation showed moderate growth at Port Royal Road and a significant growth at the Kedron Road location. However, the location with the extremely high growth rate is a reference point of the conditions beyond the study area and utilized estimated ADTs the year 2022. Based on the CAGRs shown in the table and the guidelines specified in the City's Traffic Impact Study Requirements, a 3.6 % annual growth was used for the calculation of the background traffic growth (2032) and the horizon year (buildout plus 5 years – 2037) traffic growth.

TABLE 4
TDOT ADT DATA

TDOT Count Sta. **60000244** Port Royal Road, south of SR-396		TDOT Count Sta. **60000090** Kedron Road, south of SR-396	
Year	AADT	Year	AADT
2023	22,012	2023	12,440
2022	26,482	2022	11,221[1]
2021	20,495	2021	10,779
2021 – 2023 CAGR	3.63%		7.43%

[1] Tennessee Traffic Information Management and Evaluation System (TN-TIMES) - Estimated Volume

Based on coordination with City of Spring Hill Planning staff and background information gathered from the City staff, the following are approved yet unbuilt and ongoing developments included in the background traffic volumes.

- **Spring Hill Towne Crossing** – a mixed-use development located at the SR-396 interchange.
- **Brandon Woods** – a residential development located just south along Port Royal Road.
- **Tom Lunn @ Christie Lane** – a residential development located on Tom Lunn Road.
- **Derryberry Mixed Use** – a mixed-use development located at the corner of Port Royal Road and Derryberry Lane.

Figure 4 shows the total background traffic growth for the study area.

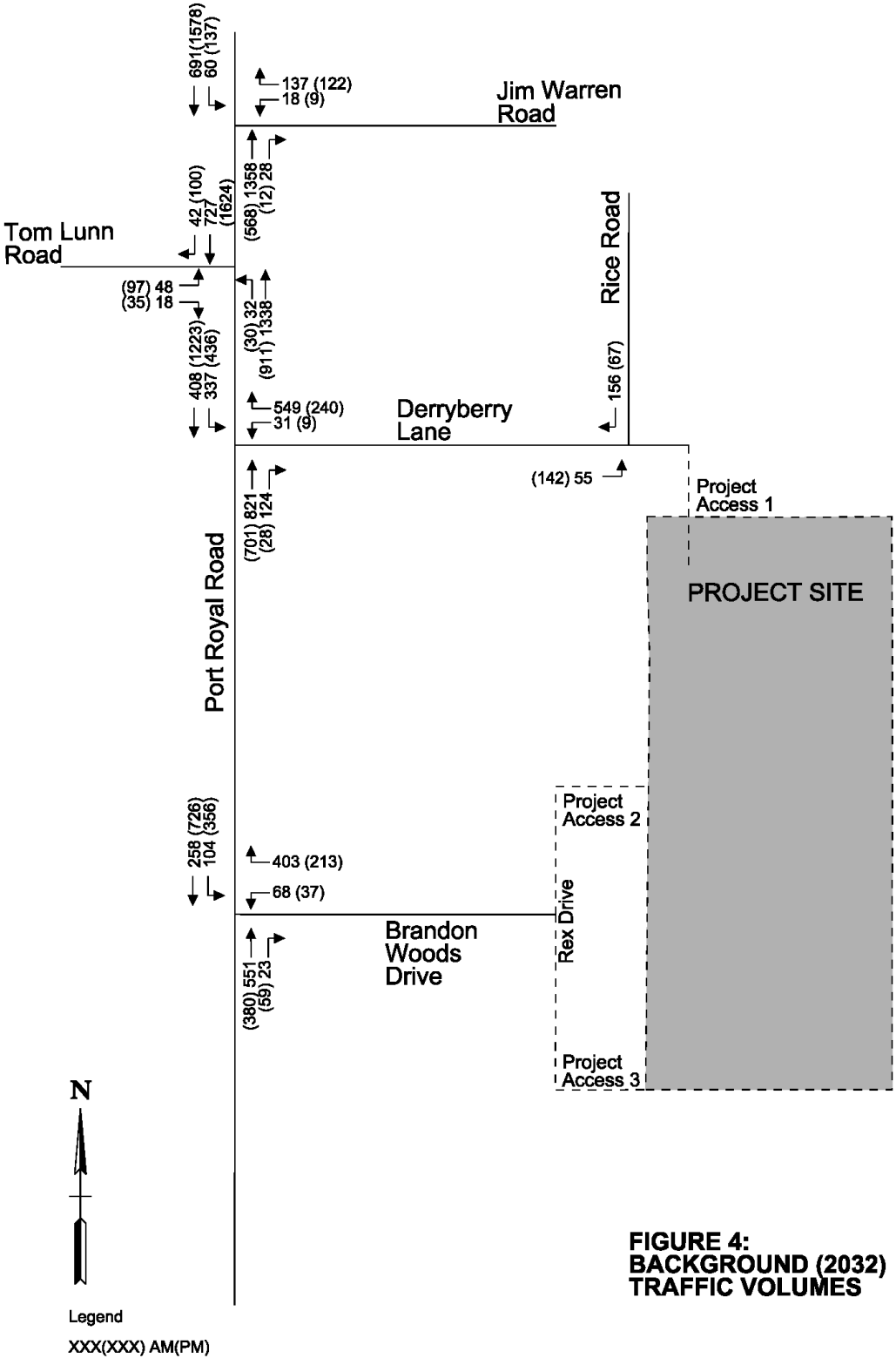


FIGURE 4: BACKGROUND (2032) TRAFFIC VOLUMES

Background (2032) Traffic Analysis

Background traffic volumes were developed using the compounded growth rate developed in the historic volume section. Background traffic analysis utilized the same lane configurations as the existing conditions. An additional analysis was completed with the signalization at the intersection of Port Royal Road and Brandon Woods Drive and at the intersection of Port Royal Road and Derryberry Lane. The Brandon Woods development has approved plans for the installation of a southbound left-turn lane and traffic signalization at this intersection. The signalization for Derryberry Lane was evaluated and recommended as part of the Derryberry Mixed-use development that was approved in 2023. There is not timetable for the Derryberry development. These improvements were accounted for in the additional background conditions analysis and the results are shown in Table 6.

Traffic volumes for the unbuilt and unoccupied units in the Brandon Woods subdivision were included in the background assumptions. Since the subdivision is expected to be completed in 2032, the background conditions include the new trips for this analysis.

Table 5 shows the operational analysis results of each intersection for the background conditions. The intersection of Port Royal Road and Derryberry Lane shows poor LOS and significant queuing in the AM peak period. From the existing conditions analysis to the background conditions analysis, the LOS and delay degraded from LOS C with 18.2 seconds/vehicle of delay to LOS F with 135.4 seconds /vehicle of delay. The maximum queue observed increased from 300 feet to 1,175 feet for the westbound right-turn movement. The PM peak shows similar overall intersection delay and LOS when compared to the existing condition in 2024. However, the critical movement analysis shows delay increased from 60.9 seconds/vehicles in the existing (2024) to 469.5 seconds/vehicle in the background (2032). The background analysis also shows longer queues are expected for the westbound approach. The delay values shown indicate the operating conditions for the westbound approach will continue to degrade from the existing (2024) conditions to the background (2032) conditions. This can be attributed to the high background mainline traffic volumes on Port Royal Road that make turning movements from side street difficult as noted in the existing conditions.

At Port Royal Road and Brandon Woods Drive, the overall intersection LOS degraded from LOS A in the existing (2024) conditions to LOS C in the background (2032) conditions. The critical movement condition for the westbound approach shows LOS F for the AM and PM peak conditions which does not meet the minimum acceptable conditions. The westbound approach shows increased delay under existing geometry due to the addition of the approved yet unbuilt development traffic. The PM peak hour shows delay values exceeding 300 seconds/vehicle for the westbound left turn.

TABLE 5
BACKGROUND LEVEL OF SERVICE

Intersection	Movement	AM Peak			PM Peak		
		LOS	Delay (s/veh)	95th % Queue[1]	LOS	Delay (s/veh)	95th % Queue[1]
Port Royal Road & Derryberry Lane	*Westbound Approach*	*F*	*($) 483.7*		*F*	*71.0*	
	Westbound Left	F	($) 729.8	123 ft.	F	($) 1191.5	53 ft.
	Westbound Right	F	($) 469.8	1175 ft.	D	29.0	113 ft.
	Southbound Left	C	17.3	95 ft.	B	14.7	88 ft.
	Overall Intersection	***F***	***135.4***		***A***	***9.3***	
Port Royal Road & Brandon Woods Drive	*Westbound Approach*	*F*	*55.9*		*F*	*184.3*	
	Westbound Left	E	45.4	58 ft.	F	($) 1145.6	165 ft.
	Westbound Right	F	57.7	295 ft.	C	17.3	68 ft.
	Southbound Left	A	9.4	< 25 ft.	B	10.5	45 ft.
	Overall Intersection	***C***	***20.2***		***C***	***32.1***	
Port Royal Road & Tom Lunn Road	*Eastbound Approach*	*F*	*($) 405.9*		*F*	*2569.1*	
	Eastbound Left	F	($) 552.6	145 ft.	F	3472.6	355 ft.
	Eastbound Right	B	14.7	< 25 ft.	F	65.2	40 ft.
	Northbound Left	A	9.5	< 25 ft.	C	17.3	< 25 ft.
	Overall Intersection	***B***	***12.5***		***F***	***121.4***	
Port Royal Road & Jim Warren Road	*Westbound Approach*	*F*	*138.0*		*D*	*32.3*	
	Westbound Left	F	226.5	50 ft.	F	263.6	33 ft.
	Westbound Right	F	126.4	183 ft.	C	15.2	28 ft.
	Southbound Left	B	14.5	< 25 ft.	A	9.5	< 25 ft.
	Overall Intersection	***A***	***9.7***		***A***	***1.5***	
Derryberry Lane & Rice Road	*Southbound Approach*		*FREE*			*FREE*	
	Southbound Right		*FREE*	< 25 ft.		*FREE*	< 25 ft.
	Westbound Right		*FREE*	< 25 ft.		*FREE*	< 25 ft.
	Overall Intersection						

1 For queue calculation purposes, each 25 feet is equivalent to one vehicle.
2 # - 95th percentile volume exceeds capacity.
3 $ - Delay exceeds 300 seconds.

Traffic signal control at Brandon Woods Drive and Port Royal Road has been approved as part of the continuing construction for this development. Similarly, traffic signal control is being considered for Port Royal and Derryberry Lane and this might have a positive impact on the intersection operating conditions with completed development traffic.

Table 6 below shows the operational analysis results of the study intersection of Port Royal Road and Brandon Woods Drive, and Port Royal Road and Derryberry Lanes if a signal were to be implemented in the background conditions. The overall intersection LOS at Port Royal Road and Brandon Woods Drive for the AM and PM, operate at LOS B and a couple of individual movements operate at LOS C.

As for the intersection of Port Royal Road and Derryberry Lane the overall intersection operates at LOS D or better. However, the westbound approach and in particular the westbound right-turn movement operates poorly with a LOS F and 100.9 seconds of delay per vehicle.

TABLE 6
BACKGROUND CONDITIONS WITH TRAFFIC SIGNALIZATION[4]
LEVEL OF SERVICE

Intersection	Movement	AM Peak			PM Peak		
		LOS	Delay (s/veh)	95th % Queue[1]	LOS	Delay (s/veh)	95th % Queue[1]
Port Royal Road & Derryberry Lane	*Westbound Approach*	*F*	*96.5*		*B*	*17.4*	
	Westbound Left	C	22.2	36 ft.	C	21.6	< 25 ft.
	Westbound Right	F	100.9	309 ft.	B	17.1	42 ft.
	Southbound Approach	*B*	*17.7*		*B*	*14.0*	
	Southbound Through	A	6.0	87 ft.	B	13.3	(#) 653 ft.
	Southbound Left	C	29.7	(#) 219 ft.	B	12.1	108 ft.
	Northbound Approach	*C*	*26.8*		*B*	*14.0*	
	Northbound Through	C	29.4	(#) 541 ft.	B	14.3	275 ft.
	Northbound Right	B	12.6	47 ft.	A	9.4	< 25 ft.
	Overall Intersection	***D***	***45.2***		***B***	***13.6***	
Port Royal Road & Brandon Woods Drive	*Westbound Approach*	*C*	*24.8*		*C*	*24.4*	
	Westbound Left	B	12.1	44 ft.	B	17.2	34 ft.
	Westbound Right	C	26.9	142 ft.	C	25.6	28 ft.
	Southbound Approach	*B*	*11.8*		*B*	*10.5*	
	Southbound Through	A	8.4	92 ft.	A	7.5	205 ft.
	Southbound Left	B	19.3	66 ft.	B	15.8	(#) 161 ft.
	Northbound Approach	*B*	*11.9*		*C*	*24.0*	
	Northbound Through	A	0.0	257 ft.	A	0.0	251 ft.
	Northbound Right	B	11.9	< 25 ft.	C	24.0	< 25 ft.
	Overall Intersection	***B***	***16.4***		***B***	***16.5***	

1 For queue calculation purposes, each 25 feet is equivalent to one vehicle.
2 # - 95th percentile volume exceeds capacity.
3 $ - Delay exceeds 300 seconds.
4 Includes a new traffic signal at Port Royal Road and Derryberry Lane and at Port Royal Road and Brandon Woods Drive

Proposed Development Impacts

Development Trip Generation

The proposed new development is expected to generate vehicular trips that will use the roadway network in the study area. To determine the expected amount of traffic to be generated from the proposed Stone Creek development, *ITE Trip Generation Manual*, 11th Edition was used to calculate the daily trips, AM Peak hour trips, and PM peak hour trips.

According to the *Trip Generation Handbook* by ITE, the residential characteristics of Stone Creek developments are divided into three categories. Single-family detached, Single-family attached and multi-family housing. The trip generated by each category is related to the number of units proposed for the area.

Table 7 shows the projected trip generation and total external trips. **Appendix D** includes the trip generation calculations.

TABLE 7
TRIP GENERATION FOR PROPOSED DEVELOPMENT

Trip Generation Table							
Land Use	**LUC**	**Size**	**Daily Trips**	**AM Peak Hour Trips[1]**		**PM Peak Hour Trips[1]**	
				Enter	**Exit**	**Enter**	**Exit**
Multifamily Housing (Low-Rise)	220	360 units	2,426	41	128	127	78
Single Family Attached (TH)	215	665 units	4,788	91	275	252	154
Single Family Detached (DP)	210	9 units	85	2	5	6	3
Subtotal				134	408	385	235
Total Generated External Trips				**134**	**408**	**385**	**235**

Trip Distribution and Traffic Assignment

The trips generated by the proposed development will be distributed and assigned to the roadway network within the study area. The trip distribution pattern for each land use is based on existing land use characteristics, the existing traffic flow patterns in the study area, access to the proposed development, and location of the different subarea and regional land uses and population centers. **Figures 5** and **6** show the trip distribution (residential) and the overall traffic assignment for the proposed development.

To determine the total amount of traffic traveling through the study area in 2032 when the development is complete, the trip assignment was added to the Total Background traffic volumes. The resulting traffic volumes are shown in **Figure 9** as Total Projected (2032) Traffic Volumes.

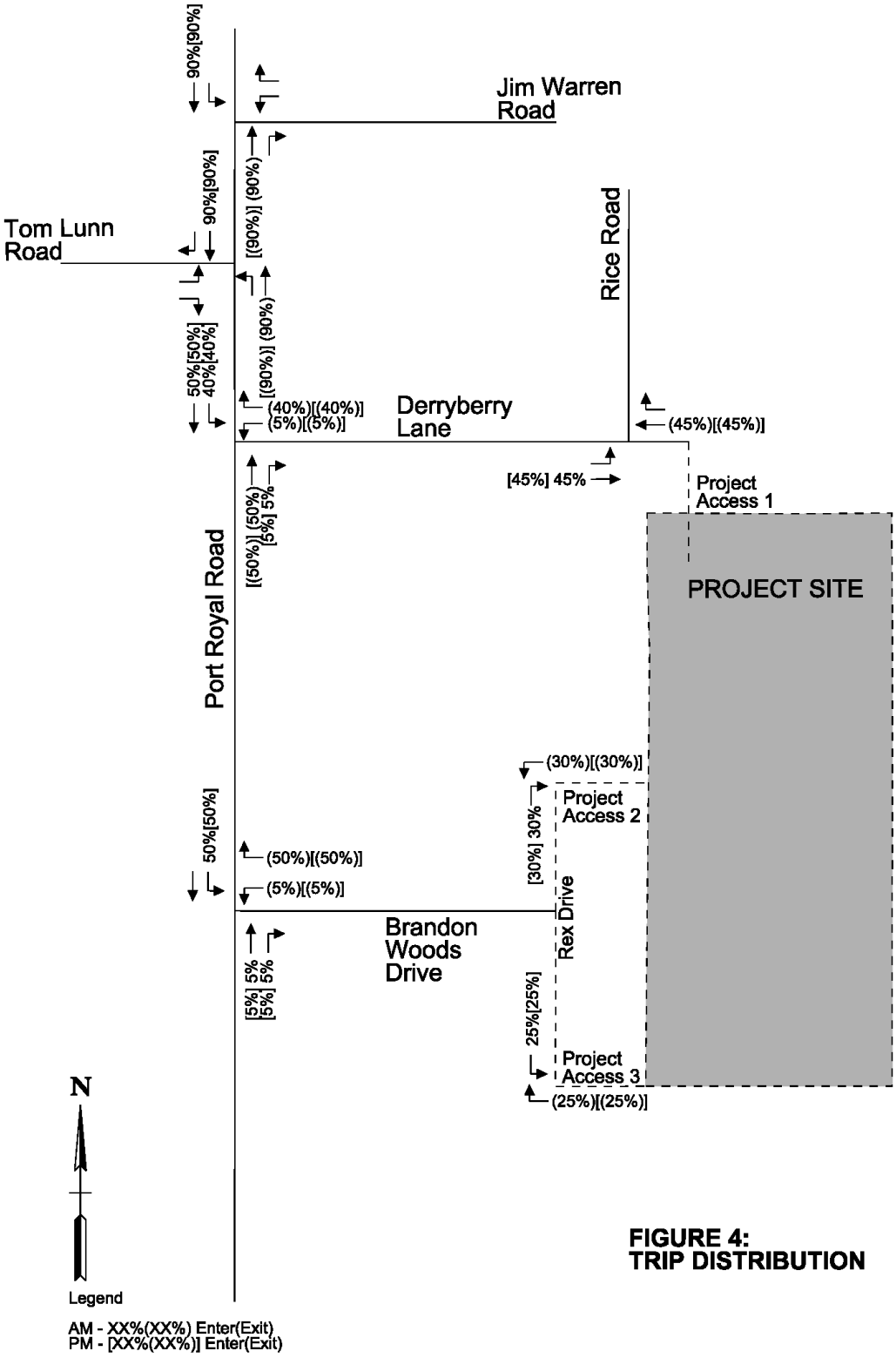


FIGURE 4:
TRIP DISTRIBUTION

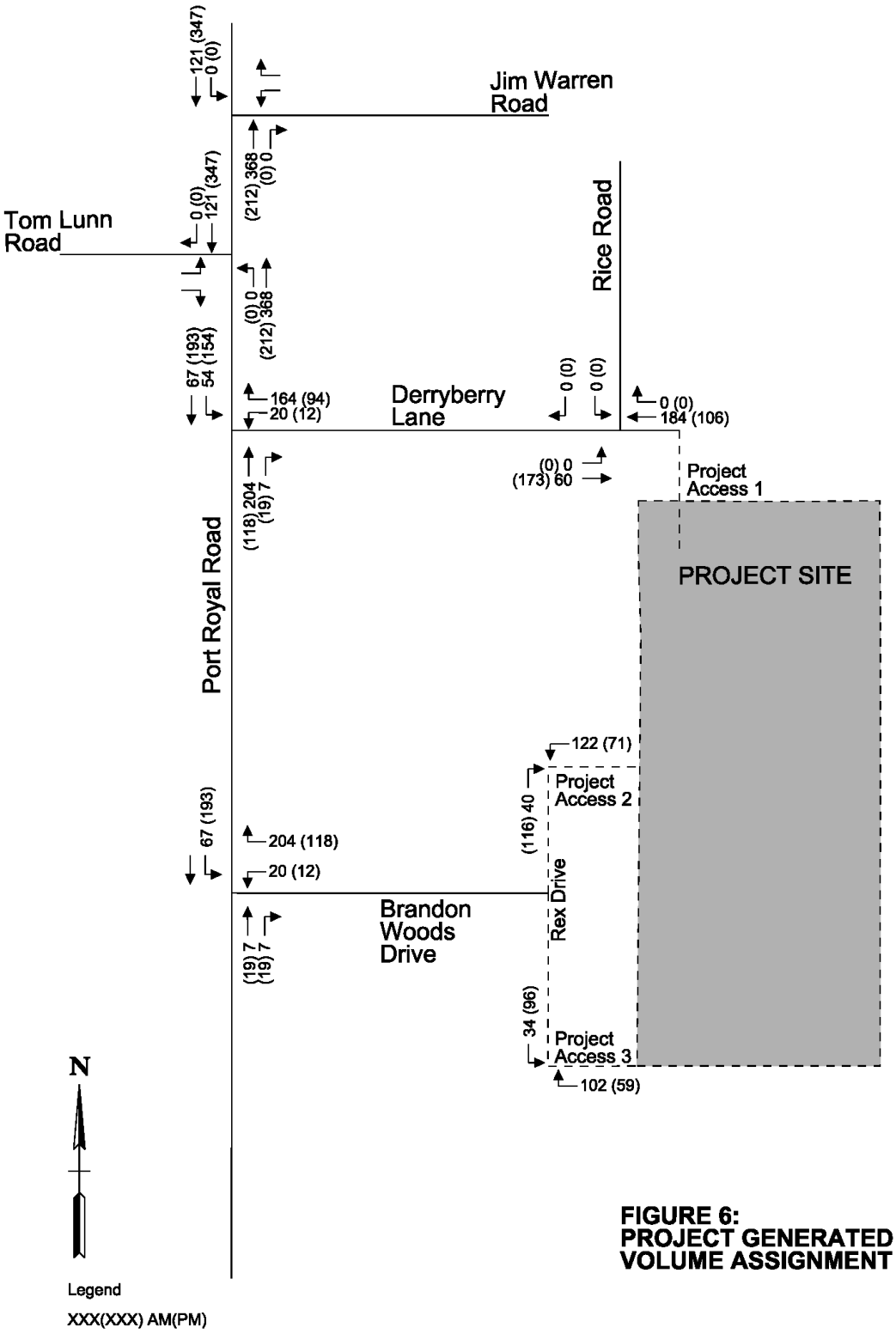


FIGURE 6:
PROJECT GENERATED VOLUME ASSIGNMENT

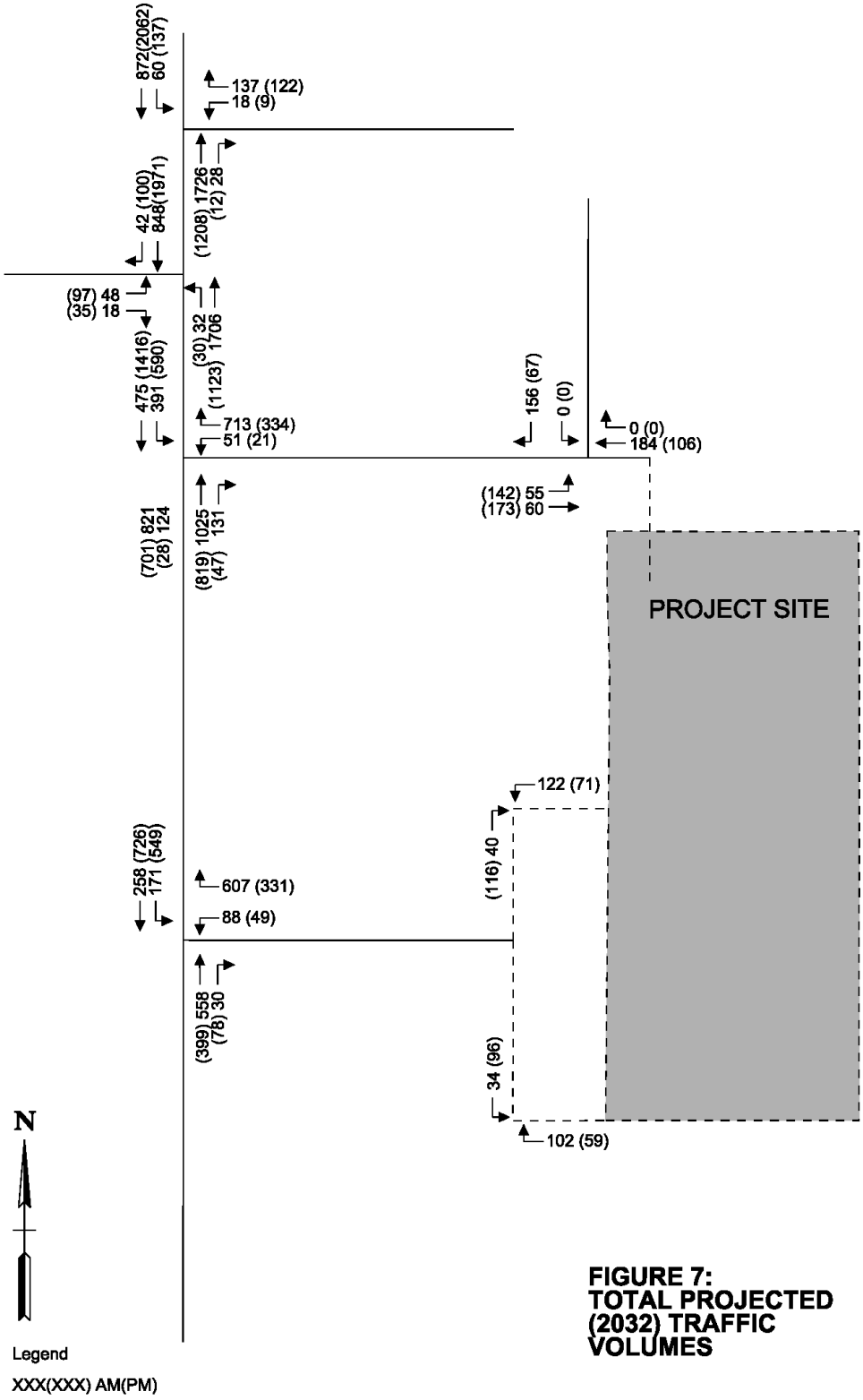


FIGURE 7: TOTAL PROJECTED (2032) TRAFFIC VOLUMES

Total Projected (2032) Traffic Analysis

Total projected traffic volumes were developed from background traffic volumes and the proposed development traffic. Capacity analyses were performed to evaluate the need for roadway and intersection control improvements within the study area. Using the total projected traffic volumes (**Figure 7),** the analysis results are shown in **Table 8** below.

TABLE 8
TOTAL PROJECTED LEVEL OF SERVICE

Intersection	Movement	AM Peak			PM Peak		
		LOS	Delay (s/veh)	95th % Queue[1]	LOS	Delay (s/veh)	95th % Queue[1]
Port Royal Road & Derryberry Lane	*Westbound Approach*	*F*	*($)1497.0*		*F*	*1072.1*	
	Westbound Left	F	($)6632.3	243 ft.	F	($)1645.0	115 ft.
	Westbound Right	F	($)1129.7	2048 ft.	F	105.2	335 ft.
	Southbound Left	D	34.4	208 ft.	D	32.4	258 ft.
	Overall Intersection	***F***	***445.5***		***F***	***126.5***	
Port Royal Road & Brandon Woods Drive (Signalized)	*Westbound Approach*	*F*	*115.2*		*B*	*17.3*	
	Westbound Left	B	17.4	86 ft.	C	26.2	58 ft.
	Westbound Right	F	129.3	(#)398 ft.	B	16.0	90 ft.
	Northbound Approach	*B*	*17.7*		*C*	*30.5*	
	Southbound Approach	*A*	*8.8*		*B*	*16.8*	
	Southbound Left	B	12.7	67 ft.	C	30.6	(#) 455 ft.
	Overall Intersection	***E***	***68.7***		***C***	***20.0***	
Port Royal Road & Tom Lunn Road	*Eastbound Approach*	*F*	*($) 948.7*		*F*	*9729.3*	
	Eastbound Left	F	($) 1298.0	175 ft.	F	13185.7	383 ft.
	Eastbound Right	C	17.1	< 25 ft.	F	150.1	70 ft.
	Northbound Left	B	10.3	< 25 ft.	C	23.4	< 25 ft.
	Overall Intersection	***C***	***23.4***		***F***	***382.9***	
Port Royal Road & Jim Warren Road	*Westbound Approach*	*F*	*($) 492.4*		*F*	*268.9*	
	Westbound Left	F	($) 843.3	78 ft.	F	3134.8	60 ft.
	Westbound Right	F	($) 446.3	308 ft.	F	57.5	108 ft.
	Southbound Left	C	19.6	< 25 ft.	B	14.7	30 ft.
	Overall Intersection	***C***	***27.3***		***A***	***10.5***	
Derryberry Lane & Rice Road & Project Access 1	*Southbound Approach*	*B*	*10.4*		*A*	*9.2*	
	Southbound Right	B	10.4	< 25 ft.	A	9.2	< 25 ft.
	Eastbound Left	A	7.8	< 25 ft.	A	7.7	< 25 ft.
	Overall Intersection	***A***	***4.6***		***A***	***3.6***	
Project Access 2 & Rex Drive	*Westbound Approach*	A	8.0	< 25 ft.	A	7.8	< 25 ft.
	Southbound Approach	A	7.3	< 25 ft.	A	7.2	< 25 ft.
	Northbound Approach	A	6.8	< 25 ft.	A	7.0	< 25 ft.
	Overall Intersection	***A***	***7.7***		***A***	***7.3***	

Project Access 3 & Rex Drive	*Southbound Approach*	A	7.2	< 25 ft.	A	7.9	< 25 ft.
	Westbound Approach	A	7.7	< 25 ft.	A	6.8	< 25 ft.
	Northbound Approach	A	8.1	< 25 ft.	A	7.2	< 25 ft.
	Overall Intersection	***A***	***7.6***		***A***	***7.5***	

1 For queue calculation purposes, each 25 feet is equivalent to one vehicle.
2 # - 95th percentile volume exceeds capacity.
3 $ - Delay exceeds 300 seconds.

When comparing the results shown in **Table 8** for the Total Projected (2032) conditions to the results shown in **Table 5** for the Background conditions, the impact of the proposed Stone Creek development can be determined. The overall operation of the Port Royal Road corridor is poor. With the current lane configuration, one travel lane in each direction, the corridor does not have the capacity to accommodate the background growth and the already approved developments within the immediate vicinity of the study area. As shown in **Tables 5** and **8**, any unsignalized intersection along the corridor north of Brandon Woods Drive is expected to experience excessive delays trying to maneuver into the traffic stream. This is due to the minimal gaps available within the mainline traffic. The LOS analysis reports are included in **Appendix C**.

Additional development traffic created more operational issues to the background conditions at the study area. Significant right-turn volumes on Port Royal Road from existing and background growth and the addition of the proposed Stone Creek Development create more operational issues throughout the study intersections.

Internally to the proposed development and within the adjacent developments, i.e. Brandon Woods where a primary access to Stone Creek is located, each of the unsignalized intersections are expected to operate at an acceptable level.

Total Projected (2026) with Improvements Traffic Analysis

Potential mitigation measures were evaluated as part of this study, including turn lane warrants for the stop-controlled intersections. Being that the traffic signal design plans are already approved for Port Royal Road at Brandon Woods Drive and a traffic signal was warranted and recommended as part of the Derryberry Mixed-use development, the traffic signal warrants were not evaluated as part of this study.

Table 9 shows the results of the operational analysis for the intersections where potential improvements were evaluated. These potential improvements include:

- Port Royal Road and Derryberry Lane – Installation of a traffic signal. This improvement was recommended as part of the Derryberry Mixed Use. As developments within the immediate vicinity of the intersection contribute to the overall degradation of the intersection operations, these developments are requested to consider contributing to the intersection improvement.
- Port Royal Road and Brandon Woods Drive – Installation of a traffic signal and addition of a southbound left-turn lane and northbound right-turn lane. Based on the turn lane warrant analysis, this lane is warranted under Total Projected (2032), but the overall level of service does not show evident need in the Total Projected (2032) results in **Table 9**.

- Port Royal Road - Consider adding a lane on each travel direction of Port Roay Road. This will increase the overall throughput capacity and help create additional gaps within the mainline traffic stream so that side street vehicles can maneuver onto Port Royal Road.

TABLE 9
TOTAL PROJECTED WITH IMPROVEMENTS
LEVEL OF SERVICE

Intersection	Movement	AM Peak			PM Peak		
		LOS	Delay (s/veh)	95th % Queue[1]	LOS	Delay (s/veh)	95th % Queue[1]
Port Royal Road & Derryberry Lane	*Westbound Approach*	*F*	*199.1*		*C*	*21.4*	
	Westbound Left	C	29.2	57 ft.	C	28.5	30 ft.
	Westbound Right	F	211.2	(#) 703 ft.	C	21.0	179 ft.
	Southbound Approach	*D*	*50.9*		*F*	*203.3*	
	Southbound Left	F	104.2	(#) 395 ft.	F	245.7	(#) 655 ft.
	Northbound Approach	*F*	*173.9*		*F*	*114.3*	
	Overall Intersection	***F***	***142.2***		***F***	***159.7***	
Port Royal Road & Brandon Woods Drive	*Westbound Approach*	*F*	*96.3*		*B*	*12.7*	
	Westbound Left	B	17.4	87 ft.	C	21.1	53 ft.
	Westbound Right	F	107.7	(#) 411 ft.	B	11.5	54 ft.
	Southbound Approach	*A*	*9.8*		*C*	*20.1*	
	Southbound Left	B	13.6	57 ft.	D	35.9	(#) 386 ft.
	Northbound Approach	*B*	*18.9*		*C*	*22.6*	
	Overall Intersection	***D***	***49.3***		***B***	***19.3***	

1. For queue calculation purposes, each 25 feet is equivalent to one vehicle.
2. # - 95th percentile volume exceeds capacity.
3. $ - Delay exceeds 300 seconds.

Table 9 shows the evaluated mitigation measures had some positive impact on the intersection operations. However, the overall intersection performance remains poor primarily due the corridor operating at or beyond capacity. Without additional lanes on the corridor, the intersection operations will remain poor as there is not enough available gaps within the mainline traffic flow to safely and efficiently maneuver from the side streets onto the mainline. The proposed intersection improvements show no significant changes in bringing the intersection to an acceptable operating level of service.

Roadway Network Evaluation

Major Street Turn Lane Evaluation

The National Cooperative Highway Research Program (NCHRP) is a national research program created to conduct research in problem areas that affect highway planning, design, construction, operation and maintenance. *NCHRP Report 457: Evaluating Intersection Improvements: An Engineering Study Guide* is considered the industry standard for the determination for the need of left-turn and right-turn lanes along roadways at two-way stop-controlled intersections. The results of the left turn lane evaluation at the study area intersections are summarized in **Table 10** and **Table 11** provides the results of the turn lane evaluation.

TABLE 10
LEFT TURN LANE EVALUATION

Intersection	Movement	AM	PM
Port Royal Road & Brandon Woods Drive – Southbound	Existing (2022)	***NOT WARRANTED***	***WARRANTED***
	Background (2032)	***WARRANTED***	***WARRANTED***
	Total Projected (2032)	***WARRANTED***	***WARRANTED***

As shown in **Table 10**, Port Royal Road and Brandon Woods intersection, the mainline left-turn lane is warranted in the existing conditions for the PM peak period only. This implies that under existing conditions (2024) without the proposed development or any background traffic growth a left-turn lane is needed at this intersection. This location is also where Project Accesses 2 and 3 for the Stone Creek development are proposed. With future conditions for Background (2032), the left turn lane is warranted for both the AM and PM peak periods. It should be noted that the left-turn lanes are primarily warranted due to the high mainline traffic volumes traversing Port Royal Road, which minimizes the available gaps for the left-turning vehicles to safely complete the maneuver.

With Brandon Woods development conditioned for and already having approved plans for the southbound left-turn lane, the developer should coordinate with City staff about potential lengthening of the storage bay of the turn lane.

TABLE 11
RIGHT TURN LANE EVALUATION

Intersection	Movement	AM	PM
Port Royal Road & Brandon Woods Drive – Southbound	Existing (2022)	***NOT WARRANTED***	***NOT WARRANTED***
	Background (2032)	***NOT WARRANTED***	***WARRANTED***
	Total Projected (2032)	***NOT WARRANTED***	***WARRANTED***

As shown in **Table 11,** the intersection of Port Royal Road and Brandon Woods warrants a northbound right-turn lane in the PM peak for Background (2032) and Total Projected (2032) conditions. The background conditions also include the completed Brandon Woods development traffic. As with the southbound left-turn alne and the traffic signal at this intersection, Brandon Woods has plans to install a northbound right-turn lane. The turn lane warrant data sheets are included in **Appendix C**.

Access Sight Distance

According to industry standards, intersections should be constructed to provide adequate stopping sight distance and intersection sight distance for a vehicle to enter traffic safely on the traversing roadway. The intersection sight distance at each of the proposed access locations was measured using the guidance and criteria outlined in *A Policy on Geometric Design of Highways and Streets (Green Book) 7th Edition (2018),* published by the American Association of State Highway Transportation Officials (AASHTO). The measuring criteria includes:

- Height of driver's eye above road surface – 3.5 feet
- Object height – 3.5 feet.
- Location of driver on side street approach – 14.5 feet from the edge of traveled way along major road.

Project Access 1 is located on Derryberry Lane approximately 0.7 miles east of Port Royal Road. The posted speed limit is 40 mph. Therefore, the minimum required intersection sight distance for a passenger vehicle to turn left from a stop (Case B1) is 445 feet and to turn right from a stop (Case B2) is 385 feet. Based on field measurements under existing conditions, it appears adequate sight distance is available for motorists exiting the project site at Access 1.

Project Access 2 is located on Rex Drive approximately 0.5 miles feet east of Port Royal Road. Rex Drive connects the project access to Brandon Woods Drive, to enter and exit the study area through Port Royal Road. In this section of Brandon Woods Drive has two lanes with no stripping, and the posted speed limit is 20 mph. For this speed, the minimum required intersection sight distance for a passenger vehicle to turn right from a stop (Case B2) is 195 feet. The stopping sight distance for 20 mph is 115 feet. Based on field measurements under existing conditions, the area is still being developed and adequate site distance should be provided.

Project Access 3 is proposed south of the property joining Rex Drive. Like Project Access 2, Rex Drive connects the project access to Brandon Woods Drive, to enter and exit the study area through Port Royal Road. In this section of Brandon Woods Drive has two lanes with no stripping, and the posted speed limit is 20 mph. For this speed, the minimum required intersection sight distance for a passenger vehicle to

turn right from a stop (Case B2) is 195 feet. The stopping sight distance for 20 mph is 115 feet. Based on field measurements under existing conditions, the area is still being developed and adequate site distance should be provided.

Being that the project accesses have not been constructed, obtaining fully accurate field measurements could not be completed. Therefore, during the development of the site design plans, intersection sight triangles should be provided for each project access. These sight triangles should be developed based on the AASHTO Green Book and the required minimum intersection sight distance and stopping sight distance provided at each project access. Additionally, each project access should be designed such that the departure sight triangles, as specified by ASSHTO, will be clear of all potential sight obstructions, including buildings, signs, vertical and horizontal curves, utility poles, trees, etc.

Road Connectivity in the Study Area

From the site plan shown in **Appendix A,** the project access points will connect to multiple internal roadways within Brandon Woods development and to Derryberry Lane and Rice Road to the north. General traffic evaluations were done on the internal roadways to determine the potential primary routing and potential areas of concern. Actual capacity analysis and operational analysis were not conducted as the internal network of the Brandon Woods development is not completed. As shown in Figures 6 and 7, the Stone Creek development will add traffic to Brandon Woods Drive as this is one of two primary access routes to Port Royal Road from the development. The actual number of additional trips through Brandon Woods and the specific routes taken will be dependent on the ease of the route and the overall travel times to get to Port Royal Road and ultimately to the regional network, such as SR 396 (Saturn Parkway ramps).

To potentially mitigate the additional traffic traveling through Brandon Woods, the Stone Creek development should work with the City's Planning and Public Works staff on a potential traffic remediation plan.

Conclusions and Recommendations

From the analysis provided in the study, the study area intersections will experience increased delay and poor levels of service due to general background traffic growth and the proposed development traffic. The addition of the Stone Creek Residential development has some impact on the overall traffic operations within the study area. With the combined impacts of the background traffic growth, other approved yet unbuilt developments, and the Stone Creek development, the need for significant corridor improvements is apparent. This is not exclusively a result of the Stone Creek development, but a combination of multiple developments within the immediate corridor and overall regional traffic growth. The following improvements have been identified to help mitigate the traffic impacts in the study area. As noted below, some of these improvements have already been conditioned on previously approved developments and should not be considered the responsibility of this development.

1 A traffic signal should be installed at the intersection of Port Royal Road and Derryberry Lane. The design and components of the traffic signal shall be consistent with the City of Spring Hill Traffic Signal Specifications and shall follow TDOT and MUTCD standards. *As noted within the study, this traffic signal was part of the conditions of approval for the Port Royal Commercial development that was approved in 2023 located at the corner of Port Royal Road and Derryberry Lane.*

2 A traffic signal should be installed at the intersection of Port Royal Road and Brandon Woods Drive. The design and components of the traffic signal shall be consistent with the City of Spring Hill Traffic Signal Specifications and shall follow TDOT and MUTCD standards. *As noted within the study, this traffic signal has been designed and approved by the City as part of the Brandon Woods conditions of approval.*

3 At the intersection of Port Royal Road and Brandon Woods Drive, a left-turn lane for the southbound approach and a right-turn lane for the northbound approach should be installed. The left-turn lane should have a minimum of 250 feet of storage and taper to AASHTO standards. The right-turn lane should have a minimum of 100 feet of storage and taper to AASHTO standards. The design and components of the lanes shall be consistent with the AASHTO standards, City of Spring Hill, and shall follow TDOT and MUTCD standards. *As noted within the study, these turn lanes have been designed and approved by the City as part of the Brandon Woods conditions of approval.*

4 Project Access 1 on Derryberry Lane should be constructed with one lane entering and one lane exiting. This access shall join the end of Derryberry Lane to form a “T” stop-controlled intersection with Rice Road intersecting Derryberry Lane at 90 degrees and being under stop-control. The intersection design shall be completed according to AASHTO, TODT and City of Spring Hill standards and requirements. All signing and pavement markings shall adhere to the latest edition of the MUTCD.

5 Project Access 2 on Rex Drive shall be constructed with one lane for exiting traffic and one lane for entering traffic. The intersection design shall be completed according to AASHTO, TDOT, and City of Spring Hill standards and requirements. As part of the final roadway layout design, the intersection should be evaluated for two-way and all-way stop control. All signing and markings shall be done in accordance with the latest edition of the MUTCD.

6 Project Access 3 on Rex Drive shall be constructed with one lane for exiting traffic and one lane for entering traffic. The intersection design shall be completed according to AASHTO, TDOT, and City of Spring Hill standards and requirements. As part of the final roadway layout design, the intersection should be evaluated for two-way and all-way stop control. All signing and markings shall be done in accordance with the latest edition of the MUTCD.

7 Each project access should be located and designed such that departure sight triangles, as specified by ASSHTO, will be clear of all potential sight obstructions, including buildings, signs, vertical and horizontal curves, utility poles, trees, etc.

8 All project accesses to the local roadway network shall meet the City's UDC requirements for alignment and spacing in relation to driveways/access points along the same side or opposite side of the roadway.

9 The Stone Creek development team should work with the City's Planning and Public Works staff to identify potential traffic mitigation strategies as it relates to potential cut-through traffic through adjoining developments.

10 The developer shall coordinate with the City of Spring Hill on future improvements along the Port Royal Road corridor.

Appendix

A. Site Plan

B. Traffic Counts

C. Turn Lane Warrant Data Sheets
   a. Existing (2024) – Left Turn & Right Turn
   b. Background (2032) – Left Turn & Right Turn
   c. Total Projected (2032) – Left Turn & Right Turn
   d. Build-out Plus 5 Years (2037) – Right Turn

D. Level of Service (LOS) Reports –
   a. Existing (2024)
   b. Background (2032)
   c. Total Projected (2032)
   d. Total Projected (2032) with Recommendations
   e. Build-out Plus 5 Years (2037)

E. Trip Generation

F. Backup Data – Traffic Figures

A. Site Plan

0
200
400
SCALE: 1"=200'
N
Phase 13
Phase 12
Phase 11
Phase 10
Phase 9
Phase 8
Phase 7
Phase 6
Phase 5
Phase 4
Phase 3
Phase 14

B. Traffic Counts

Bi-Directional Speed & Class Count || NB EB 15min

Spring Hill, TN (Stone Creek)

Marr Traffic DATA COLLECTION
www.marrtraffic.com

Site 1
Derryberry Ln N,
east of Neeleys Bend E

Date
Tuesday, January 30, 2024

Lat/Long
35.722758°, -86.885532°

Click here for Map

Weather
Mostly Cloudy
42°F

Click here for Detailed Weather

0000 - 2400 (Weekday 24h Session)
NB EB 15min

	Eastbound (Movement 1.1)													15min	60min
Time	Class 1	Class 2	Class 3	Class 4	Class 5	Class 6	Class 7	Class 8	Class 9	Class 10	Class 11	Class 12	Class 13	Total	Total
0000 - 0015	0	3	0	0	0	0	0	0	0	0	0	0	0	3	
0015 - 0030	0	13	0	0	3	0	0	0	0	0	0	0	0	16	
0030 - 0045	0	4	0	0	1	0	0	0	0	0	0	0	0	5	
0045 - 0100	0	4	0	0	1	0	0	0	0	0	0	0	0	5	29
0100 - 0115	0	1	1	0	1	0	0	0	0	0	0	0	0	3	
0115 - 0130	0	6	0	0	0	0	0	0	0	0	0	0	0	6	
0130 - 0145	0	6	0	0	1	0	0	0	0	0	0	0	0	7	
0145 - 0200	0	4	0	0	0	0	0	0	0	0	0	0	0	4	20
0200 - 0215	0	1	1	0	1	0	0	0	0	0	0	0	0	3	
0215 - 0230	0	1	0	0	0	0	0	0	0	0	0	0	0	1	
0230 - 0245	0	3	0	0	0	0	0	0	0	0	0	0	0	3	
0245 - 0300	0	2	0	0	0	0	0	0	0	0	0	0	0	2	9
0300 - 0315	0	3	0	0	2	0	0	0	0	0	0	0	0	5	
0315 - 0330	0	1	0	0	1	0	0	0	0	0	0	0	0	2	
0330 - 0345	0	2	0	0	0	0	0	0	0	0	0	0	0	2	
0345 - 0400	0	1	0	0	0	0	0	0	0	0	0	0	0	1	10
0400 - 0415	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0415 - 0430	0	0	0	0	1	0	0	0	0	0	0	0	0	1	
0430 - 0445	0	2	1	0	0	0	0	0	0	0	0	0	0	3	
0445 - 0500	0	3	0	0	0	0	0	0	0	0	0	0	0	3	7
0500 - 0515	0	3	0	0	1	0	0	0	0	0	0	0	0	4	
0515 - 0530	0	4	0	0	1	0	0	0	0	0	0	0	0	5	
0530 - 0545	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0545 - 0600	0	2	0	0	0	0	0	0	0	0	0	0	0	2	11
0600 - 0615	0	2	0	0	1	0	0	0	0	0	0	0	0	3	
0615 - 0630	0	6	0	0	2	0	0	0	0	0	0	0	0	8	
0630 - 0645	0	8	0	0	1	0	0	0	0	0	0	0	0	9	
0645 - 0700	0	8	0	0	3	0	0	0	0	0	0	0	0	11	31
0700 - 0715	0	9	2	0	0	0	0	0	0	0	0	0	0	11	
0715 - 0730	0	7	2	0	1	0	0	0	0	0	0	0	0	10	
0730 - 0745	0	14	0	0	1	0	0	0	0	0	0	0	0	15	
0745 - 0800	0	18	4	0	4	0	0	0	0	0	0	0	0	26	62
0800 - 0815	0	21	2	0	3	0	0	0	0	0	0	0	0	26	
0815 - 0830	0	8	0	0	1	0	0	0	0	0	0	0	0	9	
0830 - 0845	0	5	0	0	3	0	0	0	0	0	0	0	0	8	
0845 - 0900	0	8	0	0	4	1	0	0	0	0	0	0	0	13	56
0900 - 0915	0	6	0	0	1	0	0	0	0	0	0	0	0	7	
0915 - 0930	0	6	1	0	2	0	0	0	0	0	0	0	0	9	
0930 - 0945	0	11	1	0	2	0	0	0	0	0	0	0	0	14	
0945 - 1000	0	12	1	0	0	0	0	0	0	0	0	0	0	13	43
1000 - 1015	0	15	2	0	1	0	0	0	0	0	0	0	0	18	
1015 - 1030	0	11	1	0	3	0	0	0	0	0	0	0	0	15	
1030 - 1045	0	16	2	0	3	0	0	0	0	0	0	0	0	21	
1045 - 1100	0	12	1	0	0	0	0	0	0	0	0	0	0	13	67
1100 - 1115	0	11	1	0	2	0	0	0	0	0	0	0	0	14	
1115 - 1130	0	11	0	0	3	0	0	0	0	0	0	0	0	14	
1130 - 1145	0	17	0	0	3	0	0	0	0	0	0	0	0	20	
1145 - 1200	1	14	1	0	5	0	0	0	0	0	0	0	0	21	69
1200 - 1215	0	16	0	0	3	0	0	0	0	0	0	0	0	19	
1215 - 1230	0	16	1	0	0	0	0	0	0	0	0	0	0	17	
1230 - 1245	0	18	0	0	4	0	0	0	0	0	0	0	0	22	
1245 - 1300	0	11	2	0	0	0	0	0	0	0	0	0	0	13	71
1300 - 1315	0	16	1	0	1	0	0	0	0	0	0	0	0	18	
1315 - 1330	0	17	6	0	1	0	0	0	0	0	0	0	0	24	
1330 - 1345	0	18	1	0	2	0	0	0	0	0	0	0	0	21	
1345 - 1400	0	18	1	0	1	0	0	0	0	0	0	0	0	20	83
1400 - 1415	0	16	4	0	2	0	0	0	0	0	0	0	0	22	
1415 - 1430	0	17	3	0	3	0	0	0	0	0	0	0	0	23	
1430 - 1445	0	34	1	0	2	0	0	0	0	0	0	0	0	37	
1445 - 1500	0	20	4	0	7	0	0	0	0	0	0	0	0	31	113
1500 - 1515	1	35	5	0	6	0	0	0	0	0	0	0	0	47	
1515 - 1530	0	37	2	0	3	0	0	0	0	0	0	0	0	42	
1530 - 1545	0	25	6	0	7	0	0	0	0	0	0	0	0	38	
1545 - 1600	0	28	4	0	4	0	0	0	0	0	0	0	0	36	163
1600 - 1615	0	27	4	0	5	0	0	0	0	0	0	0	0	36	
1615 - 1630	0	36	4	0	6	0	0	0	0	0	0	0	0	46	
1630 - 1645	0	41	2	0	5	0	0	0	0	0	0	0	0	48	
1645 - 1700	0	46	9	1	3	0	0	0	0	0	0	0	0	59	189
1700 - 1715	0	41	4	0	2	0	0	0	0	0	0	0	0	47	
1715 - 1730	0	55	3	0	7	0	0	0	0	0	0	0	0	65	
1730 - 1745	0	44	2	0	6	0	0	0	0	0	0	0	0	52	
1745 - 1800	0	46	3	1	2	0	0	0	0	0	0	0	0	52	216
1800 - 1815	0	42	2	0	2	0	0	0	0	0	0	0	0	46	
1815 - 1830	0	43	2	0	8	0	0	0	0	0	0	0	0	53	
1830 - 1845	0	44	4	0	3	0	0	0	0	0	0	0	0	51	
1845 - 1900	0	31	2	0	3	0	0	0	0	0	0	0	0	36	186
1900 - 1915	0	25	2	0	2	0	0	0	0	0	0	0	0	29	
1915 - 1930	0	30	5	0	2	0	0	0	0	0	0	0	0	37	
1930 - 1945	0	35	2	0	2	0	0	0	0	0	0	0	0	39	
1945 - 2000	0	29	0	0	1	0	0	0	0	0	0	0	0	30	135
2000 - 2015	0	21	3	0	2	0	0	0	0	0	0	0	0	26	
2015 - 2030	0	19	1	0	2	0	0	0	0	0	0	0	0	22	
2030 - 2045	0	25	1	0	1	0	0	0	0	0	0	0	0	27	
2045 - 2100	0	25	2	0	0	0	0	0	0	0	0	0	0	27	102
2100 - 2115	0	22	1	0	1	0	0	0	0	0	0	0	0	24	
2115 - 2130	0	15	1	0	2	0	0	0	0	0	0	0	0	18	
2130 - 2145	0	11	1	0	2	0	0	0	0	0	0	0	0	14	
2145 - 2200	1	13	0	0	0	0	0	0	0	0	0	0	0	14	70
2200 - 2215	0	9	2	0	2	0	0	0	0	0	0	0	0	13	
2215 - 2230	0	17	0	0	1	0	0	0	0	0	0	0	0	18	
2230 - 2245	0	14	0	0	1	0	0	0	0	0	0	0	0	15	
2245 - 2300	0	12	2	0	0	0	0	0	0	0	0	0	0	14	60
2300 - 2315	0	6	0	0	0	0	0	0	0	0	0	0	0	6	
2315 - 2330	0	4	0	0	1	0	0	0	0	0	0	0	0	5	
2330 - 2345	0	5	0	0	0	0	0	0	0	0	0	0	0	5	
2345 - 0000	0	6	0	0	0	0	0	0	0	0	0	0	0	6	22

Session Total	3	1506	129	2	183	1	0	0	0	0	0	0	0	1824
Session Average	0.03	15.69	1.34	0.02	1.91	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.00
Session Percentage	0.16	82.57	7.07	0.11	10.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

AM Peak Hour	-	0730 - 0830	0700 - 0800	-	0745 - 0845	0800 - 0900	-	-	-	-	-	-	-	0715 - 0815
AM Peak Hour Volume	0	61	8	0	11	1	0	0	0	0	0	0	0	77

Noon Peak Hour	1100 - 1200	1430 - 1530	1445 - 1545	-	1445 - 1545	-	-	-	-	-	-	-	-	1445 - 1545
Noon Peak Hour Volume	1	126	17	0	23	0	0	0	0	0	0	0	0	158

PM Peak Hour	1500 - 1600	1715 - 1815	1600 - 1700	1600 - 1700	1530 - 1630	-	-	-	-	-	-	-	-	1645 - 1745
PM Peak Hour Volume	1	187	19	1	22	0	0	0	0	0	0	0	0	223

Site 1
Derryberry Ln N,
east of Neeleys Bend E

Date
Wednesday, January 31, 2024

Weather
Mostly Cloudy
47°F

Click here for Detailed Weather

0000 - 2400 (Weekday 24h Session)
NB EB 15min

	Eastbound (Movement 1,1)														
Time	Class 1	Class 2	Class 3	Class 4	Class 5	Class 6	Class 7	Class 8	Class 9	Class 10	Class 11	Class 12	Class 13	15min Total	60min Total
0000 - 0015	0	2	1	0	0	0	0	0	0	0	0	0	0	**3**	
0015 - 0030	0	4	0	0	0	0	0	0	0	0	0	0	0	**4**	
0030 - 0045	0	4	1	0	1	0	0	0	0	0	0	0	0	**6**	
0045 - 0100	0	5	0	0	0	0	0	0	0	0	0	0	0	**5**	**18**
0100 - 0115	0	2	0	0	0	0	0	0	0	0	0	0	0	**2**	
0115 - 0130	0	11	0	0	1	0	0	0	0	0	0	0	0	**12**	
0130 - 0145	0	9	1	0	1	0	0	0	0	0	0	0	0	**11**	
0145 - 0200	0	2	0	0	1	0	0	0	0	0	0	0	0	**3**	**28**
0200 - 0215	0	3	0	0	1	0	0	0	0	0	0	0	0	**4**	
0215 - 0230	0	1	0	0	0	0	0	0	0	0	0	0	0	**1**	
0230 - 0245	0	0	0	0	1	0	0	0	0	0	0	0	0	**1**	
0245 - 0300	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**6**
0300 - 0315	0	4	0	0	1	0	0	0	0	0	0	0	0	**5**	
0315 - 0330	0	2	0	0	1	0	0	0	0	0	0	0	0	**3**	
0330 - 0345	0	1	0	0	0	0	0	0	0	0	0	0	0	**1**	
0345 - 0400	0	1	0	0	0	0	0	0	0	0	0	0	0	**1**	**10**
0400 - 0415	0	1	0	0	0	0	0	0	0	0	0	0	0	**1**	
0415 - 0430	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
0430 - 0445	0	1	0	0	1	0	0	0	0	0	0	0	0	**2**	
0445 - 0500	0	2	0	0	1	0	0	0	0	0	0	0	0	**3**	**6**
0500 - 0515	0	2	0	0	0	0	0	0	0	0	0	0	0	**2**	
0515 - 0530	0	3	0	0	1	0	0	0	0	0	0	0	0	**4**	
0530 - 0545	0	0	1	0	2	0	0	0	0	0	0	0	0	**3**	
0545 - 0600	0	2	0	0	0	0	0	0	0	0	0	0	0	**2**	**11**
0600 - 0615	0	0	1	0	1	0	0	0	0	0	0	0	0	**2**	
0615 - 0630	0	5	0	0	2	0	0	0	0	0	0	0	0	**7**	
0630 - 0645	0	5	0	0	2	0	0	0	0	0	0	0	0	**7**	
0645 - 0700	0	5	2	0	1	0	0	0	0	0	0	0	0	**8**	**24**
0700 - 0715	0	12	0	0	0	0	0	0	0	0	0	0	0	**12**	
0715 - 0730	0	12	4	0	2	0	0	0	0	0	0	0	0	**18**	
0730 - 0745	0	17	1	0	1	0	0	0	0	0	0	0	0	**19**	
0745 - 0800	0	10	2	0	4	0	0	0	0	0	0	0	0	**16**	**65**
0800 - 0815	0	13	3	0	3	0	0	0	0	0	0	0	0	**19**	
0815 - 0830	0	14	1	0	1	0	0	0	0	0	0	0	0	**16**	
0830 - 0845	0	11	4	0	0	0	0	0	0	0	0	0	0	**15**	
0845 - 0900	0	13	2	0	2	0	0	0	0	0	0	0	0	**17**	**67**
0900 - 0915	0	6	0	0	0	0	0	0	0	0	0	0	0	**6**	
0915 - 0930	0	12	0	0	2	0	0	0	0	0	0	0	0	**14**	
0930 - 0945	0	12	3	0	3	0	0	0	0	0	0	0	0	**18**	
0945 - 1000	0	6	0	0	2	0	0	0	0	0	0	0	0	**8**	**46**
1000 - 1015	0	9	0	0	3	0	0	0	0	0	0	0	0	**12**	
1015 - 1030	0	7	0	0	1	0	0	0	0	0	0	0	0	**8**	
1030 - 1045	0	7	0	0	2	0	0	0	0	0	0	0	0	**9**	
1045 - 1100	0	11	1	0	2	0	1	0	0	0	0	0	0	**15**	**44**
1100 - 1115	0	13	0	0	2	0	0	0	0	0	0	0	0	**15**	
1115 - 1130	0	14	0	1	2	0	0	0	0	0	0	0	0	**17**	
1130 - 1145	0	19	2	0	3	0	0	0	0	0	0	0	0	**24**	
1145 - 1200	1	14	2	0	3	0	0	0	0	0	0	0	0	**20**	**76**
1200 - 1215	0	15	2	0	3	0	0	0	0	0	0	0	0	**20**	
1215 - 1230	0	15	2	0	2	0	0	0	0	0	0	0	0	**19**	
1230 - 1245	0	18	2	0	1	0	0	0	0	0	0	0	0	**21**	
1245 - 1300	0	23	0	0	3	0	0	0	0	0	0	0	0	**26**	**86**
1300 - 1315	0	12	3	0	2	0	0	0	0	0	0	0	0	**17**	
1315 - 1330	0	17	0	0	3	0	0	0	0	0	0	0	0	**20**	
1330 - 1345	0	19	3	0	3	0	0	0	0	0	0	0	0	**25**	
1345 - 1400	0	23	0	0	2	0	0	0	0	0	0	0	0	**25**	**87**
1400 - 1415	0	17	2	0	3	0	0	0	0	0	0	0	0	**22**	
1415 - 1430	0	18	7	0	7	0	0	0	0	0	0	0	0	**32**	
1430 - 1445	0	23	1	0	3	0	0	0	0	0	0	0	0	**27**	
1445 - 1500	0	20	2	0	1	0	0	0	0	0	0	0	0	**23**	**104**
1500 - 1515	0	31	5	1	6	0	0	0	0	0	0	0	0	**43**	
1515 - 1530	0	32	5	0	5	0	0	0	0	0	0	0	0	**42**	
1530 - 1545	0	26	1	0	2	0	0	0	0	0	0	0	0	**29**	
1545 - 1600	0	35	4	0	1	0	0	0	0	0	0	0	0	**40**	**154**
1600 - 1615	0	32	5	0	6	0	0	0	0	0	0	0	0	**43**	
1615 - 1630	0	32	1	0	7	0	0	0	0	0	0	0	0	**40**	
1630 - 1645	0	30	4	0	5	0	0	0	0	0	0	0	0	**39**	
1645 - 1700	0	47	1	0	6	0	0	0	0	0	0	0	0	**54**	**176**
1700 - 1715	0	44	3	0	9	0	0	0	0	0	0	0	0	**56**	
1715 - 1730	0	51	7	0	5	0	0	0	0	0	0	0	0	**63**	
1730 - 1745	0	53	11	0	6	0	0	0	0	0	0	0	0	**70**	
1745 - 1800	0	50	2	0	3	0	0	0	0	0	0	0	0	**55**	**244**
1800 - 1815	0	42	3	0	8	0	0	0	0	0	0	0	0	**53**	
1815 - 1830	0	48	3	1	4	0	0	0	0	0	0	0	0	**56**	
1830 - 1845	0	46	2	0	5	1	0	0	0	0	0	0	0	**54**	
1845 - 1900	0	28	3	0	4	0	0	0	0	0	0	0	0	**35**	**198**
1900 - 1915	0	31	2	0	3	0	0	0	0	0	0	0	0	**36**	
1915 - 1930	0	28	5	0	3	0	0	0	0	0	0	0	0	**36**	
1930 - 1945	0	33	3	0	0	0	0	0	0	0	0	0	0	**36**	
1945 - 2000	0	30	2	0	4	0	0	0	0	0	0	0	0	**36**	**144**
2000 - 2015	0	31	3	0	3	0	0	0	0	0	0	0	0	**37**	
2015 - 2030	0	28	1	0	0	0	0	0	0	0	0	0	0	**29**	
2030 - 2045	0	19	1	0	2	0	0	0	0	0	0	0	0	**22**	
2045 - 2100	0	29	2	0	1	0	0	0	0	0	0	0	0	**32**	**120**
2100 - 2115	0	25	1	0	2	0	0	0	0	0	0	0	0	**28**	
2115 - 2130	0	22	1	0	2	0	0	0	0	0	0	0	0	**25**	
2130 - 2145	0	20	2	0	0	0	0	0	0	0	0	0	0	**22**	
2145 - 2200	0	12	0	0	1	0	0	0	0	0	0	0	0	**13**	**88**
2200 - 2215	0	10	1	0	1	0	0	0	0	0	0	0	0	**12**	
2215 - 2230	0	16	2	0	2	0	0	0	0	0	0	0	0	**20**	
2230 - 2245	0	10	0	0	3	0	0	0	0	0	0	0	0	**13**	
2245 - 2300	0	9	0	0	1	0	0	0	0	0	0	0	0	**10**	**55**
2300 - 2315	0	7	0	0	0	0	0	0	0	0	0	0	0	**7**	
2315 - 2330	0	7	0	0	0	0	0	0	0	0	0	0	0	**7**	
2330 - 2345	0	3	1	0	0	0	0	0	0	0	0	0	0	**4**	
2345 - 0000	0	7	1	0	0	0	0	0	0	0	0	0	0	**8**	**26**

Session Total	1	1533	144	3	200	1	1	0	0	0	0	0	0	**1883**
Session Average	0.01	15.97	1.50	0.03	2.08	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	**19.61**
Session Percentage	0.05	81.41	7.65	0.16	10.62	0.05	0.05	0.00	0.00	0.00	0.00	0.00	0.00	

AM Peak Hour	-	0730 - 0830	0715 - 0815	-	0715 - 0815	-	-	-	-	-	-	-	-	**0715 - 0815**
AM Peak Hour Volume	0	54	10	0	10	0	0	0	0	0	0	0	0	**72**

Noon Peak Hour	1100 - 1200	1445 - 1545	1415 - 1515	1030 - 1130	1415 - 1515	-	1000 - 1100	-	-	-	-	-	-	**1445 - 1545**
Noon Peak Hour Volume	1	109	15	1	17	0	1	0	0	0	0	0	0	**137**

PM Peak Hour	-	1700 - 1800	1700 - 1800	1500 - 1600	1615 - 1715	1745 - 1845	-	-	-	-	-	-	-	**1700 - 1800**
PM Peak Hour Volume	0	198	23	1	27	1	0	0	0	0	0	0	0	**244**

Bi-Directional Speed & Class Count || SB WB 15min

Spring Hill, TN (Stone Creek)

Marr Traffic DATA COLLECTION
www.marrtraffic.com

Site 1
Derryberry Ln N,
east of Neeleys Bend E

Date
Tuesday, January 30, 2024

Lat/Long
35.722758°, -86.885532°

Weather
Mostly Cloudy
42°F

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Click here for Map

0000 - 2400 (Weekday 24h Session)
SB WB 15min

	Westbound (Movement 1.2)													15min	60min
Time	Class 1	Class 2	Class 3	Class 4	Class 5	Class 6	Class 7	Class 8	Class 9	Class 10	Class 11	Class 12	Class 13	Total	Total
0000 - 0015	0	1	0	0	0	0	0	0	0	0	0	0	0	1	
0015 - 0030	0	2	0	0	0	0	0	0	0	0	0	0	0	2	
0030 - 0045	0	1	0	0	0	0	0	0	0	0	0	0	0	1	
0045 - 0100	0	1	0	0	0	0	0	0	0	0	0	0	0	1	5
0100 - 0115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0115 - 0130	0	0	1	0	0	0	0	0	0	0	0	0	0	1	
0130 - 0145	0	2	1	0	0	0	0	0	0	0	0	0	0	3	
0145 - 0200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
0200 - 0215	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0215 - 0230	0	2	0	0	0	0	0	0	0	0	0	0	0	2	
0230 - 0245	0	3	0	0	0	0	0	0	0	0	0	0	0	3	
0245 - 0300	0	2	0	0	0	0	0	0	0	0	0	0	0	2	7
0300 - 0315	0	1	0	0	0	0	0	0	0	0	0	0	0	1	
0315 - 0330	0	5	1	0	0	0	0	0	0	0	0	0	0	6	
0330 - 0345	0	2	1	0	0	0	0	0	0	0	0	0	0	3	
0345 - 0400	0	2	2	0	0	0	0	0	0	0	0	0	0	4	14
0400 - 0415	0	3	1	0	1	0	0	0	0	0	0	0	0	5	
0415 - 0430	0	4	0	0	0	0	0	0	0	0	0	0	0	4	
0430 - 0445	0	5	0	0	1	0	0	0	0	0	0	0	0	6	
0445 - 0500	0	10	0	0	2	0	0	0	0	0	0	0	0	12	27
0500 - 0515	0	17	2	0	4	0	0	0	0	0	0	0	0	23	
0515 - 0530	0	15	2	0	8	0	0	0	0	0	0	0	0	25	
0530 - 0545	0	28	4	0	4	0	0	0	0	0	0	0	0	36	
0545 - 0600	0	24	3	0	3	0	0	0	0	0	0	0	0	30	114
0600 - 0615	0	36	3	0	10	0	0	0	0	0	0	0	0	49	
0615 - 0630	0	40	1	0	11	0	0	0	0	0	0	0	0	52	
0630 - 0645	0	31	6	0	9	0	0	0	0	0	0	0	0	46	
0645 - 0700	0	54	3	0	7	0	0	0	0	0	0	0	0	64	211
0700 - 0715	0	46	6	0	5	0	0	0	0	0	0	0	0	57	
0715 - 0730	0	47	4	0	4	0	0	0	0	0	0	0	0	55	
0730 - 0745	0	39	7	0	4	2	0	0	0	0	0	0	0	52	
0745 - 0800	0	50	4	0	5	0	0	0	0	0	0	0	0	59	223
0800 - 0815	0	38	3	0	3	0	0	0	0	0	0	0	0	44	
0815 - 0830	0	29	2	0	0	0	0	0	0	0	0	0	0	31	
0830 - 0845	0	24	0	0	1	0	0	0	0	0	0	0	0	25	
0845 - 0900	0	18	0	0	2	0	0	0	0	0	0	0	0	20	120
0900 - 0915	0	21	0	0	1	1	0	0	0	0	0	0	0	23	
0915 - 0930	0	27	4	0	2	0	0	0	0	0	0	0	0	33	
0930 - 0945	0	28	0	0	2	0	0	0	0	0	0	0	0	30	
0945 - 1000	0	19	1	0	2	0	0	0	0	0	0	0	0	22	108
1000 - 1015	0	16	0	0	2	0	0	0	0	0	0	0	0	18	
1015 - 1030	0	24	0	0	2	0	0	0	0	0	0	0	0	26	
1030 - 1045	0	12	0	0	5	0	0	0	0	0	0	0	0	17	
1045 - 1100	0	14	0	0	0	0	0	0	0	0	0	0	0	14	75
1100 - 1115	0	12	0	0	2	0	0	0	0	0	0	0	0	14	
1115 - 1130	0	13	5	0	0	0	0	0	0	0	0	0	0	18	
1130 - 1145	0	19	0	0	2	0	0	0	0	0	0	0	0	21	
1145 - 1200	0	27	1	0	3	0	0	0	0	0	0	0	0	31	84
1200 - 1215	0	19	2	0	1	0	0	0	0	0	0	0	0	22	
1215 - 1230	0	12	0	0	5	0	0	0	0	0	0	0	0	17	
1230 - 1245	0	18	3	0	3	0	0	0	0	0	0	0	0	24	
1245 - 1300	0	18	1	0	1	0	0	0	0	0	0	0	0	20	83
1300 - 1315	0	25	2	0	0	0	0	0	0	0	0	0	0	27	
1315 - 1330	0	23	4	1	1	0	0	0	0	0	0	0	0	29	
1330 - 1345	0	21	0	0	2	0	0	0	0	0	0	0	0	23	
1345 - 1400	0	14	0	0	2	0	0	0	0	0	0	0	0	16	95
1400 - 1415	0	19	5	0	2	0	0	0	0	0	0	0	0	26	
1415 - 1430	0	26	3	0	2	0	0	0	0	0	0	0	0	31	
1430 - 1445	0	18	2	0	1	0	0	0	0	0	0	0	0	21	
1445 - 1500	0	26	1	0	3	0	0	0	0	0	0	0	0	30	108
1500 - 1515	0	27	1	0	5	0	0	0	0	0	0	0	0	33	
1515 - 1530	1	29	0	0	0	0	0	0	0	0	0	0	0	30	
1530 - 1545	0	14	4	0	1	0	0	0	0	0	0	0	0	19	
1545 - 1600	0	19	2	0	3	0	0	0	0	0	0	0	0	24	106
1600 - 1615	0	18	4	0	3	0	0	0	0	0	0	0	0	25	
1615 - 1630	0	25	2	0	2	0	0	0	0	0	0	0	0	29	
1630 - 1645	0	18	3	0	3	0	0	0	0	0	0	0	0	24	
1645 - 1700	0	26	3	0	4	0	0	0	0	0	0	0	0	33	111
1700 - 1715	0	13	4	1	2	0	0	0	0	0	0	0	0	20	
1715 - 1730	0	21	2	0	2	0	0	0	0	0	0	0	0	25	
1730 - 1745	0	22	2	0	1	0	0	0	0	0	0	0	0	25	
1745 - 1800	0	25	2	0	1	0	0	0	0	0	0	0	0	28	98
1800 - 1815	0	28	0	0	3	0	0	0	0	0	0	0	0	31	
1815 - 1830	0	15	2	0	0	0	0	0	0	0	0	0	0	17	
1830 - 1845	0	17	1	0	0	0	0	0	0	0	0	0	0	18	
1845 - 1900	0	14	2	0	2	0	0	0	0	0	0	0	0	18	84
1900 - 1915	0	9	0	0	0	0	0	0	0	0	0	0	0	9	
1915 - 1930	0	13	0	0	1	0	0	0	0	0	0	0	0	14	
1930 - 1945	0	10	2	0	1	0	0	0	0	0	0	0	0	13	
1945 - 2000	0	16	1	0	0	0	0	0	0	0	0	0	0	17	53
2000 - 2015	0	10	0	0	0	0	0	0	0	0	0	0	0	10	
2015 - 2030	0	8	0	0	2	0	0	0	0	0	0	0	0	10	
2030 - 2045	0	8	0	0	0	0	0	0	0	0	0	0	0	8	
2045 - 2100	0	8	2	0	0	0	0	0	0	0	0	0	0	10	38
2100 - 2115	0	8	0	0	1	0	0	0	0	0	0	0	0	9	
2115 - 2130	0	3	0	0	0	0	0	0	0	0	0	0	0	3	
2130 - 2145	0	10	0	0	1	0	0	0	0	0	0	0	0	11	
2145 - 2200	0	6	0	0	0	0	0	0	0	0	0	0	0	6	29
2200 - 2215	0	5	0	0	0	0	0	0	0	0	0	0	0	5	
2215 - 2230	0	2	0	0	1	0	0	0	0	0	0	0	0	3	
2230 - 2245	0	1	1	0	1	0	0	0	0	0	0	0	0	3	
2245 - 2300	0	1	0	0	0	0	0	0	0	0	0	0	0	1	12
2300 - 2315	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2315 - 2330	0	4	0	0	0	0	0	0	0	0	0	0	0	4	
2330 - 2345	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2345 - 0000	0	4	0	0	0	0	0	0	0	0	0	0	0	4	8

Session Total	1	1510	131	2	170	3	0	0	0	0	0	0	0	1817
Session Average	0.01	15.73	1.36	0.02	1.77	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.93
Session Percentage	0.06	83.10	7.21	0.11	9.36	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

AM Peak Hour	-	0645 - 0745	0700 - 0800	-	0600 - 0700	0645 - 0745	-	-	-	-	-	-	-	0645 - 0745
AM Peak Hour Volume	0	186	21	0	37	2	0	0	0	0	0	0	0	228

Noon Peak Hour	1430 - 1530	1430 - 1530	1400 - 1500	1230 - 1330	1145 - 1245	-	-	-	-	-	-	-	-	1415 - 1515
Noon Peak Hour Volume	1	100	11	1	12	0	0	0	0	0	0	0	0	115

PM Peak Hour	1500 - 1600	1715 - 1815	1530 - 1630	1615 - 1715	1600 - 1700	-	-	-	-	-	-	-	-	1600 - 1700
PM Peak Hour Volume	1	96	12	1	12	0	0	0	0	0	0	0	0	111

Site 1
Derryberry Ln N,
east of Neeleys Bend E

Date
Wednesday, January 31, 2024

Weather
Mostly Cloudy
47°F

Click here for Detailed Weather

0000 - 2400 (Weekday 24h Session)
SB WB 15min

	Westbound (Movement 1,2)													15min	60min
Time	Class 1	Class 2	Class 3	Class 4	Class 5	Class 6	Class 7	Class 8	Class 9	Class 10	Class 11	Class 12	Class 13	Total	Total
0000 - 0015	0	1	0	0	0	0	0	0	0	0	0	0	0	**1**	
0015 - 0030	0	3	0	0	0	0	0	0	0	0	0	0	0	**3**	
0030 - 0045	0	2	0	0	0	0	0	0	0	0	0	0	0	**2**	
0045 - 0100	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**6**
0100 - 0115	0	2	0	0	0	0	0	0	0	0	0	0	0	**2**	
0115 - 0130	0	1	1	0	1	0	0	0	0	0	0	0	0	**3**	
0130 - 0145	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
0145 - 0200	0	0	1	0	0	0	0	0	0	0	0	0	0	**1**	**6**
0200 - 0215	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
0215 - 0230	0	1	0	0	0	0	0	0	0	0	0	0	0	**1**	
0230 - 0245	0	2	0	0	0	0	0	0	0	0	0	0	0	**2**	
0245 - 0300	0	4	0	0	1	0	0	0	0	0	0	0	0	**5**	**8**
0300 - 0315	0	1	1	0	0	0	0	0	0	0	0	0	0	**2**	
0315 - 0330	0	3	0	0	0	0	0	0	0	0	0	0	0	**3**	
0330 - 0345	0	5	0	0	0	0	0	0	0	0	0	0	0	**5**	
0345 - 0400	0	3	0	0	0	0	0	0	0	0	0	0	0	**3**	**13**
0400 - 0415	0	5	1	0	0	0	0	0	0	0	0	0	0	**6**	
0415 - 0430	0	7	0	0	0	0	0	0	0	0	0	0	0	**7**	
0430 - 0445	0	4	0	0	1	0	0	0	0	0	0	0	0	**5**	
0445 - 0500	0	9	0	0	0	0	0	0	0	0	0	0	0	**9**	**27**
0500 - 0515	0	16	1	0	3	0	0	0	0	0	0	0	0	**20**	
0515 - 0530	0	19	3	0	8	0	0	0	0	0	0	0	0	**30**	
0530 - 0545	0	27	3	0	6	0	0	0	0	0	0	0	0	**36**	
0545 - 0600	0	19	3	0	3	0	0	0	0	0	0	0	0	**25**	**111**
0600 - 0615	0	28	1	0	9	0	0	0	0	0	0	0	0	**38**	
0615 - 0630	0	41	4	0	11	0	0	0	0	0	0	0	0	**56**	
0630 - 0645	0	47	6	0	10	0	0	0	0	0	0	0	0	**63**	
0645 - 0700	0	46	6	0	6	0	0	0	0	0	0	0	0	**58**	**215**
0700 - 0715	0	47	3	0	4	0	0	0	0	0	0	0	0	**54**	
0715 - 0730	0	41	10	0	5	0	0	0	0	0	0	0	0	**56**	
0730 - 0745	0	49	3	0	3	0	0	0	0	0	0	0	0	**55**	
0745 - 0800	0	44	4	0	5	0	0	0	0	0	0	0	0	**53**	**218**
0800 - 0815	0	27	1	0	0	1	0	0	0	0	0	0	0	**29**	
0815 - 0830	0	35	1	0	2	0	0	0	0	0	0	0	0	**38**	
0830 - 0845	0	26	1	0	3	0	0	0	0	0	0	0	0	**30**	
0845 - 0900	0	21	1	0	2	0	0	0	0	0	0	0	0	**24**	**121**
0900 - 0915	0	15	1	0	1	0	0	0	0	0	0	0	0	**17**	
0915 - 0930	0	24	2	0	2	0	0	0	0	0	0	0	0	**28**	
0930 - 0945	0	22	1	0	3	0	0	0	0	0	0	0	0	**26**	
0945 - 1000	0	15	1	0	1	0	0	0	0	0	0	0	0	**17**	**88**
1000 - 1015	0	16	1	0	2	0	0	0	0	0	0	0	0	**19**	
1015 - 1030	0	7	2	0	3	0	0	0	0	0	0	0	0	**12**	
1030 - 1045	0	18	3	0	4	0	0	0	0	0	0	0	0	**25**	
1045 - 1100	0	17	1	0	0	0	0	0	0	0	0	0	0	**18**	**74**
1100 - 1115	0	13	0	0	1	0	0	0	0	0	0	0	0	**14**	
1115 - 1130	0	19	2	0	4	1	0	0	0	0	0	0	0	**26**	
1130 - 1145	0	21	0	0	1	0	0	0	0	0	0	0	0	**22**	
1145 - 1200	0	12	2	0	2	0	0	0	0	0	0	0	0	**16**	**78**
1200 - 1215	0	27	1	0	3	0	0	0	0	0	0	0	0	**31**	
1215 - 1230	0	14	0	0	1	0	0	0	0	0	0	0	0	**15**	
1230 - 1245	0	14	1	0	2	0	0	0	0	0	0	0	0	**17**	
1245 - 1300	0	16	1	0	3	0	0	0	0	0	0	0	0	**20**	**83**
1300 - 1315	0	19	3	0	2	1	0	0	0	0	0	0	0	**25**	
1315 - 1330	0	17	1	0	3	0	0	0	0	0	0	0	0	**21**	
1330 - 1345	0	25	0	1	0	0	0	0	0	0	0	0	0	**26**	
1345 - 1400	0	12	2	0	2	0	0	0	0	0	0	0	0	**16**	**88**
1400 - 1415	0	24	1	0	4	0	0	0	0	0	0	0	0	**29**	
1415 - 1430	0	20	5	0	7	0	0	0	0	0	0	0	0	**32**	
1430 - 1445	0	22	3	0	2	0	0	0	0	0	0	0	0	**27**	
1445 - 1500	0	22	2	0	2	0	0	0	0	0	0	0	0	**26**	**114**
1500 - 1515	0	20	2	0	4	0	0	0	0	0	0	0	0	**26**	
1515 - 1530	0	33	1	0	2	0	0	0	0	0	0	0	0	**36**	
1530 - 1545	0	23	1	0	4	0	0	0	0	0	0	0	0	**28**	
1545 - 1600	0	14	0	0	2	0	0	0	0	0	0	0	0	**16**	**106**
1600 - 1615	0	25	2	0	4	0	0	0	0	0	0	0	0	**31**	
1615 - 1630	0	14	1	0	2	0	0	0	0	0	0	0	0	**17**	
1630 - 1645	0	18	3	0	1	0	0	0	0	0	0	0	0	**22**	
1645 - 1700	0	24	5	0	3	0	0	0	0	0	0	0	0	**32**	**102**
1700 - 1715	0	28	1	0	5	0	0	0	0	0	0	0	0	**34**	
1715 - 1730	0	27	1	0	0	0	0	0	0	0	0	0	0	**28**	
1730 - 1745	1	24	6	0	6	0	0	0	0	0	0	0	0	**37**	
1745 - 1800	0	23	2	0	2	0	0	0	0	0	0	0	0	**27**	**126**
1800 - 1815	0	23	2	0	1	1	0	0	0	0	0	0	0	**27**	
1815 - 1830	1	21	2	0	1	0	0	0	0	0	0	0	0	**25**	
1830 - 1845	0	25	2	0	1	0	0	0	0	0	0	0	0	**28**	
1845 - 1900	0	18	1	0	4	0	0	0	0	0	0	0	0	**23**	**103**
1900 - 1915	0	11	0	0	0	0	0	0	0	0	0	0	0	**11**	
1915 - 1930	0	12	2	0	1	0	0	0	0	0	0	0	0	**15**	
1930 - 1945	0	10	1	0	1	0	0	0	0	0	0	0	0	**12**	
1945 - 2000	0	8	1	0	0	0	0	0	0	0	0	0	0	**9**	**47**
2000 - 2015	0	18	0	0	0	0	0	0	0	0	0	0	0	**18**	
2015 - 2030	0	12	2	0	3	0	0	0	0	0	0	0	0	**17**	
2030 - 2045	0	10	0	0	0	0	0	0	0	0	0	0	0	**10**	
2045 - 2100	0	14	0	0	2	0	0	0	0	0	0	0	0	**16**	**61**
2100 - 2115	0	7	0	0	0	0	0	0	0	0	0	0	0	**7**	
2115 - 2130	0	9	1	0	0	0	0	0	0	0	0	0	0	**10**	
2130 - 2145	0	6	0	0	0	0	0	0	0	0	0	0	0	**6**	
2145 - 2200	0	5	0	0	1	0	0	0	0	0	0	0	0	**6**	**29**
2200 - 2215	0	4	0	0	1	0	0	0	0	0	0	0	0	**5**	
2215 - 2230	0	5	0	0	0	0	0	0	0	0	0	0	0	**5**	
2230 - 2245	0	6	0	0	0	0	0	0	0	0	0	0	0	**6**	
2245 - 2300	0	2	0	0	0	0	0	0	0	0	0	0	0	**2**	**18**
2300 - 2315	0	3	0	0	0	0	0	0	0	0	0	0	0	**3**	
2315 - 2330	0	4	0	0	0	0	0	0	0	0	0	0	0	**4**	
2330 - 2345	0	1	0	0	0	0	0	0	0	0	0	0	0	**1**	
2345 - 0000	0	3	0	0	0	0	0	0	0	0	0	0	0	**3**	**11**

Session Total	2	1527	130	1	189	4	0	0	0	0	0	0	0	**1853**
Session Average	0.02	15.91	1.35	0.01	1.97	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**19.30**
Session Percentage	0.11	82.41	7.02	0.05	10.20	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

AM Peak Hour	-	0645 - 0745	0630 - 0730	-	0600 - 0700	0715 - 0815	-	-	-	-	-	-	-	**0615 - 0715**
AM Peak Hour Volume	0	183	25	0	36	1	0	0	0	0	0	0	0	**231**

Noon Peak Hour	-	1445 - 1545	1415 - 1515	1245 - 1345	1345 - 1445	1030 - 1130	-	-	-	-	-	-	-	**1445 - 1545**
Noon Peak Hour Volume	0	98	12	1	15	1	0	0	0	0	0	0	0	**116**

PM Peak Hour	1730 - 1830	1645 - 1745	1645 - 1745	-	1645 - 1745	1715 - 1815	-	-	-	-	-	-	-	**1645 - 1745**
PM Peak Hour Volume	2	103	13	0	14	1	0	0	0	0	0	0	0	**131**

Bi-Directional Speed & Class Count || NB EB Speed 15min

Spring Hill, TN (Stone Creek)

Marr Traffic DATA COLLECTION
www.marrtraffic.com

Site 1
Derryberry Ln N,
east of Neeleys Bend E

Date
Tuesday, January 30, 2024

Lat/Long
35.722758°, -86.885532°

Weather
Mostly Cloudy
42°F

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Click here for Map

0000 - 2400 (Weekday 24h Session)
NB EB Speed 15min

	Eastbound (Movement 1.1)															15min
Time	5-14 mph	15-19 mph	20-24 mph	25-29 mph	30-34 mph	35-39 mph	40-44 mph	45-49 mph	50-54 mph	55-59 mph	60-64 mph	65-69 mph	70-74 mph	75-79 mph	80-99 mph	Total
0000 - 0015	0	0	0	0	1	0	2	0	0	0	0	0	0	0	0	3
0015 - 0030	0	0	0	0	5	6	4	1	0	0	0	0	0	0	0	16
0030 - 0045	0	0	0	1	1	1	2	0	0	0	0	0	0	0	0	5
0045 - 0100	0	0	0	1	1	2	0	0	1	0	0	0	0	0	0	5
0100 - 0115	0	0	1	0	1	0	1	0	0	0	0	0	0	0	0	3
0115 - 0130	0	0	0	0	2	0	2	2	0	0	0	0	0	0	0	6
0130 - 0145	0	0	0	2	0	2	1	2	0	0	0	0	0	0	0	7
0145 - 0200	0	0	0	0	2	1	1	0	0	0	0	0	0	0	0	4
0200 - 0215	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	3
0215 - 0230	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
0230 - 0245	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	3
0245 - 0300	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	2
0300 - 0315	0	0	0	0	1	1	3	0	0	0	0	0	0	0	0	5
0315 - 0330	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2
0330 - 0345	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	2
0345 - 0400	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
0400 - 0415	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0415 - 0430	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
0430 - 0445	0	0	0	0	2	0	0	0	1	0	0	0	0	0	0	3
0445 - 0500	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	3
0500 - 0515	0	0	0	0	1	2	1	0	0	0	0	0	0	0	0	4
0515 - 0530	0	0	0	0	1	2	2	0	0	0	0	0	0	0	0	5
0530 - 0545	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0545 - 0600	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	2
0600 - 0615	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	3
0615 - 0630	0	0	0	0	5	1	2	0	0	0	0	0	0	0	0	8
0630 - 0645	0	0	0	0	0	5	4	0	0	0	0	0	0	0	0	9
0645 - 0700	0	0	0	1	3	6	1	0	0	0	0	0	0	0	0	11
0700 - 0715	0	0	0	2	2	4	3	0	0	0	0	0	0	0	0	11
0715 - 0730	0	0	0	0	4	5	0	1	0	0	0	0	0	0	0	10
0730 - 0745	0	0	0	4	5	5	1	0	0	0	0	0	0	0	0	15
0745 - 0800	0	0	1	14	5	4	2	0	0	0	0	0	0	0	0	26
0800 - 0815	0	0	1	6	12	3	4	0	0	0	0	0	0	0	0	26
0815 - 0830	0	0	0	1	1	4	2	1	0	0	0	0	0	0	0	9
0830 - 0845	0	0	0	0	1	5	1	1	0	0	0	0	0	0	0	8
0845 - 0900	0	0	0	1	2	8	2	0	0	0	0	0	0	0	0	13
0900 - 0915	0	0	0	0	1	3	2	1	0	0	0	0	0	0	0	7
0915 - 0930	0	0	0	0	2	5	2	0	0	0	0	0	0	0	0	9
0930 - 0945	0	0	0	0	4	7	2	0	1	0	0	0	0	0	0	14
0945 - 1000	0	0	0	1	1	7	4	0	0	0	0	0	0	0	0	13
1000 - 1015	0	0	0	0	6	7	5	0	0	0	0	0	0	0	0	18
1015 - 1030	0	0	0	0	2	6	5	2	0	0	0	0	0	0	0	15
1030 - 1045	0	0	0	1	1	9	9	1	0	0	0	0	0	0	0	21
1045 - 1100	0	0	0	0	1	6	6	0	0	0	0	0	0	0	0	13
1100 - 1115	0	0	0	0	4	5	4	1	0	0	0	0	0	0	0	14
1115 - 1130	0	0	0	0	5	7	2	0	0	0	0	0	0	0	0	14
1130 - 1145	0	0	0	0	5	9	5	1	0	0	0	0	0	0	0	20
1145 - 1200	0	0	0	0	4	11	4	2	0	0	0	0	0	0	0	21
1200 - 1215	0	0	0	0	5	10	4	0	0	0	0	0	0	0	0	19
1215 - 1230	0	0	0	2	1	7	6	1	0	0	0	0	0	0	0	17
1230 - 1245	0	0	0	0	4	12	4	2	0	0	0	0	0	0	0	22
1245 - 1300	0	0	0	0	1	7	4	1	0	0	0	0	0	0	0	13
1300 - 1315	0	0	0	1	4	7	6	0	0	0	0	0	0	0	0	18
1315 - 1330	0	0	0	0	7	10	5	0	1	1	0	0	0	0	0	24
1330 - 1345	0	0	0	1	3	12	4	1	0	0	0	0	0	0	0	21
1345 - 1400	0	0	0	1	6	11	1	1	0	0	0	0	0	0	0	20
1400 - 1415	0	0	1	1	2	14	3	1	0	0	0	0	0	0	0	22
1415 - 1430	0	0	0	2	8	11	1	1	0	0	0	0	0	0	0	23
1430 - 1445	0	0	0	8	14	14	1	0	0	0	0	0	0	0	0	37
1445 - 1500	0	0	1	8	13	8	1	0	0	0	0	0	0	0	0	31
1500 - 1515	0	0	2	14	21	5	3	2	0	0	0	0	0	0	0	47
1515 - 1530	0	0	0	8	19	12	2	1	0	0	0	0	0	0	0	42
1530 - 1545	0	0	1	1	18	14	3	0	0	0	0	1	0	0	0	38
1545 - 1600	0	0	0	1	3	16	14	1	1	0	0	0	0	0	0	36
1600 - 1615	0	0	0	2	11	14	8	1	0	0	0	0	0	0	0	36
1615 - 1630	0	0	0	1	3	23	16	3	0	0	0	0	0	0	0	46
1630 - 1645	0	0	0	0	12	17	15	3	1	0	0	0	0	0	0	48
1645 - 1700	0	0	0	1	9	33	15	1	0	0	0	0	0	0	0	59
1700 - 1715	0	0	0	0	4	23	17	1	0	2	0	0	0	0	0	47
1715 - 1730	0	0	0	1	12	33	18	1	0	0	0	0	0	0	0	65
1730 - 1745	0	0	0	2	8	29	11	2	0	0	0	0	0	0	0	52
1745 - 1800	0	0	0	2	15	27	6	0	0	0	1	0	1	0	0	52
1800 - 1815	0	0	0	1	7	26	11	1	0	0	0	0	0	0	0	46
1815 - 1830	0	0	0	1	16	22	12	2	0	0	0	0	0	0	0	53
1830 - 1845	0	0	0	0	8	33	8	2	0	0	0	0	0	0	0	51
1845 - 1900	0	0	0	0	11	13	9	3	0	0	0	0	0	0	0	36
1900 - 1915	0	0	0	0	10	8	10	1	0	0	0	0	0	0	0	29
1915 - 1930	0	0	0	0	11	16	7	3	0	0	0	0	0	0	0	37
1930 - 1945	0	0	0	0	2	23	13	1	0	0	0	0	0	0	0	39
1945 - 2000	0	0	0	1	4	9	15	1	0	0	0	0	0	0	0	30
2000 - 2015	0	0	0	1	4	11	9	1	0	0	0	0	0	0	0	26
2015 - 2030	0	0	0	1	6	9	5	1	0	0	0	0	0	0	0	22
2030 - 2045	0	0	0	0	1	16	9	1	0	0	0	0	0	0	0	27
2045 - 2100	0	0	0	0	5	15	5	2	0	0	0	0	0	0	0	27
2100 - 2115	0	0	0	1	5	10	5	3	0	0	0	0	0	0	0	24
2115 - 2130	0	0	0	0	1	11	6	0	0	0	0	0	0	0	0	18
2130 - 2145	0	0	0	1	4	5	3	1	0	0	0	0	0	0	0	14
2145 - 2200	0	0	0	0	1	6	4	3	0	0	0	0	0	0	0	14
2200 - 2215	0	0	0	0	3	10	0	0	0	0	0	0	0	0	0	13
2215 - 2230	0	0	0	1	4	6	7	0	0	0	0	0	0	0	0	18
2230 - 2245	0	0	0	1	6	6	2	0	0	0	0	0	0	0	0	15
2245 - 2300	0	0	0	2	1	4	7	0	0	0	0	0	0	0	0	14
2300 - 2315	0	0	0	0	1	3	2	0	0	0	0	0	0	0	0	6
2315 - 2330	0	0	0	0	2	2	1	0	0	0	0	0	0	0	0	5
2330 - 2345	0	0	0	0	1	3	1	0	0	0	0	0	0	0	0	5
2345 - 2400	0	0	0	0	4	1	1	0	0	0	0	0	0	0	0	6
Session Total	0	0	8	104	421	796	415	68	6	3	1	1	1	0	0	1824

10mph Pace Speed	Number in Pace
32-41	1357 (74.4%)

15th Percentile	50th Percentile	Average	85th Percentile	95th Percentile
32	37	37	41	44

Site 1
Derryberry Ln N,
east of Neeleys Bend E

Date
Wednesday, January 31, 2024

Weather
Mostly Cloudy
47°F

Click here for Detailed Weather

0000 - 2400 (Weekday 24h Session)
NB EB Speed 15min

	Eastbound (Movement 1.1)															15min
Time	5-14 mph	15-19 mph	20-24 mph	25-29 mph	30-34 mph	35-39 mph	40-44 mph	45-49 mph	50-54 mph	55-59 mph	60-64 mph	65-69 mph	70-74 mph	75-79 mph	80-99 mph	Total
0000 - 0015	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	**3**
0015 - 0030	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	**4**
0030 - 0045	0	0	0	0	1	5	0	0	0	0	0	0	0	0	0	**6**
0045 - 0100	0	0	0	0	2	1	2	0	0	0	0	0	0	0	0	**5**
0100 - 0115	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	**2**
0115 - 0130	0	0	0	0	2	3	3	4	0	0	0	0	0	0	0	**12**
0130 - 0145	0	0	0	1	1	3	3	0	3	0	0	0	0	0	0	**11**
0145 - 0200	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	**3**
0200 - 0215	0	0	0	0	0	3	1	0	0	0	0	0	0	0	0	**4**
0215 - 0230	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	**1**
0230 - 0245	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	**1**
0245 - 0300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
0300 - 0315	0	0	0	0	1	3	0	1	0	0	0	0	0	0	0	**5**
0315 - 0330	0	0	0	0	0	2	0	1	0	0	0	0	0	0	0	**3**
0330 - 0345	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	**1**
0345 - 0400	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	**1**
0400 - 0415	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	**1**
0415 - 0430	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
0430 - 0445	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	**2**
0445 - 0500	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	**3**
0500 - 0515	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	**2**
0515 - 0530	0	0	0	0	1	2	0	1	0	0	0	0	0	0	0	**4**
0530 - 0545	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	**3**
0545 - 0600	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	**2**
0600 - 0615	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	**2**
0615 - 0630	0	0	0	0	2	1	3	1	0	0	0	0	0	0	0	**7**
0630 - 0645	0	0	0	0	0	6	1	0	0	0	0	0	0	0	0	**7**
0645 - 0700	0	0	0	0	1	4	2	1	0	0	0	0	0	0	0	**8**
0700 - 0715	0	0	0	1	3	5	2	1	0	0	0	0	0	0	0	**12**
0715 - 0730	0	0	0	0	2	10	4	2	0	0	0	0	0	0	0	**18**
0730 - 0745	0	0	0	4	10	4	1	0	0	0	0	0	0	0	0	**19**
0745 - 0800	0	0	1	9	4	1	1	0	0	0	0	0	0	0	0	**16**
0800 - 0815	0	0	0	7	9	1	2	0	0	0	0	0	0	0	0	**19**
0815 - 0830	0	0	3	1	6	5	1	0	0	0	0	0	0	0	0	**16**
0830 - 0845	0	0	0	0	2	4	8	0	1	0	0	0	0	0	0	**15**
0845 - 0900	0	0	0	0	3	11	0	3	0	0	0	0	0	0	0	**17**
0900 - 0915	0	0	0	0	2	4	0	0	0	0	0	0	0	0	0	**6**
0915 - 0930	0	0	0	3	3	4	3	1	0	0	0	0	0	0	0	**14**
0930 - 0945	0	0	0	4	4	4	5	0	1	0	0	0	0	0	0	**18**
0945 - 1000	0	0	0	1	1	3	2	1	0	0	0	0	0	0	0	**8**
1000 - 1015	0	0	0	0	2	6	4	0	0	0	0	0	0	0	0	**12**
1015 - 1030	0	0	0	0	1	3	4	0	0	0	0	0	0	0	0	**8**
1030 - 1045	0	0	0	2	2	3	2	0	0	0	0	0	0	0	0	**9**
1045 - 1100	1	0	0	1	2	7	2	2	0	0	0	0	0	0	0	**15**
1100 - 1115	0	0	0	0	2	10	3	0	0	0	0	0	0	0	0	**15**
1115 - 1130	0	0	0	0	6	8	1	0	1	0	0	0	0	0	1	**17**
1130 - 1145	0	0	0	1	5	14	3	0	1	0	0	0	0	0	0	**24**
1145 - 1200	0	0	0	0	1	9	9	1	0	0	0	0	0	0	0	**20**
1200 - 1215	0	0	0	1	4	10	5	0	0	0	0	0	0	0	0	**20**
1215 - 1230	0	0	0	0	3	7	6	3	0	0	0	0	0	0	0	**19**
1230 - 1245	0	0	0	0	5	8	6	2	0	0	0	0	0	0	0	**21**
1245 - 1300	0	0	0	1	7	13	5	0	0	0	0	0	0	0	0	**26**
1300 - 1315	1	0	0	3	1	9	2	1	0	0	0	0	0	0	0	**17**
1315 - 1330	0	0	0	0	5	9	4	1	1	0	0	0	0	0	0	**20**
1330 - 1345	0	0	0	1	8	9	6	1	0	0	0	0	0	0	0	**25**
1345 - 1400	0	0	0	2	8	11	4	0	0	0	0	0	0	0	0	**25**
1400 - 1415	0	0	0	1	7	6	6	2	0	0	0	0	0	0	0	**22**
1415 - 1430	0	0	0	3	7	18	3	0	1	0	0	0	0	0	0	**32**
1430 - 1445	0	0	1	5	7	10	4	0	0	0	0	0	0	0	0	**27**
1445 - 1500	0	0	1	8	11	2	1	0	0	0	0	0	0	0	0	**23**
1500 - 1515	0	0	6	11	19	7	0	0	0	0	0	0	0	0	0	**43**
1515 - 1530	0	0	0	6	18	15	3	0	0	0	0	0	0	0	0	**42**
1530 - 1545	0	0	1	5	10	11	2	0	0	0	0	0	0	0	0	**29**
1545 - 1600	0	0	0	1	6	24	8	1	0	0	0	0	0	0	0	**40**
1600 - 1615	0	0	0	2	8	17	13	3	0	0	0	0	0	0	0	**43**
1615 - 1630	0	0	0	0	5	20	14	1	0	0	0	0	0	0	0	**40**
1630 - 1645	0	0	0	1	6	17	11	4	0	0	0	0	0	0	0	**39**
1645 - 1700	0	0	0	2	10	30	12	0	0	0	0	0	0	0	0	**54**
1700 - 1715	0	0	0	0	10	36	9	1	0	0	0	0	0	0	0	**56**
1715 - 1730	0	0	1	2	20	32	7	1	0	0	0	0	0	0	0	**63**
1730 - 1745	0	0	0	3	22	29	15	1	0	0	0	0	0	0	0	**70**
1745 - 1800	0	0	0	1	8	32	13	1	0	0	0	0	0	0	0	**55**
1800 - 1815	0	0	0	1	14	29	8	1	0	0	0	0	0	0	0	**53**
1815 - 1830	0	0	0	0	10	26	17	1	2	0	0	0	0	0	0	**56**
1830 - 1845	0	0	0	2	10	31	8	2	0	0	0	0	0	0	1	**54**
1845 - 1900	0	0	0	2	8	16	8	1	0	0	0	0	0	0	0	**35**
1900 - 1915	0	0	0	0	9	16	10	1	0	0	0	0	0	0	0	**36**
1915 - 1930	0	0	0	1	7	14	14	0	0	0	0	0	0	0	0	**36**
1930 - 1945	0	0	0	0	5	22	9	0	0	0	0	0	0	0	0	**36**
1945 - 2000	0	0	0	2	9	12	10	3	0	0	0	0	0	0	0	**36**
2000 - 2015	0	0	0	1	11	13	11	1	0	0	0	0	0	0	0	**37**
2015 - 2030	0	0	0	2	8	14	4	0	1	0	0	0	0	0	0	**29**
2030 - 2045	0	0	0	0	3	12	6	1	0	0	0	0	0	0	0	**22**
2045 - 2100	0	0	0	0	6	18	7	1	0	0	0	0	0	0	0	**32**
2100 - 2115	0	0	0	1	6	13	7	1	0	0	0	0	0	0	0	**28**
2115 - 2130	0	0	0	0	5	14	5	1	0	0	0	0	0	0	0	**25**
2130 - 2145	0	0	0	0	4	16	2	0	0	0	0	0	0	0	0	**22**
2145 - 2200	0	0	0	1	2	8	2	0	0	0	0	0	0	0	0	**13**
2200 - 2215	0	0	0	0	3	6	3	0	0	0	0	0	0	0	0	**12**
2215 - 2230	0	0	0	1	3	13	2	1	0	0	0	0	0	0	0	**20**
2230 - 2245	0	0	0	0	4	5	3	1	0	0	0	0	0	0	0	**13**
2245 - 2300	0	0	0	0	3	3	3	1	0	0	0	0	0	0	0	**10**
2300 - 2315	0	0	0	1	0	3	2	1	0	0	0	0	0	0	0	**7**
2315 - 2330	0	0	0	0	1	1	4	1	0	0	0	0	0	0	0	**7**
2330 - 2345	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	**4**
2345 - 2400	0	0	0	0	0	2	5	0	1	0	0	0	0	0	0	**8**
Session Total	2	0	14	110	436	855	386	65	13	0	0	0	0	0	2	**1883**

10mph Pace Speed	Number in Pace
32-41	1382 (73.4%)

15th Percentile	50th Percentile	Average	85th Percentile	95th Percentile
32	37	37	41	44

Summary

Time	Eastbound (Movement 1.1)															Total
	5-14 mph	15-19 mph	20-24 mph	25-29 mph	30-34 mph	35-39 mph	40-44 mph	45-49 mph	50-54 mph	55-59 mph	60-64 mph	65-69 mph	70-74 mph	75-79 mph	80-99 mph	
Tuesday, January 30, 2024	0	0	8	104	421	796	415	68	6	3	1	1	1	0	0	1824
Wednesday, January 31, 2024	2	0	14	110	436	855	386	65	13	0	0	0	0	0	2	1883
Session Total	2	0	22	214	857	1651	801	133	19	3	1	1	1	0	2	**3707**

Speed Statistics by 15min

Time	Total	% Split	Min	Max	Mean	Median	Percentile				>PSL (40mph)	>PSL % (40mph)
							15%	50%	85%	95%		
0000 - 0015	6	0.16	31	46	40	42	34	42	44	45	4	67
0015 - 0030	20	0.54	31	45	37	37	32	37	40	42	3	15
0030 - 0045	11	0.30	29	40	36	35	33	35	40	40	0	0
0045 - 0100	10	0.27	29	51	36	36	30	36	42	47	2	20
0100 - 0115	5	0.13	24	43	34	34	29	34	39	42	1	20
0115 - 0130	18	0.49	31	48	40	42	34	42	45	46	10	56
0130 - 0145	18	0.49	27	52	40	40	31	40	49	51	8	44
0145 - 0200	7	0.19	34	42	37	35	34	35	40	41	1	14
0200 - 0215	7	0.19	38	45	40	39	39	39	41	44	1	14
0215 - 0230	2	0.05	34	40	37	37	35	37	39	40	0	0
0230 - 0245	4	0.11	29	39	34	33	29	33	38	39	0	0
0245 - 0300	2	0.05	34	38	36	36	35	36	37	38	0	0
0300 - 0315	10	0.27	33	45	39	38	35	38	42	44	3	30
0315 - 0330	5	0.13	35	48	39	38	35	38	43	46	1	20
0330 - 0345	3	0.08	31	40	35	33	32	33	38	39	0	0
0345 - 0400	2	0.05	39	39	39	39	39	39	39	39	0	0
0400 - 0415	1	0.03	37	37	37	37	37	37	37	37	0	0
0415 - 0430	1	0.03	38	38	38	38	38	38	38	38	0	0
0430 - 0445	5	0.13	32	50	37	34	33	34	41	47	1	20
0445 - 0500	6	0.16	31	42	38	39	35	39	41	42	2	33
0500 - 0515	6	0.16	34	46	39	37	35	37	44	45	2	33
0515 - 0530	9	0.24	32	45	38	37	33	37	42	44	3	33
0530 - 0545	3	0.08	35	37	36	36	35	36	37	37	0	0
0545 - 0600	4	0.11	35	49	44	46	39	46	48	49	3	75
0600 - 0615	5	0.13	29	41	35	34	31	34	39	40	1	20
0615 - 0630	15	0.40	30	45	36	35	32	35	42	44	3	20
0630 - 0645	16	0.43	35	43	39	39	36	39	40	42	2	13
0645 - 0700	19	0.51	27	48	37	37	31	37	42	44	4	21
0700 - 0715	23	0.62	26	48	36	37	30	37	42	42	6	26
0715 - 0730	28	0.76	30	47	37	37	33	37	44	45	6	21
0730 - 0745	34	0.92	25	44	33	32	29	32	37	39	1	3
0745 - 0800	42	1.13	23	43	30	29	25	29	35	41	3	7
0800 - 0815	45	1.21	24	44	32	32	28	32	38	42	4	9
0815 - 0830	25	0.67	21	45	34	36	27	36	40	43	4	16
0830 - 0845	23	0.62	32	53	39	39	35	39	42	47	10	43
0845 - 0900	30	0.81	27	47	37	36	34	36	40	46	4	13
0900 - 0915	13	0.35	32	46	37	37	34	37	40	42	1	8
0915 - 0930	23	0.62	26	45	36	36	33	36	40	40	1	4
0930 - 0945	32	0.86	26	51	36	37	32	37	42	46	6	19
0945 - 1000	21	0.57	29	45	37	37	34	37	41	44	4	19
1000 - 1015	30	0.81	30	43	37	37	34	37	42	42	7	23
1015 - 1030	23	0.62	30	47	40	39	35	39	44	47	11	48
1030 - 1045	30	0.81	25	46	38	39	33	39	41	43	7	23
1045 - 1100	28	0.76	7	47	37	39	34	39	43	44	9	32
1100 - 1115	29	0.78	31	45	38	37	34	37	42	43	6	21
1115 - 1130	31	0.84	30	137	39	36	33	36	40	46	3	10
1130 - 1145	44	1.19	27	50	37	37	34	37	40	43	5	11
1145 - 1200	41	1.11	30	49	39	39	35	39	42	46	11	27
1200 - 1215	39	1.05	27	43	37	37	32	37	40	42	5	13
1215 - 1230	36	0.97	29	49	39	39	34	39	43	47	9	25
1230 - 1245	43	1.16	32	47	38	38	34	38	42	45	11	26
1245 - 1300	39	1.05	29	45	37	38	32	38	41	43	7	18
1300 - 1315	35	0.94	13	45	36	36	30	36	41	43	6	17
1315 - 1330	44	1.19	30	57	38	36	33	36	42	50	9	20
1330 - 1345	46	1.24	29	48	37	37	34	37	40	42	7	15
1345 - 1400	45	1.21	26	47	36	36	32	36	39	40	2	4
1400 - 1415	44	1.19	21	47	37	37	32	37	41	45	8	18
1415 - 1430	55	1.48	26	51	36	36	32	36	39	42	5	9
1430 - 1445	64	1.73	24	43	34	34	29	34	39	41	4	6
1445 - 1500	54	1.46	24	44	32	32	27	32	35	38	1	2
1500 - 1515	90	2.43	21	45	31	31	25	31	35	40	4	4
1515 - 1530	84	2.27	25	49	34	33	29	33	39	40	4	5
1530 - 1545	67	1.81	22	65	34	34	30	34	39	41	4	6
1545 - 1600	76	2.05	29	53	38	38	35	38	43	43	19	25
1600 - 1615	79	2.13	28	47	37	37	32	37	41	43	16	20
1615 - 1630	86	2.32	28	47	38	38	35	38	42	44	22	26
1630 - 1645	87	2.35	27	50	38	38	34	38	43	46	26	30
1645 - 1700	113	3.05	26	47	37	37	34	37	40	43	15	13
1700 - 1715	103	2.78	30	57	38	38	35	38	42	44	23	22
1715 - 1730	128	3.45	22	48	36	37	32	37	40	43	15	12
1730 - 1745	122	3.29	26	45	36	37	32	37	40	43	17	14
1745 - 1800	107	2.89	29	74	37	37	33	37	40	43	14	13
1800 - 1815	99	2.67	29	45	37	37	34	37	40	42	11	11
1815 - 1830	109	2.94	25	50	38	37	34	37	41	44	19	17
1830 - 1845	105	2.83	26	84	38	37	34	37	40	43	13	12
1845 - 1900	71	1.92	27	49	37	37	34	37	42	44	15	21
1900 - 1915	65	1.75	30	48	38	38	33	38	41	44	15	23
1915 - 1930	73	1.97	28	49	38	37	34	37	42	44	19	26
1930 - 1945	75	2.02	31	47	38	38	35	38	41	43	19	25
1945 - 2000	66	1.78	26	47	38	38	34	38	43	45	20	30
2000 - 2015	63	1.70	27	47	37	37	34	37	42	43	16	25
2015 - 2030	51	1.38	29	51	37	37	32	37	41	44	8	16
2030 - 2045	49	1.32	30	45	39	39	36	39	42	43	12	24
2045 - 2100	59	1.59	31	48	37	37	34	37	41	42	11	19
2100 - 2115	52	1.40	26	48	38	38	34	38	42	45	12	23
2115 - 2130	43	1.16	31	45	38	38	35	38	42	43	9	21
2130 - 2145	36	0.97	29	45	37	37	32	37	41	43	6	17
2145 - 2200	27	0.73	27	45	37	37	35	37	42	45	6	22
2200 - 2215	25	0.67	30	43	36	35	32	35	39	42	2	8
2215 - 2230	38	1.03	26	45	37	37	32	37	41	43	7	18
2230 - 2245	28	0.76	29	45	36	36	32	36	40	42	4	14
2245 - 2300	24	0.65	28	46	37	38	34	38	41	43	5	21
2300 - 2315	13	0.35	29	47	38	39	34	39	43	45	4	31
2315 - 2330	12	0.32	34	47	39	39	34	39	41	44	3	25
2330 - 2345	9	0.24	30	40	36	36	34	36	39	40	0	0
2345 - 2400	14	0.38	31	53	39	40	34	40	43	47	5	36
Session Total	3707		7	137	37	37	32	37	41	44	658	18

Bi-Directional Speed & Class Count || SB WB Speed 15min

Spring Hill, TN (Stone Creek)

Marr Traffic DATA COLLECTION
www.marrtraffic.com

Site 1
Derryberry Ln N,
east of Neeleys Bend E

Date
Tuesday, January 30, 2024

Lat/Long
35.722758°, -86.885532°

Click here for Map

Weather
Mostly Cloudy
42°F

Click here for Detailed Weather

0000 - 2400 (Weekday 24h Session)
SB WB Speed 15min

	Westbound (Movement 1,2)															15min
Time	5-14 mph	15-19 mph	20-24 mph	25-29 mph	30-34 mph	35-39 mph	40-44 mph	45-49 mph	50-54 mph	55-59 mph	60-64 mph	65-69 mph	70-74 mph	75-79 mph	80-99 mph	Total
0000 - 0015	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	**1**
0015 - 0030	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	**2**
0030 - 0045	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	**1**
0045 - 0100	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	**1**
0100 - 0115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
0115 - 0130	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	**1**
0130 - 0145	0	0	0	2	0	1	0	0	0	0	0	0	0	0	0	**3**
0145 - 0200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
0200 - 0215	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
0215 - 0230	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	**2**
0230 - 0245	0	0	1	1	0	0	1	0	0	0	0	0	0	0	0	**3**
0245 - 0300	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	**2**
0300 - 0315	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	**1**
0315 - 0330	0	0	2	0	2	2	0	0	0	0	0	0	0	0	0	**6**
0330 - 0345	0	0	0	1	1	0	1	0	0	0	0	0	0	0	0	**3**
0345 - 0400	0	0	0	1	2	1	0	0	0	0	0	0	0	0	0	**4**
0400 - 0415	0	0	0	1	1	3	0	0	0	0	0	0	0	0	0	**5**
0415 - 0430	0	0	0	1	2	1	0	0	0	0	0	0	0	0	0	**4**
0430 - 0445	0	0	0	2	2	0	2	0	0	0	0	0	0	0	0	**6**
0445 - 0500	0	0	1	2	2	3	3	1	0	0	0	0	0	0	0	**12**
0500 - 0515	0	0	1	7	6	5	4	0	0	0	0	0	0	0	0	**23**
0515 - 0530	0	0	2	3	8	6	5	1	0	0	0	0	0	0	0	**25**
0530 - 0545	0	0	1	9	14	7	4	1	0	0	0	0	0	0	0	**36**
0545 - 0600	0	0	1	5	7	11	4	1	1	0	0	0	0	0	0	**30**
0600 - 0615	0	0	1	9	13	13	11	2	0	0	0	0	0	0	0	**49**
0615 - 0630	0	0	1	9	24	18	0	0	0	0	0	0	0	0	0	**52**
0630 - 0645	0	0	0	9	22	12	1	1	1	0	0	0	0	0	0	**46**
0645 - 0700	0	0	1	15	24	18	4	2	0	0	0	0	0	0	0	**64**
0700 - 0715	0	0	1	19	20	13	4	0	0	0	0	0	0	0	0	**57**
0715 - 0730	0	0	2	11	21	16	5	0	0	0	0	0	0	0	0	**55**
0730 - 0745	0	0	6	20	12	10	4	0	0	0	0	0	0	0	0	**52**
0745 - 0800	0	3	8	18	19	8	3	0	0	0	0	0	0	0	0	**59**
0800 - 0815	0	1	4	13	16	9	1	0	0	0	0	0	0	0	0	**44**
0815 - 0830	0	0	1	13	11	3	3	0	0	0	0	0	0	0	0	**31**
0830 - 0845	0	0	0	4	10	7	4	0	0	0	0	0	0	0	0	**25**
0845 - 0900	0	0	0	4	6	6	3	1	0	0	0	0	0	0	0	**20**
0900 - 0915	0	0	1	7	7	5	2	1	0	0	0	0	0	0	0	**23**
0915 - 0930	0	0	1	13	9	5	3	2	0	0	0	0	0	0	0	**33**
0930 - 0945	0	0	2	6	6	10	5	1	0	0	0	0	0	0	0	**30**
0945 - 1000	0	0	0	4	6	9	2	1	0	0	0	0	0	0	0	**22**
1000 - 1015	0	0	0	6	4	6	2	0	0	0	0	0	0	0	0	**18**
1015 - 1030	0	0	2	6	11	4	2	1	0	0	0	0	0	0	0	**26**
1030 - 1045	0	0	0	6	6	2	3	0	0	0	0	0	0	0	0	**17**
1045 - 1100	0	0	1	2	3	6	2	0	0	0	0	0	0	0	0	**14**
1100 - 1115	0	1	1	2	3	5	2	0	0	0	0	0	0	0	0	**14**
1115 - 1130	0	0	5	4	5	2	2	0	0	0	0	0	0	0	0	**18**
1130 - 1145	0	0	0	7	6	7	1	0	0	0	0	0	0	0	0	**21**
1145 - 1200	0	0	2	13	8	6	1	0	1	0	0	0	0	0	0	**31**
1200 - 1215	0	0	0	5	11	5	1	0	0	0	0	0	0	0	0	**22**
1215 - 1230	0	1	0	3	4	8	1	0	0	0	0	0	0	0	0	**17**
1230 - 1245	0	0	1	6	10	6	1	0	0	0	0	0	0	0	0	**24**
1245 - 1300	0	0	0	3	10	4	3	0	0	0	0	0	0	0	0	**20**
1300 - 1315	0	0	1	7	12	6	1	0	0	0	0	0	0	0	0	**27**
1315 - 1330	0	0	2	12	6	5	3	1	0	0	0	0	0	0	0	**29**
1330 - 1345	0	1	3	5	10	4	0	0	0	0	0	0	0	0	0	**23**
1345 - 1400	0	0	1	2	6	7	0	0	0	0	0	0	0	0	0	**16**
1400 - 1415	0	0	1	7	13	3	1	0	1	0	0	0	0	0	0	**26**
1415 - 1430	1	0	1	10	10	6	2	1	0	0	0	0	0	0	0	**31**
1430 - 1445	0	2	4	6	4	5	0	0	0	0	0	0	0	0	0	**21**
1445 - 1500	0	1	4	12	9	3	1	0	0	0	0	0	0	0	0	**30**
1500 - 1515	0	3	10	11	8	1	0	0	0	0	0	0	0	0	0	**33**
1515 - 1530	1	3	2	10	7	7	0	0	0	0	0	0	0	0	0	**30**
1530 - 1545	0	0	4	8	3	3	1	0	0	0	0	0	0	0	0	**19**
1545 - 1600	0	0	0	12	8	4	0	0	0	0	0	0	0	0	0	**24**
1600 - 1615	0	1	5	5	5	7	1	1	0	0	0	0	0	0	0	**25**
1615 - 1630	0	0	0	10	6	9	3	1	0	0	0	0	0	0	0	**29**
1630 - 1645	0	0	1	6	13	2	1	1	0	0	0	0	0	0	0	**24**
1645 - 1700	0	0	0	8	18	5	1	1	0	0	0	0	0	0	0	**33**
1700 - 1715	0	0	0	7	7	4	1	1	0	0	0	0	0	0	0	**20**
1715 - 1730	0	1	0	11	6	4	3	0	0	0	0	0	0	0	0	**25**
1730 - 1745	0	0	1	7	11	5	1	0	0	0	0	0	0	0	0	**25**
1745 - 1800	0	0	1	3	9	10	5	0	0	0	0	0	0	0	0	**28**
1800 - 1815	0	0	0	13	9	6	1	2	0	0	0	0	0	0	0	**31**
1815 - 1830	0	0	0	4	8	4	0	1	0	0	0	0	0	0	0	**17**
1830 - 1845	0	0	0	2	12	1	2	1	0	0	0	0	0	0	0	**18**
1845 - 1900	0	0	0	4	8	3	3	0	0	0	0	0	0	0	0	**18**
1900 - 1915	0	0	1	0	6	2	0	0	0	0	0	0	0	0	0	**9**
1915 - 1930	0	0	0	0	5	8	1	0	0	0	0	0	0	0	0	**14**
1930 - 1945	0	0	0	4	7	1	1	0	0	0	0	0	0	0	0	**13**
1945 - 2000	0	0	1	5	8	3	0	0	0	0	0	0	0	0	0	**17**
2000 - 2015	0	0	0	2	4	3	0	1	0	0	0	0	0	0	0	**10**
2015 - 2030	0	0	0	6	1	1	1	1	0	0	0	0	0	0	0	**10**
2030 - 2045	0	0	2	2	1	2	1	0	0	0	0	0	0	0	0	**8**
2045 - 2100	0	0	0	2	4	1	1	1	1	0	0	0	0	0	0	**10**
2100 - 2115	0	0	0	0	4	2	3	0	0	0	0	0	0	0	0	**9**
2115 - 2130	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	**3**
2130 - 2145	0	0	0	2	4	3	1	1	0	0	0	0	0	0	0	**11**
2145 - 2200	0	0	0	1	4	1	0	0	0	0	0	0	0	0	0	**6**
2200 - 2215	0	0	0	1	2	2	0	0	0	0	0	0	0	0	0	**5**
2215 - 2230	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	**3**
2230 - 2245	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	**3**
2245 - 2300	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	**1**
2300 - 2315	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
2315 - 2330	0	0	0	2	1	1	0	0	0	0	0	0	0	0	0	**4**
2330 - 2345	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
2345 - 2400	0	0	0	1	0	3	0	0	0	0	0	0	0	0	0	**4**
Session Total	2	19	96	489	622	412	141	31	5	0	0	0	0	0	0	**1817**

10mph Pace Speed	Number in Pace
28-37	1155 (63.6%)

15th Percentile	50th Percentile	Average	85th Percentile	95th Percentile
27	32	32	38	42

Site 1
Derryberry Ln N,
east of Neeleys Bend E

Date
Wednesday, January 31, 2024

Weather
Mostly Cloudy
47°F

Click here for Detailed Weather

0000 - 2400 (Weekday 24h Session)
SB WB Speed 15min

	Westbound (Movement 1.2)															15min
Time	5-14 mph	15-19 mph	20-24 mph	25-29 mph	30-34 mph	35-39 mph	40-44 mph	45-49 mph	50-54 mph	55-59 mph	60-64 mph	65-69 mph	70-74 mph	75-79 mph	80-99 mph	Total
0000 - 0015	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	**1**
0015 - 0030	0	0	1	0	0	2	0	0	0	0	0	0	0	0	0	**3**
0030 - 0045	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	**2**
0045 - 0100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
0100 - 0115	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	**2**
0115 - 0130	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	**3**
0130 - 0145	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
0145 - 0200	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	**1**
0200 - 0215	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
0215 - 0230	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	**1**
0230 - 0245	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	**2**
0245 - 0300	0	0	1	1	3	0	0	0	0	0	0	0	0	0	0	**5**
0300 - 0315	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	**2**
0315 - 0330	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	**3**
0330 - 0345	0	0	0	0	2	2	1	0	0	0	0	0	0	0	0	**5**
0345 - 0400	0	0	0	0	2	0	1	0	0	0	0	0	0	0	0	**3**
0400 - 0415	0	0	0	3	2	1	0	0	0	0	0	0	0	0	0	**6**
0415 - 0430	0	0	0	4	2	1	0	0	0	0	0	0	0	0	0	**7**
0430 - 0445	0	0	0	0	1	1	2	1	0	0	0	0	0	0	0	**5**
0445 - 0500	0	0	1	2	2	2	2	0	0	0	0	0	0	0	0	**9**
0500 - 0515	0	0	0	1	9	5	3	1	1	0	0	0	0	0	0	**20**
0515 - 0530	0	0	1	5	11	9	4	0	0	0	0	0	0	0	0	**30**
0530 - 0545	0	0	0	9	10	13	3	0	1	0	0	0	0	0	0	**36**
0545 - 0600	0	0	0	5	7	8	4	1	0	0	0	0	0	0	0	**25**
0600 - 0615	0	0	0	4	14	9	6	5	0	0	0	0	0	0	0	**38**
0615 - 0630	0	0	3	11	21	16	5	0	0	0	0	0	0	0	0	**56**
0630 - 0645	0	0	0	19	22	15	7	0	0	0	0	0	0	0	0	**63**
0645 - 0700	0	1	3	22	17	11	4	0	0	0	0	0	0	0	0	**58**
0700 - 0715	0	0	3	10	17	20	4	0	0	0	0	0	0	0	0	**54**
0715 - 0730	0	1	3	17	22	10	2	1	0	0	0	0	0	0	0	**56**
0730 - 0745	0	0	9	24	19	3	0	0	0	0	0	0	0	0	0	**55**
0745 - 0800	0	0	6	27	17	3	0	0	0	0	0	0	0	0	0	**53**
0800 - 0815	0	0	3	12	9	3	1	0	0	1	0	0	0	0	0	**29**
0815 - 0830	0	1	4	10	11	8	2	2	0	0	0	0	0	0	0	**38**
0830 - 0845	0	0	0	9	18	3	0	0	0	0	0	0	0	0	0	**30**
0845 - 0900	0	0	1	4	10	7	2	0	0	0	0	0	0	0	0	**24**
0900 - 0915	0	0	0	5	8	3	1	0	0	0	0	0	0	0	0	**17**
0915 - 0930	0	0	2	7	11	5	3	0	0	0	0	0	0	0	0	**28**
0930 - 0945	0	0	4	10	8	4	0	0	0	0	0	0	0	0	0	**26**
0945 - 1000	0	0	3	5	6	2	1	0	0	0	0	0	0	0	0	**17**
1000 - 1015	0	0	1	6	5	6	1	0	0	0	0	0	0	0	0	**19**
1015 - 1030	0	0	0	3	5	4	0	0	0	0	0	0	0	0	0	**12**
1030 - 1045	0	0	2	10	11	2	0	0	0	0	0	0	0	0	0	**25**
1045 - 1100	0	0	0	6	7	4	1	0	0	0	0	0	0	0	0	**18**
1100 - 1115	0	0	3	2	5	2	1	0	1	0	0	0	0	0	0	**14**
1115 - 1130	0	0	3	6	8	7	2	0	0	0	0	0	0	0	0	**26**
1130 - 1145	0	1	1	6	6	5	3	0	0	0	0	0	0	0	0	**22**
1145 - 1200	0	0	1	4	7	2	1	0	1	0	0	0	0	0	0	**16**
1200 - 1215	0	0	0	10	10	4	6	1	0	0	0	0	0	0	0	**31**
1215 - 1230	0	0	1	4	4	4	2	0	0	0	0	0	0	0	0	**15**
1230 - 1245	0	0	0	4	7	6	0	0	0	0	0	0	0	0	0	**17**
1245 - 1300	0	0	1	7	6	5	1	0	0	0	0	0	0	0	0	**20**
1300 - 1315	0	0	2	4	9	5	2	2	1	0	0	0	0	0	0	**25**
1315 - 1330	0	2	4	4	8	2	1	0	0	0	0	0	0	0	0	**21**
1330 - 1345	0	0	0	2	10	8	5	1	0	0	0	0	0	0	0	**26**
1345 - 1400	0	0	0	4	7	4	1	0	0	0	0	0	0	0	0	**16**
1400 - 1415	0	1	0	9	7	8	3	1	0	0	0	0	0	0	0	**29**
1415 - 1430	0	0	2	5	13	9	3	0	0	0	0	0	0	0	0	**32**
1430 - 1445	0	0	0	6	11	8	2	0	0	0	0	0	0	0	0	**27**
1445 - 1500	0	1	4	10	5	4	2	0	0	0	0	0	0	0	0	**26**
1500 - 1515	1	1	8	9	5	2	0	0	0	0	0	0	0	0	0	**26**
1515 - 1530	0	0	1	12	10	11	2	0	0	0	0	0	0	0	0	**36**
1530 - 1545	0	0	2	9	11	5	1	0	0	0	0	0	0	0	0	**28**
1545 - 1600	0	0	0	4	4	7	1	0	0	0	0	0	0	0	0	**16**
1600 - 1615	0	0	0	5	10	10	5	0	0	1	0	0	0	0	0	**31**
1615 - 1630	0	0	1	9	4	3	0	0	0	0	0	0	0	0	0	**17**
1630 - 1645	0	0	0	5	10	6	0	1	0	0	0	0	0	0	0	**22**
1645 - 1700	0	0	3	9	10	9	1	0	0	0	0	0	0	0	0	**32**
1700 - 1715	0	0	1	7	11	12	2	1	0	0	0	0	0	0	0	**34**
1715 - 1730	0	0	1	6	12	6	2	0	1	0	0	0	0	0	0	**28**
1730 - 1745	0	0	1	12	12	11	1	0	0	0	0	0	0	0	0	**37**
1745 - 1800	0	0	2	6	14	3	1	1	0	0	0	0	0	0	0	**27**
1800 - 1815	0	0	0	8	9	8	1	0	0	0	0	0	0	0	1	**27**
1815 - 1830	0	0	1	4	10	6	2	2	0	0	0	0	0	0	0	**25**
1830 - 1845	0	0	2	3	11	12	0	0	0	0	0	0	0	0	0	**28**
1845 - 1900	0	0	1	0	11	8	3	0	0	0	0	0	0	0	0	**23**
1900 - 1915	0	0	3	2	4	2	0	0	0	0	0	0	0	0	0	**11**
1915 - 1930	0	0	3	5	3	4	0	0	0	0	0	0	0	0	0	**15**
1930 - 1945	0	0	3	2	5	2	0	0	0	0	0	0	0	0	0	**12**
1945 - 2000	0	0	0	5	2	2	0	0	0	0	0	0	0	0	0	**9**
2000 - 2015	0	0	1	6	9	1	1	0	0	0	0	0	0	0	0	**18**
2015 - 2030	0	0	1	6	7	3	0	0	0	0	0	0	0	0	0	**17**
2030 - 2045	0	0	0	2	3	2	2	1	0	0	0	0	0	0	0	**10**
2045 - 2100	0	0	0	2	8	6	0	0	0	0	0	0	0	0	0	**16**
2100 - 2115	0	0	0	1	3	1	2	0	0	0	0	0	0	0	0	**7**
2115 - 2130	0	0	0	3	1	6	0	0	0	0	0	0	0	0	0	**10**
2130 - 2145	0	0	1	2	2	0	1	0	0	0	0	0	0	0	0	**6**
2145 - 2200	0	0	0	3	2	1	0	0	0	0	0	0	0	0	0	**6**
2200 - 2215	0	0	0	0	4	0	1	0	0	0	0	0	0	0	0	**5**
2215 - 2230	0	0	0	0	1	3	1	0	0	0	0	0	0	0	0	**5**
2230 - 2245	0	1	0	3	2	0	0	0	0	0	0	0	0	0	0	**6**
2245 - 2300	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	**2**
2300 - 2315	0	0	0	2	0	1	0	0	0	0	0	0	0	0	0	**3**
2315 - 2330	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	**4**
2330 - 2345	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	**1**
2345 - 2400	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0	**3**
Session Total	1	10	111	499	653	421	126	22	7	2	0	0	0	0	1	**1853**

10mph Pace Speed	Number in Pace
28-37	1170 (63.1%)

15th Percentile	50th Percentile	Average	85th Percentile	95th Percentile
27	32	32	38	41

Summary

Time	Westbound (Movement 1.2)															Total
	5-14 mph	15-19 mph	20-24 mph	25-29 mph	30-34 mph	35-39 mph	40-44 mph	45-49 mph	50-54 mph	55-59 mph	60-64 mph	65-69 mph	70-74 mph	75-79 mph	80-99 mph	
Tuesday, January 30, 2024	2	19	96	489	622	412	141	31	5	0	0	0	0	0	0	**1817**
Wednesday, January 31, 2024	1	10	111	499	653	421	126	22	7	2	0	0	0	0	1	**1853**
Session Total	3	29	207	988	1275	833	267	53	12	2	0	0	0	0	1	**3670**

Speed Statistics by 15min

Time	Total	% Split	Min	Max	Mean	Median	Percentile				>PSL (40mph)	>PSL % (40mph)
							15%	50%	85%	95%		
0000 - 0015	2	0.05	19	33	26	26	21	26	31	32	0	0
0015 - 0030	5	0.14	22	41	34	37	30	37	39	40	1	20
0030 - 0045	3	0.08	24	39	29	25	24	25	35	38	0	0
0045 - 0100	1	0.03	28	28	28	28	28	28	28	28	0	0
0100 - 0115	2	0.05	31	32	32	32	31	32	32	32	0	0
0115 - 0130	4	0.11	26	32	30	30	28	30	31	32	0	0
0130 - 0145	3	0.08	27	38	31	29	28	29	35	37	0	0
0145 - 0200	1	0.03	30	30	30	30	30	30	30	30	0	0
0200 - 0215	0	0.00	0	0	0	0	0	0	0	0	0	-
0215 - 0230	3	0.08	27	36	31	29	28	29	34	35	0	0
0230 - 0245	5	0.14	22	40	28	25	23	25	33	38	0	0
0245 - 0300	7	0.19	24	34	29	30	25	30	33	34	0	0
0300 - 0315	3	0.08	26	42	35	36	29	36	40	41	1	33
0315 - 0330	9	0.25	23	38	30	31	24	31	35	37	0	0
0330 - 0345	8	0.22	29	41	36	35	33	35	41	41	2	25
0345 - 0400	7	0.19	28	41	33	33	30	33	38	40	1	14
0400 - 0415	11	0.30	25	37	32	33	26	33	36	37	0	0
0415 - 0430	11	0.30	25	39	31	32	27	32	35	38	0	0
0430 - 0445	11	0.30	25	45	36	37	30	37	44	45	4	36
0445 - 0500	21	0.57	22	47	34	35	26	35	42	44	4	19
0500 - 0515	43	1.17	22	51	34	33	29	33	40	43	6	14
0515 - 0530	55	1.50	22	45	33	34	27	34	40	42	5	9
0530 - 0545	72	1.96	24	50	34	34	28	34	39	42	6	8
0545 - 0600	55	1.50	24	50	35	35	29	35	40	44	8	15
0600 - 0615	87	2.37	24	47	35	35	29	35	42	46	17	20
0615 - 0630	108	2.94	22	43	33	33	27	33	39	39	2	2
0630 - 0645	109	2.97	25	51	33	32	28	32	38	42	10	9
0645 - 0700	122	3.32	17	49	32	32	26	32	37	41	7	6
0700 - 0715	111	3.02	20	43	33	33	27	33	38	40	5	5
0715 - 0730	111	3.02	17	48	32	32	27	32	36	40	4	4
0730 - 0745	107	2.92	20	42	30	29	25	29	35	39	4	4
0745 - 0800	112	3.05	17	41	29	29	25	29	34	38	1	1
0800 - 0815	73	1.99	19	56	31	30	25	30	36	39	2	3
0815 - 0830	69	1.88	17	47	31	30	25	30	37	42	4	6
0830 - 0845	55	1.50	25	44	33	32	27	32	37	43	4	7
0845 - 0900	44	1.20	24	46	34	34	29	34	39	42	3	7
0900 - 0915	40	1.09	23	47	33	32	28	32	36	43	4	10
0915 - 0930	61	1.66	21	47	32	30	27	30	39	43	7	11
0930 - 0945	56	1.53	21	48	32	30	26	30	38	42	6	11
0945 - 1000	39	1.06	21	47	33	32	27	32	38	42	3	8
1000 - 1015	37	1.01	24	42	33	32	28	32	39	40	2	5
1015 - 1030	38	1.04	24	48	32	32	27	32	37	42	3	8
1030 - 1045	42	1.14	21	40	31	31	26	31	36	40	0	0
1045 - 1100	32	0.87	24	42	33	34	27	34	38	41	2	6
1100 - 1115	28	0.76	19	52	32	32	24	32	39	40	1	4
1115 - 1130	44	1.20	21	43	31	32	24	32	38	41	3	7
1130 - 1145	43	1.17	17	44	32	32	27	32	39	41	3	7
1145 - 1200	47	1.28	21	51	32	31	26	31	37	43	4	9
1200 - 1215	53	1.44	25	47	33	33	27	33	39	42	5	9
1215 - 1230	32	0.87	19	41	33	33	28	33	38	40	1	3
1230 - 1245	41	1.12	24	43	33	32	29	32	38	39	1	2
1245 - 1300	40	1.09	24	43	33	32	28	32	37	42	4	10
1300 - 1315	52	1.42	21	53	33	32	28	32	37	44	5	10
1315 - 1330	50	1.36	17	47	31	30	24	30	37	40	2	4
1330 - 1345	49	1.34	18	45	33	33	28	33	39	41	3	6
1345 - 1400	32	0.87	24	40	33	34	28	34	37	39	0	0
1400 - 1415	55	1.50	16	50	33	32	27	32	38	43	6	11
1415 - 1430	63	1.72	14	45	32	32	27	32	38	42	4	6
1430 - 1445	48	1.31	19	44	31	32	25	32	37	39	2	4
1445 - 1500	56	1.53	18	41	29	29	24	29	35	39	1	2
1500 - 1515	59	1.61	13	39	26	25	21	25	30	32	0	0
1515 - 1530	66	1.80	3	44	30	31	25	31	37	39	2	3
1530 - 1545	47	1.28	20	42	30	30	25	30	37	39	2	4
1545 - 1600	40	1.09	25	43	32	31	27	31	36	38	1	3
1600 - 1615	56	1.53	15	56	33	33	26	33	39	43	4	7
1615 - 1630	46	1.25	21	46	32	31	27	31	37	40	2	4
1630 - 1645	46	1.25	22	48	33	32	29	32	37	41	3	7
1645 - 1700	65	1.77	22	45	32	32	28	32	35	39	3	5
1700 - 1715	54	1.47	24	47	33	31	28	31	38	40	3	6
1715 - 1730	53	1.44	17	52	32	31	27	31	37	41	3	6
1730 - 1745	62	1.69	23	43	32	32	27	32	36	39	2	3
1745 - 1800	55	1.50	20	45	33	33	28	33	39	41	3	5
1800 - 1815	58	1.58	25	80	33	31	27	31	37	43	4	7
1815 - 1830	42	1.14	24	47	33	34	27	34	39	45	4	10
1830 - 1845	46	1.25	21	46	33	34	30	34	37	40	2	4
1845 - 1900	41	1.12	24	44	34	34	30	34	39	41	3	7
1900 - 1915	20	0.54	22	36	30	31	24	31	35	35	0	0
1915 - 1930	29	0.79	21	40	32	33	25	33	37	39	0	0
1930 - 1945	25	0.68	22	40	31	32	27	32	34	37	0	0
1945 - 2000	26	0.71	24	38	31	30	27	30	36	37	0	0
2000 - 2015	28	0.76	23	45	32	31	29	31	36	40	2	7
2015 - 2030	27	0.74	24	45	31	30	27	30	35	42	2	7
2030 - 2045	18	0.49	24	45	33	34	27	34	40	43	3	17
2045 - 2100	26	0.71	25	53	34	33	30	33	37	47	3	12
2100 - 2115	16	0.44	29	43	35	34	30	34	40	42	2	13
2115 - 2130	13	0.35	26	39	32	30	29	30	37	39	0	0
2130 - 2145	17	0.46	24	45	33	32	28	32	39	41	1	6
2145 - 2200	12	0.33	25	39	31	31	28	31	34	37	0	0
2200 - 2215	10	0.27	27	40	33	33	30	33	36	38	0	0
2215 - 2230	8	0.22	26	40	34	34	30	34	38	39	0	0
2230 - 2245	9	0.25	17	34	29	29	27	29	32	33	0	0
2245 - 2300	3	0.08	28	32	30	29	28	29	31	32	0	0
2300 - 2315	3	0.08	25	37	30	27	26	27	34	36	0	0
2315 - 2330	8	0.22	24	35	30	30	27	30	35	35	0	0
2330 - 2345	1	0.03	33	33	33	33	33	33	33	33	0	0
2345 - 2400	7	0.19	25	50	35	35	29	35	40	47	1	14
Session Total	3670		3	80	32	32	27	32	38	42	228	6

Bi-Directional Speed & Class Count || Graphical Analysis NB EB

Spring Hill, TN (Stone Creek)

Marr Traffic DATA COLLECTION
www.marrtraffic.com

Site 1

Derryberry Ln N,
east of Neeleys Bend E

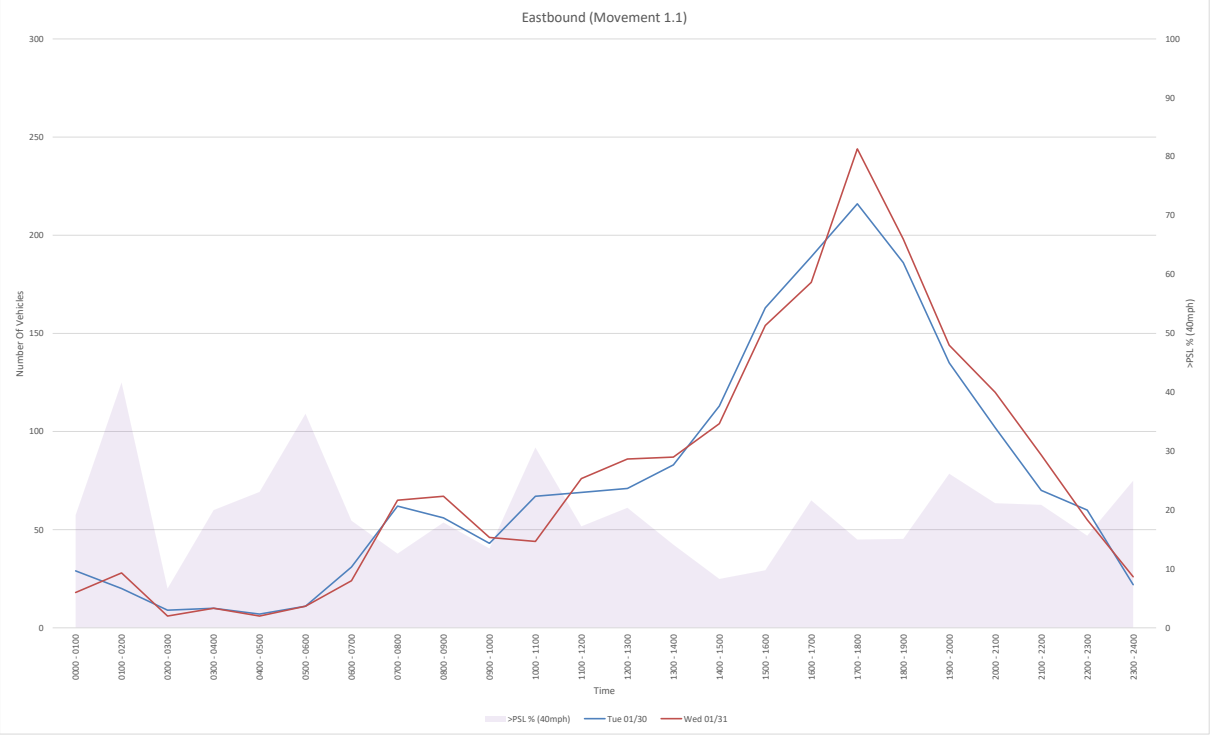
Lat/Long

35.722758°, -86.885532°

Click here for Map

0000 - 2400 (Weekday 24h Session)

Graphical Analysis NB EB



Bi-Directional Speed & Class Count || Graphical Analysis SB WB

Spring Hill, TN (Stone Creek)

Marr Traffic DATA COLLECTION
www.marrtraffic.com

Site 1

Derryberry Ln N,
east of Neeleys Bend E

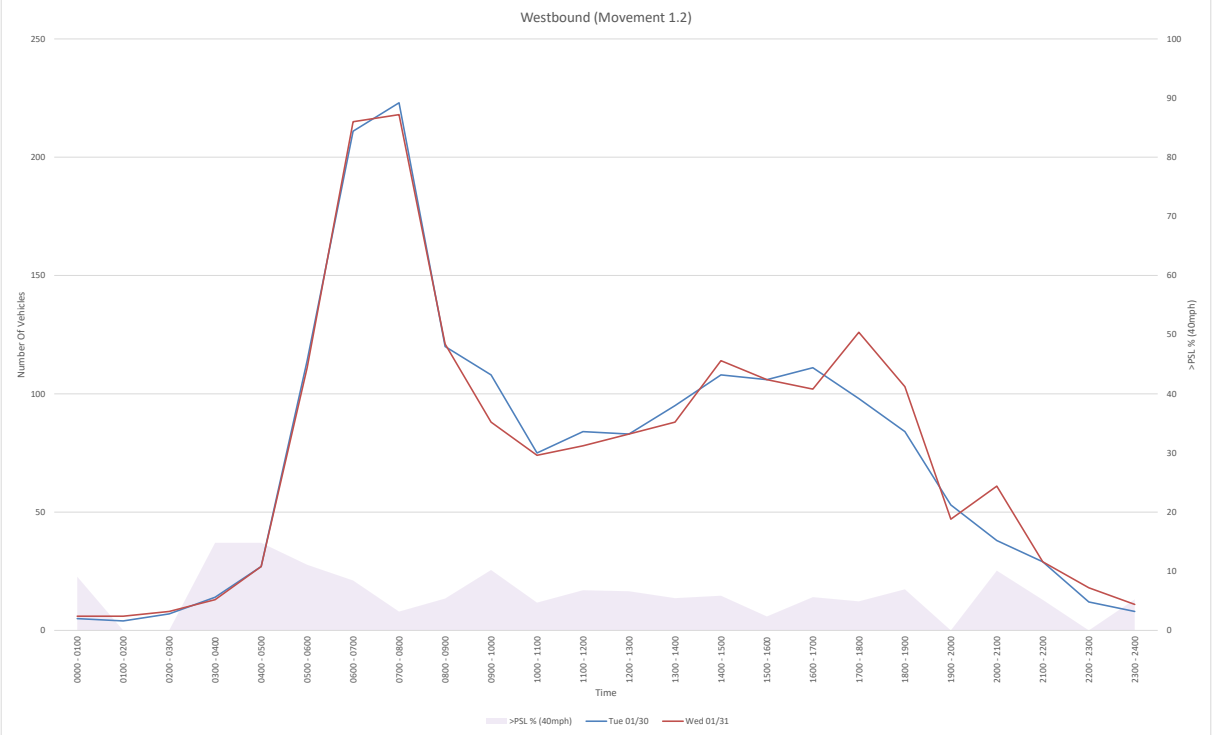
Lat/Long

35.722758°, -86.885532°

Click here for Map

0000 - 2400 (Weekday 24h Session)

Graphical Analysis SB WB



Bi-Directional Speed & Class Count || Graphical Analysis Bi-Direction

Spring Hill, TN (Stone Creek)

Marr Traffic DATA COLLECTION
www.marrtraffic.com

Site 1

Derryberry Ln N,
east of Neeleys Bend E

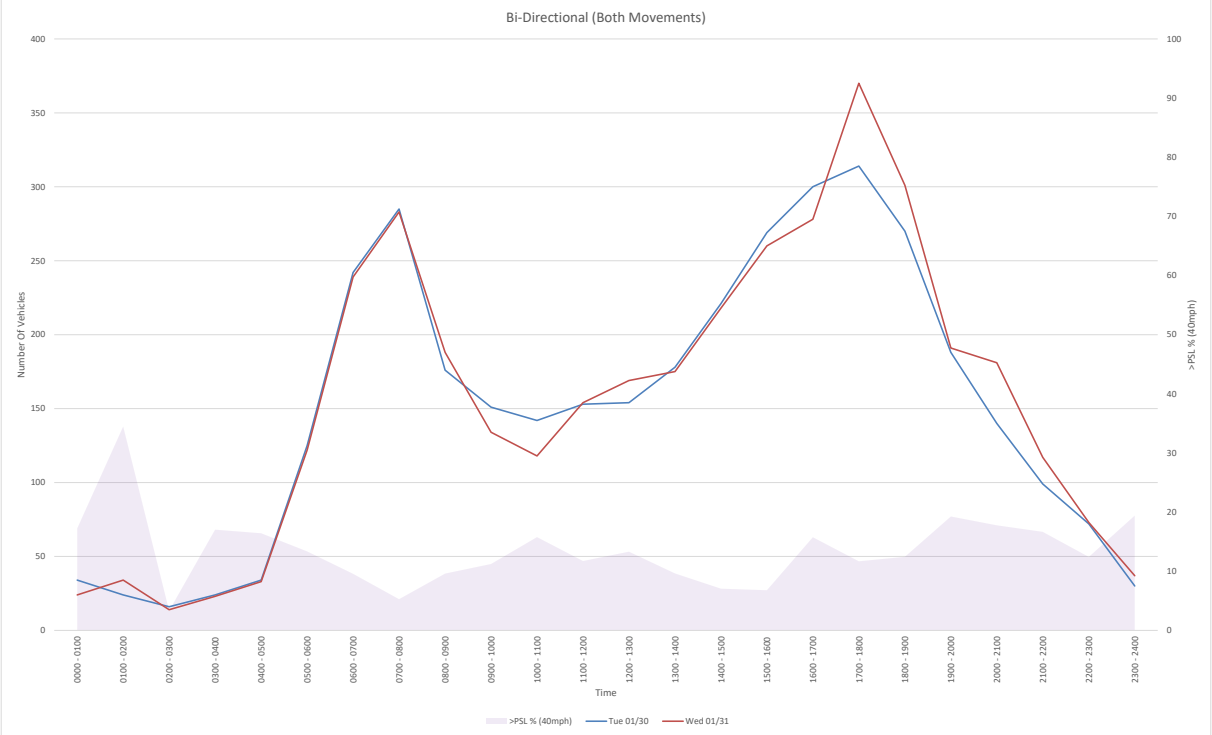
Lat/Long

35.722758°, -86.885532°

Click here for Map

0000 - 2400 (Weekday 24h Session)

Graphical Analysis Bi-Direction



Bi-Directional Speed & Class Count || NB EB 15min

Spring Hill, TN (Stone Creek)

Marr Traffic DATA COLLECTION
www.marrtraffic.com

Site 2
Rice Rd,
south of Revere Pl

Date
Tuesday, January 30, 2024

Lat/Long
35.723862°, -86.882647°

Weather
Mostly Cloudy
42°F

Click here for Detailed Weather

Click here for Map

0000 - 2400 (Weekday 24h Session)
NB EB 15min

	Northbound (Movement 2.1)													15min	60min
Time	Class 1	Class 2	Class 3	Class 4	Class 5	Class 6	Class 7	Class 8	Class 9	Class 10	Class 11	Class 12	Class 13	Total	Total
0000 - 0015	0	1	0	0	0	0	0	0	0	0	0	0	0	1	
0015 - 0030	0	6	0	0	2	0	0	0	0	0	0	0	0	8	
0030 - 0045	0	1	0	0	0	0	0	0	0	0	0	0	0	1	
0045 - 0100	0	2	0	0	0	0	0	0	0	0	0	0	0	2	12
0100 - 0115	0	0	1	0	0	0	0	0	0	0	0	0	0	1	
0115 - 0130	0	3	0	0	0	0	0	0	0	0	0	0	0	3	
0130 - 0145	0	5	0	0	0	0	0	0	0	0	0	0	0	5	
0145 - 0200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
0200 - 0215	0	1	0	0	0	0	0	0	0	0	0	0	0	1	
0215 - 0230	0	1	0	0	0	0	0	0	0	0	0	0	0	1	
0230 - 0245	0	2	0	0	0	0	0	0	0	0	0	0	0	2	
0245 - 0300	0	2	0	0	0	0	0	0	0	0	0	0	0	2	6
0300 - 0315	0	2	0	0	0	0	0	0	0	0	0	0	0	2	
0315 - 0330	0	1	0	0	0	0	0	0	0	0	0	0	0	1	
0330 - 0345	0	1	0	0	0	0	0	0	0	0	0	0	0	1	
0345 - 0400	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
0400 - 0415	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0415 - 0430	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0430 - 0445	0	2	1	0	1	0	0	0	0	0	0	0	0	4	
0445 - 0500	0	1	0	0	0	0	0	0	0	0	0	0	0	1	5
0500 - 0515	0	1	0	0	0	0	0	0	0	0	0	0	0	1	
0515 - 0530	0	2	0	0	0	0	0	0	0	0	0	0	0	2	
0530 - 0545	0	1	0	0	0	0	0	0	0	0	0	0	0	1	
0545 - 0600	0	2	0	0	0	0	0	0	0	0	0	0	0	2	6
0600 - 0615	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0615 - 0630	0	1	0	0	1	0	0	0	0	0	0	0	0	2	
0630 - 0645	0	4	0	0	1	0	0	0	0	0	0	0	0	5	
0645 - 0700	0	3	0	0	1	0	0	0	0	0	0	0	0	4	11
0700 - 0715	0	6	1	0	0	0	0	0	0	0	0	0	0	7	
0715 - 0730	0	1	1	0	1	0	0	0	0	0	0	0	0	3	
0730 - 0745	0	10	0	0	1	0	0	0	0	0	0	0	0	11	
0745 - 0800	0	12	2	0	3	0	0	0	0	0	0	0	0	17	38
0800 - 0815	0	13	0	0	0	0	0	0	0	0	0	0	0	13	
0815 - 0830	0	7	0	0	1	0	0	0	0	0	0	0	0	8	
0830 - 0845	0	3	1	0	2	0	0	0	0	0	0	0	0	6	
0845 - 0900	0	5	0	0	3	1	0	0	0	0	0	0	0	9	36
0900 - 0915	0	1	0	0	1	0	0	0	0	0	0	0	0	2	
0915 - 0930	0	5	0	0	1	0	0	0	0	0	0	0	0	6	
0930 - 0945	0	4	0	0	0	0	0	0	0	0	0	0	0	4	
0945 - 1000	0	3	0	0	0	0	0	0	0	0	0	0	0	3	15
1000 - 1015	0	7	0	0	0	0	0	0	0	0	0	0	0	7	
1015 - 1030	0	4	0	0	3	0	0	0	0	0	0	0	0	7	
1030 - 1045	0	8	1	0	3	0	0	0	0	0	0	0	0	12	
1045 - 1100	0	9	1	0	0	0	0	0	0	0	0	0	0	10	36
1100 - 1115	0	4	0	0	1	0	0	0	0	0	0	0	0	5	
1115 - 1130	0	4	0	0	2	0	0	0	0	0	0	0	0	6	
1130 - 1145	0	9	0	0	2	0	0	0	0	0	0	0	0	11	
1145 - 1200	0	7	1	0	3	0	0	0	0	0	0	0	0	11	33
1200 - 1215	0	4	0	0	1	0	0	0	0	0	0	0	0	5	
1215 - 1230	0	4	1	0	0	0	0	0	0	0	0	0	0	5	
1230 - 1245	0	8	0	0	1	0	0	0	0	0	0	0	0	9	
1245 - 1300	0	9	1	0	0	0	0	0	0	0	0	0	0	10	29
1300 - 1315	0	6	0	0	2	0	0	0	0	0	0	0	0	8	
1315 - 1330	0	8	2	0	0	0	0	0	0	0	0	0	0	10	
1330 - 1345	0	10	0	0	2	0	0	0	0	0	0	0	0	12	
1345 - 1400	0	7	0	0	1	0	0	0	0	0	0	0	0	8	38
1400 - 1415	0	8	2	0	2	0	0	0	0	0	0	0	0	12	
1415 - 1430	0	5	2	0	2	0	0	0	0	0	0	0	0	9	
1430 - 1445	0	15	0	0	1	0	0	0	0	0	0	0	0	16	
1445 - 1500	0	9	1	0	3	0	0	0	0	0	0	0	0	13	50
1500 - 1515	0	15	2	0	8	0	0	0	0	0	0	0	0	25	
1515 - 1530	0	14	2	0	2	0	0	0	0	0	0	0	0	18	
1530 - 1545	0	14	4	0	4	0	0	0	0	0	0	0	0	22	
1545 - 1600	0	11	2	0	1	0	0	0	0	0	0	0	0	14	79
1600 - 1615	0	13	1	0	3	0	0	0	0	0	0	0	0	17	
1615 - 1630	0	21	2	0	3	0	0	0	0	0	0	0	0	26	
1630 - 1645	0	19	0	0	2	0	0	0	0	0	0	0	0	21	
1645 - 1700	0	23	4	0	1	0	0	0	0	0	0	0	0	28	92
1700 - 1715	0	21	2	0	1	0	0	0	0	0	0	0	0	24	
1715 - 1730	0	24	2	0	4	0	0	0	0	0	0	0	0	30	
1730 - 1745	0	22	1	0	3	0	0	0	0	0	0	0	0	26	
1745 - 1800	0	20	1	0	3	0	0	0	0	0	0	0	0	24	104
1800 - 1815	0	21	2	0	1	0	0	0	0	0	0	0	0	24	
1815 - 1830	0	18	2	0	6	0	0	0	0	0	0	0	0	26	
1830 - 1845	0	27	1	0	0	0	0	0	0	0	0	0	0	28	
1845 - 1900	0	16	2	0	1	0	0	0	0	0	0	0	0	19	97
1900 - 1915	0	15	2	0	1	0	0	0	0	0	0	0	0	18	
1915 - 1930	0	13	1	0	1	0	0	0	0	0	0	0	0	15	
1930 - 1945	0	19	2	0	1	0	0	0	0	0	0	0	0	22	
1945 - 2000	0	17	0	0	1	0	0	0	0	0	0	0	0	18	73
2000 - 2015	0	8	1	0	2	0	0	0	0	0	0	0	0	11	
2015 - 2030	0	13	0	0	0	0	0	0	0	0	0	0	0	13	
2030 - 2045	0	9	1	0	0	0	0	0	0	0	0	0	0	10	
2045 - 2100	0	11	1	0	0	0	0	0	0	0	0	0	0	12	46
2100 - 2115	0	6	3	0	1	0	0	0	0	0	0	0	0	10	
2115 - 2130	0	10	0	0	2	0	0	0	0	0	0	0	0	12	
2130 - 2145	0	4	1	0	0	0	0	0	0	0	0	0	0	5	
2145 - 2200	0	9	0	0	0	0	0	0	0	0	0	0	0	9	36
2200 - 2215	0	3	2	0	1	0	0	0	0	0	0	0	0	6	
2215 - 2230	0	8	0	0	0	0	0	0	0	0	0	0	0	8	
2230 - 2245	0	8	0	0	0	0	0	0	0	0	0	0	0	8	
2245 - 2300	0	4	0	0	0	0	0	0	0	0	0	0	0	4	26
2300 - 2315	0	2	0	0	0	0	0	0	0	0	0	0	0	2	
2315 - 2330	0	2	0	0	0	0	0	0	0	0	0	0	0	2	
2330 - 2345	0	1	1	0	0	0	0	0	0	0	0	0	0	2	
2345 - 0000	0	1	0	0	0	0	0	0	0	0	0	0	0	1	7

Session Total	0	722	64	0	101	1	0	0	0	0	0	0	0	888
Session Average	0.00	7.52	0.67	0.00	1.05	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.25
Session Percentage	0.00	81.31	7.21	0.00	11.37	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

AM Peak Hour	-	0730 - 0830	0700 - 0800	-	0815 - 0915	0800 - 0900	-	-	-	-	-	-	-	0730 - 0830
AM Peak Hour Volume	0	42	4	0	7	1	0	0	0	0	0	0	0	49

Noon Peak Hour	-	1430 - 1530	1445 - 1545	-	1445 - 1545	-	-	-	-	-	-	-	-	1445 - 1545
Noon Peak Hour Volume	0	53	9	0	17	0	0	0	0	0	0	0	0	78

PM Peak Hour	-	1645 - 1745	1500 - 1600	-	1500 - 1600	-	-	-	-	-	-	-	-	1645 - 1745
PM Peak Hour Volume	0	90	10	0	15	0	0	0	0	0	0	0	0	108

Site 2
Rice Rd,
south of Revere Pl

Date
Wednesday, January 31, 2024

Weather
Mostly Cloudy
47°F

Click here for Detailed Weather

0000 - 2400 (Weekday 24h Session)
NB EB 15min

	Northbound (Movement 2.1)													15min	60min
Time	Class 1	Class 2	Class 3	Class 4	Class 5	Class 6	Class 7	Class 8	Class 9	Class 10	Class 11	Class 12	Class 13	Total	Total
0000 - 0015	0	2	0	0	0	0	0	0	0	0	0	0	0	**2**	
0015 - 0030	0	3	0	0	0	0	0	0	0	0	0	0	0	**3**	
0030 - 0045	0	2	1	0	0	0	0	0	0	0	0	0	0	**3**	
0045 - 0100	0	2	0	0	0	0	0	0	0	0	0	0	0	**2**	**10**
0100 - 0115	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
0115 - 0130	0	6	0	0	1	0	0	0	0	0	0	0	0	**7**	
0130 - 0145	0	4	0	0	0	0	0	0	0	0	0	0	0	**4**	
0145 - 0200	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**11**
0200 - 0215	0	3	0	0	0	0	0	0	0	0	0	0	0	**3**	
0215 - 0230	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
0230 - 0245	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
0245 - 0300	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**3**
0300 - 0315	0	2	0	0	0	0	0	0	0	0	0	0	0	**2**	
0315 - 0330	0	1	0	0	0	0	0	0	0	0	0	0	0	**1**	
0330 - 0345	0	1	0	0	0	0	0	0	0	0	0	0	0	**1**	
0345 - 0400	0	1	0	0	0	0	0	0	0	0	0	0	0	**1**	**5**
0400 - 0415	0	1	0	0	0	0	0	0	0	0	0	0	0	**1**	
0415 - 0430	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
0430 - 0445	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
0445 - 0500	0	1	0	0	1	0	0	0	0	0	0	0	0	**2**	**3**
0500 - 0515	0	1	0	0	0	0	0	0	0	0	0	0	0	**1**	
0515 - 0530	0	1	0	0	0	0	0	0	0	0	0	0	0	**1**	
0530 - 0545	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
0545 - 0600	0	1	0	0	0	0	0	0	0	0	0	0	0	**1**	**3**
0600 - 0615	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
0615 - 0630	0	3	0	0	1	0	0	0	0	0	0	0	0	**4**	
0630 - 0645	0	3	0	0	2	0	0	0	0	0	0	0	0	**5**	
0645 - 0700	0	3	2	0	2	0	0	0	0	0	0	0	0	**7**	**16**
0700 - 0715	0	7	0	0	0	0	0	0	0	0	0	0	0	**7**	
0715 - 0730	0	6	2	0	1	0	0	0	0	0	0	0	0	**9**	
0730 - 0745	0	10	2	0	1	0	0	0	0	0	0	0	0	**13**	
0745 - 0800	0	9	1	0	4	0	0	0	0	0	0	0	0	**14**	**43**
0800 - 0815	0	6	2	0	1	0	0	0	0	0	0	0	0	**9**	
0815 - 0830	0	8	0	0	0	0	0	0	0	0	0	0	0	**8**	
0830 - 0845	0	5	3	0	0	0	0	0	0	0	0	0	0	**8**	
0845 - 0900	0	7	0	0	1	0	0	0	0	0	0	0	0	**8**	**33**
0900 - 0915	0	3	1	0	0	0	0	0	0	0	0	0	0	**4**	
0915 - 0930	0	8	0	0	1	0	0	0	0	0	0	0	0	**9**	
0930 - 0945	0	8	0	0	0	0	0	0	0	0	0	0	0	**8**	
0945 - 1000	0	3	0	0	1	0	0	0	0	0	0	0	0	**4**	**25**
1000 - 1015	0	5	0	0	1	0	0	0	0	0	0	0	0	**6**	
1015 - 1030	0	3	0	0	0	0	0	0	0	0	0	0	0	**3**	
1030 - 1045	0	3	0	0	0	0	0	0	0	0	0	0	0	**3**	
1045 - 1100	0	5	0	0	2	0	0	0	0	0	0	0	0	**7**	**19**
1100 - 1115	0	7	0	0	1	0	0	0	0	0	0	0	0	**8**	
1115 - 1130	0	6	1	0	2	0	0	0	0	0	0	0	0	**9**	
1130 - 1145	0	13	1	0	0	0	0	0	0	0	0	0	0	**14**	
1145 - 1200	0	5	1	0	2	0	0	0	0	0	0	0	0	**8**	**39**
1200 - 1215	0	7	2	0	2	0	0	0	0	0	0	0	0	**11**	
1215 - 1230	0	10	1	0	2	0	0	0	0	0	0	0	0	**13**	
1230 - 1245	0	8	2	0	1	0	0	0	0	0	0	0	0	**11**	
1245 - 1300	0	12	1	0	1	0	0	0	0	0	0	0	0	**14**	**49**
1300 - 1315	0	9	2	0	2	0	0	0	0	0	0	0	0	**13**	
1315 - 1330	0	10	0	0	1	0	0	0	0	0	0	0	0	**11**	
1330 - 1345	0	11	2	1	1	0	0	0	0	0	0	0	0	**15**	
1345 - 1400	0	11	0	0	2	0	0	0	0	0	0	0	0	**13**	**52**
1400 - 1415	0	6	1	0	1	0	0	0	0	0	0	0	0	**8**	
1415 - 1430	0	12	2	0	5	0	0	0	0	0	0	0	0	**19**	
1430 - 1445	0	14	2	0	2	0	0	0	0	0	0	0	0	**18**	
1445 - 1500	0	8	0	0	0	0	0	0	0	0	0	0	0	**8**	**53**
1500 - 1515	0	15	1	1	5	0	0	0	0	0	0	0	0	**22**	
1515 - 1530	1	15	1	0	5	0	0	0	0	0	0	0	0	**22**	
1530 - 1545	0	6	1	0	0	0	0	0	0	0	0	0	0	**7**	
1545 - 1600	0	18	0	0	1	0	0	0	0	0	0	0	0	**19**	**70**
1600 - 1615	0	15	3	0	3	0	0	0	0	0	0	0	0	**21**	
1615 - 1630	0	17	1	0	3	0	0	0	0	0	0	0	0	**21**	
1630 - 1645	0	19	4	0	3	0	0	0	0	0	0	0	0	**26**	
1645 - 1700	0	21	1	0	2	0	0	0	0	0	0	0	0	**24**	**92**
1700 - 1715	0	23	1	0	2	0	0	0	0	0	0	0	0	**26**	
1715 - 1730	1	21	3	0	2	0	1	0	0	0	0	0	0	**28**	
1730 - 1745	0	23	4	0	4	0	0	0	0	0	0	0	0	**31**	
1745 - 1800	0	24	0	0	2	0	0	0	0	0	0	0	0	**26**	**111**
1800 - 1815	0	27	1	0	4	0	0	0	0	0	0	0	0	**32**	
1815 - 1830	0	25	2	0	5	0	0	0	0	0	0	0	0	**32**	
1830 - 1845	0	18	1	0	2	1	0	0	0	0	0	0	0	**22**	
1845 - 1900	0	13	2	0	1	0	0	0	0	0	0	0	0	**16**	**102**
1900 - 1915	0	13	1	0	2	0	0	0	0	0	0	0	0	**16**	
1915 - 1930	0	15	2	0	3	0	0	0	0	0	0	0	0	**20**	
1930 - 1945	0	19	0	0	1	0	0	0	0	0	0	0	0	**20**	
1945 - 2000	0	13	0	0	3	0	0	0	0	0	0	0	0	**16**	**72**
2000 - 2015	0	13	1	0	2	0	0	0	0	0	0	0	0	**16**	
2015 - 2030	0	17	1	0	1	0	0	0	0	0	0	0	0	**19**	
2030 - 2045	0	11	1	0	1	0	0	0	0	0	0	0	0	**13**	
2045 - 2100	0	11	0	0	0	0	0	0	0	0	0	0	0	**11**	**59**
2100 - 2115	0	13	0	0	1	0	0	0	0	0	0	0	0	**14**	
2115 - 2130	0	11	0	0	2	0	0	0	0	0	0	0	0	**13**	
2130 - 2145	0	7	1	0	0	0	0	0	0	0	0	0	0	**8**	
2145 - 2200	0	4	0	0	0	0	0	0	0	0	0	0	0	**4**	**39**
2200 - 2215	0	6	1	0	0	0	0	0	0	0	0	0	0	**7**	
2215 - 2230	0	7	1	0	0	0	0	0	0	0	0	0	0	**8**	
2230 - 2245	0	4	0	0	1	0	0	0	0	0	0	0	0	**5**	
2245 - 2300	0	3	0	0	1	0	0	0	0	0	0	0	0	**4**	**24**
2300 - 2315	0	6	0	0	0	0	0	0	0	0	0	0	0	**6**	
2315 - 2330	0	4	0	0	0	0	0	0	0	0	0	0	0	**4**	
2330 - 2345	0	1	0	0	0	0	0	0	0	0	0	0	0	**1**	
2345 - 0000	0	6	1	0	0	0	0	0	0	0	0	0	0	**7**	**18**

Session Total	2	770	68	2	107	1	1	0	0	0	0	0	0	**951**
Session Average	0.02	8.02	0.71	0.02	1.11	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	**9.91**
Session Percentage	0.21	80.97	7.15	0.21	11.25	0.11	0.11	0.00	0.00	0.00	0.00	0.00	0.00	

AM Peak Hour	-	0730 - 0830	0715 - 0815	-	0715 - 0815	-	-	-	-	-	-	-	-	**0715 - 0815**
AM Peak Hour Volume	0	33	7	0	7	0	0	0	0	0	0	0	0	**45**

Noon Peak Hour	1430 - 1530	1430 - 1530	1145 - 1245	1245 - 1345	1415 - 1515	-	-	-	-	-	-	-	-	**1430 - 1530**
Noon Peak Hour Volume	1	52	6	1	12	0	0	0	0	0	0	0	0	**70**

PM Peak Hour	1500 - 1600	1730 - 1830	1600 - 1700	1500 - 1600	1730 - 1830	1745 - 1845	1630 - 1730	-	-	-	-	-	-	**1730 - 1830**
PM Peak Hour Volume	1	99	9	1	15	1	1	0	0	0	0	0	0	**121**

Bi-Directional Speed & Class Count || SB WB 15min

Spring Hill, TN (Stone Creek)

Marr Traffic DATA COLLECTION
www.marrtraffic.com

Site 2
Rice Rd,
south of Revere Pl

Date
Tuesday, January 30, 2024

Lat/Long
35.723862°, -86.882647°

Weather
Mostly Cloudy
42°F

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0000 - 2400 (Weekday 24h Session)
SB WB 15min

	Southbound (Movement 2.2)													15min	60min
Time	Class 1	Class 2	Class 3	Class 4	Class 5	Class 6	Class 7	Class 8	Class 9	Class 10	Class 11	Class 12	Class 13	Total	Total
0000 - 0015	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
0015 - 0030	0	2	0	0	0	0	0	0	0	0	0	0	0	**2**	
0030 - 0045	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
0045 - 0100	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**2**
0100 - 0115	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
0115 - 0130	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
0130 - 0145	0	1	1	0	0	0	0	0	0	0	0	0	0	**2**	
0145 - 0200	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**2**
0200 - 0215	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
0215 - 0230	0	1	0	0	0	0	0	0	0	0	0	0	0	**1**	
0230 - 0245	0	1	0	0	0	0	0	0	0	0	0	0	0	**1**	
0245 - 0300	0	1	0	0	0	0	0	0	0	0	0	0	0	**1**	**3**
0300 - 0315	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
0315 - 0330	0	1	0	0	0	0	0	0	0	0	0	0	0	**1**	
0330 - 0345	0	0	1	0	0	0	0	0	0	0	0	0	0	**1**	
0345 - 0400	0	1	1	0	0	0	0	0	0	0	0	0	0	**2**	**4**
0400 - 0415	0	1	1	0	0	0	0	0	0	0	0	0	0	**2**	
0415 - 0430	0	2	0	0	0	0	0	0	0	0	0	0	0	**2**	
0430 - 0445	0	2	0	0	0	0	0	0	0	0	0	0	0	**2**	
0445 - 0500	0	5	0	0	2	0	0	0	0	0	0	0	0	**7**	**13**
0500 - 0515	0	6	1	0	2	0	0	0	0	0	0	0	0	**9**	
0515 - 0530	0	3	4	0	3	0	0	0	0	0	0	0	0	**10**	
0530 - 0545	0	12	2	0	0	0	0	0	0	0	0	0	0	**14**	
0545 - 0600	0	12	3	0	1	0	0	0	0	0	0	0	0	**16**	**49**
0600 - 0615	0	18	6	0	1	0	0	0	0	0	0	0	0	**25**	
0615 - 0630	0	17	6	0	2	0	0	0	0	0	0	0	0	**25**	
0630 - 0645	0	15	3	0	4	0	0	0	0	0	0	0	0	**22**	
0645 - 0700	0	31	2	0	0	0	0	0	0	0	0	0	0	**33**	**105**
0700 - 0715	0	27	6	0	1	0	0	0	0	0	0	0	0	**34**	
0715 - 0730	0	25	2	0	1	0	0	0	0	0	0	0	0	**28**	
0730 - 0745	0	25	5	0	0	1	0	0	0	0	0	0	0	**31**	
0745 - 0800	0	26	3	0	2	0	0	0	0	0	0	0	0	**31**	**124**
0800 - 0815	0	24	1	0	1	0	0	0	0	0	0	0	0	**26**	
0815 - 0830	0	6	1	0	0	0	0	0	0	0	0	0	0	**7**	
0830 - 0845	0	12	1	0	0	0	0	0	0	0	0	0	0	**13**	
0845 - 0900	0	9	0	0	0	0	0	0	0	0	0	0	0	**9**	**55**
0900 - 0915	0	12	1	0	1	1	0	0	0	0	0	0	0	**15**	
0915 - 0930	0	14	2	0	1	0	0	0	0	0	0	0	0	**17**	
0930 - 0945	1	11	0	0	1	0	0	0	0	0	0	0	0	**13**	
0945 - 1000	0	5	1	0	1	0	0	0	0	0	0	0	0	**7**	**52**
1000 - 1015	0	5	1	0	2	0	0	0	0	0	0	0	0	**8**	
1015 - 1030	0	9	0	0	2	0	0	0	0	0	0	0	0	**11**	
1030 - 1045	0	5	0	0	2	0	0	0	0	0	0	0	0	**7**	
1045 - 1100	0	9	0	0	0	0	0	0	0	0	0	0	0	**9**	**35**
1100 - 1115	0	5	0	0	1	0	0	0	0	0	0	0	0	**6**	
1115 - 1130	0	4	2	0	0	0	0	0	0	0	0	0	0	**6**	
1130 - 1145	0	10	0	0	1	0	0	0	0	0	0	0	0	**11**	
1145 - 1200	0	8	1	0	2	0	0	0	0	0	0	0	0	**11**	**34**
1200 - 1215	0	12	0	0	0	0	0	0	0	0	0	0	0	**12**	
1215 - 1230	0	4	1	0	1	0	0	0	0	0	0	0	0	**6**	
1230 - 1245	0	6	1	0	3	0	0	0	0	0	0	0	0	**10**	
1245 - 1300	0	10	1	0	0	0	0	0	0	0	0	0	0	**11**	**39**
1300 - 1315	0	10	2	0	0	0	0	0	0	0	0	0	0	**12**	
1315 - 1330	0	13	0	1	0	0	0	0	0	0	0	0	0	**14**	
1330 - 1345	0	12	0	0	0	0	0	0	0	0	0	0	0	**12**	
1345 - 1400	0	6	1	0	1	0	0	0	0	0	0	0	0	**8**	**46**
1400 - 1415	0	10	3	0	0	0	0	0	0	0	0	0	0	**13**	
1415 - 1430	0	15	1	0	2	0	0	0	0	0	0	0	0	**18**	
1430 - 1445	0	9	1	0	0	0	0	0	0	0	0	0	0	**10**	
1445 - 1500	0	14	3	0	2	0	0	0	0	0	0	0	0	**19**	**60**
1500 - 1515	0	11	1	0	1	0	0	0	0	0	0	0	0	**13**	
1515 - 1530	0	16	1	0	0	0	0	0	0	0	0	0	0	**17**	
1530 - 1545	0	9	2	0	0	0	0	0	0	0	0	0	0	**11**	
1545 - 1600	0	4	2	0	0	0	0	0	0	0	0	0	0	**6**	**47**
1600 - 1615	0	10	0	0	0	0	0	0	0	0	0	0	0	**10**	
1615 - 1630	0	10	1	0	0	0	0	0	0	0	0	0	0	**11**	
1630 - 1645	0	12	3	0	1	0	0	0	0	0	0	0	0	**16**	
1645 - 1700	0	12	1	0	0	0	0	0	0	0	0	0	0	**13**	**50**
1700 - 1715	0	7	1	0	0	0	0	0	0	1	0	0	0	**9**	
1715 - 1730	0	13	1	0	0	0	0	0	0	0	0	0	0	**14**	
1730 - 1745	0	6	0	0	0	0	0	0	0	0	0	0	0	**6**	
1745 - 1800	0	18	0	0	1	0	0	0	0	0	0	0	0	**19**	**48**
1800 - 1815	0	13	0	0	1	0	0	0	0	0	0	0	0	**14**	
1815 - 1830	0	8	1	0	0	0	0	0	0	0	0	0	0	**9**	
1830 - 1845	0	9	0	0	0	0	0	0	0	0	0	0	0	**9**	
1845 - 1900	0	5	2	0	0	0	0	0	0	0	0	0	0	**7**	**39**
1900 - 1915	0	7	0	0	0	0	0	0	0	0	0	0	0	**7**	
1915 - 1930	0	6	0	0	2	0	0	0	0	0	0	0	0	**8**	
1930 - 1945	0	6	2	0	1	0	0	0	0	0	0	0	0	**9**	
1945 - 2000	0	7	0	0	0	0	0	0	0	0	0	0	0	**7**	**31**
2000 - 2015	0	4	0	0	0	0	0	0	0	0	0	0	0	**4**	
2015 - 2030	0	3	0	0	0	0	0	0	0	0	0	0	0	**3**	
2030 - 2045	0	2	0	0	0	0	0	0	0	0	0	0	0	**2**	
2045 - 2100	0	3	1	0	0	0	0	0	0	0	0	0	0	**4**	**13**
2100 - 2115	0	5	0	0	1	0	0	0	0	0	0	0	0	**6**	
2115 - 2130	0	1	0	0	0	0	0	0	0	0	0	0	0	**1**	
2130 - 2145	0	5	0	0	1	0	0	0	0	0	0	0	0	**6**	
2145 - 2200	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**13**
2200 - 2215	0	3	0	0	0	0	0	0	0	0	0	0	0	**3**	
2215 - 2230	0	2	0	0	0	0	0	0	0	0	0	0	0	**2**	
2230 - 2245	0	0	1	0	0	0	0	0	0	0	0	0	0	**1**	
2245 - 2300	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**6**
2300 - 2315	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
2315 - 2330	0	1	0	0	0	0	0	0	0	0	0	0	0	**1**	
2330 - 2345	0	1	0	0	0	0	0	0	0	0	0	0	0	**1**	
2345 - 0000	0	2	0	0	0	0	0	0	0	0	0	0	0	**2**	**4**

Session Total	1	725	92	1	52	2	0	0	0	1	0	0	0	**874**
Session Average	0.01	7.55	0.96	0.01	0.54	0.02	0.00	0.00	0.00	0.01	0.00	0.00	0.00	**9.10**
Session Percentage	0.11	82.95	10.53	0.11	5.95	0.23	0.00	0.00	0.00	0.11	0.00	0.00	0.00	

AM Peak Hour	0845 - 0945	0645 - 0745	0545 - 0645	-	0545 - 0645	0645 - 0745	-	-	-	-	-	-	-	**0645 - 0745**
AM Peak Hour Volume	1	108	18	0	8	1	0	0	0	0	0	0	0	**126**

Noon Peak Hour	-	1430 - 1530	1400 - 1500	1230 - 1330	1000 - 1100	-	-	-	-	-	-	-	-	**1400 - 1500**
Noon Peak Hour Volume	0	50	8	1	6	0	0	0	0	0	0	0	0	**60**

PM Peak Hour	-	1715 - 1815	1500 - 1600	-	1845 - 1945	-	-	-	-	1615 - 1715	-	-	-	**1715 - 1815**
PM Peak Hour Volume	0	50	6	0	3	0	0	0	0	1	0	0	0	**53**

Site 2
Rice Rd,
south of Revere Pl

Date
Wednesday, January 31, 2024

Weather
Mostly Cloudy
47°F

Click here for Detailed Weather

0000 - 2400 (Weekday 24h Session)
SB WB 15min

	Southbound (Movement 2.2)													15min	60min
Time	Class 1	Class 2	Class 3	Class 4	Class 5	Class 6	Class 7	Class 8	Class 9	Class 10	Class 11	Class 12	Class 13	Total	Total
0000 - 0015	0	1	0	0	0	0	0	0	0	0	0	0	0	**1**	
0015 - 0030	0	2	0	0	0	0	0	0	0	0	0	0	0	**2**	
0030 - 0045	0	1	0	0	0	0	0	0	0	0	0	0	0	**1**	
0045 - 0100	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**4**
0100 - 0115	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
0115 - 0130	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
0130 - 0145	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
0145 - 0200	0	0	1	0	0	0	0	0	0	0	0	0	0	**1**	**1**
0200 - 0215	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
0215 - 0230	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
0230 - 0245	0	1	0	0	0	0	0	0	0	0	0	0	0	**1**	
0245 - 0300	0	1	0	0	0	0	0	0	0	0	0	0	0	**1**	**2**
0300 - 0315	0	1	1	0	0	0	0	0	0	0	0	0	0	**2**	
0315 - 0330	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
0330 - 0345	0	1	0	0	0	0	0	0	0	0	0	0	0	**1**	
0345 - 0400	0	2	0	0	0	0	0	0	0	0	0	0	0	**2**	**5**
0400 - 0415	0	2	0	0	0	0	0	0	0	0	0	0	0	**2**	
0415 - 0430	0	2	0	0	0	0	0	0	0	0	0	0	0	**2**	
0430 - 0445	0	3	1	0	0	0	0	0	0	0	0	0	0	**4**	
0445 - 0500	0	4	0	0	0	0	0	0	0	0	0	0	0	**4**	**12**
0500 - 0515	0	5	1	0	1	0	0	0	0	0	0	0	0	**7**	
0515 - 0530	0	6	4	0	2	0	0	0	0	0	0	0	0	**12**	
0530 - 0545	0	13	2	0	0	0	0	0	0	0	0	0	0	**15**	
0545 - 0600	0	9	5	0	0	0	0	0	0	0	0	0	0	**14**	**48**
0600 - 0615	0	16	5	0	1	0	0	0	0	0	0	0	0	**22**	
0615 - 0630	0	20	5	0	0	0	0	0	0	0	0	0	0	**25**	
0630 - 0645	0	21	5	0	3	0	0	0	0	0	0	0	0	**29**	
0645 - 0700	0	24	5	0	1	0	0	0	0	0	0	0	0	**30**	**106**
0700 - 0715	0	29	4	0	0	0	0	0	0	0	0	0	0	**33**	
0715 - 0730	0	29	1	0	2	0	0	0	0	0	0	0	0	**32**	
0730 - 0745	0	23	2	0	0	0	0	0	0	0	0	0	0	**25**	
0745 - 0800	0	22	4	0	1	0	0	0	0	0	0	0	0	**27**	**117**
0800 - 0815	0	10	0	0	0	0	0	0	0	0	0	0	0	**10**	
0815 - 0830	0	18	0	0	0	0	0	0	0	0	0	0	0	**18**	
0830 - 0845	0	9	1	0	0	0	0	0	0	0	0	0	0	**10**	
0845 - 0900	0	17	1	0	0	0	0	0	0	0	0	0	0	**18**	**56**
0900 - 0915	0	4	0	0	0	0	0	0	0	0	0	0	0	**4**	
0915 - 0930	0	15	1	0	0	0	0	0	0	0	0	0	0	**16**	
0930 - 0945	0	5	1	0	0	0	0	0	0	0	0	0	0	**6**	
0945 - 1000	1	7	1	0	1	0	0	0	0	0	0	0	0	**10**	**36**
1000 - 1015	0	6	1	0	1	0	0	0	0	0	0	0	0	**8**	
1015 - 1030	0	6	1	0	1	0	0	0	0	0	0	0	0	**8**	
1030 - 1045	0	4	2	0	0	0	0	0	0	0	0	0	0	**6**	
1045 - 1100	0	12	1	0	0	0	0	0	0	0	0	0	0	**13**	**35**
1100 - 1115	0	5	0	0	1	0	0	0	0	0	0	0	0	**6**	
1115 - 1130	0	9	3	0	2	0	0	0	0	0	0	0	0	**14**	
1130 - 1145	0	11	1	0	0	0	0	0	0	0	0	0	0	**12**	
1145 - 1200	0	7	1	0	0	0	0	0	0	0	0	0	0	**8**	**40**
1200 - 1215	0	15	0	0	0	0	0	0	0	0	0	0	0	**15**	
1215 - 1230	0	7	1	0	1	0	0	0	0	0	0	0	0	**9**	
1230 - 1245	0	5	0	0	1	0	0	0	0	0	0	0	0	**6**	
1245 - 1300	0	7	0	0	1	0	0	0	0	0	0	0	0	**8**	**38**
1300 - 1315	0	13	2	0	0	0	0	0	0	0	0	0	0	**15**	
1315 - 1330	0	5	1	0	0	0	0	0	0	0	0	0	0	**6**	
1330 - 1345	0	15	0	1	0	0	0	0	0	0	0	0	0	**16**	
1345 - 1400	0	6	3	0	0	0	0	0	0	0	0	0	0	**9**	**46**
1400 - 1415	0	14	1	0	0	0	0	0	0	0	0	0	0	**15**	
1415 - 1430	0	11	4	0	6	0	0	0	0	0	0	0	0	**21**	
1430 - 1445	0	14	2	0	1	0	0	0	0	0	0	0	0	**17**	
1445 - 1500	0	15	1	0	1	0	0	0	0	0	0	0	0	**17**	**70**
1500 - 1515	0	8	0	0	0	0	0	0	0	0	0	0	0	**8**	
1515 - 1530	0	14	0	0	1	0	0	0	0	0	0	0	0	**15**	
1530 - 1545	0	10	0	0	0	0	0	0	0	0	0	0	0	**10**	
1545 - 1600	0	6	0	0	0	0	0	0	0	0	0	0	0	**6**	**39**
1600 - 1615	0	14	2	0	1	0	0	0	0	0	0	0	0	**17**	
1615 - 1630	0	5	0	0	0	0	0	0	0	0	0	0	0	**5**	
1630 - 1645	0	13	2	0	1	0	0	0	0	0	0	0	0	**16**	
1645 - 1700	0	12	3	0	1	0	0	0	0	0	0	0	0	**16**	**54**
1700 - 1715	0	17	1	0	2	0	0	0	0	0	0	0	0	**20**	
1715 - 1730	0	13	0	0	0	0	0	0	0	0	0	0	0	**13**	
1730 - 1745	0	10	2	0	0	0	0	0	0	0	0	0	0	**12**	
1745 - 1800	0	14	0	0	0	0	0	0	0	0	0	0	0	**14**	**59**
1800 - 1815	0	11	1	0	0	0	0	0	0	0	0	0	0	**12**	
1815 - 1830	0	13	2	0	0	0	0	0	0	0	0	0	0	**15**	
1830 - 1845	0	14	0	0	0	0	0	0	0	0	0	0	0	**14**	
1845 - 1900	0	7	2	0	2	0	0	0	0	0	0	0	0	**11**	**52**
1900 - 1915	0	4	0	0	0	0	0	0	0	0	0	0	0	**4**	
1915 - 1930	0	4	1	0	0	0	0	0	0	0	0	0	0	**5**	
1930 - 1945	0	4	0	0	0	0	0	0	0	0	0	0	0	**4**	
1945 - 2000	0	4	0	0	0	0	0	0	0	0	0	0	0	**4**	**17**
2000 - 2015	0	3	1	0	0	0	0	0	0	0	0	0	0	**4**	
2015 - 2030	0	8	0	0	0	0	0	0	0	0	0	0	0	**8**	
2030 - 2045	0	7	0	0	0	0	0	0	0	0	0	0	0	**7**	
2045 - 2100	0	7	1	0	0	0	0	0	0	0	0	0	0	**8**	**27**
2100 - 2115	0	2	0	0	0	0	0	0	0	0	0	0	0	**2**	
2115 - 2130	0	5	0	0	0	0	0	0	0	0	0	0	0	**5**	
2130 - 2145	0	2	0	0	0	0	0	0	0	0	0	0	0	**2**	
2145 - 2200	0	2	0	0	0	0	0	0	0	0	0	0	0	**2**	**11**
2200 - 2215	0	2	0	0	0	0	0	0	0	0	0	0	0	**2**	
2215 - 2230	0	5	1	0	0	0	0	0	0	0	0	0	0	**6**	
2230 - 2245	0	2	0	0	0	0	0	0	0	0	0	0	0	**2**	
2245 - 2300	0	1	0	0	0	0	0	0	0	0	0	0	0	**1**	**11**
2300 - 2315	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
2315 - 2330	0	1	0	0	0	0	0	0	0	0	0	0	0	**1**	
2330 - 2345	0	1	0	0	0	0	0	0	0	0	0	0	0	**1**	
2345 - 0000	0	2	0	0	0	0	0	0	0	0	0	0	0	**2**	**4**

Session Total	1	757	95	1	36	0	0	0	0	0	0	0	0	**890**
Session Average	0.01	7.89	0.99	0.01	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**9.27**
Session Percentage	0.11	85.06	10.67	0.11	4.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

AM Peak Hour	0900 - 1000	0645 - 0745	0545 - 0645	-	0630 - 0730	-	-	-	-	-	-	-	-	**0630 - 0730**
AM Peak Hour Volume	1	105	20	0	6	0	0	0	0	0	0	0	0	**124**

Noon Peak Hour	-	1400 - 1500	1345 - 1445	1245 - 1345	1400 - 1500	-	-	-	-	-	-	-	-	**1400 - 1500**
Noon Peak Hour Volume	0	54	10	1	8	0	0	0	0	0	0	0	0	**70**

PM Peak Hour	-	1630 - 1730	1600 - 1700	-	1615 - 1715	-	-	-	-	-	-	-	-	**1630 - 1730**
PM Peak Hour Volume	0	55	7	0	4	0	0	0	0	0	0	0	0	**65**

Bi-Directional Speed & Class Count || NB EB Speed 15min

Spring Hill, TN (Stone Creek)

Marr Traffic DATA COLLECTION
www.marrtraffic.com

Site 2
Rice Rd,
south of Revere Pl

Date
Tuesday, January 30, 2024

Lat/Long
35.723862°, -86.882647°

Weather
Mostly Cloudy
42°F

Click here for Detailed Weather

Click here for Map

0000 - 2400 (Weekday 24h Session)
NB EB Speed 15min

	Northbound (Movement 2.1)															15min
Time	5-14 mph	15-19 mph	20-24 mph	25-29 mph	30-34 mph	35-39 mph	40-44 mph	45-49 mph	50-54 mph	55-59 mph	60-64 mph	65-69 mph	70-74 mph	75-79 mph	80-99 mph	Total
0000 - 0015	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	**1**
0015 - 0030	0	1	1	1	5	0	0	0	0	0	0	0	0	0	0	**8**
0030 - 0045	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	**1**
0045 - 0100	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	**2**
0100 - 0115	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**1**
0115 - 0130	0	0	0	1	0	2	0	0	0	0	0	0	0	0	0	**3**
0130 - 0145	0	0	0	1	2	1	0	1	0	0	0	0	0	0	0	**5**
0145 - 0200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
0200 - 0215	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	**1**
0215 - 0230	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	**1**
0230 - 0245	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	**2**
0245 - 0300	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	**2**
0300 - 0315	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	**2**
0315 - 0330	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	**1**
0330 - 0345	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	**1**
0345 - 0400	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
0400 - 0415	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
0415 - 0430	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
0430 - 0445	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	**4**
0445 - 0500	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	**1**
0500 - 0515	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	**1**
0515 - 0530	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	**2**
0530 - 0545	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	**1**
0545 - 0600	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	**2**
0600 - 0615	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
0615 - 0630	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	**2**
0630 - 0645	0	0	1	2	2	0	0	0	0	0	0	0	0	0	0	**5**
0645 - 0700	0	1	0	1	1	1	0	0	0	0	0	0	0	0	0	**4**
0700 - 0715	0	0	0	1	2	3	1	0	0	0	0	0	0	0	0	**7**
0715 - 0730	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0	**3**
0730 - 0745	0	0	0	8	3	0	0	0	0	0	0	0	0	0	0	**11**
0745 - 0800	0	0	0	8	8	1	0	0	0	0	0	0	0	0	0	**17**
0800 - 0815	0	0	0	7	2	2	2	0	0	0	0	0	0	0	0	**13**
0815 - 0830	0	0	2	3	0	1	2	0	0	0	0	0	0	0	0	**8**
0830 - 0845	0	0	0	2	1	2	1	0	0	0	0	0	0	0	0	**6**
0845 - 0900	0	1	2	4	1	1	0	0	0	0	0	0	0	0	0	**9**
0900 - 0915	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	**2**
0915 - 0930	0	1	0	3	0	1	0	1	0	0	0	0	0	0	0	**6**
0930 - 0945	0	0	0	2	1	0	0	1	0	0	0	0	0	0	0	**4**
0945 - 1000	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	**3**
1000 - 1015	0	0	0	3	3	0	0	1	0	0	0	0	0	0	0	**7**
1015 - 1030	0	0	1	1	2	2	1	0	0	0	0	0	0	0	0	**7**
1030 - 1045	0	1	0	5	2	4	0	0	0	0	0	0	0	0	0	**12**
1045 - 1100	0	0	2	2	4	1	1	0	0	0	0	0	0	0	0	**10**
1100 - 1115	0	1	0	2	1	1	0	0	0	0	0	0	0	0	0	**5**
1115 - 1130	0	0	1	4	1	0	0	0	0	0	0	0	0	0	0	**6**
1130 - 1145	0	0	1	5	4	1	0	0	0	0	0	0	0	0	0	**11**
1145 - 1200	0	0	1	5	2	3	0	0	0	0	0	0	0	0	0	**11**
1200 - 1215	0	0	1	2	1	1	0	0	0	0	0	0	0	0	0	**5**
1215 - 1230	0	0	0	1	2	1	1	0	0	0	0	0	0	0	0	**5**
1230 - 1245	0	0	1	4	3	0	1	0	0	0	0	0	0	0	0	**9**
1245 - 1300	1	0	0	3	5	1	0	0	0	0	0	0	0	0	0	**10**
1300 - 1315	0	1	1	3	3	0	0	0	0	0	0	0	0	0	0	**8**
1315 - 1330	0	0	2	4	2	2	0	0	0	0	0	0	0	0	0	**10**
1330 - 1345	0	0	1	7	4	0	0	0	0	0	0	0	0	0	0	**12**
1345 - 1400	0	1	0	2	4	0	1	0	0	0	0	0	0	0	0	**8**
1400 - 1415	0	0	5	5	1	1	0	0	0	0	0	0	0	0	0	**12**
1415 - 1430	0	0	1	3	4	1	0	0	0	0	0	0	0	0	0	**9**
1430 - 1445	0	1	3	10	2	0	0	0	0	0	0	0	0	0	0	**16**
1445 - 1500	0	1	2	4	6	0	0	0	0	0	0	0	0	0	0	**13**
1500 - 1515	0	1	6	8	7	2	1	0	0	0	0	0	0	0	0	**25**
1515 - 1530	0	1	4	8	4	1	0	0	0	0	0	0	0	0	0	**18**
1530 - 1545	0	0	2	9	6	3	2	0	0	0	0	0	0	0	0	**22**
1545 - 1600	1	0	3	5	2	2	1	0	0	0	0	0	0	0	0	**14**
1600 - 1615	0	1	5	6	4	1	0	0	0	0	0	0	0	0	0	**17**
1615 - 1630	0	1	2	11	9	3	0	0	0	0	0	0	0	0	0	**26**
1630 - 1645	0	1	2	6	11	0	1	0	0	0	0	0	0	0	0	**21**
1645 - 1700	0	1	4	12	10	1	0	0	0	0	0	0	0	0	0	**28**
1700 - 1715	0	1	4	9	10	0	0	0	0	0	0	0	0	0	0	**24**
1715 - 1730	1	0	4	16	8	1	0	0	0	0	0	0	0	0	0	**30**
1730 - 1745	0	0	2	11	9	3	1	0	0	0	0	0	0	0	0	**26**
1745 - 1800	1	3	4	9	6	1	0	0	0	0	0	0	0	0	0	**24**
1800 - 1815	0	1	0	12	8	3	0	0	0	0	0	0	0	0	0	**24**
1815 - 1830	0	2	4	9	8	2	1	0	0	0	0	0	0	0	0	**26**
1830 - 1845	0	1	3	11	10	3	0	0	0	0	0	0	0	0	0	**28**
1845 - 1900	0	0	2	8	7	1	1	0	0	0	0	0	0	0	0	**19**
1900 - 1915	0	0	2	3	11	2	0	0	0	0	0	0	0	0	0	**18**
1915 - 1930	0	0	2	7	5	1	0	0	0	0	0	0	0	0	0	**15**
1930 - 1945	0	0	2	9	8	2	1	0	0	0	0	0	0	0	0	**22**
1945 - 2000	0	0	4	4	7	2	0	1	0	0	0	0	0	0	0	**18**
2000 - 2015	0	0	2	1	6	2	0	0	0	0	0	0	0	0	0	**11**
2015 - 2030	0	1	1	9	2	0	0	0	0	0	0	0	0	0	0	**13**
2030 - 2045	0	0	2	5	2	1	0	0	0	0	0	0	0	0	0	**10**
2045 - 2100	0	0	2	4	6	0	0	0	0	0	0	0	0	0	0	**12**
2100 - 2115	0	0	1	4	4	1	0	0	0	0	0	0	0	0	0	**10**
2115 - 2130	0	0	3	2	6	1	0	0	0	0	0	0	0	0	0	**12**
2130 - 2145	0	0	2	1	0	1	1	0	0	0	0	0	0	0	0	**5**
2145 - 2200	0	0	1	4	2	1	1	0	0	0	0	0	0	0	0	**9**
2200 - 2215	0	0	0	3	2	1	0	0	0	0	0	0	0	0	0	**6**
2215 - 2230	0	0	2	3	3	0	0	0	0	0	0	0	0	0	0	**8**
2230 - 2245	0	1	3	1	3	0	0	0	0	0	0	0	0	0	0	**8**
2245 - 2300	0	0	1	2	1	0	0	0	0	0	0	0	0	0	0	**4**
2300 - 2315	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	**2**
2315 - 2330	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	**2**
2330 - 2345	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	**2**
2345 - 2400	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	**1**
Session Total	5	26	118	347	276	85	25	5	1	0	0	0	0	0	0	**888**

10mph Pace Speed	Number in Pace
25-34	623 (70.2%)

15th Percentile	50th Percentile	Average	85th Percentile	95th Percentile
24	29	29	34	39

Site 2
Rice Rd,
south of Revere Pl

Date
Wednesday, January 31, 2024

Weather
Mostly Cloudy
47°F

Click here for Detailed Weather

0000 - 2400 (Weekday 24h Session)
NB EB Speed 15min

	Northbound (Movement 2.1)															15min
Time	5-14 mph	15-19 mph	20-24 mph	25-29 mph	30-34 mph	35-39 mph	40-44 mph	45-49 mph	50-54 mph	55-59 mph	60-64 mph	65-69 mph	70-74 mph	75-79 mph	80-99 mph	Total
0000 - 0015	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	**2**
0015 - 0030	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	**3**
0030 - 0045	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	**3**
0045 - 0100	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	**2**
0100 - 0115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
0115 - 0130	0	0	0	2	2	3	0	0	0	0	0	0	0	0	0	**7**
0130 - 0145	0	0	0	0	3	1	0	0	0	0	0	0	0	0	0	**4**
0145 - 0200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
0200 - 0215	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	**3**
0215 - 0230	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
0230 - 0245	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
0245 - 0300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
0300 - 0315	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	**2**
0315 - 0330	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	**1**
0330 - 0345	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	**1**
0345 - 0400	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	**1**
0400 - 0415	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	**1**
0415 - 0430	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
0430 - 0445	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
0445 - 0500	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	**2**
0500 - 0515	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	**1**
0515 - 0530	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	**1**
0530 - 0545	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
0545 - 0600	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	**1**
0600 - 0615	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
0615 - 0630	0	0	2	1	1	0	0	0	0	0	0	0	0	0	0	**4**
0630 - 0645	0	0	1	2	2	0	0	0	0	0	0	0	0	0	0	**5**
0645 - 0700	0	0	0	4	2	0	0	1	0	0	0	0	0	0	0	**7**
0700 - 0715	0	0	0	2	2	2	1	0	0	0	0	0	0	0	0	**7**
0715 - 0730	0	0	2	0	7	0	0	0	0	0	0	0	0	0	0	**9**
0730 - 0745	0	1	3	5	2	2	0	0	0	0	0	0	0	0	0	**13**
0745 - 0800	0	0	3	5	5	1	0	0	0	0	0	0	0	0	0	**14**
0800 - 0815	0	1	4	0	2	2	0	0	0	0	0	0	0	0	0	**9**
0815 - 0830	0	0	4	2	0	2	0	0	0	0	0	0	0	0	0	**8**
0830 - 0845	0	0	1	2	4	0	0	0	0	0	1	0	0	0	0	**8**
0845 - 0900	0	0	3	4	1	0	0	0	0	0	0	0	0	0	0	**8**
0900 - 0915	0	0	1	2	0	1	0	0	0	0	0	0	0	0	0	**4**
0915 - 0930	0	0	2	3	4	0	0	0	0	0	0	0	0	0	0	**9**
0930 - 0945	0	0	0	3	2	2	1	0	0	0	0	0	0	0	0	**8**
0945 - 1000	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	**4**
1000 - 1015	0	0	0	2	4	0	0	0	0	0	0	0	0	0	0	**6**
1015 - 1030	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	**3**
1030 - 1045	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	**3**
1045 - 1100	0	0	0	4	2	1	0	0	0	0	0	0	0	0	0	**7**
1100 - 1115	0	1	2	1	3	0	1	0	0	0	0	0	0	0	0	**8**
1115 - 1130	0	0	4	3	1	1	0	0	0	0	0	0	0	0	0	**9**
1130 - 1145	0	0	3	7	2	2	0	0	0	0	0	0	0	0	0	**14**
1145 - 1200	0	0	0	3	4	1	0	0	0	0	0	0	0	0	0	**8**
1200 - 1215	0	0	1	4	4	2	0	0	0	0	0	0	0	0	0	**11**
1215 - 1230	0	1	0	9	1	0	2	0	0	0	0	0	0	0	0	**13**
1230 - 1245	0	0	3	4	2	2	0	0	0	0	0	0	0	0	0	**11**
1245 - 1300	0	0	2	3	6	2	1	0	0	0	0	0	0	0	0	**14**
1300 - 1315	0	0	3	7	1	1	0	1	0	0	0	0	0	0	0	**13**
1315 - 1330	0	0	0	5	4	1	1	0	0	0	0	0	0	0	0	**11**
1330 - 1345	0	0	3	9	1	2	0	0	0	0	0	0	0	0	0	**15**
1345 - 1400	0	0	2	3	7	0	1	0	0	0	0	0	0	0	0	**13**
1400 - 1415	0	1	1	1	3	2	0	0	0	0	0	0	0	0	0	**8**
1415 - 1430	0	1	5	9	2	2	0	0	0	0	0	0	0	0	0	**19**
1430 - 1445	0	0	5	7	3	3	0	0	0	0	0	0	0	0	0	**18**
1445 - 1500	0	0	2	4	2	0	0	0	0	0	0	0	0	0	0	**8**
1500 - 1515	0	3	11	3	4	1	0	0	0	0	0	0	0	0	0	**22**
1515 - 1530	1	0	1	11	7	2	0	0	0	0	0	0	0	0	0	**22**
1530 - 1545	0	0	1	3	3	0	0	0	0	0	0	0	0	0	0	**7**
1545 - 1600	0	0	5	6	6	2	0	0	0	0	0	0	0	0	0	**19**
1600 - 1615	0	0	3	10	5	3	0	0	0	0	0	0	0	0	0	**21**
1615 - 1630	0	0	3	6	9	3	0	0	0	0	0	0	0	0	0	**21**
1630 - 1645	0	0	2	10	9	4	1	0	0	0	0	0	0	0	0	**26**
1645 - 1700	0	3	4	12	5	0	0	0	0	0	0	0	0	0	0	**24**
1700 - 1715	0	0	6	14	5	1	0	0	0	0	0	0	0	0	0	**26**
1715 - 1730	0	2	8	13	4	0	1	0	0	0	0	0	0	0	0	**28**
1730 - 1745	0	0	11	11	7	1	1	0	0	0	0	0	0	0	0	**31**
1745 - 1800	0	2	2	14	8	0	0	0	0	0	0	0	0	0	0	**26**
1800 - 1815	0	0	3	18	8	3	0	0	0	0	0	0	0	0	0	**32**
1815 - 1830	0	0	2	9	15	4	1	1	0	0	0	0	0	0	0	**32**
1830 - 1845	0	0	6	7	6	3	0	0	0	0	0	0	0	0	0	**22**
1845 - 1900	0	0	0	10	5	1	0	0	0	0	0	0	0	0	0	**16**
1900 - 1915	0	2	1	4	5	3	0	0	0	1	0	0	0	0	0	**16**
1915 - 1930	0	2	2	6	7	3	0	0	0	0	0	0	0	0	0	**20**
1930 - 1945	0	2	1	8	7	2	0	0	0	0	0	0	0	0	0	**20**
1945 - 2000	0	0	5	6	2	3	0	0	0	0	0	0	0	0	0	**16**
2000 - 2015	0	0	1	6	4	5	0	0	0	0	0	0	0	0	0	**16**
2015 - 2030	0	2	3	6	6	2	0	0	0	0	0	0	0	0	0	**19**
2030 - 2045	0	0	3	5	3	2	0	0	0	0	0	0	0	0	0	**13**
2045 - 2100	0	1	1	5	3	1	0	0	0	0	0	0	0	0	0	**11**
2100 - 2115	0	2	2	6	4	0	0	0	0	0	0	0	0	0	0	**14**
2115 - 2130	0	0	2	4	7	0	0	0	0	0	0	0	0	0	0	**13**
2130 - 2145	0	1	1	4	2	0	0	0	0	0	0	0	0	0	0	**8**
2145 - 2200	0	1	0	1	2	0	0	0	0	0	0	0	0	0	0	**4**
2200 - 2215	0	0	0	3	1	2	1	0	0	0	0	0	0	0	0	**7**
2215 - 2230	0	2	1	1	4	0	0	0	0	0	0	0	0	0	0	**8**
2230 - 2245	0	0	2	1	0	2	0	0	0	0	0	0	0	0	0	**5**
2245 - 2300	0	0	0	0	2	0	2	0	0	0	0	0	0	0	0	**4**
2300 - 2315	0	0	0	4	1	0	0	0	1	0	0	0	0	0	0	**6**
2315 - 2330	0	0	1	2	1	0	0	0	0	0	0	0	0	0	0	**4**
2330 - 2345	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	**1**
2345 - 2400	0	0	0	2	3	1	0	1	0	0	0	0	0	0	0	**7**
Session Total	1	31	164	363	271	98	16	4	1	1	1	0	0	0	0	**951**

10mph Pace Speed	Number in Pace
24-33	650 (68.3%)

15th Percentile	50th Percentile	Average	85th Percentile	95th Percentile
24	29	29	34	37

Summary

Time	Northbound (Movement 2.1)															Total
	5-14 mph	15-19 mph	20-24 mph	25-29 mph	30-34 mph	35-39 mph	40-44 mph	45-49 mph	50-54 mph	55-59 mph	60-64 mph	65-69 mph	70-74 mph	75-79 mph	80-99 mph	
Tuesday, January 30, 2024	5	26	118	347	276	85	25	5	1	0	0	0	0	0	0	888
Wednesday, January 31, 2024	1	31	164	363	271	98	16	4	1	1	1	0	0	0	0	951
Session Total	6	57	282	710	547	183	41	9	2	1	1	0	0	0	0	**1839**

Speed Statistics by 15min

Time	Total	% Split	Min	Max	Mean	Median	Percentile				>PSL (40mph)	>PSL % (40mph)
							15%	50%	85%	95%		
0000 - 0015	3	0.16	27	38	31	27	27	27	35	37	0	0
0015 - 0030	11	0.60	19	34	29	30	23	30	34	34	0	0
0030 - 0045	4	0.22	24	39	33	34	28	34	37	38	0	0
0045 - 0100	4	0.22	22	40	32	34	26	34	38	39	0	0
0100 - 0115	1	0.05	12	12	12	12	12	12	12	12	0	0
0115 - 0130	10	0.54	29	39	34	34	29	34	39	39	0	0
0130 - 0145	9	0.49	29	45	34	33	30	33	37	42	1	11
0145 - 0200	0	0.00	0	0	0	0	0	0	0	0	0	-
0200 - 0215	4	0.22	29	37	34	34	31	34	36	37	0	0
0215 - 0230	1	0.05	22	22	22	22	22	22	22	22	0	0
0230 - 0245	2	0.11	25	29	27	27	26	27	28	29	0	0
0245 - 0300	2	0.11	27	28	28	28	27	28	28	28	0	0
0300 - 0315	4	0.22	22	35	26	24	22	24	30	33	0	0
0315 - 0330	2	0.11	37	53	45	45	39	45	51	52	1	50
0330 - 0345	2	0.11	24	30	27	27	25	27	29	30	0	0
0345 - 0400	1	0.05	27	27	27	27	27	27	27	27	0	0
0400 - 0415	1	0.05	27	27	27	27	27	27	27	27	0	0
0415 - 0430	0	0.00	0	0	0	0	0	0	0	0	0	-
0430 - 0445	4	0.22	22	34	28	28	23	28	33	34	0	0
0445 - 0500	3	0.16	30	35	33	34	31	34	35	35	0	0
0500 - 0515	2	0.11	27	29	28	28	27	28	29	29	0	0
0515 - 0530	3	0.16	25	32	28	26	25	26	30	31	0	0
0530 - 0545	1	0.05	34	34	34	34	34	34	34	34	0	0
0545 - 0600	3	0.16	29	42	38	42	33	42	42	42	2	67
0600 - 0615	0	0.00	0	0	0	0	0	0	0	0	0	-
0615 - 0630	6	0.33	22	39	28	26	24	26	34	37	0	0
0630 - 0645	10	0.54	22	34	28	28	24	28	32	33	0	0
0645 - 0700	11	0.60	19	49	30	29	25	29	34	44	1	9
0700 - 0715	14	0.76	25	44	34	34	27	34	39	42	2	14
0715 - 0730	12	0.65	24	40	31	31	25	31	34	38	0	0
0730 - 0745	24	1.31	19	37	28	27	24	27	31	35	0	0
0745 - 0800	31	1.69	20	37	29	29	25	29	32	35	0	0
0800 - 0815	22	1.20	17	42	30	28	22	28	38	42	2	9
0815 - 0830	16	0.87	20	40	29	26	22	26	37	40	0	0
0830 - 0845	14	0.76	24	62	33	30	28	30	37	48	1	7
0845 - 0900	17	0.92	19	36	27	27	22	27	30	33	0	0
0900 - 0915	6	0.33	20	38	29	28	22	28	36	37	0	0
0915 - 0930	15	0.82	19	47	29	27	24	27	32	39	1	7
0930 - 0945	12	0.65	25	46	33	31	26	31	40	43	2	17
0945 - 1000	7	0.38	22	38	29	28	23	28	34	37	0	0
1000 - 1015	13	0.71	25	46	31	31	27	31	32	39	1	8
1015 - 1030	10	0.54	22	40	32	33	24	33	39	40	0	0
1030 - 1045	15	0.82	17	39	29	27	24	27	36	37	0	0
1045 - 1100	17	0.92	23	40	31	30	25	30	35	39	0	0
1100 - 1115	13	0.71	15	40	27	27	20	27	33	37	0	0
1115 - 1130	15	0.82	21	39	26	27	21	27	30	34	0	0
1130 - 1145	25	1.36	20	38	29	29	24	29	33	36	0	0
1145 - 1200	19	1.03	21	39	31	31	28	31	37	39	0	0
1200 - 1215	16	0.87	21	39	30	30	25	30	36	38	0	0
1215 - 1230	18	0.98	18	40	30	29	26	29	37	40	0	0
1230 - 1245	20	1.09	21	44	30	29	24	29	34	39	1	5
1245 - 1300	24	1.31	11	40	30	31	26	31	35	39	0	0
1300 - 1315	21	1.14	17	46	28	28	23	28	30	35	1	5
1315 - 1330	21	1.14	21	40	30	29	25	29	35	37	0	0
1330 - 1345	27	1.47	21	39	29	29	25	29	30	36	0	0
1345 - 1400	21	1.14	17	44	30	30	25	30	33	40	1	5
1400 - 1415	20	1.09	18	39	28	27	21	27	34	37	0	0
1415 - 1430	28	1.52	17	39	27	27	22	27	31	35	0	0
1430 - 1445	34	1.85	16	38	27	27	24	27	32	36	0	0
1445 - 1500	21	1.14	19	34	27	27	22	27	32	32	0	0
1500 - 1515	47	2.56	16	41	27	26	21	26	32	36	1	2
1515 - 1530	40	2.18	11	39	28	27	24	27	32	35	0	0
1530 - 1545	29	1.58	22	43	30	29	25	29	35	39	1	3
1545 - 1600	33	1.79	14	40	28	29	24	29	34	38	0	0
1600 - 1615	38	2.07	19	37	28	28	23	28	32	35	0	0
1615 - 1630	47	2.56	19	37	29	30	25	30	34	35	0	0
1630 - 1645	47	2.56	19	43	30	30	26	30	34	37	1	2
1645 - 1700	52	2.83	16	35	27	27	24	27	31	33	0	0
1700 - 1715	50	2.72	16	35	28	28	24	28	32	33	0	0
1715 - 1730	58	3.15	14	43	27	27	22	27	30	32	1	2
1730 - 1745	57	3.10	20	43	29	29	23	29	34	36	1	2
1745 - 1800	50	2.72	13	39	27	28	22	28	32	34	0	0
1800 - 1815	56	3.05	19	39	29	29	25	29	34	35	0	0
1815 - 1830	58	3.15	19	45	30	31	25	31	34	39	1	2
1830 - 1845	50	2.72	19	37	29	29	23	29	34	37	0	0
1845 - 1900	35	1.90	22	41	29	29	25	29	33	36	1	3
1900 - 1915	34	1.85	16	57	31	30	25	30	35	38	1	3
1915 - 1930	35	1.90	16	39	29	29	24	29	34	38	0	0
1930 - 1945	42	2.28	18	40	30	29	25	29	34	37	0	0
1945 - 2000	34	1.85	22	45	29	28	24	28	35	37	1	3
2000 - 2015	27	1.47	22	38	31	32	25	32	36	37	0	0
2015 - 2030	32	1.74	17	37	28	29	24	29	32	34	0	0
2030 - 2045	23	1.25	21	38	29	28	24	28	34	35	0	0
2045 - 2100	23	1.25	16	39	29	29	24	29	34	34	0	0
2100 - 2115	24	1.31	16	37	27	28	24	28	32	34	0	0
2115 - 2130	25	1.36	20	35	29	30	24	30	33	34	0	0
2130 - 2145	13	0.71	19	43	27	27	22	27	32	38	1	8
2145 - 2200	13	0.71	17	40	30	29	26	29	34	37	0	0
2200 - 2215	13	0.71	25	42	31	30	27	30	37	39	1	8
2215 - 2230	16	0.87	18	34	27	27	20	27	33	33	0	0
2230 - 2245	13	0.71	18	37	26	25	21	25	33	37	0	0
2245 - 2300	8	0.44	23	42	32	30	27	30	41	42	2	25
2300 - 2315	8	0.44	25	54	32	26	25	26	37	48	1	13
2315 - 2330	6	0.33	24	34	28	28	26	28	30	33	0	0
2330 - 2345	3	0.16	25	35	30	29	26	29	33	34	0	0
2345 - 2400	8	0.44	28	46	34	33	28	33	39	44	1	13
Session Total	1839		11	62	29	29	24	29	34	38	32	2

Bi-Directional Speed & Class Count || SB WB Speed 15min

Spring Hill, TN (Stone Creek)

Marr Traffic DATA COLLECTION
www.marrtraffic.com

Site 2
Rice Rd,
south of Revere Pl

Date
Tuesday, January 30, 2024

Lat/Long
35.723862°, -86.882647°

Weather
Mostly Cloudy
42°F

Click here for Detailed Weather

Click here for Map

0000 - 2400 (Weekday 24h Session)
SB WB Speed 15min

	Southbound (Movement 2.2)															15min
Time	5-14 mph	15-19 mph	20-24 mph	25-29 mph	30-34 mph	35-39 mph	40-44 mph	45-49 mph	50-54 mph	55-59 mph	60-64 mph	65-69 mph	70-74 mph	75-79 mph	80-99 mph	Total
0000 - 0015	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
0015 - 0030	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	**2**
0030 - 0045	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
0045 - 0100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
0100 - 0115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
0115 - 0130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
0130 - 0145	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	**2**
0145 - 0200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
0200 - 0215	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
0215 - 0230	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	**1**
0230 - 0245	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	**1**
0245 - 0300	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	**1**
0300 - 0315	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
0315 - 0330	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	**1**
0330 - 0345	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	**1**
0345 - 0400	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	**2**
0400 - 0415	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	**2**
0415 - 0430	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	**2**
0430 - 0445	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	**2**
0445 - 0500	0	0	0	0	5	1	1	0	0	0	0	0	0	0	0	**7**
0500 - 0515	0	0	0	2	5	1	1	0	0	0	0	0	0	0	0	**9**
0515 - 0530	0	0	0	4	4	1	1	0	0	0	0	0	0	0	0	**10**
0530 - 0545	0	0	0	8	4	2	0	0	0	0	0	0	0	0	0	**14**
0545 - 0600	0	0	0	8	3	4	1	0	0	0	0	0	0	0	0	**16**
0600 - 0615	0	0	2	7	8	4	3	1	0	0	0	0	0	0	0	**25**
0615 - 0630	0	0	7	13	3	1	1	0	0	0	0	0	0	0	0	**25**
0630 - 0645	0	0	4	9	5	3	1	0	0	0	0	0	0	0	0	**22**
0645 - 0700	0	1	4	11	9	7	1	0	0	0	0	0	0	0	0	**33**
0700 - 0715	0	1	4	15	7	4	3	0	0	0	0	0	0	0	0	**34**
0715 - 0730	0	1	4	12	6	4	1	0	0	0	0	0	0	0	0	**28**
0730 - 0745	0	2	4	15	5	5	0	0	0	0	0	0	0	0	0	**31**
0745 - 0800	0	0	2	11	10	8	0	0	0	0	0	0	0	0	0	**31**
0800 - 0815	0	0	1	8	9	8	0	0	0	0	0	0	0	0	0	**26**
0815 - 0830	0	0	0	4	3	0	0	0	0	0	0	0	0	0	0	**7**
0830 - 0845	0	0	1	5	4	2	1	0	0	0	0	0	0	0	0	**13**
0845 - 0900	0	0	0	5	0	3	1	0	0	0	0	0	0	0	0	**9**
0900 - 0915	0	1	0	4	7	2	1	0	0	0	0	0	0	0	0	**15**
0915 - 0930	0	1	1	6	3	4	2	0	0	0	0	0	0	0	0	**17**
0930 - 0945	0	0	0	4	4	0	4	0	0	0	0	1	0	0	0	**13**
0945 - 1000	0	0	0	1	4	0	1	1	0	0	0	0	0	0	0	**7**
1000 - 1015	1	0	0	1	3	3	0	0	0	0	0	0	0	0	0	**8**
1015 - 1030	1	0	1	4	4	1	0	0	0	0	0	0	0	0	0	**11**
1030 - 1045	0	0	0	2	4	0	1	0	0	0	0	0	0	0	0	**7**
1045 - 1100	0	0	1	4	1	2	1	0	0	0	0	0	0	0	0	**9**
1100 - 1115	0	0	0	3	3	0	0	0	0	0	0	0	0	0	0	**6**
1115 - 1130	0	0	1	2	2	1	0	0	0	0	0	0	0	0	0	**6**
1130 - 1145	0	1	2	4	1	2	1	0	0	0	0	0	0	0	0	**11**
1145 - 1200	0	0	3	4	2	1	0	1	0	0	0	0	0	0	0	**11**
1200 - 1215	0	0	1	7	1	2	1	0	0	0	0	0	0	0	0	**12**
1215 - 1230	0	0	0	2	1	2	0	1	0	0	0	0	0	0	0	**6**
1230 - 1245	0	0	2	3	1	4	0	0	0	0	0	0	0	0	0	**10**
1245 - 1300	0	0	0	4	5	2	0	0	0	0	0	0	0	0	0	**11**
1300 - 1315	0	0	2	4	6	0	0	0	0	0	0	0	0	0	0	**12**
1315 - 1330	0	0	3	7	2	1	1	0	0	0	0	0	0	0	0	**14**
1330 - 1345	0	0	2	5	3	1	1	0	0	0	0	0	0	0	0	**12**
1345 - 1400	0	0	0	7	1	0	0	0	0	0	0	0	0	0	0	**8**
1400 - 1415	0	0	3	4	5	1	0	0	0	0	0	0	0	0	0	**13**
1415 - 1430	0	1	6	5	4	1	1	0	0	0	0	0	0	0	0	**18**
1430 - 1445	0	0	1	3	5	1	0	0	0	0	0	0	0	0	0	**10**
1445 - 1500	0	1	2	9	4	2	1	0	0	0	0	0	0	0	0	**19**
1500 - 1515	0	0	4	3	6	0	0	0	0	0	0	0	0	0	0	**13**
1515 - 1530	0	1	2	10	1	2	1	0	0	0	0	0	0	0	0	**17**
1530 - 1545	0	1	0	2	4	3	1	0	0	0	0	0	0	0	0	**11**
1545 - 1600	0	0	2	4	0	0	0	0	0	0	0	0	0	0	0	**6**
1600 - 1615	0	0	2	3	4	1	0	0	0	0	0	0	0	0	0	**10**
1615 - 1630	0	0	0	2	7	1	1	0	0	0	0	0	0	0	0	**11**
1630 - 1645	0	0	4	8	2	2	0	0	0	0	0	0	0	0	0	**16**
1645 - 1700	0	0	3	3	7	0	0	0	0	0	0	0	0	0	0	**13**
1700 - 1715	1	0	1	3	2	2	0	0	0	0	0	0	0	0	0	**9**
1715 - 1730	1	1	5	3	3	0	1	0	0	0	0	0	0	0	0	**14**
1730 - 1745	0	0	1	3	0	1	1	0	0	0	0	0	0	0	0	**6**
1745 - 1800	0	0	3	5	8	3	0	0	0	0	0	0	0	0	0	**19**
1800 - 1815	0	1	1	6	4	1	1	0	0	0	0	0	0	0	0	**14**
1815 - 1830	0	0	0	3	5	0	0	1	0	0	0	0	0	0	0	**9**
1830 - 1845	0	0	1	4	3	0	1	0	0	0	0	0	0	0	0	**9**
1845 - 1900	0	0	1	1	2	2	1	0	0	0	0	0	0	0	0	**7**
1900 - 1915	0	0	3	1	3	0	0	0	0	0	0	0	0	0	0	**7**
1915 - 1930	0	0	0	4	3	0	0	0	0	0	0	0	1	0	0	**8**
1930 - 1945	1	0	0	4	3	1	0	0	0	0	0	0	0	0	0	**9**
1945 - 2000	0	0	2	4	1	0	0	0	0	0	0	0	0	0	0	**7**
2000 - 2015	0	0	0	1	2	0	1	0	0	0	0	0	0	0	0	**4**
2015 - 2030	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	**3**
2030 - 2045	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	**2**
2045 - 2100	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	**4**
2100 - 2115	0	0	1	2	3	0	0	0	0	0	0	0	0	0	0	**6**
2115 - 2130	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	**1**
2130 - 2145	0	0	0	1	3	2	0	0	0	0	0	0	0	0	0	**6**
2145 - 2200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
2200 - 2215	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	**3**
2215 - 2230	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	**2**
2230 - 2245	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	**1**
2245 - 2300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
2300 - 2315	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
2315 - 2330	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	**1**
2330 - 2345	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	**1**
2345 - 2400	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	**2**
Session Total	5	16	110	328	254	113	41	5	0	0	0	1	1	0	0	**874**

10mph Pace Speed	Number in Pace
25-34	582 (66.6%)

15th Percentile	50th Percentile	Average	85th Percentile	95th Percentile
25	29	30	35	40

Site 2
Rice Rd,
south of Revere Pl

Date
Wednesday, January 31, 2024

Weather
Mostly Cloudy
47°F

Click here for Detailed Weather

0000 - 2400 (Weekday 24h Session)
SB WB Speed 15min

	Southbound (Movement 2.2)															15min
Time	5-14 mph	15-19 mph	20-24 mph	25-29 mph	30-34 mph	35-39 mph	40-44 mph	45-49 mph	50-54 mph	55-59 mph	60-64 mph	65-69 mph	70-74 mph	75-79 mph	80-99 mph	Total
0000 - 0015	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	**1**
0015 - 0030	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	**2**
0030 - 0045	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	**1**
0045 - 0100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
0100 - 0115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
0115 - 0130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
0130 - 0145	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
0145 - 0200	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	**1**
0200 - 0215	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
0215 - 0230	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
0230 - 0245	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	**1**
0245 - 0300	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	**1**
0300 - 0315	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	**2**
0315 - 0330	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
0330 - 0345	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	**1**
0345 - 0400	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	**2**
0400 - 0415	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	**2**
0415 - 0430	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	**2**
0430 - 0445	0	0	1	1	2	0	0	0	0	0	0	0	0	0	0	**4**
0445 - 0500	0	0	1	1	2	0	0	0	0	0	0	0	0	0	0	**4**
0500 - 0515	0	0	0	0	5	1	0	1	0	0	0	0	0	0	0	**7**
0515 - 0530	0	0	0	6	3	2	0	0	0	0	0	1	0	0	0	**12**
0530 - 0545	0	0	0	6	7	2	0	0	0	0	0	0	0	0	0	**15**
0545 - 0600	0	0	0	5	7	2	0	0	0	0	0	0	0	0	0	**14**
0600 - 0615	0	1	3	5	5	4	4	0	0	0	0	0	0	0	0	**22**
0615 - 0630	0	0	5	11	5	3	1	0	0	0	0	0	0	0	0	**25**
0630 - 0645	0	0	4	9	6	9	1	0	0	0	0	0	0	0	0	**29**
0645 - 0700	1	1	5	17	5	1	0	0	0	0	0	0	0	0	0	**30**
0700 - 0715	0	0	5	10	12	6	0	0	0	0	0	0	0	0	0	**33**
0715 - 0730	1	2	8	13	6	2	0	0	0	0	0	0	0	0	0	**32**
0730 - 0745	0	0	3	12	6	3	1	0	0	0	0	0	0	0	0	**25**
0745 - 0800	0	0	4	12	9	2	0	0	0	0	0	0	0	0	0	**27**
0800 - 0815	0	0	1	6	0	1	2	0	0	0	0	0	0	0	0	**10**
0815 - 0830	0	0	4	8	4	2	0	0	0	0	0	0	0	0	0	**18**
0830 - 0845	0	0	2	5	3	0	0	0	0	0	0	0	0	0	0	**10**
0845 - 0900	0	1	0	4	8	5	0	0	0	0	0	0	0	0	0	**18**
0900 - 0915	0	0	0	2	1	1	0	0	0	0	0	0	0	0	0	**4**
0915 - 0930	0	0	2	4	7	2	1	0	0	0	0	0	0	0	0	**16**
0930 - 0945	0	1	0	3	2	0	0	0	0	0	0	0	0	0	0	**6**
0945 - 1000	1	0	1	2	5	1	0	0	0	0	0	0	0	0	0	**10**
1000 - 1015	0	0	2	6	0	0	0	0	0	0	0	0	0	0	0	**8**
1015 - 1030	0	0	2	4	1	1	0	0	0	0	0	0	0	0	0	**8**
1030 - 1045	0	0	1	5	0	0	0	0	0	0	0	0	0	0	0	**6**
1045 - 1100	0	1	3	5	2	0	2	0	0	0	0	0	0	0	0	**13**
1100 - 1115	0	1	0	3	0	2	0	0	0	0	0	0	0	0	0	**6**
1115 - 1130	0	1	2	8	3	0	0	0	0	0	0	0	0	0	0	**14**
1130 - 1145	0	0	2	4	4	2	0	0	0	0	0	0	0	0	0	**12**
1145 - 1200	0	0	2	1	3	1	0	0	1	0	0	0	0	0	0	**8**
1200 - 1215	0	0	2	5	7	0	1	0	0	0	0	0	0	0	0	**15**
1215 - 1230	0	0	3	5	1	0	0	0	0	0	0	0	0	0	0	**9**
1230 - 1245	0	0	0	4	0	2	0	0	0	0	0	0	0	0	0	**6**
1245 - 1300	1	0	1	3	1	1	1	0	0	0	0	0	0	0	0	**8**
1300 - 1315	0	0	1	5	5	2	2	0	0	0	0	0	0	0	0	**15**
1315 - 1330	0	0	0	2	3	1	0	0	0	0	0	0	0	0	0	**6**
1330 - 1345	0	0	3	6	4	3	0	0	0	0	0	0	0	0	0	**16**
1345 - 1400	0	0	2	2	3	1	1	0	0	0	0	0	0	0	0	**9**
1400 - 1415	0	0	1	4	5	5	0	0	0	0	0	0	0	0	0	**15**
1415 - 1430	0	2	3	4	7	5	0	0	0	0	0	0	0	0	0	**21**
1430 - 1445	0	0	4	8	5	0	0	0	0	0	0	0	0	0	0	**17**
1445 - 1500	0	0	2	9	5	1	0	0	0	0	0	0	0	0	0	**17**
1500 - 1515	0	0	2	4	1	1	0	0	0	0	0	0	0	0	0	**8**
1515 - 1530	0	1	1	5	6	1	0	1	0	0	0	0	0	0	0	**15**
1530 - 1545	0	2	1	1	3	2	1	0	0	0	0	0	0	0	0	**10**
1545 - 1600	0	0	2	2	2	0	0	0	0	0	0	0	0	0	0	**6**
1600 - 1615	0	0	2	4	7	3	0	0	0	1	0	0	0	0	0	**17**
1615 - 1630	0	0	0	2	3	0	0	0	0	0	0	0	0	0	0	**5**
1630 - 1645	0	1	1	8	5	0	0	1	0	0	0	0	0	0	0	**16**
1645 - 1700	0	1	5	5	4	0	1	0	0	0	0	0	0	0	0	**16**
1700 - 1715	1	1	3	11	3	1	0	0	0	0	0	0	0	0	0	**20**
1715 - 1730	0	0	3	5	4	0	1	0	0	0	0	0	0	0	0	**13**
1730 - 1745	0	1	1	4	3	2	1	0	0	0	0	0	0	0	0	**12**
1745 - 1800	0	1	3	6	3	0	0	1	0	0	0	0	0	0	0	**14**
1800 - 1815	0	1	3	5	3	0	0	0	0	0	0	0	0	0	0	**12**
1815 - 1830	0	0	1	9	5	0	0	0	0	0	0	0	0	0	0	**15**
1830 - 1845	0	0	0	5	6	2	1	0	0	0	0	0	0	0	0	**14**
1845 - 1900	0	0	0	2	9	0	0	0	0	0	0	0	0	0	0	**11**
1900 - 1915	0	1	0	1	2	0	0	0	0	0	0	0	0	0	0	**4**
1915 - 1930	0	1	0	4	0	0	0	0	0	0	0	0	0	0	0	**5**
1930 - 1945	0	0	0	3	1	0	0	0	0	0	0	0	0	0	0	**4**
1945 - 2000	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	**4**
2000 - 2015	0	0	0	1	1	2	0	0	0	0	0	0	0	0	0	**4**
2015 - 2030	0	0	2	4	1	0	1	0	0	0	0	0	0	0	0	**8**
2030 - 2045	0	0	0	3	3	0	1	0	0	0	0	0	0	0	0	**7**
2045 - 2100	0	0	1	3	4	0	0	0	0	0	0	0	0	0	0	**8**
2100 - 2115	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	**2**
2115 - 2130	0	0	0	3	1	1	0	0	0	0	0	0	0	0	0	**5**
2130 - 2145	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	**2**
2145 - 2200	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	**2**
2200 - 2215	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	**2**
2215 - 2230	0	0	0	2	2	2	0	0	0	0	0	0	0	0	0	**6**
2230 - 2245	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	**2**
2245 - 2300	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	**1**
2300 - 2315	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
2315 - 2330	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	**1**
2330 - 2345	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	**1**
2345 - 2400	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	**2**
Session Total	6	22	127	348	262	93	25	4	1	1	0	1	0	0	0	**890**

10mph Pace Speed	Number in Pace
25-34	610 (68.5%)

15th Percentile	50th Percentile	Average	85th Percentile	95th Percentile
24	29	29	34	39

Summary

Time	Southbound (Movement 2.2)															Total
	5-14 mph	15-19 mph	20-24 mph	25-29 mph	30-34 mph	35-39 mph	40-44 mph	45-49 mph	50-54 mph	55-59 mph	60-64 mph	65-69 mph	70-74 mph	75-79 mph	80-99 mph	
Tuesday, January 30, 2024	5	16	110	328	254	113	41	5	0	0	0	1	1	0	0	**874**
Wednesday, January 31, 2024	6	22	127	348	262	93	25	4	1	1	0	1	0	0	0	**890**
Session Total	11	38	237	676	516	206	66	9	1	1	0	2	1	0	0	**1764**

Speed Statistics by 15min

Time	Total	% Split	Min	Max	Mean	Median	Percentile				>PSL (40mph)	>PSL % (40mph)
							15%	50%	85%	95%		
0000 - 0015	1	0.06	24	24	24	24	24	24	24	24	0	0
0015 - 0030	4	0.23	24	41	32	32	27	32	38	40	1	25
0030 - 0045	1	0.06	31	31	31	31	31	31	31	31	0	0
0045 - 0100	0	0.00	0	0	0	0	0	0	0	0	0	-
0100 - 0115	0	0.00	0	0	0	0	0	0	0	0	0	-
0115 - 0130	0	0.00	0	0	0	0	0	0	0	0	0	-
0130 - 0145	2	0.11	17	35	26	26	20	26	32	34	0	0
0145 - 0200	1	0.06	24	24	24	24	24	24	24	24	0	0
0200 - 0215	0	0.00	0	0	0	0	0	0	0	0	0	-
0215 - 0230	1	0.06	31	31	31	31	31	31	31	31	0	0
0230 - 0245	2	0.11	23	32	28	28	24	28	31	32	0	0
0245 - 0300	2	0.11	22	22	22	22	22	22	22	22	0	0
0300 - 0315	2	0.11	29	29	29	29	29	29	29	29	0	0
0315 - 0330	1	0.06	23	23	23	23	23	23	23	23	0	0
0330 - 0345	2	0.11	24	28	26	26	25	26	27	28	0	0
0345 - 0400	4	0.23	21	29	24	23	21	23	27	28	0	0
0400 - 0415	4	0.23	27	32	30	30	27	30	32	32	0	0
0415 - 0430	4	0.23	28	34	31	30	29	30	32	33	0	0
0430 - 0445	6	0.34	24	31	29	30	26	30	31	31	0	0
0445 - 0500	11	0.62	22	43	32	32	28	32	37	41	1	9
0500 - 0515	16	0.91	25	48	34	34	30	34	38	44	2	13
0515 - 0530	22	1.25	25	68	32	30	26	30	37	40	1	5
0530 - 0545	29	1.64	25	39	30	30	25	30	34	37	0	0
0545 - 0600	30	1.70	26	40	31	32	27	32	35	36	0	0
0600 - 0615	47	2.66	19	48	32	30	26	30	40	43	7	15
0615 - 0630	50	2.83	21	43	28	27	24	27	33	37	1	2
0630 - 0645	51	2.89	20	41	30	29	25	29	37	39	1	2
0645 - 0700	63	3.57	12	44	28	27	24	27	33	39	1	2
0700 - 0715	67	3.80	17	43	30	29	25	29	35	39	1	1
0715 - 0730	60	3.40	11	42	28	27	23	27	34	37	1	2
0730 - 0745	56	3.17	19	41	29	29	24	29	35	38	1	2
0745 - 0800	58	3.29	21	38	30	30	25	30	35	37	0	0
0800 - 0815	36	2.04	23	41	31	30	27	30	37	39	1	3
0815 - 0830	25	1.42	24	39	28	28	25	28	31	35	0	0
0830 - 0845	23	1.30	20	43	29	29	25	29	34	37	1	4
0845 - 0900	27	1.53	19	41	31	31	27	31	36	37	1	4
0900 - 0915	19	1.08	19	40	31	32	25	32	36	39	0	0
0915 - 0930	33	1.87	18	42	31	31	25	31	36	40	2	6
0930 - 0945	19	1.08	15	68	34	32	27	32	43	46	4	21
0945 - 1000	17	0.96	14	46	31	32	25	32	36	41	1	6
1000 - 1015	16	0.91	13	36	28	28	22	28	34	35	0	0
1015 - 1030	19	1.08	11	36	28	28	24	28	32	35	0	0
1030 - 1045	13	0.74	24	40	29	28	25	28	33	36	0	0
1045 - 1100	22	1.25	19	42	29	28	24	28	38	40	1	5
1100 - 1115	12	0.68	19	36	29	29	25	29	33	35	0	0
1115 - 1130	20	1.13	19	39	27	27	24	27	30	32	0	0
1130 - 1145	23	1.30	19	40	29	29	24	29	36	39	0	0
1145 - 1200	19	1.08	21	53	30	29	23	29	36	46	2	11
1200 - 1215	27	1.53	23	43	30	29	26	29	34	39	1	4
1215 - 1230	15	0.85	22	46	29	28	24	28	35	40	1	7
1230 - 1245	16	0.91	22	39	30	28	25	28	37	38	0	0
1245 - 1300	19	1.08	12	40	29	30	25	30	35	37	0	0
1300 - 1315	27	1.53	22	43	30	30	27	30	34	41	2	7
1315 - 1330	20	1.13	23	40	30	29	25	29	33	38	0	0
1330 - 1345	28	1.59	20	40	29	29	24	29	35	39	0	0
1345 - 1400	17	0.96	21	42	29	28	25	28	34	40	1	6
1400 - 1415	28	1.59	21	39	30	30	25	30	35	38	0	0
1415 - 1430	39	2.21	17	43	29	29	23	29	35	38	1	3
1430 - 1445	27	1.53	23	37	29	29	24	29	33	34	0	0
1445 - 1500	36	2.04	18	42	28	29	25	29	32	36	1	3
1500 - 1515	21	1.19	20	39	28	28	24	28	30	32	0	0
1515 - 1530	32	1.81	15	47	29	27	25	27	34	41	2	6
1530 - 1545	21	1.19	16	42	31	31	24	31	37	40	1	5
1545 - 1600	12	0.68	20	32	26	25	22	25	30	32	0	0
1600 - 1615	27	1.53	24	57	31	31	25	31	35	38	1	4
1615 - 1630	16	0.91	27	42	31	30	28	30	34	38	1	6
1630 - 1645	32	1.81	19	48	29	28	24	28	34	37	1	3
1645 - 1700	29	1.64	19	44	28	27	23	27	32	34	1	3
1700 - 1715	29	1.64	11	38	27	28	24	28	32	37	0	0
1715 - 1730	27	1.53	14	44	27	27	21	27	32	39	2	7
1730 - 1745	18	1.02	15	42	30	29	24	29	37	40	1	6
1745 - 1800	33	1.87	17	45	29	29	24	29	33	35	1	3
1800 - 1815	26	1.47	17	43	28	29	24	29	34	36	1	4
1815 - 1830	24	1.36	24	46	30	29	26	29	33	34	1	4
1830 - 1845	23	1.30	24	43	31	31	26	31	36	40	1	4
1845 - 1900	18	1.02	24	43	32	32	29	32	35	38	1	6
1900 - 1915	11	0.62	17	32	26	27	21	27	31	32	0	0
1915 - 1930	13	0.74	19	72	31	28	26	28	31	48	1	8
1930 - 1945	13	0.74	12	35	27	29	25	29	31	33	0	0
1945 - 2000	11	0.62	21	32	26	25	23	25	28	31	0	0
2000 - 2015	8	0.45	25	43	34	33	28	33	39	42	1	13
2015 - 2030	11	0.62	23	40	29	29	24	29	32	36	0	0
2030 - 2045	9	0.51	25	44	31	29	26	29	33	40	1	11
2045 - 2100	12	0.68	22	32	29	30	28	30	32	32	0	0
2100 - 2115	8	0.45	21	34	28	28	25	28	32	33	0	0
2115 - 2130	6	0.34	24	38	29	29	25	29	33	36	0	0
2130 - 2145	8	0.45	27	37	33	32	32	32	37	37	0	0
2145 - 2200	2	0.11	29	32	31	31	29	31	32	32	0	0
2200 - 2215	5	0.28	22	34	26	25	23	25	30	33	0	0
2215 - 2230	8	0.45	17	38	29	29	25	29	36	37	0	0
2230 - 2245	3	0.17	14	30	22	22	16	22	28	29	0	0
2245 - 2300	1	0.06	24	24	24	24	24	24	24	24	0	0
2300 - 2315	0	0.00	0	0	0	0	0	0	0	0	0	-
2315 - 2330	2	0.11	28	30	29	29	28	29	30	30	0	0
2330 - 2345	2	0.11	24	31	28	28	25	28	30	31	0	0
2345 - 2400	4	0.23	23	32	29	30	26	30	31	32	0	0
Session Total	1764		11	72	29	29	24	29	35	39	56	3

Bi-Directional Speed & Class Count || Graphical Analysis NB EB

Spring Hill, TN (Stone Creek)

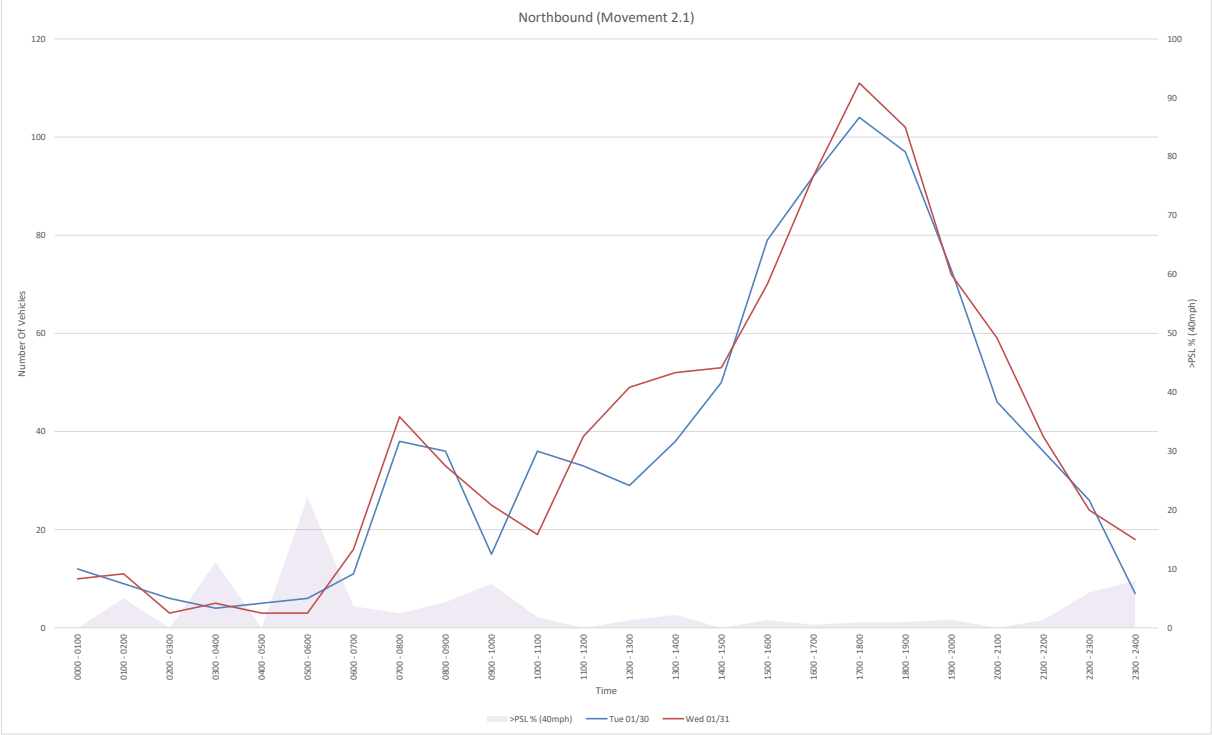
Marr Traffic DATA COLLECTION
www.marrtraffic.com

Site 2
Rice Rd,
south of Revere Pl

Lat/Long
35.723862°, -86.882647°

Click here for Map

0000 - 2400 (Weekday 24h Session)
Graphical Analysis NB EB



Bi-Directional Speed & Class Count || Graphical Analysis SB WB

Spring Hill, TN (Stone Creek)

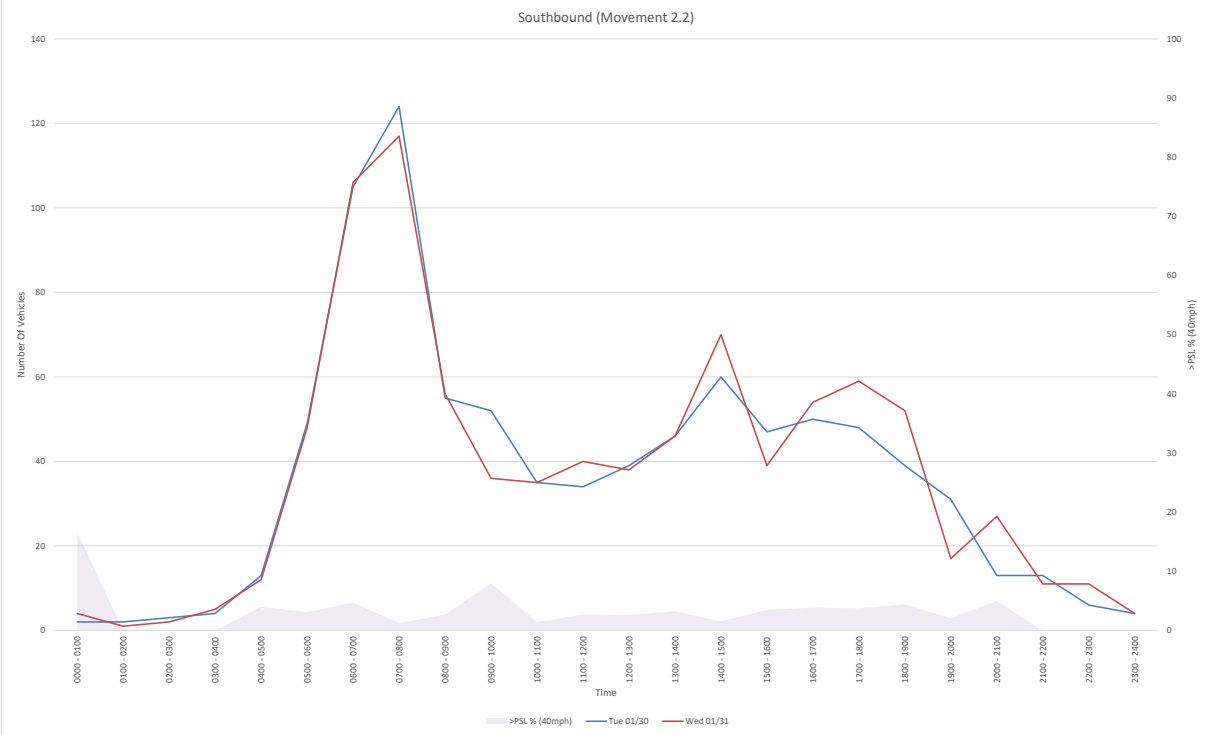
Marr Traffic DATA COLLECTION
www.marrtraffic.com

Site 2
Rice Rd,
south of Revere Pl

Lat/Long
35.723862°, -86.882647°

Click here for Map

0000 - 2400 (Weekday 24h Session)
Graphical Analysis SB WB



Bi-Directional Speed & Class Count || Graphical Analysis Bi-Direction

Spring Hill, TN (Stone Creek)

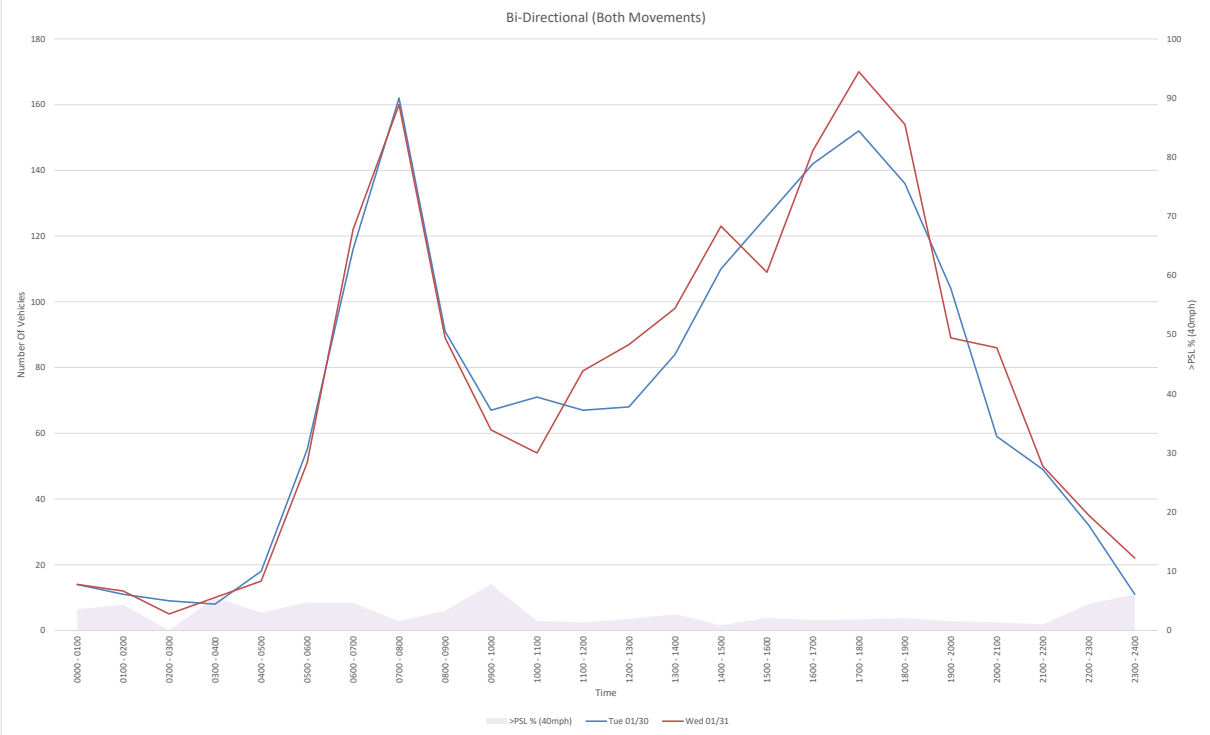
Marr Traffic DATA COLLECTION
www.marrtraffic.com

Site 2
Rice Rd,
south of Revere Pl

Lat/Long
35.723862°, -86.882647°

Click here for Map

0000 - 2400 (Weekday 24h Session)
Graphical Analysis Bi-Direction



Bi-Directional Speed & Class Count || NB EB 15min

Spring Hill, TN (Stone Creek)

Marr Traffic DATA COLLECTION
www.marrtraffic.com

Site 3
Brandon Woods Dr,
east of Tristan Wy

Date
Tuesday, January 30, 2024

Lat/Long
35.710935°, -86.893970°

Weather
Mostly Cloudy
42°F

Click here for Detailed Weather

Click here for Map

0000 - 2400 (Weekday 24h Session)
NB EB 15min

	Eastbound (Movement 3.1)													15min	60min
Time	Class 1	Class 2	Class 3	Class 4	Class 5	Class 6	Class 7	Class 8	Class 9	Class 10	Class 11	Class 12	Class 13	Total	Total
0000 - 0015	0	1	0	0	0	0	0	0	0	0	0	0	0	**1**	
0015 - 0030	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
0030 - 0045	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
0045 - 0100	0	1	0	0	0	0	0	0	0	0	0	0	0	**1**	**2**
0100 - 0115	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
0115 - 0130	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
0130 - 0145	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
0145 - 0200	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**
0200 - 0215	0	0	0	0	1	0	0	0	0	0	0	0	0	**1**	
0215 - 0230	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
0230 - 0245	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
0245 - 0300	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**1**
0300 - 0315	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
0315 - 0330	0	1	0	0	0	0	0	0	0	0	0	0	0	**1**	
0330 - 0345	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
0345 - 0400	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**1**
0400 - 0415	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
0415 - 0430	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
0430 - 0445	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
0445 - 0500	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**
0500 - 0515	0	1	0	0	0	0	0	0	0	0	0	0	0	**1**	
0515 - 0530	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
0530 - 0545	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
0545 - 0600	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**1**
0600 - 0615	0	4	0	0	0	0	0	0	0	0	0	0	0	**4**	
0615 - 0630	0	0	1	0	3	0	0	0	0	0	0	0	0	**4**	
0630 - 0645	0	2	1	0	2	0	0	0	0	0	0	0	0	**5**	
0645 - 0700	0	2	1	0	1	5	0	1	0	0	0	0	0	**10**	**23**
0700 - 0715	0	6	1	0	1	0	0	0	0	0	0	0	0	**8**	
0715 - 0730	0	3	1	0	1	1	0	0	0	0	0	0	0	**6**	
0730 - 0745	0	2	0	0	2	0	0	0	0	0	0	0	0	**4**	
0745 - 0800	0	9	0	0	2	0	0	0	0	0	0	0	0	**11**	**29**
0800 - 0815	0	6	2	0	2	0	0	0	1	0	0	0	0	**11**	
0815 - 0830	0	3	0	0	1	0	0	0	0	1	0	0	0	**5**	
0830 - 0845	0	4	0	0	4	0	0	0	0	0	0	0	0	**8**	
0845 - 0900	0	4	1	0	0	0	0	0	0	0	0	0	0	**5**	**29**
0900 - 0915	0	4	0	0	2	0	0	0	0	0	0	0	0	**6**	
0915 - 0930	0	3	1	0	2	0	0	1	1	0	0	0	0	**8**	
0930 - 0945	0	3	2	0	4	0	0	0	0	0	0	0	0	**9**	
0945 - 1000	0	1	0	0	0	0	0	1	0	0	0	0	0	**2**	**25**
1000 - 1015	0	4	2	0	2	0	0	0	0	0	0	0	0	**8**	
1015 - 1030	0	2	0	1	3	0	0	0	0	0	0	0	0	**6**	
1030 - 1045	0	5	1	0	0	4	0	0	0	0	0	0	0	**10**	
1045 - 1100	0	5	1	0	2	2	0	0	0	0	0	0	0	**10**	**34**
1100 - 1115	0	6	2	0	0	1	1	0	0	0	0	0	0	**10**	
1115 - 1130	0	2	0	0	1	2	0	0	0	0	0	0	0	**5**	
1130 - 1145	0	10	1	0	3	1	0	0	0	0	0	0	0	**15**	
1145 - 1200	0	2	0	0	3	1	0	0	0	0	0	0	0	**6**	**36**
1200 - 1215	0	5	1	0	3	1	0	0	0	0	0	0	0	**10**	
1215 - 1230	0	3	3	0	1	3	0	0	0	0	0	0	0	**10**	
1230 - 1245	1	8	1	0	2	0	0	0	0	0	0	0	0	**12**	
1245 - 1300	0	3	2	0	3	0	0	0	1	0	0	0	0	**9**	**41**
1300 - 1315	0	3	1	0	2	0	0	0	0	0	0	0	0	**6**	
1315 - 1330	0	5	0	0	3	0	0	0	0	0	0	0	0	**8**	
1330 - 1345	0	5	0	0	0	0	0	0	0	0	0	0	0	**5**	
1345 - 1400	0	8	1	0	0	0	0	0	0	0	0	0	0	**9**	**28**
1400 - 1415	0	5	2	0	0	0	0	0	0	0	0	0	0	**7**	
1415 - 1430	0	7	2	0	1	0	0	0	0	0	0	0	0	**10**	
1430 - 1445	0	1	3	0	1	0	0	0	0	0	0	0	0	**5**	
1445 - 1500	0	8	2	0	2	0	0	0	0	0	0	0	0	**12**	**34**
1500 - 1515	0	6	3	1	4	0	0	0	0	0	0	0	0	**14**	
1515 - 1530	0	12	0	0	2	1	0	0	0	0	0	0	0	**15**	
1530 - 1545	0	8	0	0	2	0	0	0	0	0	0	0	0	**10**	
1545 - 1600	0	9	0	0	3	1	0	0	0	0	0	0	0	**13**	**52**
1600 - 1615	0	14	1	0	4	0	0	0	0	0	0	0	0	**19**	
1615 - 1630	0	7	3	0	3	0	0	0	0	0	0	0	0	**13**	
1630 - 1645	0	17	3	0	1	0	0	0	0	0	0	0	0	**21**	
1645 - 1700	0	10	1	0	3	0	0	0	0	0	0	0	0	**14**	**67**
1700 - 1715	0	16	0	0	2	0	0	0	0	0	0	0	0	**18**	
1715 - 1730	0	7	1	0	0	0	0	0	0	0	0	0	0	**8**	
1730 - 1745	0	18	1	0	3	0	0	0	0	0	0	0	0	**22**	
1745 - 1800	0	12	0	0	1	0	0	0	0	0	0	0	0	**13**	**61**
1800 - 1815	0	10	2	0	3	0	0	0	0	0	0	0	0	**15**	
1815 - 1830	0	11	1	0	1	0	0	0	0	0	0	0	0	**13**	
1830 - 1845	0	7	0	0	3	0	0	0	0	0	0	0	0	**10**	
1845 - 1900	0	4	0	0	0	0	0	0	0	0	0	0	0	**4**	**42**
1900 - 1915	0	11	1	0	0	0	0	0	0	0	0	0	0	**12**	
1915 - 1930	0	5	1	0	1	0	0	0	0	0	0	0	0	**7**	
1930 - 1945	0	9	0	0	2	0	0	0	0	0	0	0	0	**11**	
1945 - 2000	0	7	0	0	2	0	0	0	0	0	0	0	0	**9**	**39**
2000 - 2015	0	5	0	0	2	0	0	0	0	0	0	0	0	**7**	
2015 - 2030	0	12	1	0	3	0	0	0	0	0	0	0	0	**16**	
2030 - 2045	0	6	0	0	0	0	0	0	0	0	0	0	0	**6**	
2045 - 2100	0	8	0	0	0	0	0	0	0	0	0	0	0	**8**	**37**
2100 - 2115	0	3	0	0	0	0	0	0	0	0	0	0	0	**3**	
2115 - 2130	0	6	0	0	0	0	0	0	0	0	0	0	0	**6**	
2130 - 2145	0	2	0	0	1	0	0	0	0	0	0	0	0	**3**	
2145 - 2200	0	4	0	0	0	0	0	0	0	0	0	0	0	**4**	**16**
2200 - 2215	0	0	1	0	0	0	0	0	0	0	0	0	0	**1**	
2215 - 2230	0	1	0	0	1	0	0	0	0	0	0	0	0	**2**	
2230 - 2245	0	0	0	0	2	0	0	0	0	0	0	0	0	**2**	
2245 - 2300	0	1	0	0	0	0	0	0	0	0	0	0	0	**1**	**6**
2300 - 2315	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
2315 - 2330	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
2330 - 2345	0	1	0	0	0	0	0	0	0	0	0	0	0	**1**	
2345 - 0000	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**1**

Session Total	1	406	56	2	109	23	1	3	3	1	0	0	0	605
Session Average	0.01	4.23	0.58	0.02	1.14	0.24	0.01	0.03	0.03	0.01	0.00	0.00	0.00	**6.30**
Session Percentage	0.17	67.11	9.26	0.33	18.02	3.80	0.17	0.50	0.50	0.17	0.00	0.00	0.00	

AM Peak Hour	-	0745 - 0845	0915 - 1015	0930 - 1030	0745 - 0845	0630 - 0730	-	0900 - 1000	0715 - 0815	0730 - 0830	-	-	-	**0745 - 0845**
AM Peak Hour Volume	0	22	5	1	9	6	0	2	1	1	0	0	0	**35**

Noon Peak Hour	1145 - 1245	1445 - 1545	1415 - 1515	1000 - 1100	1115 - 1215	1030 - 1130	1015 - 1115	-	1200 - 1300	-	-	-	-	**1445 - 1545**
Noon Peak Hour Volume	1	34	10	1	10	9	1	0	1	0	0	0	0	**51**

PM Peak Hour	-	1700 - 1800	1600 - 1700	1500 - 1600	1530 - 1630	1500 - 1600	-	-	-	-	-	-	-	**1600 - 1700**
PM Peak Hour Volume	0	53	8	1	12	2	0	0	0	0	0	0	0	**67**

Site 3
Brandon Woods Dr,
east of Tristan Wy

Date
Wednesday, January 31, 2024

Weather
Mostly Cloudy
47°F

Click here for Detailed Weather

0000 - 2400 (Weekday 24h Session)
NB EB 15min

	Eastbound (Movement 3.1)														
Time	Class 1	Class 2	Class 3	Class 4	Class 5	Class 6	Class 7	Class 8	Class 9	Class 10	Class 11	Class 12	Class 13	15min Total	60min Total
0000 - 0015	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
0015 - 0030	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
0030 - 0045	0	1	0	0	0	0	0	0	0	0	0	0	0	**1**	
0045 - 0100	0	1	0	0	0	0	0	0	0	0	0	0	0	**1**	**2**
0100 - 0115	0	1	0	0	0	0	0	0	0	0	0	0	0	**1**	
0115 - 0130	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
0130 - 0145	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
0145 - 0200	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**1**
0200 - 0215	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
0215 - 0230	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
0230 - 0245	0	1	0	0	0	0	0	0	0	0	0	0	0	**1**	
0245 - 0300	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**1**
0300 - 0315	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
0315 - 0330	0	1	0	0	0	0	0	0	0	0	0	0	0	**1**	
0330 - 0345	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
0345 - 0400	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**1**
0400 - 0415	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
0415 - 0430	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
0430 - 0445	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
0445 - 0500	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**
0500 - 0515	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
0515 - 0530	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
0530 - 0545	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
0545 - 0600	0	2	0	0	0	0	0	0	0	0	0	0	0	**2**	**2**
0600 - 0615	0	2	0	0	0	0	0	0	0	0	0	0	0	**2**	
0615 - 0630	0	2	2	0	1	0	0	0	0	0	0	0	0	**5**	
0630 - 0645	0	1	1	0	1	0	0	0	0	0	0	0	0	**3**	
0645 - 0700	0	5	0	0	2	1	0	0	0	0	0	0	0	**8**	**18**
0700 - 0715	0	4	1	0	1	3	1	0	0	0	0	0	0	**10**	
0715 - 0730	0	2	1	0	1	0	0	0	0	0	0	0	0	**4**	
0730 - 0745	0	2	2	0	1	0	0	0	0	0	0	0	0	**5**	
0745 - 0800	0	3	2	0	2	3	0	0	0	0	0	0	0	**10**	**29**
0800 - 0815	0	8	2	0	2	3	0	0	0	0	0	0	0	**15**	
0815 - 0830	0	5	1	0	2	0	0	0	0	0	0	0	0	**8**	
0830 - 0845	0	3	1	0	0	0	0	1	0	0	0	0	0	**5**	
0845 - 0900	0	3	1	0	1	0	0	0	0	0	0	0	0	**5**	**33**
0900 - 0915	0	5	1	0	2	0	0	1	0	0	0	0	0	**9**	
0915 - 0930	0	2	2	0	1	0	0	0	0	0	0	0	0	**5**	
0930 - 0945	0	1	1	0	1	0	0	0	0	0	0	0	0	**3**	
0945 - 1000	0	4	1	0	1	0	0	0	0	0	0	0	0	**6**	**23**
1000 - 1015	0	2	1	0	1	0	0	0	0	0	0	0	0	**4**	
1015 - 1030	0	6	0	0	1	0	0	0	0	0	0	0	0	**7**	
1030 - 1045	0	3	1	0	2	0	0	0	0	0	0	0	0	**6**	
1045 - 1100	0	4	1	0	1	1	0	0	0	0	0	0	0	**7**	**24**
1100 - 1115	0	6	0	0	2	0	0	0	0	0	0	0	0	**8**	
1115 - 1130	0	5	0	0	1	0	0	0	0	0	0	0	0	**6**	
1130 - 1145	0	3	3	0	1	0	0	0	0	0	0	0	0	**7**	
1145 - 1200	0	5	1	0	1	0	0	0	0	0	0	0	0	**7**	**28**
1200 - 1215	0	2	1	0	0	0	0	0	0	0	0	0	0	**3**	
1215 - 1230	0	6	2	0	0	0	0	1	0	0	0	0	0	**9**	
1230 - 1245	0	2	0	0	1	0	0	0	0	0	0	0	0	**3**	
1245 - 1300	0	5	1	0	3	1	0	0	1	0	0	0	0	**11**	**26**
1300 - 1315	0	3	2	0	2	0	0	0	0	0	0	0	0	**7**	
1315 - 1330	0	8	1	0	1	0	0	0	0	0	0	0	0	**10**	
1330 - 1345	0	2	1	0	4	0	0	0	0	0	0	0	0	**7**	
1345 - 1400	0	9	1	0	0	0	0	0	0	0	0	0	0	**10**	**34**
1400 - 1415	0	5	2	0	1	1	0	0	0	0	0	0	0	**9**	
1415 - 1430	0	9	3	0	1	0	0	1	0	0	0	0	0	**14**	
1430 - 1445	0	5	1	0	1	0	0	0	0	0	0	0	0	**7**	
1445 - 1500	0	8	2	0	2	0	0	0	0	0	0	0	0	**12**	**42**
1500 - 1515	0	15	0	0	3	0	0	0	0	0	0	0	0	**18**	
1515 - 1530	0	8	0	0	1	1	0	0	0	0	0	0	0	**10**	
1530 - 1545	0	9	0	0	2	1	0	0	0	0	0	0	0	**12**	
1545 - 1600	0	7	0	0	2	0	0	0	0	0	0	0	0	**9**	**49**
1600 - 1615	0	12	1	0	3	0	0	0	0	0	0	0	0	**16**	
1615 - 1630	0	5	2	0	1	1	0	0	0	0	0	0	0	**9**	
1630 - 1645	0	12	4	0	2	0	0	0	0	0	0	0	0	**18**	
1645 - 1700	0	12	1	0	0	0	0	0	0	0	0	0	0	**13**	**56**
1700 - 1715	0	10	2	0	1	0	0	0	0	0	0	0	0	**13**	
1715 - 1730	0	10	1	0	1	0	0	0	0	0	0	0	0	**12**	
1730 - 1745	0	13	1	0	3	0	0	0	0	0	0	0	0	**17**	
1745 - 1800	0	16	1	0	2	0	0	0	0	0	0	0	0	**19**	**61**
1800 - 1815	0	12	0	0	3	0	0	0	0	0	0	0	0	**15**	
1815 - 1830	0	12	2	0	1	0	0	0	0	0	0	0	0	**15**	
1830 - 1845	0	8	1	0	0	0	0	0	0	0	0	0	0	**9**	
1845 - 1900	0	8	2	0	4	0	0	0	0	0	0	0	0	**14**	**53**
1900 - 1915	0	8	0	0	0	0	0	0	0	0	0	0	0	**8**	
1915 - 1930	0	7	0	0	0	0	0	0	0	0	0	0	0	**7**	
1930 - 1945	1	13	0	0	1	0	0	0	0	0	0	0	0	**15**	
1945 - 2000	0	7	0	0	0	0	0	0	0	0	0	0	0	**7**	**37**
2000 - 2015	0	4	0	0	1	0	0	0	0	0	0	0	0	**5**	
2015 - 2030	0	3	0	0	0	0	0	0	0	0	0	0	0	**3**	
2030 - 2045	0	5	0	0	1	0	0	0	0	0	0	0	0	**6**	
2045 - 2100	0	5	0	0	0	0	0	0	0	0	0	0	0	**5**	**19**
2100 - 2115	0	6	0	0	1	0	0	0	0	0	0	0	0	**7**	
2115 - 2130	0	2	1	0	0	0	0	0	0	0	0	0	0	**3**	
2130 - 2145	0	2	0	0	0	0	0	0	0	0	0	0	0	**2**	
2145 - 2200	0	3	0	0	1	0	0	0	0	0	0	0	0	**4**	**16**
2200 - 2215	0	2	1	0	0	0	0	0	0	0	0	0	0	**3**	
2215 - 2230	0	1	0	0	0	0	0	0	0	0	0	0	0	**1**	
2230 - 2245	0	1	0	0	0	0	0	0	0	0	0	0	0	**1**	
2245 - 2300	0	0	1	0	1	0	0	0	0	0	0	0	0	**2**	**7**
2300 - 2315	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
2315 - 2330	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
2330 - 2345	0	1	0	0	0	0	0	0	0	0	0	0	0	**1**	
2345 - 0000	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**1**

Session Total	1	396	64	0	80	16	1	4	1	0	0	0	0	**563**
Session Average	0.01	4.13	0.67	0.00	0.83	0.17	0.01	0.04	0.01	0.00	0.00	0.00	0.00	**5.86**
Session Percentage	0.18	70.34	11.37	0.00	14.21	2.84	0.18	0.71	0.18	0.00	0.00	0.00	0.00	

AM Peak Hour	-	0745 - 0845	0715 - 0815	-	0730 - 0830	0700 - 0800	0615 - 0715	0815 - 0915	-	-	-	-	-	**0730 - 0830**
AM Peak Hour Volume	0	19	7	0	7	6	1	2	0	0	0	0	0	**38**

Noon Peak Hour	-	1445 - 1545	1400 - 1500	-	1245 - 1345	1445 - 1545	-	1130 - 1230	1200 - 1300	-	-	-	-	**1445 - 1545**
Noon Peak Hour Volume	0	40	8	0	10	2	0	1	1	0	0	0	0	**52**

PM Peak Hour	1845 - 1945	1730 - 1830	1615 - 1715	-	1715 - 1815	1500 - 1600	-	-	-	-	-	-	-	**1730 - 1830**
PM Peak Hour Volume	1	53	9	0	9	2	0	0	0	0	0	0	0	**66**

Bi-Directional Speed & Class Count || SB WB 15min

Spring Hill, TN (Stone Creek)

Marr Traffic DATA COLLECTION
www.marrtraffic.com

Site 3
Brandon Woods Dr,
east of Tristan Wy

Date
Tuesday, January 30, 2024

Lat/Long
35.710935°, -86.893970°

Weather
Mostly Cloudy
42°F

Click here for Detailed Weather

Click here for Map

0000 - 2400 (Weekday 24h Session)
SB WB 15min

	Westbound (Movement 3.2)													15min	60min
Time	Class 1	Class 2	Class 3	Class 4	Class 5	Class 6	Class 7	Class 8	Class 9	Class 10	Class 11	Class 12	Class 13	Total	Total
0000 - 0015	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
0015 - 0030	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
0030 - 0045	0	0	1	0	0	0	0	0	0	0	0	0	0	**1**	
0045 - 0100	0	1	0	0	0	0	0	0	0	0	0	0	0	**1**	**2**
0100 - 0115	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
0115 - 0130	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
0130 - 0145	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
0145 - 0200	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**
0200 - 0215	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
0215 - 0230	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
0230 - 0245	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
0245 - 0300	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**
0300 - 0315	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
0315 - 0330	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
0330 - 0345	0	2	0	0	0	0	0	0	0	0	0	0	0	**2**	
0345 - 0400	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**2**
0400 - 0415	0	0	0	0	1	0	0	0	0	0	0	0	0	**1**	
0415 - 0430	0	1	0	0	0	0	0	0	0	0	0	0	0	**1**	
0430 - 0445	0	2	0	0	0	0	0	0	0	0	0	0	0	**2**	
0445 - 0500	0	0	1	0	0	0	0	0	0	0	0	0	0	**1**	**5**
0500 - 0515	0	3	3	0	0	0	0	0	0	0	0	0	0	**6**	
0515 - 0530	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
0530 - 0545	0	4	1	0	0	0	0	0	0	0	0	0	0	**5**	
0545 - 0600	0	3	2	0	0	0	0	0	0	0	0	0	0	**5**	**16**
0600 - 0615	0	6	1	0	3	0	0	0	0	0	0	0	0	**10**	
0615 - 0630	0	9	2	0	2	0	0	0	0	0	0	0	0	**13**	
0630 - 0645	0	11	4	0	2	0	0	0	0	0	0	0	0	**17**	
0645 - 0700	0	15	2	0	3	0	0	0	0	0	0	0	0	**20**	**60**
0700 - 0715	0	5	0	0	1	2	0	0	0	0	0	0	0	**8**	
0715 - 0730	0	21	3	0	2	2	0	0	0	0	0	0	0	**28**	
0730 - 0745	0	8	3	0	0	0	0	0	0	0	0	0	0	**11**	
0745 - 0800	0	17	3	0	0	1	0	0	0	0	0	0	0	**21**	**68**
0800 - 0815	0	7	0	0	1	0	0	0	0	0	0	0	0	**8**	
0815 - 0830	0	14	1	0	0	0	0	0	0	0	0	0	0	**15**	
0830 - 0845	0	9	0	0	0	0	0	0	0	1	0	0	0	**10**	
0845 - 0900	0	5	0	0	2	1	0	1	0	0	0	0	0	**9**	**42**
0900 - 0915	0	10	2	0	0	0	0	0	0	0	0	0	0	**12**	
0915 - 0930	0	5	1	0	0	0	0	0	0	0	0	0	0	**6**	
0930 - 0945	0	6	0	0	0	0	0	0	1	0	0	0	0	**7**	
0945 - 1000	0	3	4	0	2	0	0	0	0	0	0	0	0	**9**	**34**
1000 - 1015	0	10	1	0	2	0	0	0	0	0	0	0	0	**13**	
1015 - 1030	0	10	0	0	4	0	0	0	0	0	0	0	0	**14**	
1030 - 1045	0	3	1	1	3	0	0	0	0	0	0	0	0	**8**	
1045 - 1100	0	1	2	0	1	4	0	0	0	0	0	0	0	**8**	**43**
1100 - 1115	0	4	2	0	2	2	0	0	0	0	0	0	0	**10**	
1115 - 1130	0	3	1	0	0	3	0	0	0	0	0	0	0	**7**	
1130 - 1145	0	6	2	0	0	1	0	1	0	0	0	0	0	**10**	
1145 - 1200	0	4	2	0	1	0	0	0	0	0	0	0	0	**7**	**34**
1200 - 1215	0	6	0	0	1	1	0	0	0	0	0	0	0	**8**	
1215 - 1230	0	3	4	0	1	1	0	0	0	0	0	0	0	**9**	
1230 - 1245	0	10	5	0	2	3	0	0	0	0	0	0	0	**20**	
1245 - 1300	0	4	0	0	4	0	0	0	0	0	0	0	0	**8**	**45**
1300 - 1315	0	4	0	0	0	0	0	0	0	0	0	0	0	**4**	
1315 - 1330	0	7	2	0	1	0	0	0	1	0	0	0	0	**11**	
1330 - 1345	0	11	0	0	0	0	0	0	0	0	0	0	0	**11**	
1345 - 1400	0	7	0	0	1	0	0	0	0	0	0	0	0	**8**	**34**
1400 - 1415	0	7	2	0	0	0	0	0	0	0	0	0	0	**9**	
1415 - 1430	0	3	4	0	1	0	0	0	0	0	0	0	0	**8**	
1430 - 1445	0	9	2	0	0	0	0	0	0	0	0	0	0	**11**	
1445 - 1500	0	4	2	0	2	0	0	0	0	0	0	0	0	**8**	**36**
1500 - 1515	0	7	2	0	4	0	0	0	0	0	0	0	0	**13**	
1515 - 1530	0	6	1	0	0	0	0	0	0	0	0	0	0	**7**	
1530 - 1545	0	7	2	0	1	0	0	0	0	0	0	0	0	**10**	
1545 - 1600	0	4	1	0	2	0	0	0	0	0	0	0	0	**7**	**37**
1600 - 1615	0	9	0	0	1	0	0	0	0	0	0	0	0	**10**	
1615 - 1630	0	6	1	0	2	2	0	0	0	0	0	0	0	**11**	
1630 - 1645	0	6	5	0	1	0	0	0	0	0	0	0	0	**12**	
1645 - 1700	0	4	0	0	1	0	0	0	0	0	0	0	0	**5**	**38**
1700 - 1715	0	11	4	0	0	0	0	0	0	0	0	0	0	**15**	
1715 - 1730	0	8	0	0	1	0	0	0	0	0	0	0	0	**9**	
1730 - 1745	0	7	3	0	1	0	0	0	0	0	0	0	0	**11**	
1745 - 1800	0	9	1	0	1	0	0	0	0	0	0	0	0	**11**	**46**
1800 - 1815	0	3	2	0	4	0	0	0	0	0	0	0	0	**9**	
1815 - 1830	0	4	0	0	0	0	0	0	0	0	0	0	0	**4**	
1830 - 1845	0	6	0	0	0	0	0	0	0	0	0	0	0	**6**	
1845 - 1900	0	5	0	0	0	0	0	0	0	0	0	0	0	**5**	**24**
1900 - 1915	0	2	1	0	0	0	0	0	0	0	0	0	0	**3**	
1915 - 1930	0	7	0	0	0	0	0	0	0	0	0	0	0	**7**	
1930 - 1945	0	2	0	0	0	0	0	0	0	0	0	0	0	**2**	
1945 - 2000	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**12**
2000 - 2015	0	2	1	0	1	0	0	0	0	0	0	0	0	**4**	
2015 - 2030	0	4	0	0	3	0	0	0	0	0	0	0	0	**7**	
2030 - 2045	0	1	0	0	1	0	0	0	0	0	0	0	0	**2**	
2045 - 2100	0	4	0	0	0	0	0	0	0	0	0	0	0	**4**	**17**
2100 - 2115	0	1	0	0	0	0	0	0	0	0	0	0	0	**1**	
2115 - 2130	0	2	0	0	0	0	0	0	0	0	0	0	0	**2**	
2130 - 2145	0	1	0	0	0	0	0	0	0	0	0	0	0	**1**	
2145 - 2200	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**4**
2200 - 2215	0	1	0	0	0	0	0	0	0	0	0	0	0	**1**	
2215 - 2230	0	1	0	0	0	0	0	0	0	0	0	0	0	**1**	
2230 - 2245	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
2245 - 2300	0	0	1	0	0	0	0	0	0	0	0	0	0	**1**	**3**
2300 - 2315	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
2315 - 2330	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
2330 - 2345	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
2345 - 0000	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**

Session Total	0	413	91	1	69	23	0	2	2	1	0	0	0	602
Session Average	0.00	4.30	0.95	0.01	0.72	0.24	0.00	0.02	0.02	0.01	0.00	0.00	0.00	**6.27**
Session Percentage	0.00	68.60	15.12	0.17	11.46	3.82	0.00	0.33	0.33	0.17	0.00	0.00	0.00	

AM Peak Hour	-	0715 - 0815	0545 - 0645	0945 - 1045	0945 - 1045	0700 - 0800	-	0800 - 0900	0845 - 0945	0745 - 0845	-	-	-	**0630 - 0730**
AM Peak Hour Volume	0	53	9	1	11	5	0	1	1	1	0	0	0	**73**

Noon Peak Hour	-	1315 - 1415	1145 - 1245	1000 - 1100	1000 - 1100	1045 - 1145	-	1045 - 1145	1230 - 1330	-	-	-	-	**1200 - 1300**
Noon Peak Hour Volume	0	32	11	1	10	10	0	1	1	0	0	0	0	**45**

PM Peak Hour	-	1700 - 1800	1615 - 1715	-	1500 - 1600	1530 - 1630	-	-	-	-	-	-	-	**1700 - 1800**
PM Peak Hour Volume	0	35	10	0	7	2	0	0	0	0	0	0	0	**46**

Site 3
Brandon Woods Dr,
east of Tristan Wy

Date
Wednesday, January 31, 2024

Weather
Mostly Cloudy
47°F

Click here for Detailed Weather

0000 - 2400 (Weekday 24h Session)
SB WB 15min

	Westbound (Movement 3,2)													15min	60min
Time	Class 1	Class 2	Class 3	Class 4	Class 5	Class 6	Class 7	Class 8	Class 9	Class 10	Class 11	Class 12	Class 13	Total	Total
0000 - 0015	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
0015 - 0030	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
0030 - 0045	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
0045 - 0100	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**
0100 - 0115	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
0115 - 0130	0	1	0	0	0	0	0	0	0	0	0	0	0	**1**	
0130 - 0145	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
0145 - 0200	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**1**
0200 - 0215	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
0215 - 0230	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
0230 - 0245	0	1	1	0	0	0	0	0	0	0	0	0	0	**2**	
0245 - 0300	0	0	1	0	0	0	0	0	0	0	0	0	0	**1**	**3**
0300 - 0315	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
0315 - 0330	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
0330 - 0345	0	1	0	0	0	0	0	0	0	0	0	0	0	**1**	
0345 - 0400	0	1	0	0	0	0	0	0	0	0	0	0	0	**1**	**2**
0400 - 0415	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
0415 - 0430	0	1	0	0	0	0	0	0	0	0	0	0	0	**1**	
0430 - 0445	0	2	0	0	0	0	0	0	0	0	0	0	0	**2**	
0445 - 0500	0	3	1	0	0	0	0	0	0	0	0	0	0	**4**	**7**
0500 - 0515	0	1	1	0	0	0	0	0	0	0	0	0	0	**2**	
0515 - 0530	0	2	2	0	0	0	0	0	0	0	0	0	0	**4**	
0530 - 0545	0	6	0	0	0	0	0	0	0	0	0	0	0	**6**	
0545 - 0600	0	3	1	0	2	0	0	0	0	0	0	0	0	**6**	**18**
0600 - 0615	0	10	1	0	1	0	0	0	0	0	0	0	0	**12**	
0615 - 0630	0	10	4	0	2	0	0	0	0	0	0	0	0	**16**	
0630 - 0645	0	8	4	0	1	0	0	0	0	0	0	0	0	**13**	
0645 - 0700	0	13	3	0	0	0	0	0	0	0	0	0	0	**16**	**57**
0700 - 0715	0	13	0	0	0	3	0	0	0	0	0	0	0	**16**	
0715 - 0730	0	13	2	0	1	2	0	0	0	0	0	0	0	**18**	
0730 - 0745	0	6	2	0	0	0	0	0	0	0	0	0	0	**8**	
0745 - 0800	0	16	3	0	1	0	0	0	0	0	0	0	0	**20**	**62**
0800 - 0815	0	11	0	0	1	2	0	0	0	0	0	0	0	**14**	
0815 - 0830	0	8	2	0	0	2	0	0	0	0	0	0	0	**12**	
0830 - 0845	0	11	1	0	0	1	0	0	0	0	0	0	0	**13**	
0845 - 0900	0	8	1	0	1	0	0	0	0	0	0	0	0	**10**	**49**
0900 - 0915	0	6	1	0	0	0	0	0	0	0	0	0	0	**7**	
0915 - 0930	0	3	0	0	0	0	0	0	0	0	0	0	0	**3**	
0930 - 0945	0	7	3	0	1	0	0	0	0	0	0	0	0	**11**	
0945 - 1000	0	1	1	0	0	0	0	0	0	0	0	0	0	**2**	**23**
1000 - 1015	0	8	0	0	2	0	0	0	0	0	0	0	0	**10**	
1015 - 1030	0	10	2	0	1	1	0	0	0	0	0	0	0	**14**	
1030 - 1045	0	6	1	0	1	0	0	0	0	0	0	0	0	**8**	
1045 - 1100	0	5	2	0	0	0	0	0	0	0	0	0	0	**7**	**39**
1100 - 1115	0	3	0	0	2	0	0	0	0	0	0	0	0	**5**	
1115 - 1130	0	3	0	0	2	1	0	0	0	0	0	0	0	**6**	
1130 - 1145	0	7	3	0	1	0	0	2	0	0	0	0	0	**13**	
1145 - 1200	0	4	1	0	0	0	0	0	0	0	0	0	0	**5**	**29**
1200 - 1215	0	8	5	0	0	0	0	0	0	0	0	0	0	**13**	
1215 - 1230	0	5	2	0	0	0	0	0	0	0	0	0	0	**7**	
1230 - 1245	0	5	3	0	0	0	0	0	0	0	0	0	0	**8**	
1245 - 1300	0	6	1	0	1	0	0	0	0	0	0	0	0	**8**	**36**
1300 - 1315	0	5	1	0	1	1	0	0	0	0	0	0	0	**8**	
1315 - 1330	0	5	4	0	2	0	0	0	1	0	0	0	0	**12**	
1330 - 1345	0	6	1	0	1	0	0	0	0	0	0	0	0	**8**	
1345 - 1400	0	7	0	0	1	0	0	0	0	0	0	0	0	**8**	**36**
1400 - 1415	0	2	1	0	1	0	0	0	0	0	0	0	0	**4**	
1415 - 1430	0	5	3	0	0	0	0	0	0	0	0	0	0	**8**	
1430 - 1445	0	6	2	0	0	0	0	0	0	0	0	0	0	**8**	
1445 - 1500	0	8	4	0	0	0	0	0	0	0	0	0	0	**12**	**32**
1500 - 1515	0	5	1	0	3	0	0	0	0	0	0	0	0	**9**	
1515 - 1530	0	6	1	0	1	0	0	0	0	0	0	0	0	**8**	
1530 - 1545	0	7	0	0	0	1	0	1	0	0	0	0	0	**9**	
1545 - 1600	0	12	4	0	1	1	0	0	0	0	0	0	0	**18**	**44**
1600 - 1615	0	12	0	0	0	0	0	0	0	0	0	0	0	**12**	
1615 - 1630	0	6	1	0	0	1	0	0	0	0	0	0	0	**8**	
1630 - 1645	0	2	0	0	2	0	0	0	0	0	0	0	0	**4**	
1645 - 1700	0	5	0	0	1	0	0	0	0	0	0	0	0	**6**	**30**
1700 - 1715	0	9	1	0	0	0	0	0	0	0	0	0	0	**10**	
1715 - 1730	0	5	0	0	1	0	0	0	0	0	0	0	0	**6**	
1730 - 1745	0	7	2	0	3	0	0	0	0	0	0	0	0	**12**	
1745 - 1800	0	11	0	0	1	0	0	0	0	0	0	0	0	**12**	**40**
1800 - 1815	0	11	3	0	1	0	0	0	0	0	0	0	0	**15**	
1815 - 1830	0	6	3	0	0	0	0	0	0	0	0	0	0	**9**	
1830 - 1845	0	6	0	0	0	0	0	0	0	0	0	0	0	**6**	
1845 - 1900	0	0	3	0	0	0	0	0	0	0	0	0	0	**3**	**33**
1900 - 1915	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
1915 - 1930	0	3	0	0	0	0	0	0	0	0	0	0	0	**3**	
1930 - 1945	0	2	0	0	0	0	0	0	0	0	0	0	0	**2**	
1945 - 2000	0	3	0	0	0	0	0	0	0	0	0	0	0	**3**	**8**
2000 - 2015	0	1	0	0	2	0	0	0	0	0	0	0	0	**3**	
2015 - 2030	0	0	0	0	1	0	0	0	0	0	0	0	0	**1**	
2030 - 2045	0	4	0	0	0	0	0	0	0	0	0	0	0	**4**	
2045 - 2100	0	1	0	0	1	0	0	0	0	0	0	0	0	**2**	**10**
2100 - 2115	0	2	0	0	0	0	0	0	0	0	0	0	0	**2**	
2115 - 2130	0	1	0	0	0	0	0	0	0	0	0	0	0	**1**	
2130 - 2145	0	5	0	0	1	0	0	0	0	0	0	0	0	**6**	
2145 - 2200	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**9**
2200 - 2215	0	2	0	0	0	0	0	0	0	0	0	0	0	**2**	
2215 - 2230	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
2230 - 2245	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
2245 - 2300	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**2**
2300 - 2315	0	1	0	0	0	0	0	0	0	0	0	0	0	**1**	
2315 - 2330	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
2330 - 2345	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
2345 - 0000	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**1**

Session Total	0	415	90	0	46	16	0	3	1	0	0	0	0	**571**
Session Average	0.00	4.32	0.94	0.00	0.48	0.17	0.00	0.03	0.01	0.00	0.00	0.00	0.00	**5.95**
Session Percentage	0.00	72.68	15.76	0.00	8.06	2.80	0.00	0.53	0.18	0.00	0.00	0.00	0.00	

AM Peak Hour	-	0700 - 0800	0600 - 0700	-	0545 - 0645	0630 - 0730	-	-	-	-	-	-	-	**0630 - 0730**
AM Peak Hour Volume	0	48	12	0	6	5	0	0	0	0	0	0	0	**63**

Noon Peak Hour	-	1000 - 1100	1130 - 1230	-	1030 - 1130	1000 - 1100	-	1045 - 1145	1230 - 1330	-	-	-	-	**1000 - 1100**
Noon Peak Hour Volume	0	29	11	0	5	1	0	2	1	0	0	0	0	**39**

PM Peak Hour	-	1515 - 1615	1800 - 1900	-	1715 - 1815	1530 - 1630	-	1500 - 1600	-	-	-	-	-	**1730 - 1830**
PM Peak Hour Volume	0	37	9	0	6	3	0	1	0	0	0	0	0	**48**

Bi-Directional Speed & Class Count || NB EB Speed 15min

Spring Hill, TN (Stone Creek)

Marr Traffic DATA COLLECTION
www.marrtraffic.com

Site 3
Brandon Woods Dr,
east of Tristan Wy

Date
Tuesday, January 30, 2024

Lat/Long
35.710935°, -86.893970°

Weather
Mostly Cloudy
42°F

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0000 - 2400 (Weekday 24h Session)
NB EB Speed 15min

	Eastbound (Movement 3.1)															15min
Time	5-14 mph	15-19 mph	20-24 mph	25-29 mph	30-34 mph	35-39 mph	40-44 mph	45-49 mph	50-54 mph	55-59 mph	60-64 mph	65-69 mph	70-74 mph	75-79 mph	80-99 mph	Total
0000 - 0015	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
0015 - 0030	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0030 - 0045	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0045 - 0100	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
0100 - 0115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0115 - 0130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0130 - 0145	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0145 - 0200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0200 - 0215	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
0215 - 0230	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0230 - 0245	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0245 - 0300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0300 - 0315	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0315 - 0330	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
0330 - 0345	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0345 - 0400	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0400 - 0415	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0415 - 0430	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0430 - 0445	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0445 - 0500	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0500 - 0515	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
0515 - 0530	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0530 - 0545	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0545 - 0600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0600 - 0615	0	0	2	1	1	0	0	0	0	0	0	0	0	0	0	4
0615 - 0630	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	4
0630 - 0645	1	0	4	0	0	0	0	0	0	0	0	0	0	0	0	5
0645 - 0700	0	4	6	0	0	0	0	0	0	0	0	0	0	0	0	10
0700 - 0715	0	1	5	2	0	0	0	0	0	0	0	0	0	0	0	8
0715 - 0730	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0	6
0730 - 0745	0	0	1	3	0	0	0	0	0	0	0	0	0	0	0	4
0745 - 0800	0	3	5	2	1	0	0	0	0	0	0	0	0	0	0	11
0800 - 0815	0	4	5	1	1	0	0	0	0	0	0	0	0	0	0	11
0815 - 0830	1	1	2	1	0	0	0	0	0	0	0	0	0	0	0	5
0830 - 0845	0	2	3	1	2	0	0	0	0	0	0	0	0	0	0	8
0845 - 0900	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	5
0900 - 0915	0	0	4	1	0	1	0	0	0	0	0	0	0	0	0	6
0915 - 0930	1	3	0	4	0	0	0	0	0	0	0	0	0	0	0	8
0930 - 0945	1	2	1	5	0	0	0	0	0	0	0	0	0	0	0	9
0945 - 1000	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
1000 - 1015	0	0	3	3	2	0	0	0	0	0	0	0	0	0	0	8
1015 - 1030	0	2	3	0	1	0	0	0	0	0	0	0	0	0	0	6
1030 - 1045	0	2	7	1	0	0	0	0	0	0	0	0	0	0	0	10
1045 - 1100	0	2	4	3	1	0	0	0	0	0	0	0	0	0	0	10
1100 - 1115	0	2	6	2	0	0	0	0	0	0	0	0	0	0	0	10
1115 - 1130	1	1	2	1	0	0	0	0	0	0	0	0	0	0	0	5
1130 - 1145	1	5	4	5	0	0	0	0	0	0	0	0	0	0	0	15
1145 - 1200	0	1	5	0	0	0	0	0	0	0	0	0	0	0	0	6
1200 - 1215	0	2	5	3	0	0	0	0	0	0	0	0	0	0	0	10
1215 - 1230	0	3	5	1	1	0	0	0	0	0	0	0	0	0	0	10
1230 - 1245	1	6	4	1	0	0	0	0	0	0	0	0	0	0	0	12
1245 - 1300	0	6	1	1	1	0	0	0	0	0	0	0	0	0	0	9
1300 - 1315	0	1	4	1	0	0	0	0	0	0	0	0	0	0	0	6
1315 - 1330	0	3	4	1	0	0	0	0	0	0	0	0	0	0	0	8
1330 - 1345	0	2	3	0	0	0	0	0	0	0	0	0	0	0	0	5
1345 - 1400	0	1	5	1	2	0	0	0	0	0	0	0	0	0	0	9
1400 - 1415	0	3	4	0	0	0	0	0	0	0	0	0	0	0	0	7
1415 - 1430	0	5	2	3	0	0	0	0	0	0	0	0	0	0	0	10
1430 - 1445	0	2	3	0	0	0	0	0	0	0	0	0	0	0	0	5
1445 - 1500	0	2	9	1	0	0	0	0	0	0	0	0	0	0	0	12
1500 - 1515	0	2	7	4	0	0	0	0	1	0	0	0	0	0	0	14
1515 - 1530	0	3	8	4	0	0	0	0	0	0	0	0	0	0	0	15
1530 - 1545	0	3	6	1	0	0	0	0	0	0	0	0	0	0	0	10
1545 - 1600	1	1	8	2	1	0	0	0	0	0	0	0	0	0	0	13
1600 - 1615	1	5	8	4	1	0	0	0	0	0	0	0	0	0	0	19
1615 - 1630	0	2	6	5	0	0	0	0	0	0	0	0	0	0	0	13
1630 - 1645	0	8	10	3	0	0	0	0	0	0	0	0	0	0	0	21
1645 - 1700	0	3	8	3	0	0	0	0	0	0	0	0	0	0	0	14
1700 - 1715	0	5	11	2	0	0	0	0	0	0	0	0	0	0	0	18
1715 - 1730	0	4	4	0	0	0	0	0	0	0	0	0	0	0	0	8
1730 - 1745	0	5	9	8	0	0	0	0	0	0	0	0	0	0	0	22
1745 - 1800	1	2	4	5	1	0	0	0	0	0	0	0	0	0	0	13
1800 - 1815	0	1	11	3	0	0	0	0	0	0	0	0	0	0	0	15
1815 - 1830	0	1	6	5	0	1	0	0	0	0	0	0	0	0	0	13
1830 - 1845	0	1	4	5	0	0	0	0	0	0	0	0	0	0	0	10
1845 - 1900	0	0	1	2	1	0	0	0	0	0	0	0	0	0	0	4
1900 - 1915	0	1	6	5	0	0	0	0	0	0	0	0	0	0	0	12
1915 - 1930	0	0	5	2	0	0	0	0	0	0	0	0	0	0	0	7
1930 - 1945	0	1	6	4	0	0	0	0	0	0	0	0	0	0	0	11
1945 - 2000	0	2	5	2	0	0	0	0	0	0	0	0	0	0	0	9
2000 - 2015	0	1	1	4	1	0	0	0	0	0	0	0	0	0	0	7
2015 - 2030	1	5	5	5	0	0	0	0	0	0	0	0	0	0	0	16
2030 - 2045	0	2	0	4	0	0	0	0	0	0	0	0	0	0	0	6
2045 - 2100	0	1	4	3	0	0	0	0	0	0	0	0	0	0	0	8
2100 - 2115	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	3
2115 - 2130	0	1	3	2	0	0	0	0	0	0	0	0	0	0	0	6
2130 - 2145	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	3
2145 - 2200	0	0	3	1	0	0	0	0	0	0	0	0	0	0	0	4
2200 - 2215	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
2215 - 2230	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	2
2230 - 2245	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	2
2245 - 2300	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
2300 - 2315	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2315 - 2330	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2330 - 2345	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
2345 - 2400	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Session Total	11	136	284	149	21	3	0	0	1	0	0	0	0	0	0	605

10mph Pace Speed	Number in Pace
18-27	470 (77.7%)

15th Percentile	50th Percentile	Average	85th Percentile	95th Percentile
18	22	22	27	29

Site 3
Brandon Woods Dr,
east of Tristan Wy

Date
Wednesday, January 31, 2024

Weather
Mostly Cloudy
47°F

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0000 - 2400 (Weekday 24h Session)
NB EB Speed 15min

	Eastbound (Movement 3.1)															
Time	5-14 mph	15-19 mph	20-24 mph	25-29 mph	30-34 mph	35-39 mph	40-44 mph	45-49 mph	50-54 mph	55-59 mph	60-64 mph	65-69 mph	70-74 mph	75-79 mph	80-99 mph	15min Total
0000 - 0015	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
0015 - 0030	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
0030 - 0045	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	**1**
0045 - 0100	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	**1**
0100 - 0115	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	**1**
0115 - 0130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
0130 - 0145	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
0145 - 0200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
0200 - 0215	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
0215 - 0230	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
0230 - 0245	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	**1**
0245 - 0300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
0300 - 0315	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
0315 - 0330	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	**1**
0330 - 0345	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
0345 - 0400	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
0400 - 0415	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
0415 - 0430	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
0430 - 0445	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
0445 - 0500	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
0500 - 0515	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
0515 - 0530	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
0530 - 0545	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
0545 - 0600	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	**2**
0600 - 0615	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	**2**
0615 - 0630	0	0	3	2	0	0	0	0	0	0	0	0	0	0	0	**5**
0630 - 0645	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	**3**
0645 - 0700	1	4	3	0	0	0	0	0	0	0	0	0	0	0	0	**8**
0700 - 0715	0	5	3	1	1	0	0	0	0	0	0	0	0	0	0	**10**
0715 - 0730	1	0	2	1	0	0	0	0	0	0	0	0	0	0	0	**4**
0730 - 0745	0	1	3	1	0	0	0	0	0	0	0	0	0	0	0	**5**
0745 - 0800	2	2	6	0	0	0	0	0	0	0	0	0	0	0	0	**10**
0800 - 0815	0	6	9	0	0	0	0	0	0	0	0	0	0	0	0	**15**
0815 - 0830	0	0	4	4	0	0	0	0	0	0	0	0	0	0	0	**8**
0830 - 0845	0	1	4	0	0	0	0	0	0	0	0	0	0	0	0	**5**
0845 - 0900	0	0	3	2	0	0	0	0	0	0	0	0	0	0	0	**5**
0900 - 0915	0	2	7	0	0	0	0	0	0	0	0	0	0	0	0	**9**
0915 - 0930	0	1	2	2	0	0	0	0	0	0	0	0	0	0	0	**5**
0930 - 0945	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0	**3**
0945 - 1000	0	2	2	1	1	0	0	0	0	0	0	0	0	0	0	**6**
1000 - 1015	0	1	2	0	1	0	0	0	0	0	0	0	0	0	0	**4**
1015 - 1030	1	2	4	0	0	0	0	0	0	0	0	0	0	0	0	**7**
1030 - 1045	0	1	4	0	1	0	0	0	0	0	0	0	0	0	0	**6**
1045 - 1100	1	1	3	2	0	0	0	0	0	0	0	0	0	0	0	**7**
1100 - 1115	0	2	5	1	0	0	0	0	0	0	0	0	0	0	0	**8**
1115 - 1130	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	**6**
1130 - 1145	0	1	4	2	0	0	0	0	0	0	0	0	0	0	0	**7**
1145 - 1200	1	1	4	1	0	0	0	0	0	0	0	0	0	0	0	**7**
1200 - 1215	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	**3**
1215 - 1230	1	0	5	2	1	0	0	0	0	0	0	0	0	0	0	**9**
1230 - 1245	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	**3**
1245 - 1300	1	4	5	1	0	0	0	0	0	0	0	0	0	0	0	**11**
1300 - 1315	0	0	6	0	1	0	0	0	0	0	0	0	0	0	0	**7**
1315 - 1330	0	1	3	5	1	0	0	0	0	0	0	0	0	0	0	**10**
1330 - 1345	0	2	2	2	0	1	0	0	0	0	0	0	0	0	0	**7**
1345 - 1400	0	1	3	5	1	0	0	0	0	0	0	0	0	0	0	**10**
1400 - 1415	0	1	3	4	1	0	0	0	0	0	0	0	0	0	0	**9**
1415 - 1430	0	4	6	4	0	0	0	0	0	0	0	0	0	0	0	**14**
1430 - 1445	0	1	2	4	0	0	0	0	0	0	0	0	0	0	0	**7**
1445 - 1500	1	3	5	3	0	0	0	0	0	0	0	0	0	0	0	**12**
1500 - 1515	0	1	8	7	2	0	0	0	0	0	0	0	0	0	0	**18**
1515 - 1530	0	2	5	3	0	0	0	0	0	0	0	0	0	0	0	**10**
1530 - 1545	0	2	7	3	0	0	0	0	0	0	0	0	0	0	0	**12**
1545 - 1600	0	1	4	4	0	0	0	0	0	0	0	0	0	0	0	**9**
1600 - 1615	0	1	6	7	2	0	0	0	0	0	0	0	0	0	0	**16**
1615 - 1630	0	2	4	3	0	0	0	0	0	0	0	0	0	0	0	**9**
1630 - 1645	1	5	7	4	1	0	0	0	0	0	0	0	0	0	0	**18**
1645 - 1700	0	2	7	4	0	0	0	0	0	0	0	0	0	0	0	**13**
1700 - 1715	0	2	9	2	0	0	0	0	0	0	0	0	0	0	0	**13**
1715 - 1730	0	3	5	2	1	0	0	0	0	1	0	0	0	0	0	**12**
1730 - 1745	0	6	7	4	0	0	0	0	0	0	0	0	0	0	0	**17**
1745 - 1800	0	4	7	7	1	0	0	0	0	0	0	0	0	0	0	**19**
1800 - 1815	0	2	8	4	1	0	0	0	0	0	0	0	0	0	0	**15**
1815 - 1830	0	2	8	4	1	0	0	0	0	0	0	0	0	0	0	**15**
1830 - 1845	0	1	5	3	0	0	0	0	0	0	0	0	0	0	0	**9**
1845 - 1900	0	1	8	5	0	0	0	0	0	0	0	0	0	0	0	**14**
1900 - 1915	0	1	3	3	1	0	0	0	0	0	0	0	0	0	0	**8**
1915 - 1930	0	1	5	1	0	0	0	0	0	0	0	0	0	0	0	**7**
1930 - 1945	1	4	4	6	0	0	0	0	0	0	0	0	0	0	0	**15**
1945 - 2000	0	1	4	2	0	0	0	0	0	0	0	0	0	0	0	**7**
2000 - 2015	0	0	2	2	1	0	0	0	0	0	0	0	0	0	0	**5**
2015 - 2030	0	0	2	0	1	0	0	0	0	0	0	0	0	0	0	**3**
2030 - 2045	0	0	4	2	0	0	0	0	0	0	0	0	0	0	0	**6**
2045 - 2100	0	0	2	3	0	0	0	0	0	0	0	0	0	0	0	**5**
2100 - 2115	0	2	4	1	0	0	0	0	0	0	0	0	0	0	0	**7**
2115 - 2130	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	**3**
2130 - 2145	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	**2**
2145 - 2200	0	0	2	1	1	0	0	0	0	0	0	0	0	0	0	**4**
2200 - 2215	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	**3**
2215 - 2230	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	**1**
2230 - 2245	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	**1**
2245 - 2300	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	**2**
2300 - 2315	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
2315 - 2330	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
2330 - 2345	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	**1**
2345 - 2400	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Session Total	13	102	271	151	24	1	0	0	0	1	0	0	0	0	0	**563**

10mph Pace Speed	Number in Pace
18-27	444 (78.9%)

15th Percentile	50th Percentile	Average	85th Percentile	95th Percentile
19	23	23	27	29

Summary

Time	Eastbound (Movement 3.1)															Total
	5-14 mph	15-19 mph	20-24 mph	25-29 mph	30-34 mph	35-39 mph	40-44 mph	45-49 mph	50-54 mph	55-59 mph	60-64 mph	65-69 mph	70-74 mph	75-79 mph	80-99 mph	
Tuesday, January 30, 2024	11	136	284	149	21	3	0	0	1	0	0	0	0	0	0	605
Wednesday, January 31, 2024	13	102	271	151	24	1	0	0	0	1	0	0	0	0	0	563
Session Total	24	238	555	300	45	4	0	0	1	1	0	0	0	0	0	**1168**

Speed Statistics by 15min

Time	Total	% Split	Min	Max	Mean	Median	Percentile				>PSL (20mph)	>PSL % (20mph)
							15%	50%	85%	95%		
0000 - 0015	1	0.09	21	21	21	21	21	21	21	21	1	100
0015 - 0030	0	0.00	0	0	0	0	0	0	0	0	0	-
0030 - 0045	1	0.09	29	29	29	29	29	29	29	29	1	100
0045 - 0100	2	0.17	24	30	27	27	25	27	29	30	2	100
0100 - 0115	1	0.09	18	18	18	18	18	18	18	18	0	0
0115 - 0130	0	0.00	0	0	0	0	0	0	0	0	0	-
0130 - 0145	0	0.00	0	0	0	0	0	0	0	0	0	-
0145 - 0200	0	0.00	0	0	0	0	0	0	0	0	0	-
0200 - 0215	1	0.09	24	24	24	24	24	24	24	24	1	100
0215 - 0230	0	0.00	0	0	0	0	0	0	0	0	0	-
0230 - 0245	1	0.09	22	22	22	22	22	22	22	22	1	100
0245 - 0300	0	0.00	0	0	0	0	0	0	0	0	0	-
0300 - 0315	0	0.00	0	0	0	0	0	0	0	0	0	-
0315 - 0330	2	0.17	27	29	28	28	27	28	29	29	2	100
0330 - 0345	0	0.00	0	0	0	0	0	0	0	0	0	-
0345 - 0400	0	0.00	0	0	0	0	0	0	0	0	0	-
0400 - 0415	0	0.00	0	0	0	0	0	0	0	0	0	-
0415 - 0430	0	0.00	0	0	0	0	0	0	0	0	0	-
0430 - 0445	0	0.00	0	0	0	0	0	0	0	0	0	-
0445 - 0500	0	0.00	0	0	0	0	0	0	0	0	0	-
0500 - 0515	1	0.09	37	37	37	37	37	37	37	37	1	100
0515 - 0530	0	0.00	0	0	0	0	0	0	0	0	0	-
0530 - 0545	0	0.00	0	0	0	0	0	0	0	0	0	-
0545 - 0600	2	0.17	22	31	27	27	23	27	30	31	2	100
0600 - 0615	6	0.51	20	31	25	24	21	24	28	30	5	83
0615 - 0630	9	0.77	16	28	22	21	19	21	25	27	7	78
0630 - 0645	8	0.68	12	24	20	21	19	21	23	24	4	50
0645 - 0700	18	1.54	12	24	19	20	16	20	24	24	8	44
0700 - 0715	18	1.54	16	30	22	22	18	22	25	29	11	61
0715 - 0730	10	0.86	14	27	21	23	16	23	24	26	6	60
0730 - 0745	9	0.77	16	27	23	23	20	23	26	27	7	78
0745 - 0800	21	1.80	14	31	21	21	19	21	24	25	13	62
0800 - 0815	26	2.23	15	30	21	21	16	21	24	27	16	62
0815 - 0830	13	1.11	14	27	23	24	20	24	26	27	11	85
0830 - 0845	13	1.11	18	32	22	21	19	21	26	31	7	54
0845 - 0900	10	0.86	21	29	25	25	23	25	27	28	10	100
0900 - 0915	15	1.28	16	35	22	22	20	22	24	29	12	80
0915 - 0930	13	1.11	14	29	23	24	17	24	29	29	8	62
0930 - 0945	12	1.03	14	29	23	26	16	26	28	29	8	67
0945 - 1000	8	0.68	17	31	23	24	18	24	27	30	6	75
1000 - 1015	12	1.03	19	33	26	25	23	25	30	31	11	92
1015 - 1030	13	1.11	14	30	21	21	17	21	23	26	8	62
1030 - 1045	16	1.37	15	30	22	21	20	21	23	29	13	81
1045 - 1100	17	1.46	13	30	23	23	17	23	28	29	13	76
1100 - 1115	18	1.54	17	29	22	22	19	22	24	27	14	78
1115 - 1130	11	0.94	12	29	22	23	20	23	24	27	9	82
1130 - 1145	22	1.88	14	29	22	22	17	22	28	29	12	55
1145 - 1200	13	1.11	10	25	21	22	18	22	24	24	10	77
1200 - 1215	13	1.11	16	27	22	22	19	22	25	26	10	77
1215 - 1230	19	1.63	12	31	22	21	18	21	28	30	12	63
1230 - 1245	15	1.28	4	29	20	21	17	21	25	29	8	53
1245 - 1300	20	1.71	9	30	20	19	16	19	24	29	8	40
1300 - 1315	13	1.11	16	30	22	22	20	22	24	28	10	77
1315 - 1330	18	1.54	18	30	23	22	19	22	27	28	13	72
1330 - 1345	12	1.03	17	37	23	21	19	21	28	33	8	67
1345 - 1400	19	1.63	18	34	25	24	22	24	29	32	17	89
1400 - 1415	16	1.37	17	30	23	24	18	24	25	29	12	75
1415 - 1430	24	2.05	15	28	22	22	18	22	27	27	14	58
1430 - 1445	12	1.03	17	27	22	22	19	22	26	27	7	58
1445 - 1500	24	2.05	13	29	22	22	19	22	25	26	16	67
1500 - 1515	32	2.74	15	50	25	24	21	24	28	30	28	88
1515 - 1530	25	2.14	19	29	23	22	19	22	26	29	20	80
1530 - 1545	22	1.88	17	27	22	23	19	23	25	27	15	68
1545 - 1600	22	1.88	14	32	23	24	21	24	27	29	19	86
1600 - 1615	35	3.00	12	31	23	24	19	24	28	30	27	77
1615 - 1630	22	1.88	19	29	23	23	19	23	27	29	17	77
1630 - 1645	39	3.34	14	30	21	21	17	21	25	28	24	62
1645 - 1700	27	2.31	15	29	22	22	19	22	25	28	21	78
1700 - 1715	31	2.65	15	27	21	21	19	21	24	26	19	61
1715 - 1730	20	1.71	16	57	23	22	19	22	25	31	13	65
1730 - 1745	39	3.34	16	29	22	23	19	23	27	28	27	69
1745 - 1800	32	2.74	12	30	24	24	19	24	28	29	25	78
1800 - 1815	30	2.57	17	32	23	23	21	23	26	27	26	87
1815 - 1830	28	2.40	16	35	24	24	20	24	27	31	23	82
1830 - 1845	19	1.63	16	28	24	24	21	24	27	27	16	84
1845 - 1900	18	1.54	19	30	25	24	21	24	29	29	16	89
1900 - 1915	20	1.71	17	30	24	24	21	24	27	28	18	90
1915 - 1930	14	1.20	15	27	23	24	21	24	25	26	13	93
1930 - 1945	26	2.23	2	28	22	23	19	23	26	28	18	69
1945 - 2000	16	1.37	16	29	23	23	20	23	26	28	13	81
2000 - 2015	12	1.03	19	33	26	26	23	26	29	32	11	92
2015 - 2030	19	1.63	14	30	22	22	16	22	27	29	13	68
2030 - 2045	12	1.03	18	29	24	25	20	25	28	28	10	83
2045 - 2100	13	1.11	16	29	24	24	21	24	27	29	12	92
2100 - 2115	10	0.86	18	27	23	24	19	24	26	27	7	70
2115 - 2130	9	0.77	12	29	22	21	19	21	26	28	6	67
2130 - 2145	5	0.43	21	29	25	25	23	25	28	29	5	100
2145 - 2200	8	0.68	20	30	24	24	22	24	27	29	7	88
2200 - 2215	4	0.34	22	30	27	28	24	28	30	30	4	100
2215 - 2230	3	0.26	24	29	27	27	25	27	28	29	3	100
2230 - 2245	3	0.26	25	30	27	27	26	27	29	30	3	100
2245 - 2300	3	0.26	22	30	25	23	22	23	28	29	3	100
2300 - 2315	0	0.00	0	0	0	0	0	0	0	0	0	-
2315 - 2330	0	0.00	0	0	0	0	0	0	0	0	0	-
2330 - 2345	2	0.17	24	24	24	24	24	24	24	24	2	100
2345 - 2400	0	0.00	0	0	0	0	0	0	0	0	0	-
Session Total	1168		2	57	23	22	19	22	27	29	859	74

Bi-Directional Speed & Class Count || SB WB Speed 15min

Spring Hill, TN (Stone Creek)

Marr Traffic DATA COLLECTION
www.marrtraffic.com

Site 3
Brandon Woods Dr,
east of Tristan Wy

Date
Tuesday, January 30, 2024

Lat/Long
35.710935°, -86.893970°

Click here for Map

Weather
Mostly Cloudy
42°F

Click here for Detailed Weather

0000 - 2400 (Weekday 24h Session)
SB WB Speed 15min

	Westbound (Movement 3.2)															15min
Time	5-14 mph	15-19 mph	20-24 mph	25-29 mph	30-34 mph	35-39 mph	40-44 mph	45-49 mph	50-54 mph	55-59 mph	60-64 mph	65-69 mph	70-74 mph	75-79 mph	80-99 mph	Total
0000 - 0015	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
0015 - 0030	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
0030 - 0045	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	**1**
0045 - 0100	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	**1**
0100 - 0115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
0115 - 0130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
0130 - 0145	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
0145 - 0200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
0200 - 0215	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
0215 - 0230	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
0230 - 0245	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
0245 - 0300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
0300 - 0315	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
0315 - 0330	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
0330 - 0345	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	**2**
0345 - 0400	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
0400 - 0415	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	**1**
0415 - 0430	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	**1**
0430 - 0445	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	**2**
0445 - 0500	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	**1**
0500 - 0515	0	1	4	0	1	0	0	0	0	0	0	0	0	0	0	**6**
0515 - 0530	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
0530 - 0545	0	1	2	1	1	0	0	0	0	0	0	0	0	0	0	**5**
0545 - 0600	0	0	4	1	0	0	0	0	0	0	0	0	0	0	0	**5**
0600 - 0615	0	2	5	3	0	0	0	0	0	0	0	0	0	0	0	**10**
0615 - 0630	0	2	6	4	1	0	0	0	0	0	0	0	0	0	0	**13**
0630 - 0645	1	0	7	8	1	0	0	0	0	0	0	0	0	0	0	**17**
0645 - 0700	0	5	10	5	0	0	0	0	0	0	0	0	0	0	0	**20**
0700 - 0715	0	0	5	2	0	1	0	0	0	0	0	0	0	0	0	**8**
0715 - 0730	0	3	16	8	1	0	0	0	0	0	0	0	0	0	0	**28**
0730 - 0745	0	1	7	2	1	0	0	0	0	0	0	0	0	0	0	**11**
0745 - 0800	0	1	12	6	2	0	0	0	0	0	0	0	0	0	0	**21**
0800 - 0815	0	1	4	2	1	0	0	0	0	0	0	0	0	0	0	**8**
0815 - 0830	0	3	6	5	1	0	0	0	0	0	0	0	0	0	0	**15**
0830 - 0845	0	2	4	4	0	0	0	0	0	0	0	0	0	0	0	**10**
0845 - 0900	1	1	2	5	0	0	0	0	0	0	0	0	0	0	0	**9**
0900 - 0915	0	1	3	8	0	0	0	0	0	0	0	0	0	0	0	**12**
0915 - 0930	0	1	3	2	0	0	0	0	0	0	0	0	0	0	0	**6**
0930 - 0945	0	3	0	4	0	0	0	0	0	0	0	0	0	0	0	**7**
0945 - 1000	0	3	1	4	1	0	0	0	0	0	0	0	0	0	0	**9**
1000 - 1015	0	1	6	6	0	0	0	0	0	0	0	0	0	0	0	**13**
1015 - 1030	1	5	6	2	0	0	0	0	0	0	0	0	0	0	0	**14**
1030 - 1045	0	2	4	1	1	0	0	0	0	0	0	0	0	0	0	**8**
1045 - 1100	0	0	4	3	0	1	0	0	0	0	0	0	0	0	0	**8**
1100 - 1115	0	3	3	4	0	0	0	0	0	0	0	0	0	0	0	**10**
1115 - 1130	0	0	5	2	0	0	0	0	0	0	0	0	0	0	0	**7**
1130 - 1145	2	1	4	3	0	0	0	0	0	0	0	0	0	0	0	**10**
1145 - 1200	1	2	2	2	0	0	0	0	0	0	0	0	0	0	0	**7**
1200 - 1215	0	2	2	4	0	0	0	0	0	0	0	0	0	0	0	**8**
1215 - 1230	1	1	3	4	0	0	0	0	0	0	0	0	0	0	0	**9**
1230 - 1245	2	1	14	2	1	0	0	0	0	0	0	0	0	0	0	**20**
1245 - 1300	1	4	3	0	0	0	0	0	0	0	0	0	0	0	0	**8**
1300 - 1315	0	1	1	1	0	1	0	0	0	0	0	0	0	0	0	**4**
1315 - 1330	1	1	7	2	0	0	0	0	0	0	0	0	0	0	0	**11**
1330 - 1345	0	1	7	3	0	0	0	0	0	0	0	0	0	0	0	**11**
1345 - 1400	0	3	5	0	0	0	0	0	0	0	0	0	0	0	0	**8**
1400 - 1415	0	1	7	0	1	0	0	0	0	0	0	0	0	0	0	**9**
1415 - 1430	0	3	3	2	0	0	0	0	0	0	0	0	0	0	0	**8**
1430 - 1445	0	5	5	1	0	0	0	0	0	0	0	0	0	0	0	**11**
1445 - 1500	0	0	7	1	0	0	0	0	0	0	0	0	0	0	0	**8**
1500 - 1515	1	6	4	2	0	0	0	0	0	0	0	0	0	0	0	**13**
1515 - 1530	0	2	4	1	0	0	0	0	0	0	0	0	0	0	0	**7**
1530 - 1545	1	1	5	3	0	0	0	0	0	0	0	0	0	0	0	**10**
1545 - 1600	2	0	4	1	0	0	0	0	0	0	0	0	0	0	0	**7**
1600 - 1615	0	1	6	3	0	0	0	0	0	0	0	0	0	0	0	**10**
1615 - 1630	1	3	6	1	0	0	0	0	0	0	0	0	0	0	0	**11**
1630 - 1645	0	4	6	2	0	0	0	0	0	0	0	0	0	0	0	**12**
1645 - 1700	1	0	3	1	0	0	0	0	0	0	0	0	0	0	0	**5**
1700 - 1715	0	0	9	5	1	0	0	0	0	0	0	0	0	0	0	**15**
1715 - 1730	1	0	5	2	1	0	0	0	0	0	0	0	0	0	0	**9**
1730 - 1745	0	1	8	2	0	0	0	0	0	0	0	0	0	0	0	**11**
1745 - 1800	0	3	7	1	0	0	0	0	0	0	0	0	0	0	0	**11**
1800 - 1815	0	2	7	0	0	0	0	0	0	0	0	0	0	0	0	**9**
1815 - 1830	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	**4**
1830 - 1845	0	0	3	1	1	1	0	0	0	0	0	0	0	0	0	**6**
1845 - 1900	0	0	2	2	1	0	0	0	0	0	0	0	0	0	0	**5**
1900 - 1915	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	**3**
1915 - 1930	0	1	2	4	0	0	0	0	0	0	0	0	0	0	0	**7**
1930 - 1945	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	**2**
1945 - 2000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
2000 - 2015	0	0	3	1	0	0	0	0	0	0	0	0	0	0	0	**4**
2015 - 2030	0	2	4	1	0	0	0	0	0	0	0	0	0	0	0	**7**
2030 - 2045	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	**2**
2045 - 2100	0	0	0	3	1	0	0	0	0	0	0	0	0	0	0	**4**
2100 - 2115	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	**1**
2115 - 2130	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	**2**
2130 - 2145	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	**1**
2145 - 2200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
2200 - 2215	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	**1**
2215 - 2230	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	**1**
2230 - 2245	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
2245 - 2300	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	**1**
2300 - 2315	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
2315 - 2330	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
2330 - 2345	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
2345 - 2400	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Session Total	18	95	300	166	19	4	0	0	0	0	0	0	0	0	0	**602**

10mph Pace Speed	Number in Pace
18-27	489 (81.2%)

15th Percentile	50th Percentile	Average	85th Percentile	95th Percentile
19	23	23	26	29

Site 3
Brandon Woods Dr,
east of Tristan Wy

Date
Wednesday, January 31, 2024

Weather
Mostly Cloudy
47°F

Click here for Detailed Weather

0000 - 2400 (Weekday 24h Session)
SB WB Speed 15min

	Westbound (Movement 3.2)															15min
Time	5-14 mph	15-19 mph	20-24 mph	25-29 mph	30-34 mph	35-39 mph	40-44 mph	45-49 mph	50-54 mph	55-59 mph	60-64 mph	65-69 mph	70-74 mph	75-79 mph	80-99 mph	Total
0000 - 0015	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
0015 - 0030	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
0030 - 0045	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
0045 - 0100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
0100 - 0115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
0115 - 0130	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	**1**
0130 - 0145	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
0145 - 0200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
0200 - 0215	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
0215 - 0230	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
0230 - 0245	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	**2**
0245 - 0300	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	**1**
0300 - 0315	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
0315 - 0330	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
0330 - 0345	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	**1**
0345 - 0400	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**1**
0400 - 0415	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
0415 - 0430	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	**1**
0430 - 0445	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	**2**
0445 - 0500	0	1	2	1	0	0	0	0	0	0	0	0	0	0	0	**4**
0500 - 0515	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	**2**
0515 - 0530	0	0	1	2	1	0	0	0	0	0	0	0	0	0	0	**4**
0530 - 0545	0	1	3	2	0	0	0	0	0	0	0	0	0	0	0	**6**
0545 - 0600	0	0	2	3	1	0	0	0	0	0	0	0	0	0	0	**6**
0600 - 0615	0	2	8	2	0	0	0	0	0	0	0	0	0	0	0	**12**
0615 - 0630	0	2	10	4	0	0	0	0	0	0	0	0	0	0	0	**16**
0630 - 0645	0	0	7	6	0	0	0	0	0	0	0	0	0	0	0	**13**
0645 - 0700	1	1	7	5	2	0	0	0	0	0	0	0	0	0	0	**16**
0700 - 0715	0	4	8	3	1	0	0	0	0	0	0	0	0	0	0	**16**
0715 - 0730	0	0	14	4	0	0	0	0	0	0	0	0	0	0	0	**18**
0730 - 0745	0	1	4	3	0	0	0	0	0	0	0	0	0	0	0	**8**
0745 - 0800	1	0	12	7	0	0	0	0	0	0	0	0	0	0	0	**20**
0800 - 0815	0	0	6	7	0	1	0	0	0	0	0	0	0	0	0	**14**
0815 - 0830	0	6	1	3	2	0	0	0	0	0	0	0	0	0	0	**12**
0830 - 0845	1	3	4	4	1	0	0	0	0	0	0	0	0	0	0	**13**
0845 - 0900	1	0	8	1	0	0	0	0	0	0	0	0	0	0	0	**10**
0900 - 0915	2	2	1	2	0	0	0	0	0	0	0	0	0	0	0	**7**
0915 - 0930	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	**3**
0930 - 0945	0	2	5	4	0	0	0	0	0	0	0	0	0	0	0	**11**
0945 - 1000	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	**2**
1000 - 1015	0	1	4	4	1	0	0	0	0	0	0	0	0	0	0	**10**
1015 - 1030	1	1	6	6	0	0	0	0	0	0	0	0	0	0	0	**14**
1030 - 1045	0	0	3	4	1	0	0	0	0	0	0	0	0	0	0	**8**
1045 - 1100	0	0	4	2	1	0	0	0	0	0	0	0	0	0	0	**7**
1100 - 1115	0	1	3	1	0	0	0	0	0	0	0	0	0	0	0	**5**
1115 - 1130	0	2	2	2	0	0	0	0	0	0	0	0	0	0	0	**6**
1130 - 1145	0	1	5	6	1	0	0	0	0	0	0	0	0	0	0	**13**
1145 - 1200	0	1	2	2	0	0	0	0	0	0	0	0	0	0	0	**5**
1200 - 1215	0	1	5	6	1	0	0	0	0	0	0	0	0	0	0	**13**
1215 - 1230	0	1	6	0	0	0	0	0	0	0	0	0	0	0	0	**7**
1230 - 1245	0	2	3	3	0	0	0	0	0	0	0	0	0	0	0	**8**
1245 - 1300	1	1	3	3	0	0	0	0	0	0	0	0	0	0	0	**8**
1300 - 1315	0	1	5	2	0	0	0	0	0	0	0	0	0	0	0	**8**
1315 - 1330	0	3	3	5	1	0	0	0	0	0	0	0	0	0	0	**12**
1330 - 1345	0	0	6	1	1	0	0	0	0	0	0	0	0	0	0	**8**
1345 - 1400	0	1	6	1	0	0	0	0	0	0	0	0	0	0	0	**8**
1400 - 1415	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	**4**
1415 - 1430	0	0	5	2	1	0	0	0	0	0	0	0	0	0	0	**8**
1430 - 1445	0	0	4	3	0	1	0	0	0	0	0	0	0	0	0	**8**
1445 - 1500	0	1	4	6	0	1	0	0	0	0	0	0	0	0	0	**12**
1500 - 1515	0	0	7	2	0	0	0	0	0	0	0	0	0	0	0	**9**
1515 - 1530	0	1	6	1	0	0	0	0	0	0	0	0	0	0	0	**8**
1530 - 1545	0	1	4	2	2	0	0	0	0	0	0	0	0	0	0	**9**
1545 - 1600	1	2	9	5	1	0	0	0	0	0	0	0	0	0	0	**18**
1600 - 1615	0	0	8	4	0	0	0	0	0	0	0	0	0	0	0	**12**
1615 - 1630	0	0	5	3	0	0	0	0	0	0	0	0	0	0	0	**8**
1630 - 1645	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	**4**
1645 - 1700	0	1	4	0	1	0	0	0	0	0	0	0	0	0	0	**6**
1700 - 1715	0	0	6	4	0	0	0	0	0	0	0	0	0	0	0	**10**
1715 - 1730	0	1	2	2	1	0	0	0	0	0	0	0	0	0	0	**6**
1730 - 1745	0	3	5	3	0	1	0	0	0	0	0	0	0	0	0	**12**
1745 - 1800	0	2	4	6	0	0	0	0	0	0	0	0	0	0	0	**12**
1800 - 1815	0	2	12	1	0	0	0	0	0	0	0	0	0	0	0	**15**
1815 - 1830	0	2	3	3	1	0	0	0	0	0	0	0	0	0	0	**9**
1830 - 1845	0	0	1	4	1	0	0	0	0	0	0	0	0	0	0	**6**
1845 - 1900	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	**3**
1900 - 1915	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
1915 - 1930	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	**3**
1930 - 1945	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	**2**
1945 - 2000	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	**3**
2000 - 2015	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	**3**
2015 - 2030	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	**1**
2030 - 2045	0	0	3	1	0	0	0	0	0	0	0	0	0	0	0	**4**
2045 - 2100	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	**2**
2100 - 2115	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	**2**
2115 - 2130	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	**1**
2130 - 2145	0	1	1	4	0	0	0	0	0	0	0	0	0	0	0	**6**
2145 - 2200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
2200 - 2215	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	**2**
2215 - 2230	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
2230 - 2245	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
2245 - 2300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
2300 - 2315	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	**1**
2315 - 2330	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
2330 - 2345	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
2345 - 2400	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Session Total	10	64	285	184	24	4	0	0	0	0	0	0	0	0	0	**571**

10mph Pace Speed	Number in Pace
19-28	494 (86.5%)

15th Percentile	50th Percentile	Average	85th Percentile	95th Percentile
20	24	23	27	29

Summary

Time	Westbound (Movement 3.2)															Total
	5-14 mph	15-19 mph	20-24 mph	25-29 mph	30-34 mph	35-39 mph	40-44 mph	45-49 mph	50-54 mph	55-59 mph	60-64 mph	65-69 mph	70-74 mph	75-79 mph	80-99 mph	
Tuesday, January 30, 2024	18	95	300	166	19	4	0	0	0	0	0	0	0	0	0	**602**
Wednesday, January 31, 2024	10	64	285	184	24	4	0	0	0	0	0	0	0	0	0	**571**
Session Total	28	159	585	350	43	8	0	0	0	0	0	0	0	0	0	**1173**

Speed Statistics by 15min

Time	Total	% Split	Min	Max	Mean	Median	Percentile				>PSL (20mph)	>PSL % (20mph)
							15%	50%	85%	95%		
0000 - 0015	0	0.00	0	0	0	0	0	0	0	0	0	-
0015 - 0030	0	0.00	0	0	0	0	0	0	0	0	0	-
0030 - 0045	1	0.09	22	22	22	22	22	22	22	22	1	100
0045 - 0100	1	0.09	23	23	23	23	23	23	23	23	1	100
0100 - 0115	0	0.00	0	0	0	0	0	0	0	0	0	-
0115 - 0130	1	0.09	26	26	26	26	26	26	26	26	1	100
0130 - 0145	0	0.00	0	0	0	0	0	0	0	0	0	-
0145 - 0200	0	0.00	0	0	0	0	0	0	0	0	0	-
0200 - 0215	0	0.00	0	0	0	0	0	0	0	0	0	-
0215 - 0230	0	0.00	0	0	0	0	0	0	0	0	0	-
0230 - 0245	2	0.17	21	29	25	25	22	25	28	29	2	100
0245 - 0300	1	0.09	21	21	21	21	21	21	21	21	1	100
0300 - 0315	0	0.00	0	0	0	0	0	0	0	0	0	-
0315 - 0330	0	0.00	0	0	0	0	0	0	0	0	0	-
0330 - 0345	3	0.26	24	30	27	28	25	28	29	30	3	100
0345 - 0400	1	0.09	14	14	14	14	14	14	14	14	0	0
0400 - 0415	1	0.09	23	23	23	23	23	23	23	23	1	100
0415 - 0430	2	0.17	20	25	23	23	21	23	24	25	1	50
0430 - 0445	4	0.34	22	27	25	25	23	25	26	27	4	100
0445 - 0500	5	0.43	19	25	22	22	20	22	23	24	4	80
0500 - 0515	8	0.68	19	30	23	22	19	22	27	29	6	75
0515 - 0530	4	0.34	20	30	26	26	23	26	28	29	3	75
0530 - 0545	11	0.94	16	31	23	23	20	23	26	29	9	82
0545 - 0600	11	0.94	20	32	24	24	22	24	26	29	9	82
0600 - 0615	22	1.88	17	27	22	23	19	23	25	26	16	73
0615 - 0630	29	2.47	15	32	23	24	20	24	26	29	23	79
0630 - 0645	30	2.56	11	30	24	25	22	25	27	29	29	97
0645 - 0700	36	3.07	13	32	23	22	19	22	27	29	26	72
0700 - 0715	24	2.05	17	35	24	23	20	23	28	32	20	83
0715 - 0730	46	3.92	16	32	23	23	21	23	25	26	39	85
0730 - 0745	19	1.62	15	32	24	23	20	23	28	29	13	68
0745 - 0800	41	3.50	13	32	24	24	21	24	27	28	37	90
0800 - 0815	22	1.88	19	36	25	25	22	25	28	30	20	91
0815 - 0830	27	2.30	17	34	23	22	19	22	29	30	17	63
0830 - 0845	23	1.96	12	30	22	24	18	24	26	26	16	70
0845 - 0900	19	1.62	11	27	22	22	20	22	26	27	16	84
0900 - 0915	19	1.62	10	29	23	25	19	25	27	28	14	74
0915 - 0930	9	0.77	19	27	23	22	20	22	27	27	7	78
0930 - 0945	18	1.53	15	28	23	24	17	24	27	27	13	72
0945 - 1000	11	0.94	17	30	24	25	19	25	28	30	8	73
1000 - 1015	23	1.96	18	30	24	24	20	24	28	29	19	83
1015 - 1030	28	2.39	11	28	21	22	15	22	25	27	20	71
1030 - 1045	16	1.36	18	30	24	24	21	24	28	30	13	81
1045 - 1100	15	1.28	21	36	25	24	21	24	27	33	15	100
1100 - 1115	15	1.28	16	27	23	24	19	24	26	27	11	73
1115 - 1130	13	1.11	15	27	23	23	20	23	26	27	10	77
1130 - 1145	23	1.96	13	30	23	24	19	24	27	27	18	78
1145 - 1200	12	1.02	12	27	21	22	16	22	26	26	8	67
1200 - 1215	21	1.79	17	31	24	25	20	25	27	28	17	81
1215 - 1230	16	1.36	12	29	22	22	19	22	25	26	12	75
1230 - 1245	28	2.39	12	30	22	21	19	21	25	29	20	71
1245 - 1300	16	1.36	13	27	21	21	17	21	25	26	8	50
1300 - 1315	12	1.02	17	35	24	23	21	23	26	31	10	83
1315 - 1330	23	1.96	14	30	23	22	19	22	27	29	17	74
1330 - 1345	19	1.62	17	30	23	22	21	22	25	26	17	89
1345 - 1400	16	1.36	17	27	22	23	19	23	24	25	12	75
1400 - 1415	13	1.11	18	31	23	22	19	22	28	30	8	62
1415 - 1430	16	1.36	15	30	23	24	20	24	25	29	13	81
1430 - 1445	19	1.62	17	36	23	24	18	24	27	29	14	74
1445 - 1500	20	1.71	15	36	24	24	21	24	27	29	17	85
1500 - 1515	22	1.88	6	26	21	22	17	22	25	26	13	59
1515 - 1530	15	1.28	17	27	22	24	19	24	24	26	12	80
1530 - 1545	19	1.62	12	33	23	22	19	22	27	30	14	74
1545 - 1600	25	2.13	12	30	22	22	19	22	26	29	20	80
1600 - 1615	22	1.88	17	28	23	23	20	23	26	27	17	77
1615 - 1630	19	1.62	12	27	22	23	18	23	25	27	14	74
1630 - 1645	16	1.36	16	28	21	22	17	22	24	26	12	75
1645 - 1700	11	0.94	7	30	21	22	18	22	26	29	8	73
1700 - 1715	25	2.13	20	32	24	23	21	23	25	29	22	88
1715 - 1730	15	1.28	12	30	23	24	21	24	28	30	13	87
1730 - 1745	23	1.96	17	35	23	23	19	23	27	28	17	74
1745 - 1800	23	1.96	15	29	23	23	19	23	27	27	15	65
1800 - 1815	24	2.05	18	26	22	23	19	23	24	24	19	79
1815 - 1830	13	1.11	19	30	25	26	21	26	29	29	11	85
1830 - 1845	12	1.02	21	35	27	27	23	27	31	33	12	100
1845 - 1900	8	0.68	19	31	23	22	21	22	25	29	7	88
1900 - 1915	3	0.26	22	26	23	22	22	22	25	26	3	100
1915 - 1930	10	0.85	17	26	23	24	20	24	25	26	8	80
1930 - 1945	4	0.34	19	28	24	24	21	24	26	27	3	75
1945 - 2000	3	0.26	20	26	24	25	22	25	26	26	2	67
2000 - 2015	7	0.60	21	27	24	25	21	25	26	27	7	100
2015 - 2030	8	0.68	17	25	22	22	19	22	24	25	6	75
2030 - 2045	6	0.51	21	27	24	25	21	25	26	27	6	100
2045 - 2100	6	0.51	25	30	27	27	25	27	29	30	6	100
2100 - 2115	3	0.26	21	26	24	24	22	24	25	26	3	100
2115 - 2130	3	0.26	17	26	22	24	19	24	25	26	2	67
2130 - 2145	7	0.60	18	29	25	26	23	26	27	28	6	86
2145 - 2200	0	0.00	0	0	0	0	0	0	0	0	0	-
2200 - 2215	3	0.26	21	24	22	22	21	22	23	24	3	100
2215 - 2230	1	0.09	29	29	29	29	29	29	29	29	1	100
2230 - 2245	0	0.00	0	0	0	0	0	0	0	0	0	-
2245 - 2300	1	0.09	21	21	21	21	21	21	21	21	1	100
2300 - 2315	1	0.09	24	24	24	24	24	24	24	24	1	100
2315 - 2330	0	0.00	0	0	0	0	0	0	0	0	0	-
2330 - 2345	0	0.00	0	0	0	0	0	0	0	0	0	-
2345 - 2400	0	0.00	0	0	0	0	0	0	0	0	0	-
Session Total	1173		6	36	23	23	19	23	27	29	923	79

Bi-Directional Speed & Class Count || Graphical Analysis NB EB

Spring Hill, TN (Stone Creek)

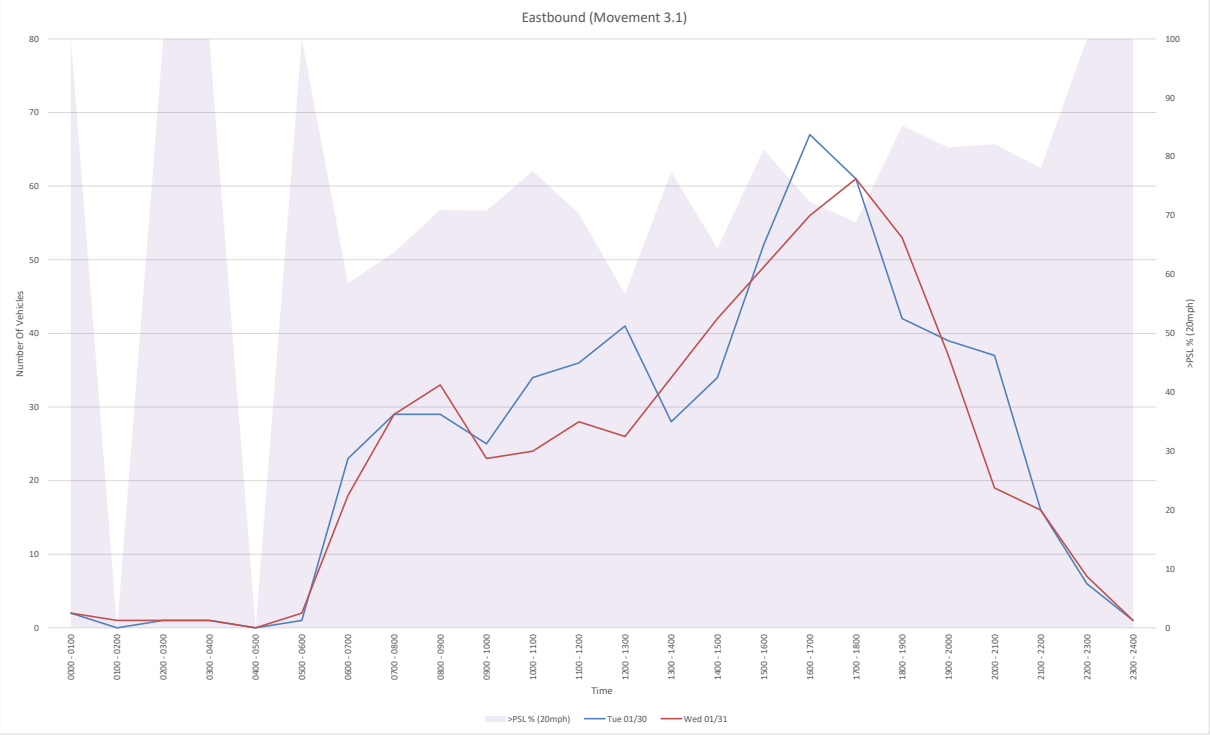
Marr Traffic DATA COLLECTION
www.marrtraffic.com

Site 3
Brandon Woods Dr,
east of Tristan Wy

Lat/Long
35.710935°, -86.893970°

Click here for Map

0000 - 2400 (Weekday 24h Session)
Graphical Analysis NB EB



Bi-Directional Speed & Class Count || Graphical Analysis SB WB

Spring Hill, TN (Stone Creek)

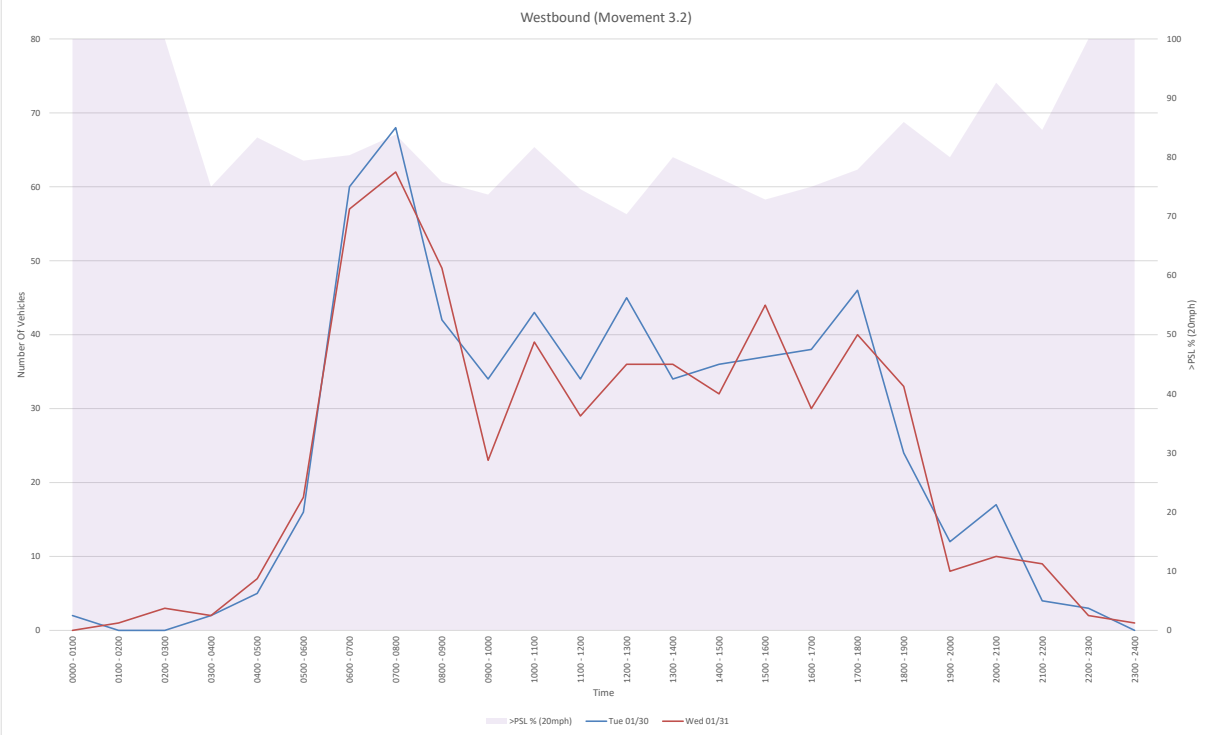
Marr Traffic DATA COLLECTION
www.marrtraffic.com

Site 3
Brandon Woods Dr,
east of Tristan Wy

Lat/Long
35.710935°, -86.893970°

Click here for Map

0000 - 2400 (Weekday 24h Session)
Graphical Analysis SB WB



Bi-Directional Speed & Class Count || Graphical Analysis Bi-Direction

Spring Hill, TN (Stone Creek)

Marr Traffic DATA COLLECTION
www.marrtraffic.com

Site 3

Brandon Woods Dr,
east of Tristan Wy

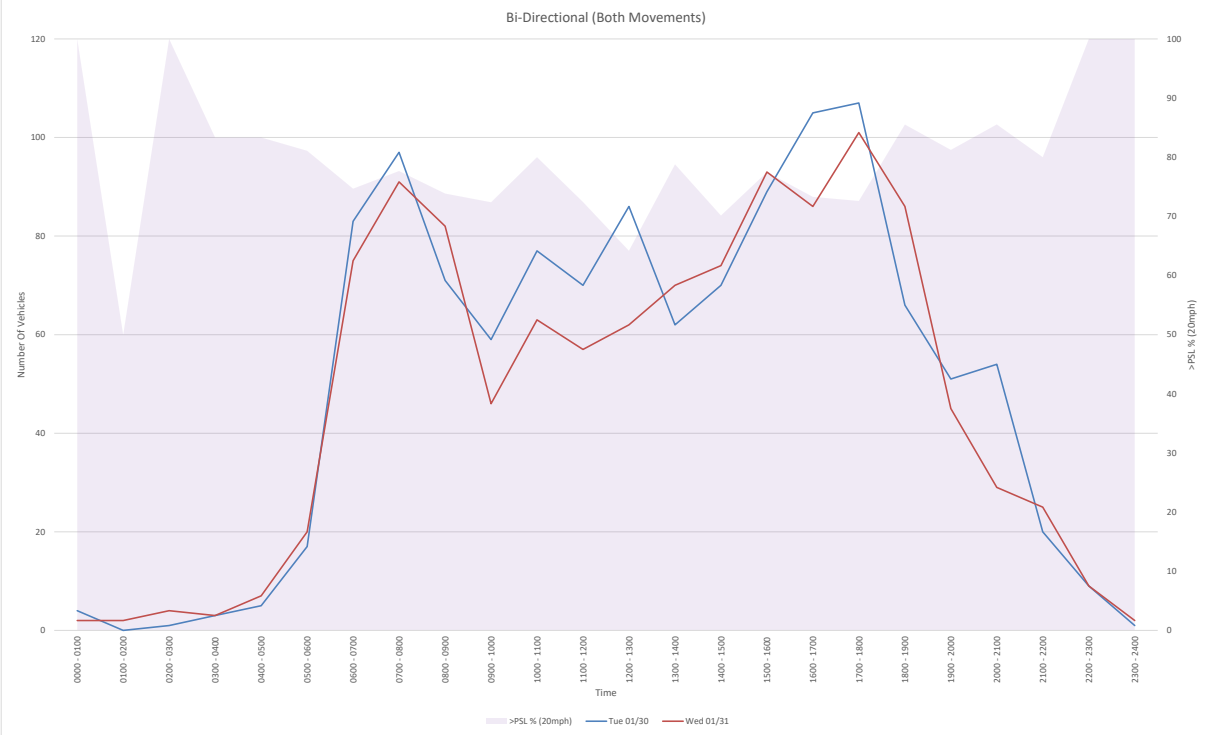
Lat/Long

35.710935°, -86.893970°

Click here for Map

0000 - 2400 (Weekday 24h Session)

Graphical Analysis Bi-Direction



Peak Hour Turning Movement Count

Spring Hill, TN (Stone Creek)

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Marr Traffic DATA COLLECTION

www.marrtraffic.com

Tuesday, January 30, 2024	
Period	0630 - 0830
Peak Hour	0715 - 0815

* the Peak Hour Diagram does not include Bikes

All vehicles

	Northbound						Southbound						Eastbound						Westbound						
	Port Royal Rd (South)						Port Royal Rd (North)						Driveway						Derryberry Ln N						
	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Int
Time	1.1	1.2	1.3		1.4	Total	1.5	1.6	1.7		1.8	Total	1.9	1.10	1.11		1.12	Total	1.13	1.14	1.15		1.16	Total	Total
0715 - 0730	0	147	11	-	0	158	31	45	1	-	0	77	0	0	0	-	0	0	8	0	79	-	0	87	322
0730 - 0745	0	135	24	-	0	159	50	43	0	-	0	93	0	0	0	-	0	0	5	0	92	-	0	97	349
0745 - 0800	0	125	43	-	0	168	76	38	0	-	0	114	0	0	0	-	0	0	3	0	104	-	0	107	389
0800 - 0815	0	124	18	-	0	142	62	42	0	-	0	104	0	1	0	-	0	1	8	0	123	-	0	131	378
Total	0	531	96	0	0	627	219	168	1	0	0	388	0	1	0	0	0	1	24	0	398	0	0	422	1438
Approach %	0.00	84.69	15.31	0.00	0.00	-	56.44	43.30	0.26	0.00	0.00	-	0.00	100.00	0.00	0.00	0.00	-	5.69	0.00	94.31	0.00	0.00	-	
PHF	0.00	0.90	0.56	0.00	0.00	**0.93**	0.72	0.93	0.25	0.00	0.00	**0.85**	0.00	0.25	0.00	0.00	0.00	**0.25**	0.75	0.00	0.81	0.00	0.00	**0.81**	**0.92**

Passenger Vehicles (1-3)

	Northbound						Southbound						Eastbound						Westbound						
	Port Royal Rd (South)						Port Royal Rd (North)						Driveway						Derryberry Ln N						
	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Int
Time	1.1	1.2	1.3		1.4	Total	1.5	1.6	1.7		1.8	Total	1.9	1.10	1.11		1.12	Total	1.13	1.14	1.15		1.16	Total	Total
0715 - 0730	0	142	11	-	0	153	30	43	1	-	0	74	0	0	0	-	0	0	8	0	78	-	0	86	313
0730 - 0745	0	135	24	-	0	159	47	39	0	-	0	86	0	0	0	-	0	0	5	0	90	-	0	95	340
0745 - 0800	0	122	42	-	0	164	74	36	0	-	0	110	0	0	0	-	0	0	3	0	102	-	0	105	379
0800 - 0815	0	120	18	-	0	138	62	37	0	-	0	99	0	0	0	-	0	0	8	0	121	-	0	129	366
Total	0	519	95	0	0	614	213	155	1	0	0	369	0	0	0	0	0	0	24	0	391	0	0	415	1398
Approach %	0.00	84.53	15.47	0.00	0.00	-	57.72	42.01	0.27	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	-	5.78	0.00	94.22	0.00	0.00	-	
PHF	0.00	0.91	0.57	0.00	0.00	**0.94**	0.72	0.90	0.25	0.00	0.00	**0.84**	0.00	0.00	0.00	0.00	0.00	**0.00**	0.75	0.00	0.81	0.00	0.00	**0.80**	**0.92**

Single Unit Trucks (4-7)

	Northbound						Southbound						Eastbound						Westbound						
	Port Royal Rd (South)						Port Royal Rd (North)						Driveway						Derryberry Ln N						
	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Int
Time	1.1	1.2	1.3		1.4	Total	1.5	1.6	1.7		1.8	Total	1.9	1.10	1.11		1.12	Total	1.13	1.14	1.15		1.16	Total	Total
0715 - 0730	0	4	0	-	0	4	1	2	0	-	0	3	0	0	0	-	0	0	0	0	1	-	0	1	8
0730 - 0745	0	0	0	-	0	0	3	4	0	-	0	7	0	0	0	-	0	0	0	0	2	-	0	2	9
0745 - 0800	0	3	1	-	0	4	2	2	0	-	0	4	0	0	0	-	0	0	0	0	2	-	0	2	10
0800 - 0815	0	4	0	-	0	4	0	3	0	-	0	3	0	0	0	-	0	0	0	0	2	-	0	2	9
Total	0	11	1	0	0	12	6	11	0	0	0	17	0	0	0	0	0	0	0	0	7	0	0	7	36
Approach %	0.00	91.67	8.33	0.00	0.00	-	35.29	64.71	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	100.00	0.00	0.00	-	
PHF	0.00	0.69	0.25	0.00	0.00	**0.75**	0.50	0.69	0.00	0.00	0.00	**0.61**	0.00	0.00	0.00	0.00	0.00	**0.00**	0.00	0.00	0.88	0.00	0.00	**0.88**	**0.90**

Combination Trucks (8-13)

	Northbound						Southbound						Eastbound						Westbound						
	Port Royal Rd (South)						Port Royal Rd (North)						Driveway						Derryberry Ln N						
	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Int
Time	1.1	1.2	1.3		1.4	Total	1.5	1.6	1.7		1.8	Total	1.9	1.10	1.11		1.12	Total	1.13	1.14	1.15		1.16	Total	Total
0715 - 0730	0	1	0	-	0	1	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	1
0730 - 0745	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0
0745 - 0800	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0
0800 - 0815	0	0	0	-	0	0	0	2	0	-	0	2	0	1	0	-	0	1	0	0	0	-	0	0	3
Total	0	1	0	0	0	1	0	2	0	0	0	2	0	1	0	0	0	1	0	0	0	0	0	0	4
Approach %	0.00	100.00	0.00	0.00	0.00	-	0.00	100.00	0.00	0.00	0.00	-	0.00	100.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	-	
PHF	0.00	0.25	0.00	0.00	0.00	**0.25**	0.00	0.25	0.00	0.00	0.00	**0.25**	0.00	0.25	0.00	0.00	0.00	**0.25**	0.00	0.00	0.00	0.00	0.00	**0.00**	**0.33**

Bikes

	Northbound						Southbound						Eastbound						Westbound						
	Port Royal Rd (South)						Port Royal Rd (North)						Driveway						Derryberry Ln N						
	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Int
Time	1.1	1.2	1.3		1.4	Total	1.5	1.6	1.7		1.8	Total	1.9	1.10	1.11		1.12	Total	1.13	1.14	1.15		1.16	Total	Total
0715 - 0730	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0
0730 - 0745	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0
0745 - 0800	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0
0800 - 0815	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Approach %	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	-	
PHF	0.00	0.00	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	**0.00**	**0.00**

Peak Hour Turning Movement Count

Spring Hill, TN (Stone Creek)

Click here for Map

Marr Traffic DATA COLLECTION

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Tuesday, January 30, 2024	
Period	1430 - 1830
Peak Hour	1700 - 1800

* the Peak Hour Diagram does not include Bikes

Session Parameters

(Drop Down Menu)

Peak Hour

Volume

All vehicles

	Northbound						Southbound						Eastbound						Westbound						
	Port Royal Rd (South)						Port Royal Rd (North)						Driveway						Derryberry Ln N						
	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Int
Time	1.1	1.2	1.3		1.4	Total	1.5	1.6	1.7		1.8	Total	1.9	1.10	1.11		1.12	Total	1.13	1.14	1.15		1.16	Total	Total
1700 - 1715	0	96	2	-	0	98	63	156	0	-	0	219	0	0	0	-	0	0	4	0	33	-	0	37	354
1715 - 1730	0	98	10	-	0	108	74	145	0	-	0	219	0	2	0	-	0	2	1	0	32	-	0	33	362
1730 - 1745	0	94	2	-	0	96	76	166	1	-	0	243	0	0	0	-	0	0	2	0	31	-	0	33	372
1745 - 1800	0	104	8	-	0	112	80	157	0	-	0	237	0	2	0	-	0	2	0	0	39	-	0	39	390
Total	0	392	22	0	0	414	293	624	1	0	0	918	0	4	0	0	0	4	7	0	135	0	0	142	1478
Approach %	0.00	94.69	5.31	0.00	0.00	-	31.92	67.97	0.11	0.00	0.00	-	0.00	100.00	0.00	0.00	0.00	-	4.93	0.00	95.07	0.00	0.00	-	
PHF	0.00	0.94	0.55	0.00	0.00	**0.92**	0.92	0.94	0.25	0.00	0.00	**0.94**	0.00	0.50	0.00	0.00	0.00	**0.50**	0.44	0.00	0.87	0.00	0.00	**0.91**	**0.95**

Passenger Vehicles (1-3)

	Northbound						Southbound						Eastbound						Westbound						
	Port Royal Rd (South)						Port Royal Rd (North)						Driveway						Derryberry Ln N						
	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Int
Time	1.1	1.2	1.3		1.4	Total	1.5	1.6	1.7		1.8	Total	1.9	1.10	1.11		1.12	Total	1.13	1.14	1.15		1.16	Total	Total
1700 - 1715	0	93	2	-	0	95	62	154	0	-	0	216	0	0	0	-	0	0	4	0	32	-	0	36	347
1715 - 1730	0	97	9	-	0	106	74	145	0	-	0	219	0	2	0	-	0	2	1	0	31	-	0	32	359
1730 - 1745	0	93	2	-	0	95	75	165	1	-	0	241	0	0	0	-	0	0	2	0	31	-	0	33	369
1745 - 1800	0	104	8	-	0	112	79	156	0	-	0	235	0	1	0	-	0	1	0	0	38	-	0	38	386
Total	0	387	21	0	0	408	290	620	1	0	0	911	0	3	0	0	0	3	7	0	132	0	0	139	1461
Approach %	0.00	94.85	5.15	0.00	0.00	-	31.83	68.06	0.11	0.00	0.00	-	0.00	100.00	0.00	0.00	0.00	-	5.04	0.00	94.96	0.00	0.00	-	
PHF	0.00	0.93	0.58	0.00	0.00	**0.91**	0.92	0.94	0.25	0.00	0.00	**0.95**	0.00	0.38	0.00	0.00	0.00	**0.38**	0.44	0.00	0.87	0.00	0.00	**0.91**	**0.95**

Single Unit Trucks (4-7)

	Northbound						Southbound						Eastbound						Westbound						
	Port Royal Rd (South)						Port Royal Rd (North)						Driveway						Derryberry Ln N						
	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Int
Time	1.1	1.2	1.3		1.4	Total	1.5	1.6	1.7		1.8	Total	1.9	1.10	1.11		1.12	Total	1.13	1.14	1.15		1.16	Total	Total
1700 - 1715	0	3	0	-	0	3	1	2	0	-	0	3	0	0	0	-	0	0	0	0	1	-	0	1	7
1715 - 1730	0	1	1	-	0	2	0	0	0	-	0	0	0	0	0	-	0	0	0	0	1	-	0	1	3
1730 - 1745	0	1	0	-	0	1	1	1	0	-	0	2	0	0	0	-	0	0	0	0	0	-	0	0	3
1745 - 1800	0	0	0	-	0	0	1	1	0	-	0	2	0	0	0	-	0	0	0	0	1	-	0	1	3
Total	0	5	1	0	0	6	3	4	0	0	0	7	0	0	0	0	0	0	0	0	3	0	0	3	16
Approach %	0.00	83.33	16.67	0.00	0.00	-	42.86	57.14	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	100.00	0.00	0.00	-	
PHF	0.00	0.42	0.25	0.00	0.00	**0.50**	0.75	0.50	0.00	0.00	0.00	**0.58**	0.00	0.00	0.00	0.00	0.00	**0.00**	0.00	0.00	0.75	0.00	0.00	**0.75**	**0.57**

Combination Trucks (8-13)

	Northbound						Southbound						Eastbound						Westbound						
	Port Royal Rd (South)						Port Royal Rd (North)						Driveway						Derryberry Ln N						
	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Int
Time	1.1	1.2	1.3		1.4	Total	1.5	1.6	1.7		1.8	Total	1.9	1.10	1.11		1.12	Total	1.13	1.14	1.15		1.16	Total	Total
1700 - 1715	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0
1715 - 1730	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0
1730 - 1745	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0
1745 - 1800	0	0	0	-	0	0	0	0	0	-	0	0	0	1	0	-	0	1	0	0	0	-	0	0	1
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	1
Approach %	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	-	0.00	100.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	-	
PHF	0.00	0.00	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	**0.00**	0.00	0.25	0.00	0.00	0.00	**0.25**	0.00	0.00	0.00	0.00	0.00	**0.00**	**0.25**

Bikes

	Northbound						Southbound						Eastbound						Westbound						
	Port Royal Rd (South)						Port Royal Rd (North)						Driveway						Derryberry Ln N						
	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Int
Time	1.1	1.2	1.3		1.4	Total	1.5	1.6	1.7		1.8	Total	1.9	1.10	1.11		1.12	Total	1.13	1.14	1.15		1.16	Total	Total
1700 - 1715	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0
1715 - 1730	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0
1730 - 1745	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0
1745 - 1800	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Approach %	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	-	
PHF	0.00	0.00	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	**0.00**	**0.00**

Classified Turn Movement Count || All vehicles

Spring Hill, TN (Stone Creek)

Marr Traffic DATA COLLECTION
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Site 1
Port Royal Rd (South)
Port Royal Rd (North)
Driveway
Derryberry Ln N

Date
Tuesday, January 30, 2024

Lat/Long
35.723763°, -86.895199°
Click here for Map

Weather
Mostly Cloudy
42°F
Click here for Detailed Weather

0630 - 0830 (Weekday 2h Session) (01-30-2024)
All vehicles

	Northbound					Southbound					Eastbound					Westbound					
	Port Royal Rd (South)					Port Royal Rd (North)					Driveway					Derryberry Ln N					
	Left	Thru	Right	U-Turn	App	Left	Thru	Right	U-Turn	App	Left	Thru	Right	U-Turn	App	Left	Thru	Right	U-Turn	App	Int
TIME	1.1	1.2	1.3	1.4	Total	1.5	1.6	1.7	1.8	Total	1.9	1.10	1.11	1.12	Total	1.13	1.14	1.15	1.16	Total	Total
0630 - 0645	0	142	1	0	143	11	25	0	0	36	0	0	0	0	0	1	0	66	0	67	246
0645 - 0700	0	168	7	0	175	11	30	0	0	41	0	0	0	0	0	3	0	66	0	69	285
0700 - 0715	0	160	12	0	172	20	33	0	0	53	0	0	0	0	0	3	0	83	0	86	311
0715 - 0730	0	147	11	0	158	31	45	1	0	77	0	0	0	0	0	8	0	79	0	87	322
Hourly Total	0	617	31	0	**648**	73	133	1	0	**207**	0	0	0	0	**0**	15	0	294	0	**309**	**1164**
0730 - 0745	0	135	24	0	159	50	43	0	0	93	0	0	0	0	0	5	0	92	0	97	349
0745 - 0800	0	125	43	0	168	76	38	0	0	114	0	0	0	0	0	3	0	104	0	107	389
0800 - 0815	0	124	18	0	142	62	42	0	0	104	0	1	0	0	1	8	0	123	0	131	378
0815 - 0830	0	126	2	0	128	20	48	1	0	69	0	1	0	0	1	3	0	67	0	70	268
Hourly Total	0	510	87	0	**597**	208	171	1	0	**380**	0	2	0	0	**2**	19	0	386	0	**405**	**1384**
Grand Total	0	1127	118	0	**1245**	281	304	2	0	**587**	0	2	0	0	**2**	34	0	680	0	**714**	**2548**
Approach %	0.00	90.52	9.48	0.00	-	47.87	51.79	0.34	0.00	-	0.00	100.00	0.00	0.00	-	4.76	0.00	95.24	0.00	-	
Intersection %	0.00	44.23	4.63	0.00	48.86	11.03	11.93	0.08	0.00	23.04	0.00	0.08	0.00	0.00	0.08	1.33	0.00	26.69	0.00	28.02	
Heavy Vehicle %	-	2	2	-	**2**	2	7	0	-	**4**	-	100	-	-	**100**	0	-	2	-	**2**	**2**
PHF	0.00	0.90	0.56	0.00	**0.93**	0.72	0.93	0.25	0.00	**0.85**	0.00	0.25	0.00	0.00	**0.25**	0.75	0.00	0.81	0.00	**0.81**	**0.92**

1430 - 1830 (Weekday 4h Session) (01-30-2024)
All vehicles

	Northbound					Southbound					Eastbound					Westbound					
	Port Royal Rd (South)					Port Royal Rd (North)					Driveway					Derryberry Ln N					
	Left	Thru	Right	U-Turn	App	Left	Thru	Right	U-Turn	App	Left	Thru	Right	U-Turn	App	Left	Thru	Right	U-Turn	App	Int
TIME	1.1	1.2	1.3	1.4	Total	1.5	1.6	1.7	1.8	Total	1.9	1.10	1.11	1.12	Total	1.13	1.14	1.15	1.16	Total	Total
1430 - 1445	0	73	14	0	87	56	110	0	0	166	0	0	0	0	0	4	0	29	0	33	286
1445 - 1500	0	98	19	0	117	66	113	0	0	179	0	1	0	0	1	6	0	22	0	28	325
1500 - 1515	0	73	14	0	87	66	99	0	0	165	0	2	0	0	2	8	0	60	0	68	322
1515 - 1530	0	91	4	0	95	65	117	0	0	182	0	1	1	0	2	7	0	111	0	118	397
Hourly Total	0	335	51	0	**386**	253	439	0	0	**692**	0	4	1	0	**5**	25	0	222	0	**247**	**1330**
1530 - 1545	0	81	4	0	85	44	119	1	0	164	0	0	1	0	1	10	0	60	0	70	320
1545 - 1600	0	91	5	0	96	48	149	0	0	197	0	1	1	0	2	7	0	38	0	45	340
1600 - 1615	0	77	2	0	79	49	175	0	0	224	0	0	0	0	0	3	0	40	0	43	346
1615 - 1630	0	91	5	0	96	58	175	0	0	233	0	1	1	0	2	10	0	38	0	48	379
Hourly Total	0	340	16	0	**356**	199	618	1	0	**818**	0	2	3	0	**5**	30	0	176	0	**206**	**1385**
1630 - 1645	0	107	7	0	114	66	162	0	0	228	0	1	0	0	1	0	0	32	0	32	375
1645 - 1700	0	79	4	0	83	68	157	0	0	225	0	0	0	0	0	6	0	34	0	40	348
1700 - 1715	0	96	2	0	98	63	156	0	0	219	0	0	0	0	0	4	0	33	0	37	354
1715 - 1730	0	98	10	0	108	74	145	0	0	219	0	2	0	0	2	1	0	32	0	33	362
Hourly Total	0	380	23	0	**403**	271	620	0	0	**891**	0	3	0	0	**3**	11	0	131	0	**142**	**1439**
1730 - 1745	0	94	2	0	96	76	166	1	0	243	0	0	0	0	0	2	0	31	0	33	372
1745 - 1800	0	104	8	0	112	80	157	0	0	237	0	2	0	0	2	0	0	39	0	39	390
1800 - 1815	0	69	6	0	75	76	131	0	0	207	0	1	0	0	1	4	0	37	0	41	324
1815 - 1830	0	54	11	0	65	90	157	0	0	247	0	0	0	0	0	1	0	25	0	26	338
Hourly Total	0	321	27	0	**348**	322	611	1	0	**934**	0	3	0	0	**3**	7	0	132	0	**139**	**1424**
Grand Total	0	1376	117	0	**1493**	1045	2288	2	0	**3335**	0	12	4	0	**16**	73	0	661	0	**734**	**5578**
Approach %	0.00	92.16	7.84	0.00	-	31.33	68.61	0.06	0.00	-	0.00	75.00	25.00	0.00	-	9.95	0.00	90.05	0.00	-	
Intersection %	0.00	24.67	2.10	0.00	26.77	18.73	41.02	0.04	0.00	59.79	0.00	0.22	0.07	0.00	0.29	1.31	0.00	11.85	0.00	13.16	
Heavy Vehicle %	-	1	3	-	**1**	2	1	0	-	**1**	-	50	0	-	**38**	0	-	2	-	**2**	**1**
PHF	0.00	0.94	0.55	0.00	**0.92**	0.92	0.94	0.25	0.00	**0.94**	0.00	0.50	0.00	0.00	**0.50**	0.44	0.00	0.87	0.00	**0.91**	**0.95**

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Peak Hour Turning Movement Count

Spring Hill, TN (Stone Creek)

Marr Traffic DATA COLLECTION

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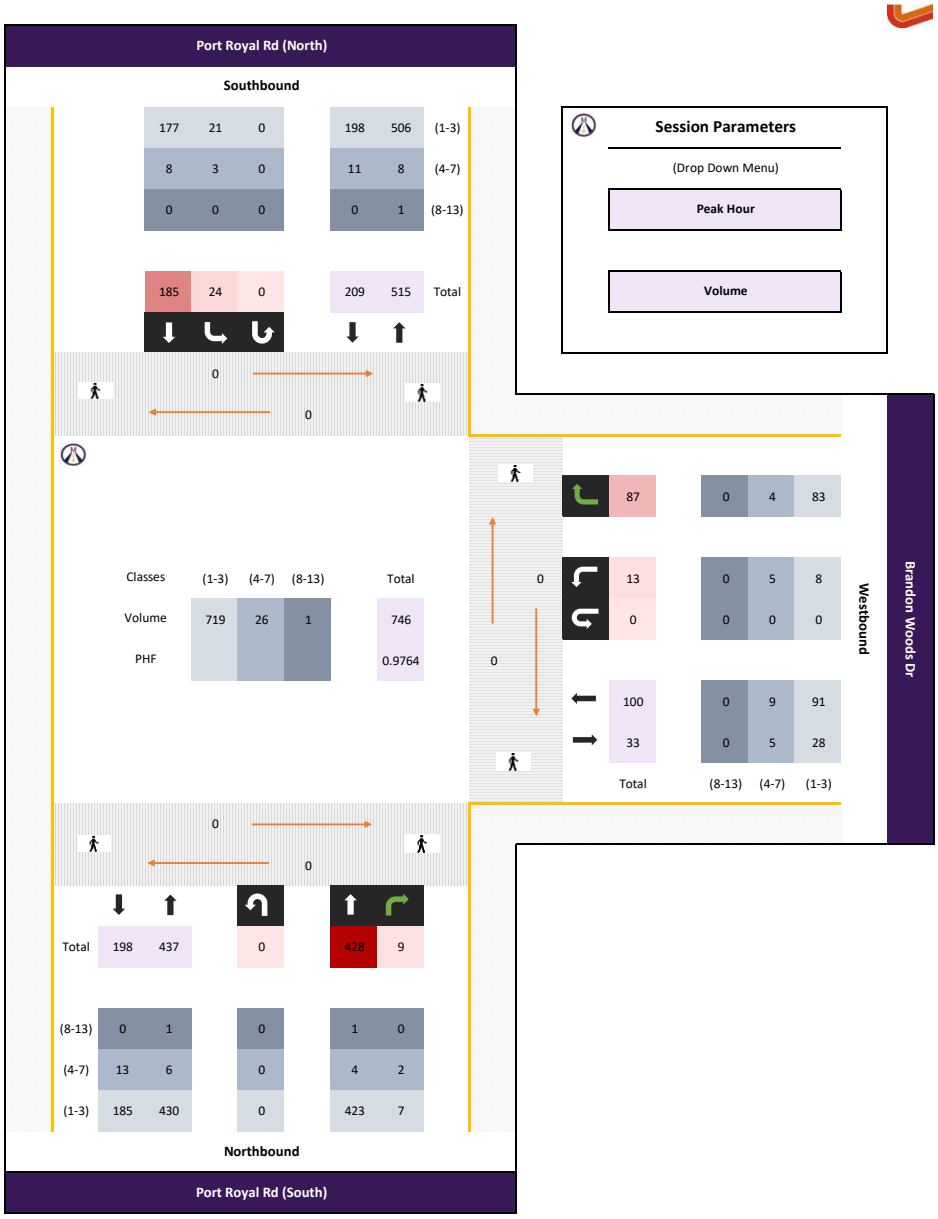
Tuesday, January 30, 2024	
Period	0630 - 0830
Peak Hour	0700 - 0800

* the Peak Hour Diagram does not include Bikes



All vehicles

	Northbound						Southbound												Westbound						
	Port Royal Rd (South)						Port Royal Rd (North)												Brandon Woods Dr						
Time		Thru 2.1	Right 2.2		U-Turn 2.3	App Total	Left 2.4	Thru 2.5			U-Turn 2.6	App Total						App Total	Left 2.7		Right 2.8		U-Turn 2.9	App Total	Int Total
0700 - 0715	-	115	3	-	0	118	6	41	-	-	0	47	-	-	-	-	-	0	4	-	22	-	0	26	191
0715 - 0730	-	95	3	-	0	98	6	52	-	-	0	58	-	-	-	-	-	0	6	-	23	-	0	29	185
0730 - 0745	-	110	1	-	0	111	6	50	-	-	0	56	-	-	-	-	-	0	1	-	20	-	0	21	188
0745 - 0800	-	108	2	-	0	110	6	42	-	-	0	48	-	-	-	-	-	0	2	-	22	-	0	24	182
Total	0	428	9	0	0	437	24	185	0	0	0	209	0	0	0	0	0	0	13	0	87	0	0	100	746
Approach %	0.00	97.94	2.06	0.00	0.00	-	11.48	88.52	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	-	13.00	0.00	87.00	0.00	0.00	-	
PHF	0.00	0.93	0.75	0.00	0.00	**0.93**	1.00	0.89	0.00	0.00	0.00	**0.90**	0.00	0.00	0.00	0.00	0.00	**0.00**	0.54	0.00	0.95	0.00	0.00	**0.86**	**0.98**

Passenger Vehicles (1-3)

	Northbound						Southbound												Westbound						
	Port Royal Rd (South)						Port Royal Rd (North)												Brandon Woods Dr						
Time		Thru 2.1	Right 2.2		U-Turn 2.3	App Total	Left 2.4	Thru 2.5			U-Turn 2.6	App Total						App Total	Left 2.7		Right 2.8		U-Turn 2.9	App Total	Int Total
0700 - 0715	-	114	1	-	0	115	5	40	-	-	0	45	-	-	-	-	-	0	1	-	22	-	0	23	183
0715 - 0730	-	93	3	-	0	96	4	51	-	-	0	55	-	-	-	-	-	0	4	-	20	-	0	24	175
0730 - 0745	-	110	1	-	0	111	6	46	-	-	0	52	-	-	-	-	-	0	1	-	20	-	0	21	184
0745 - 0800	-	106	2	-	0	108	6	40	-	-	0	46	-	-	-	-	-	0	2	-	21	-	0	23	177
Total	0	423	7	0	0	430	21	177	0	0	0	198	0	0	0	0	0	0	8	0	83	0	0	91	719
Approach %	0.00	98.37	1.63	0.00	0.00	-	10.61	89.39	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	-	8.79	0.00	91.21	0.00	0.00	-	
PHF	0.00	0.93	0.58	0.00	0.00	**0.93**	0.88	0.87	0.00	0.00	0.00	**0.90**	0.00	0.00	0.00	0.00	0.00	**0.00**	0.50	0.00	0.94	0.00	0.00	**0.95**	**0.98**

Single Unit Trucks (4-7)

	Northbound						Southbound												Westbound						
	Port Royal Rd (South)						Port Royal Rd (North)												Brandon Woods Dr						
Time		Thru 2.1	Right 2.2		U-Turn 2.3	App Total	Left 2.4	Thru 2.5			U-Turn 2.6	App Total						App Total	Left 2.7		Right 2.8		U-Turn 2.9	App Total	Int Total
0700 - 0715	-	1	2	-	0	3	1	1	-	-	0	2	-	-	-	-	-	0	3	-	0	-	0	3	8
0715 - 0730	-	1	0	-	0	1	2	1	-	-	0	3	-	-	-	-	-	0	2	-	3	-	0	5	9
0730 - 0745	-	0	0	-	0	0	0	4	-	-	0	4	-	-	-	-	-	0	0	-	0	-	0	0	4
0745 - 0800	-	2	0	-	0	2	0	2	-	-	0	2	-	-	-	-	-	0	0	-	1	-	0	1	5
Total	0	4	2	0	0	6	3	8	0	0	0	11	0	0	0	0	0	0	5	0	4	0	0	9	26
Approach %	0.00	66.67	33.33	0.00	0.00	-	27.27	72.73	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	-	55.56	0.00	44.44	0.00	0.00	-	
PHF	0.00	0.50	0.25	0.00	0.00	**0.50**	0.38	0.50	0.00	0.00	0.00	**0.69**	0.00	0.00	0.00	0.00	0.00	**0.00**	0.42	0.00	0.33	0.00	0.00	**0.45**	**0.72**

Combination Trucks (8-13)

	Northbound						Southbound												Westbound						
	Port Royal Rd (South)						Port Royal Rd (North)												Brandon Woods Dr						
Time		Thru 2.1	Right 2.2		U-Turn 2.3	App Total	Left 2.4	Thru 2.5			U-Turn 2.6	App Total						App Total	Left 2.7		Right 2.8		U-Turn 2.9	App Total	Int Total
0700 - 0715	-	0	0	-	0	0	0	0	-	-	0	0	-	-	-	-	-	0	0	-	0	-	0	0	0
0715 - 0730	-	1	0	-	0	1	0	0	-	-	0	0	-	-	-	-	-	0	0	-	0	-	0	0	1
0730 - 0745	-	0	0	-	0	0	0	0	-	-	0	0	-	-	-	-	-	0	0	-	0	-	0	0	0
0745 - 0800	-	0	0	-	0	0	0	0	-	-	0	0	-	-	-	-	-	0	0	-	0	-	0	0	0
Total	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Approach %	0.00	100.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	-	
PHF	0.00	0.25	0.00	0.00	0.00	**0.25**	0.00	0.00	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	**0.00**	**0.25**

Bikes

	Northbound						Southbound												Westbound						
	Port Royal Rd (South)						Port Royal Rd (North)												Brandon Woods Dr						
Time		Thru 2.1	Right 2.2		U-Turn 2.3	App Total	Left 2.4	Thru 2.5			U-Turn 2.6	App Total						App Total	Left 2.7		Right 2.8		U-Turn 2.9	App Total	Int Total
0700 - 0715	-	0	0	-	0	0	0	0	-	-	0	0	-	-	-	-	-	0	0	-	0	-	0	0	0
0715 - 0730	-	0	0	-	0	0	0	0	-	-	0	0	-	-	-	-	-	0	0	-	0	-	0	0	0
0730 - 0745	-	0	0	-	0	0	0	0	-	-	0	0	-	-	-	-	-	0	0	-	0	-	0	0	0
0745 - 0800	-	0	0	-	0	0	0	0	-	-	0	0	-	-	-	-	-	0	0	-	0	-	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Approach %	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	-	
PHF	0.00	0.00	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	**0.00**	**0.00**

Peak Hour Turning Movement Count

Spring Hill, TN (Stone Creek)

Click here for Map

Marr Traffic DATA COLLECTION

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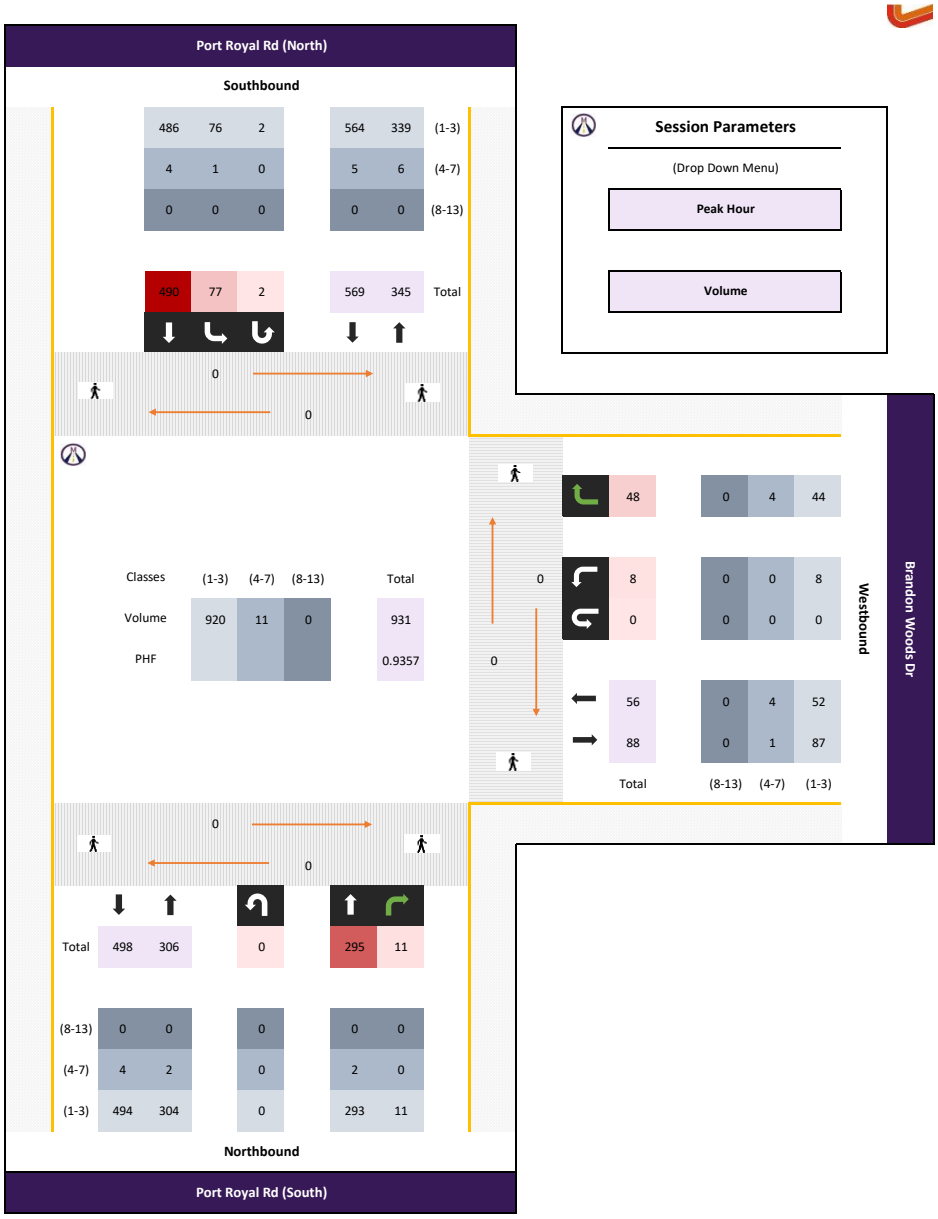
Tuesday, January 30, 2024	
Period	1430 - 1830
Peak Hour	1615 - 1715

* the Peak Hour Diagram does not include Bikes



Session Parameters

(Drop Down Menu)

Peak Hour

Volume

All vehicles

	Northbound						Southbound												Westbound						
	Port Royal Rd (South)						Port Royal Rd (North)												Brandon Woods Dr						
Time		Thru 2.1	Right 2.2		U-Turn 2.3	App Total	Left 2.4	Thru 2.5			U-Turn 2.6	App Total						App Total	Left 2.7		Right 2.8		U-Turn 2.9	App Total	Int Total
1615 - 1630	-	76	2	-	0	78	14	141	-	-	1	156	-	-	-	-	-	0	1	-	14	-	0	15	249
1630 - 1645	-	74	1	-	0	75	28	114	-	-	0	142	-	-	-	-	-	0	3	-	16	-	0	19	236
1645 - 1700	-	60	2	-	0	62	19	124	-	-	1	144	-	-	-	-	-	0	3	-	8	-	0	11	217
1700 - 1715	-	85	6	-	0	91	16	111	-	-	0	127	-	-	-	-	-	0	1	-	11	-	0	12	230
Total	0	295	11	0	0	306	77	490	0	0	2	569	0	0	0	0	0	0	8	0	49	0	0	57	932
Approach %	0.00	96.41	3.59	0.00	0.00	-	13.53	86.12	0.00	0.00	0.35	-	0.00	0.00	0.00	0.00	0.00	-	14.04	0.00	85.96	0.00	0.00	-	
PHF	0.00	0.87	0.46	0.00	0.00	**0.84**	0.69	0.87	0.00	0.00	0.50	**0.91**	0.00	0.00	0.00	0.00	0.00	**0.00**	0.67	0.00	0.77	0.00	0.00	**0.75**	**0.94**

Passenger Vehicles (1-3)

	Northbound						Southbound												Westbound						
	Port Royal Rd (South)						Port Royal Rd (North)												Brandon Woods Dr						
Time		Thru 2.1	Right 2.2		U-Turn 2.3	App Total	Left 2.4	Thru 2.5			U-Turn 2.6	App Total						App Total	Left 2.7		Right 2.8		U-Turn 2.9	App Total	Int Total
1615 - 1630	-	76	2	-	0	78	13	140	-	-	1	154	-	-	-	-	-	0	1	-	14	-	0	15	247
1630 - 1645	-	72	1	-	0	73	28	114	-	-	0	142	-	-	-	-	-	0	3	-	14	-	0	17	232
1645 - 1700	-	60	2	-	0	62	19	122	-	-	1	142	-	-	-	-	-	0	3	-	8	-	0	11	215
1700 - 1715	-	85	6	-	0	91	16	110	-	-	0	126	-	-	-	-	-	0	1	-	8	-	0	9	226
Total	0	293	11	0	0	304	76	486	0	0	2	564	0	0	0	0	0	0	8	0	44	0	0	52	920
Approach %	0.00	96.38	3.62	0.00	0.00	-	13.48	86.17	0.00	0.00	0.35	-	0.00	0.00	0.00	0.00	0.00	-	15.38	0.00	84.62	0.00	0.00	-	
PHF	0.00	0.86	0.46	0.00	0.00	**0.84**	0.68	0.87	0.00	0.00	0.50	**0.92**	0.00	0.00	0.00	0.00	0.00	**0.00**	0.67	0.00	0.79	0.00	0.00	**0.76**	**0.93**

Single Unit Trucks (4-7)

	Northbound						Southbound												Westbound						
	Port Royal Rd (South)						Port Royal Rd (North)												Brandon Woods Dr						
Time		Thru 2.1	Right 2.2		U-Turn 2.3	App Total	Left 2.4	Thru 2.5			U-Turn 2.6	App Total						App Total	Left 2.7		Right 2.8		U-Turn 2.9	App Total	Int Total
1615 - 1630	-	0	0	-	0	0	1	1	-	-	0	2	-	-	-	-	-	0	0	-	0	-	0	0	2
1630 - 1645	-	2	0	-	0	2	0	0	-	-	0	0	-	-	-	-	-	0	0	-	1	-	0	1	3
1645 - 1700	-	0	0	-	0	0	0	2	-	-	0	2	-	-	-	-	-	0	0	-	0	-	0	0	2
1700 - 1715	-	0	0	-	0	0	0	1	-	-	0	1	-	-	-	-	-	0	0	-	3	-	0	3	4
Total	0	2	0	0	0	2	1	4	0	0	0	5	0	0	0	0	0	0	0	0	4	0	0	4	11
Approach %	0.00	100.00	0.00	0.00	0.00	-	20.00	80.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	100.00	0.00	0.00	-	
PHF	0.00	0.25	0.00	0.00	0.00	**0.25**	0.25	0.50	0.00	0.00	0.00	**0.63**	0.00	0.00	0.00	0.00	0.00	**0.00**	0.00	0.00	0.33	0.00	0.00	**0.33**	**0.69**

Combination Trucks (8-13)

	Northbound						Southbound												Westbound						
	Port Royal Rd (South)						Port Royal Rd (North)												Brandon Woods Dr						
Time		Thru 2.1	Right 2.2		U-Turn 2.3	App Total	Left 2.4	Thru 2.5			U-Turn 2.6	App Total						App Total	Left 2.7		Right 2.8		U-Turn 2.9	App Total	Int Total
1615 - 1630	-	0	0	-	0	0	0	0	-	-	0	0	-	-	-	-	-	0	0	-	0	-	0	0	0
1630 - 1645	-	0	0	-	0	0	0	0	-	-	0	0	-	-	-	-	-	0	0	-	0	-	0	0	0
1645 - 1700	-	0	0	-	0	0	0	0	-	-	0	0	-	-	-	-	-	0	0	-	0	-	0	0	0
1700 - 1715	-	0	0	-	0	0	0	0	-	-	0	0	-	-	-	-	-	0	0	-	0	-	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Approach %	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	-	
PHF	0.00	0.00	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	**0.00**	**0.00**

Bikes

	Northbound						Southbound												Westbound						
	Port Royal Rd (South)						Port Royal Rd (North)												Brandon Woods Dr						
Time		Thru 2.1	Right 2.2		U-Turn 2.3	App Total	Left 2.4	Thru 2.5			U-Turn 2.6	App Total						App Total	Left 2.7		Right 2.8		U-Turn 2.9	App Total	Int Total
1615 - 1630	-	0	0	-	0	0	0	0	-	-	0	0	-	-	-	-	-	0	0	-	0	-	0	0	0
1630 - 1645	-	0	0	-	0	0	0	0	-	-	0	0	-	-	-	-	-	0	0	-	1	-	0	1	1
1645 - 1700	-	0	0	-	0	0	0	0	-	-	0	0	-	-	-	-	-	0	0	-	0	-	0	0	0
1700 - 1715	-	0	0	-	0	0	0	0	-	-	0	0	-	-	-	-	-	0	0	-	0	-	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1
Approach %	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	100.00	0.00	0.00	-	
PHF	0.00	0.00	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	**0.00**	0.00	0.00	0.25	0.00	0.00	**0.25**	**0.25**

Classified Turn Movement Count || All vehicles

Spring Hill, TN (Stone Creek)

Marr Traffic DATA COLLECTION
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Site 2
Port Royal Rd (South)
Port Royal Rd (North)

Brandon Woods Dr

Date
Tuesday, January 30, 2024

Lat/Long
35.710132°, -86.897753°
Click here for Map

Weather
Mostly Cloudy
42°F
Click here for Detailed Weather

0630 - 0830 (Weekday 2h Session) (01-30-2024)
All vehicles

	Northbound (Port Royal Rd (South))				Southbound (Port Royal Rd (North))				Westbound (Brandon Woods Dr)				
TIME	Thru 2.1	Right 2.2	U-Turn 2.3	App Total	Left 2.4	Thru 2.5	U-Turn 2.6	App Total	Left 2.7	Right 2.8	U-Turn 2.9	App Total	Int Total
0630 - 0645	92	2	0	94	4	25	0	29	1	18	0	19	142
0645 - 0700	115	4	0	119	4	24	0	28	2	20	0	22	169
0700 - 0715	115	3	0	118	6	41	0	47	4	22	0	26	191
0715 - 0730	95	3	0	98	6	52	0	58	6	23	0	29	185
Hourly Total	417	12	0	**429**	20	142	0	**162**	13	83	0	**96**	**687**
0730 - 0745	110	1	0	111	6	50	0	56	1	20	0	21	188
0745 - 0800	108	2	0	110	6	42	0	48	2	22	0	24	182
0800 - 0815	82	1	0	83	12	42	0	54	0	11	0	11	148
0815 - 0830	82	2	0	84	6	33	0	39	0	15	0	15	138
Hourly Total	382	6	0	**388**	30	167	0	**197**	3	68	0	**71**	**656**
Grand Total	799	18	0	**817**	50	309	0	**359**	16	151	0	**167**	**1343**
Approach %	97.80	2.20	0.00	-	13.93	86.07	0.00	-	9.58	90.42	0.00	-	
Intersection %	59.49	1.34	0.00	60.83	3.72	23.01	0.00	26.73	1.19	11.24	0.00	12.43	
Heavy Vehicle %	1	44	-	**2**	10	5	-	**6**	38	4	-	**7**	**4**
PHF	0.93	0.75	0.00	**0.93**	1.00	0.89	0.00	**0.90**	0.54	0.95	0.00	**0.86**	**0.98**

1430 - 1830 (Weekday 4h Session) (01-30-2024)
All vehicles

	Northbound (Port Royal Rd (South))				Southbound (Port Royal Rd (North))				Westbound (Brandon Woods Dr)				
TIME	Thru 2.1	Right 2.2	U-Turn 2.3	App Total	Left 2.4	Thru 2.5	U-Turn 2.6	App Total	Left 2.7	Right 2.8	U-Turn 2.9	App Total	Int Total
1430 - 1445	73	2	0	75	10	88	0	98	0	9	0	9	182
1445 - 1500	85	3	0	88	11	84	0	95	1	10	0	11	194
1500 - 1515	58	1	0	59	16	78	0	94	5	13	0	18	171
1515 - 1530	64	3	0	67	12	95	0	107	3	10	0	13	187
Hourly Total	280	9	0	**289**	49	345	0	**394**	9	42	0	**51**	**734**
1530 - 1545	71	1	0	72	12	112	0	124	3	4	0	7	203
1545 - 1600	63	3	0	66	14	119	0	133	1	8	0	9	208
1600 - 1615	61	4	0	65	16	134	0	150	1	7	0	8	223
1615 - 1630	76	2	0	78	14	141	1	156	1	14	0	15	249
Hourly Total	271	10	0	**281**	56	506	1	**563**	6	33	0	**39**	**883**
1630 - 1645	74	1	0	75	28	114	0	142	3	16	0	19	236
1645 - 1700	60	2	0	62	19	124	1	144	3	8	0	11	217
1700 - 1715	85	6	0	91	16	111	0	127	1	11	0	12	230
1715 - 1730	70	1	0	71	16	97	0	113	2	12	0	14	198
Hourly Total	289	10	0	**299**	79	446	1	**526**	9	47	0	**56**	**881**
1730 - 1745	75	0	0	75	22	109	0	131	2	10	0	12	218
1745 - 1800	68	0	0	68	18	95	0	113	5	8	0	13	194
1800 - 1815	47	2	0	49	20	104	0	124	3	6	0	9	182
1815 - 1830	41	0	0	41	14	102	0	116	1	13	0	14	171
Hourly Total	231	2	0	**233**	74	410	0	**484**	11	37	0	**48**	**765**
Grand Total	1071	31	0	**1102**	258	1707	2	**1967**	35	159	0	**194**	**3263**
Approach %	97.19	2.81	0.00	-	13.12	86.78	0.10	-	18.04	81.96	0.00	-	
Intersection %	32.82	0.95	0.00	33.77	7.91	52.31	0.06	60.28	1.07	4.87	0.00	5.95	
Heavy Vehicle %	1	6	-	**1**	2	1	0	**1**	3	6	-	**5**	**1**
PHF	0.87	0.46	0.00	**0.84**	0.69	0.87	0.50	**0.91**	0.67	0.77	0.00	**0.75**	**0.94**

Peak Hour Turning Movement Count

Spring Hill, TN (Stone Creek)

Click here for Map

Marr Traffic DATA COLLECTION

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Tuesday, January 30, 2024	
Period	0630 - 0830
Peak Hour	0715 - 0815

* the Peak Hour Diagram does not include Bikes

Session Parameters

(Drop Down Menu)

Peak Hour

Volume

All vehicles

	Northbound						Southbound						Eastbound						Westbound						
	Rice Rd						Rice Rd						Derryberry Ln N						Driveway						
	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Int
Time	3.1	3.2	3.3		3.4	Total	3.5	3.6	3.7		3.8	Total	3.9	3.10	3.11		3.12	Total	3.13	3.14	3.15		3.16	Total	Total
0715 - 0730	0	0	0	-	0	0	0	0	35	-	0	35	5	0	0	-	0	5	0	0	0	-	0	0	40
0730 - 0745	0	0	0	-	0	0	0	0	23	-	0	23	6	0	0	-	0	6	0	0	0	-	0	0	29
0745 - 0800	0	0	0	-	0	0	0	0	32	-	0	32	16	0	0	-	0	16	0	0	0	-	0	0	48
0800 - 0815	0	0	0	-	0	0	0	0	31	-	0	31	16	0	0	-	0	16	0	0	0	-	0	0	47
Total	0	0	0	0	0	0	0	0	121	0	0	121	43	0	0	0	0	43	0	0	0	0	0	0	164
Approach %	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	100.00	0.00	0.00	-	100.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	-	
PHF	0.00	0.00	0.00	0.00	0.00	**0.00**	0.00	0.00	0.86	0.00	0.00	**0.86**	0.67	0.00	0.00	0.00	0.00	**0.67**	0.00	0.00	0.00	0.00	0.00	**0.00**	**0.85**

Passenger Vehicles (1-3)

	Northbound						Southbound						Eastbound						Westbound						
	Rice Rd						Rice Rd						Derryberry Ln N						Driveway						
	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Int
Time	3.1	3.2	3.3		3.4	Total	3.5	3.6	3.7		3.8	Total	3.9	3.10	3.11		3.12	Total	3.13	3.14	3.15		3.16	Total	Total
0715 - 0730	0	0	0	-	0	0	0	0	35	-	0	35	5	0	0	-	0	5	0	0	0	-	0	0	40
0730 - 0745	0	0	0	-	0	0	0	0	23	-	0	23	6	0	0	-	0	6	0	0	0	-	0	0	29
0745 - 0800	0	0	0	-	0	0	0	0	31	-	0	31	15	0	0	-	0	15	0	0	0	-	0	0	46
0800 - 0815	0	0	0	-	0	0	0	0	31	-	0	31	15	0	0	-	0	15	0	0	0	-	0	0	46
Total	0	0	0	0	0	0	0	0	120	0	0	120	41	0	0	0	0	41	0	0	0	0	0	0	161
Approach %	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	100.00	0.00	0.00	-	100.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	-	
PHF	0.00	0.00	0.00	0.00	0.00	**0.00**	0.00	0.00	0.86	0.00	0.00	**0.86**	0.68	0.00	0.00	0.00	0.00	**0.68**	0.00	0.00	0.00	0.00	0.00	**0.00**	**0.88**

Single Unit Trucks (4-7)

	Northbound						Southbound						Eastbound						Westbound						
	Rice Rd						Rice Rd						Derryberry Ln N						Driveway						
	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Int
Time	3.1	3.2	3.3		3.4	Total	3.5	3.6	3.7		3.8	Total	3.9	3.10	3.11		3.12	Total	3.13	3.14	3.15		3.16	Total	Total
0715 - 0730	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0
0730 - 0745	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0
0745 - 0800	0	0	0	-	0	0	0	0	1	-	0	1	1	0	0	-	0	1	0	0	0	-	0	0	2
0800 - 0815	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0
Total	0	0	0	0	0	0	0	0	1	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	2
Approach %	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	100.00	0.00	0.00	-	100.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	-	
PHF	0.00	0.00	0.00	0.00	0.00	**0.00**	0.00	0.00	0.25	0.00	0.00	**0.25**	0.25	0.00	0.00	0.00	0.00	**0.25**	0.00	0.00	0.00	0.00	0.00	**0.00**	**0.25**

Combination Trucks (8-13)

	Northbound						Southbound						Eastbound						Westbound						
	Rice Rd						Rice Rd						Derryberry Ln N						Driveway						
	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Int
Time	3.1	3.2	3.3		3.4	Total	3.5	3.6	3.7		3.8	Total	3.9	3.10	3.11		3.12	Total	3.13	3.14	3.15		3.16	Total	Total
0715 - 0730	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0
0730 - 0745	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0
0745 - 0800	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0
0800 - 0815	0	0	0	-	0	0	0	0	0	-	0	0	1	0	0	-	0	1	0	0	0	-	0	0	1
Total	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1
Approach %	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	-	100.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	-	
PHF	0.00	0.00	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	**0.00**	0.25	0.00	0.00	0.00	0.00	**0.25**	0.00	0.00	0.00	0.00	0.00	**0.00**	**0.25**

Bikes

	Northbound						Southbound						Eastbound						Westbound						
	Rice Rd						Rice Rd						Derryberry Ln N						Driveway						
	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Int
Time	3.1	3.2	3.3		3.4	Total	3.5	3.6	3.7		3.8	Total	3.9	3.10	3.11		3.12	Total	3.13	3.14	3.15		3.16	Total	Total
0715 - 0730	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0
0730 - 0745	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0
0745 - 0800	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0
0800 - 0815	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Approach %	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	-	
PHF	0.00	0.00	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	**0.00**	**0.00**

Peak Hour Turning Movement Count

Spring Hill, TN (Stone Creek)

Click here for Map

Marr Traffic DATA COLLECTION

www.marrtraffic.com

Tuesday, January 30, 2024	
Period	1430 - 1830
Peak Hour	1700 - 1800

* the Peak Hour Diagram does not include Bikes

Session Parameters

(Drop Down Menu)

Peak Hour

Volume

All vehicles

	Northbound						Southbound						Eastbound						Westbound						
	Rice Rd						Rice Rd						Derryberry Ln N						Driveway						
	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Int
Time	3.1	3.2	3.3		3.4	Total	3.5	3.6	3.7		3.8	Total	3.9	3.10	3.11		3.12	Total	3.13	3.14	3.15		3.16	Total	Total
1700 - 1715	0	0	0	-	0	0	0	0	13	-	0	13	26	0	0	-	0	26	0	0	0	-	0	0	39
1715 - 1730	0	0	0	-	0	0	0	0	14	-	0	14	30	0	0	-	0	30	0	0	0	-	0	0	44
1730 - 1745	0	0	0	-	0	0	0	0	9	-	0	9	26	0	0	-	0	26	0	0	0	-	0	0	35
1745 - 1800	0	0	0	-	0	0	0	0	16	-	0	16	28	0	0	-	0	28	0	0	0	-	0	0	44
Total	0	0	0	0	0	0	0	0	52	0	0	52	110	0	0	0	0	110	0	0	0	0	0	0	162
Approach %	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	100.00	0.00	0.00	-	100.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	-	
PHF	0.00	0.00	0.00	0.00	0.00	**0.00**	0.00	0.00	0.81	0.00	0.00	**0.81**	0.92	0.00	0.00	0.00	0.00	**0.92**	0.00	0.00	0.00	0.00	0.00	**0.00**	**0.92**

Passenger Vehicles (1-3)

	Northbound						Southbound						Eastbound						Westbound						
	Rice Rd						Rice Rd						Derryberry Ln N						Driveway						
	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Int
Time	3.1	3.2	3.3		3.4	Total	3.5	3.6	3.7		3.8	Total	3.9	3.10	3.11		3.12	Total	3.13	3.14	3.15		3.16	Total	Total
1700 - 1715	0	0	0	-	0	0	0	0	13	-	0	13	26	0	0	-	0	26	0	0	0	-	0	0	39
1715 - 1730	0	0	0	-	0	0	0	0	14	-	0	14	30	0	0	-	0	30	0	0	0	-	0	0	44
1730 - 1745	0	0	0	-	0	0	0	0	9	-	0	9	26	0	0	-	0	26	0	0	0	-	0	0	35
1745 - 1800	0	0	0	-	0	0	0	0	16	-	0	16	27	0	0	-	0	27	0	0	0	-	0	0	43
Total	0	0	0	0	0	0	0	0	52	0	0	52	109	0	0	0	0	109	0	0	0	0	0	0	161
Approach %	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	100.00	0.00	0.00	-	100.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	-	
PHF	0.00	0.00	0.00	0.00	0.00	**0.00**	0.00	0.00	0.81	0.00	0.00	**0.81**	0.91	0.00	0.00	0.00	0.00	**0.91**	0.00	0.00	0.00	0.00	0.00	**0.00**	**0.91**

Single Unit Trucks (4-7)

	Northbound						Southbound						Eastbound						Westbound						
	Rice Rd						Rice Rd						Derryberry Ln N						Driveway						
	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Int
Time	3.1	3.2	3.3		3.4	Total	3.5	3.6	3.7		3.8	Total	3.9	3.10	3.11		3.12	Total	3.13	3.14	3.15		3.16	Total	Total
1700 - 1715	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0
1715 - 1730	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0
1730 - 1745	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0
1745 - 1800	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Approach %	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	-	
PHF	0.00	0.00	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	**0.00**	**0.00**

Combination Trucks (8-13)

	Northbound						Southbound						Eastbound						Westbound						
	Rice Rd						Rice Rd						Derryberry Ln N						Driveway						
	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Int
Time	3.1	3.2	3.3		3.4	Total	3.5	3.6	3.7		3.8	Total	3.9	3.10	3.11		3.12	Total	3.13	3.14	3.15		3.16	Total	Total
1700 - 1715	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0
1715 - 1730	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0
1730 - 1745	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0
1745 - 1800	0	0	0	-	0	0	0	0	0	-	0	0	1	0	0	-	0	1	0	0	0	-	0	0	1
Total	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1
Approach %	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	-	100.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	-	
PHF	0.00	0.00	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	**0.00**	0.25	0.00	0.00	0.00	0.00	**0.25**	0.00	0.00	0.00	0.00	0.00	**0.00**	**0.25**

Bikes

	Northbound						Southbound						Eastbound						Westbound						
	Rice Rd						Rice Rd						Derryberry Ln N						Driveway						
	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Int
Time	3.1	3.2	3.3		3.4	Total	3.5	3.6	3.7		3.8	Total	3.9	3.10	3.11		3.12	Total	3.13	3.14	3.15		3.16	Total	Total
1700 - 1715	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0
1715 - 1730	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0
1730 - 1745	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0
1745 - 1800	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Approach %	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	-	
PHF	0.00	0.00	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	**0.00**	**0.00**

Classified Turn Movement Count || All vehicles

Spring Hill, TN (Stone Creek)

Marr Traffic DATA COLLECTION
www.marrtraffic.com

Site 3
Rice Rd
Rice Rd
Derryberry Ln N
Driveway

Date
Tuesday, January 30, 2024

Lat/Long
35.722622°, -86.882721°
Click here for Map

Weather
Mostly Cloudy
42°F
Click here for Detailed Weather

0630 - 0830 (Weekday 2h Session) (01-30-2024)
All vehicles

	Northbound (Rice Rd)					Southbound (Rice Rd)					Eastbound (Derryberry Ln N)					Westbound (Driveway)					
TIME	Left 3.1	Thru 3.2	Right 3.3	U-Turn 3.4	App Total	Left 3.5	Thru 3.6	Right 3.7	U-Turn 3.8	App Total	Left 3.9	Thru 3.10	Right 3.11	U-Turn 3.12	App Total	Left 3.13	Thru 3.14	Right 3.15	U-Turn 3.16	App Total	Int Total
0630 - 0645	0	0	0	0	0	0	0	21	0	21	6	0	0	0	6	0	0	0	0	0	27
0645 - 0700	0	0	0	0	0	0	0	30	0	30	3	0	0	1	4	0	0	0	0	0	34
0700 - 0715	0	0	0	0	0	0	0	32	0	32	7	0	0	0	7	0	0	0	0	0	39
0715 - 0730	0	0	0	0	0	0	0	35	0	35	5	0	0	0	5	0	0	0	0	0	40
Hourly Total	0	0	0	0	**0**	0	0	118	0	**118**	21	0	0	1	**22**	0	0	0	0	**0**	**140**
0730 - 0745	0	0	0	0	0	0	0	23	0	23	6	0	0	0	6	0	0	0	0	0	29
0745 - 0800	0	0	0	0	0	0	0	32	0	32	16	0	0	0	16	0	0	0	0	0	48
0800 - 0815	0	0	0	0	0	0	0	31	0	31	16	0	0	0	16	0	0	0	0	0	47
0815 - 0830	0	0	0	0	0	0	0	11	0	11	11	0	0	0	11	0	0	0	0	0	22
Hourly Total	0	0	0	0	**0**	0	0	97	0	**97**	49	0	0	0	**49**	0	0	0	0	**0**	**146**
Grand Total	0	0	0	0	**0**	0	0	215	0	**215**	70	0	0	1	**71**	0	0	0	0	**0**	**286**
Approach %	0.00	0.00	0.00	0.00	-	0.00	0.00	100.00	0.00	-	98.59	0.00	0.00	1.41	-	0.00	0.00	0.00	0.00	-	
Intersection %	0.00	0.00	0.00	0.00	0.00	0.00	0.00	75.17	0.00	75.17	24.48	0.00	0.00	0.35	24.83	0.00	0.00	0.00	0.00	0.00	
Heavy Vehicle %	-	-	-	-	-	-	-	0	-	**0**	4	-	-	0	**4**	-	-	-	-	-	**1**
PHF	0.00	0.00	0.00	0.00	**0.00**	0.00	0.00	0.86	0.00	**0.86**	0.67	0.00	0.00	0.00	**0.67**	0.00	0.00	0.00	0.00	**0.00**	**0.85**

1430 - 1830 (Weekday 4h Session) (01-30-2024)
All vehicles

	Northbound (Rice Rd)					Southbound (Rice Rd)					Eastbound (Derryberry Ln N)					Westbound (Driveway)					
TIME	Left 3.1	Thru 3.2	Right 3.3	U-Turn 3.4	App Total	Left 3.5	Thru 3.6	Right 3.7	U-Turn 3.8	App Total	Left 3.9	Thru 3.10	Right 3.11	U-Turn 3.12	App Total	Left 3.13	Thru 3.14	Right 3.15	U-Turn 3.16	App Total	Int Total
1430 - 1445	0	0	0	0	0	0	0	13	0	13	13	0	0	0	13	0	0	0	0	0	26
1445 - 1500	0	0	0	0	0	0	0	16	0	16	14	0	0	0	14	0	0	0	0	0	30
1500 - 1515	0	0	0	0	0	0	0	16	0	16	23	0	0	0	23	0	0	0	0	0	39
1515 - 1530	0	0	0	0	0	0	0	15	0	15	23	0	0	0	23	0	0	0	0	0	38
Hourly Total	0	0	0	0	**0**	0	0	60	0	**60**	73	0	0	0	**73**	0	0	0	0	**0**	**133**
1530 - 1545	0	0	0	0	0	0	0	14	0	14	21	0	0	0	21	0	0	0	0	0	35
1545 - 1600	0	0	0	0	0	0	0	6	0	6	13	0	0	0	13	0	0	0	0	0	19
1600 - 1615	0	0	0	0	0	0	0	9	0	9	19	0	0	0	19	0	0	0	0	0	28
1615 - 1630	0	0	0	0	0	0	0	13	0	13	22	0	0	0	22	0	0	0	0	0	35
Hourly Total	0	0	0	0	**0**	0	0	42	0	**42**	75	0	0	0	**75**	0	0	0	0	**0**	**117**
1630 - 1645	0	0	0	0	0	0	0	13	0	13	25	0	0	0	25	0	0	0	0	0	38
1645 - 1700	0	0	0	0	0	0	0	12	0	12	23	0	0	0	23	0	0	0	0	0	35
1700 - 1715	0	0	0	0	0	0	0	13	0	13	26	0	0	0	26	0	0	0	0	0	39
1715 - 1730	0	0	0	0	0	0	0	14	0	14	30	0	0	0	30	0	0	0	0	0	44
Hourly Total	0	0	0	0	**0**	0	0	52	0	**52**	104	0	0	0	**104**	0	0	0	0	**0**	**156**
1730 - 1745	0	0	0	0	0	0	0	9	0	9	26	0	0	0	26	0	0	0	0	0	35
1745 - 1800	0	0	0	0	0	0	0	16	0	16	28	0	0	0	28	0	0	0	0	0	44
1800 - 1815	0	0	0	0	0	0	0	12	0	12	20	0	0	0	20	0	0	0	0	0	32
1815 - 1830	0	0	0	0	0	0	0	12	0	12	30	0	0	0	30	0	0	0	0	0	42
Hourly Total	0	0	0	0	**0**	0	0	49	0	**49**	104	0	0	0	**104**	0	0	0	0	**0**	**153**
Grand Total	0	0	0	0	**0**	0	0	203	0	**203**	356	0	0	0	**356**	0	0	0	0	**0**	**559**
Approach %	0.00	0.00	0.00	0.00	-	0.00	0.00	100.00	0.00	-	100.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	-	
Intersection %	0.00	0.00	0.00	0.00	0.00	0.00	0.00	36.31	0.00	36.31	63.69	0.00	0.00	0.00	63.69	0.00	0.00	0.00	0.00	0.00	
Heavy Vehicle %	-	-	-	-	-	-	-	1	-	**1**	3	-	-	-	**3**	-	-	-	-	-	**2**
PHF	0.00	0.00	0.00	0.00	**0.00**	0.00	0.00	0.81	0.00	**0.81**	0.92	0.00	0.00	0.00	**0.92**	0.00	0.00	0.00	0.00	**0.00**	**0.92**

C. Turn Lane Warrant Data Sheets

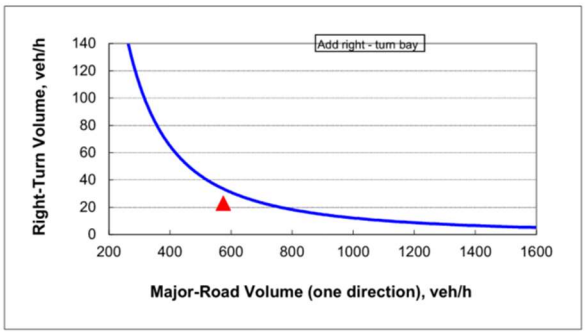
Figure 2 - 6. Guideline for determining the need for a major-road right-turn bay at a two-way stop-controlled intersection.

INPUT

Roadway geometry:	2-lane roadway
Variable	Value
Major-road speed, mph:	45
Major-road volume (one direction), veh/h:	574
Right-turn volume, veh/h:	23

OUTPUT

Variable	Value
Limiting right-turn volume, veh/h:	34
Guidance for determining the need for a major-road right-turn bay for a 2-lane roadway:	
Do NOT add right-turn bay.	



Port Royal Road and Brandon Woods Drive (2032 Background AM)

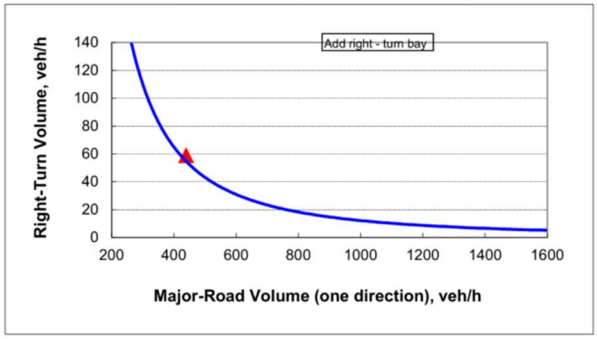
Figure 2 - 6. Guideline for determining the need for a major-road right-turn bay at a two-way stop-controlled intersection.

INPUT

Roadway geometry:	2-lane roadway
Variable	Value
Major-road speed, mph:	45
Major-road volume (one direction), veh/h:	439
Right-turn volume, veh/h:	59

OUTPUT

Variable	Value
Limiting right-turn volume, veh/h:	55
Guidance for determining the need for a major-road right-turn bay for a 2-lane roadway:	
Add right-turn bay.	



Port Royal Road and Brandon Woods Drive (2032 Background PM)

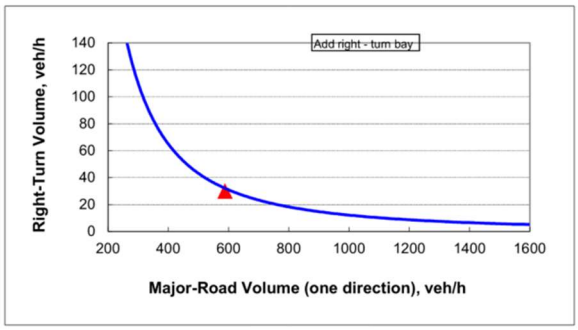
Figure 2 - 6. Guideline for determining the need for a major-road right-turn bay at a two-way stop-controlled intersection.

INPUT

Roadway geometry:	2-lane roadway
Variable	Value
Major-road speed, mph:	45
Major-road volume (one direction), veh/h:	588
Right-turn volume, veh/h:	30

OUTPUT

Variable	Value
Limiting right-turn volume, veh/h:	32
Guidance for determining the need for a major-road right-turn bay for a 2-lane roadway:	
Do NOT add right-turn bay.	



Port Royal Road and Brandon Woods Drive (2032 Total Projected AM)

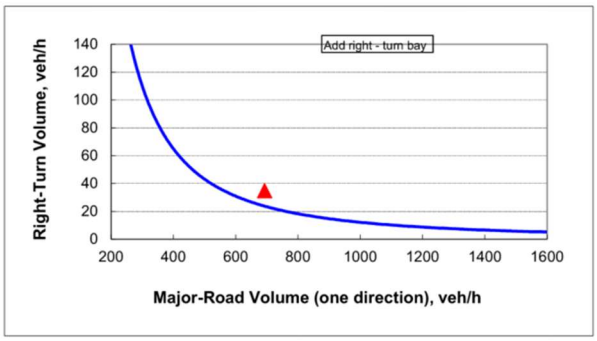
Figure 2 - 6. Guideline for determining the need for a major-road right-turn bay at a two-way stop-controlled intersection.

INPUT

Roadway geometry:	2-lane roadway
Variable	Value
Major-road speed, mph:	45
Major-road volume (one direction), veh/h:	693
Right-turn volume, veh/h:	35

OUTPUT

Variable	Value
Limiting right-turn volume, veh/h:	24
Guidance for determining the need for a major-road right-turn bay for a 2-lane roadway:	
Add right-turn bay.	



Port Royal Road and Brandon Woods Drive (2037 5-Year Horizon AM)

Left-turn Lane Warrants

Figure 2 - 5. Guideline for determining the need for a major-road left-turn bay at a two-way stop-controlled intersection.

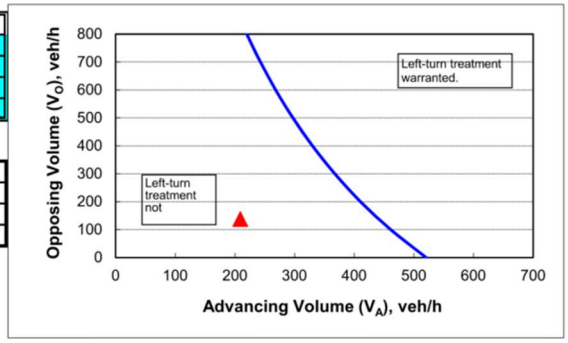
2-lane roadway (English)

INPUT

Variable	Value
85th percentile speed, mph:	45
Percent of left-turns in advancing volume (V_A), %:	11%
Advancing volume (V_A), veh/h:	209
Opposing volume (V_O), veh/h:	138

OUTPUT

Variable	Value
Limiting advancing volume (V_A), veh/h:	441
Guidance for determining the need for a major-road left-turn bay:	
Left-turn treatment NOT warranted.	



CALIBRATION CONSTANTS

Variable	Value
Average time for making left-turn, s:	3.0
Critical headway, s:	5.0
Average time for left-turn vehicle to clear the advancing lane , s:	1.9

Port Royal Road and Brandon Woods Drive (2024 Existing AM)

Figure 2 - 5. Guideline for determining the need for a major-road left-turn bay at a two-way stop-controlled intersection.

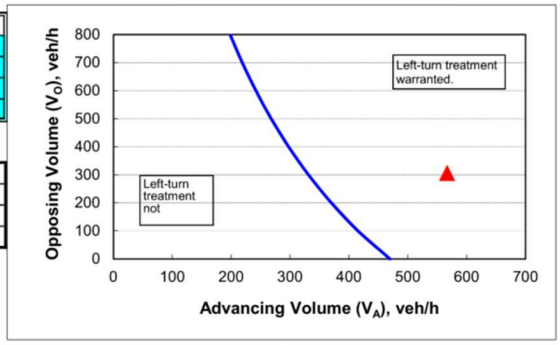
2-lane roadway (English)

INPUT

Variable	Value
85th percentile speed, mph:	45
Percent of left-turns in advancing volume (V_A), %:	14%
Advancing volume (V_A), veh/h:	567
Opposing volume (V_O), veh/h:	306

OUTPUT

Variable	Value
Limiting advancing volume (V_A), veh/h:	329
Guidance for determining the need for a major-road left-turn bay:	
Left-turn treatment warranted.	



CALIBRATION CONSTANTS

Variable	Value
Average time for making left-turn, s:	3.0
Critical headway, s:	5.0
Average time for left-turn vehicle to clear the advancing lane, s:	1.9

Port Royal Road and Brandon Woods Drive (2024 Existing PM)

Figure 2 - 5. Guideline for determining the need for a major-road left-turn bay at a two-way stop-controlled intersection.

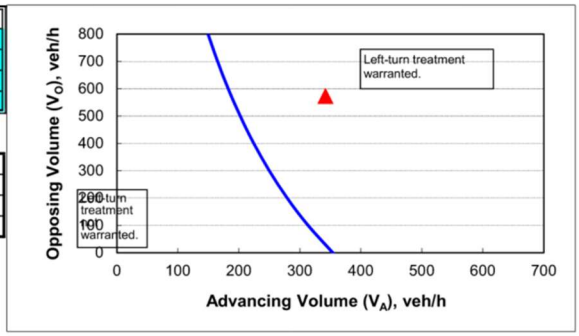
2-lane roadway (English)

INPUT

Variable	Value
85th percentile speed, mph:	45
Percent of left-turns in advancing volume (V_A), %:	30%
Advancing volume (V_A), veh/h:	342
Opposing volume (V_O), veh/h:	574

OUTPUT

Variable	Value
Limiting advancing volume (V_A), veh/h:	187
Guidance for determining the need for a major-road left-turn bay:	
Left-turn treatment warranted.	



CALIBRATION CONSTANTS

Variable	Value
Average time for making left-turn, s:	3.0
Critical headway, s:	5.0
Average time for left-turn vehicle to clear the advancing lane, s:	1.9

Port Royal Road and Brandon Woods Drive (2032 Background AM)

Figure 2 - 5. Guideline for determining the need for a major-road left-turn bay at a two-way stop-controlled intersection.

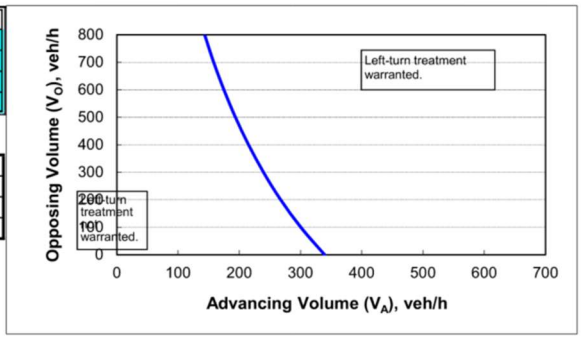
2-lane roadway (English)

INPUT

Variable	Value
85th percentile speed, mph:	45
Percent of left-turns in advancing volume (V_A), %:	36%
Advancing volume (V_A), veh/h:	987
Opposing volume (V_O), veh/h:	439

OUTPUT

Variable	Value
Limiting advancing volume (V_A), veh/h:	206
Guidance for determining the need for a major-road left-turn bay:	
Left-turn treatment warranted.	



CALIBRATION CONSTANTS

Variable	Value
Average time for making left-turn, s:	3.0
Critical headway, s:	5.0
Average time for left-turn vehicle to clear the advancing lane, s:	1.9

Port Royal Road and Brandon Woods Drive (2032 Background PM)

Figure 2 - 5. Guideline for determining the need for a major-road left-turn bay at a two-way stop-controlled intersection.

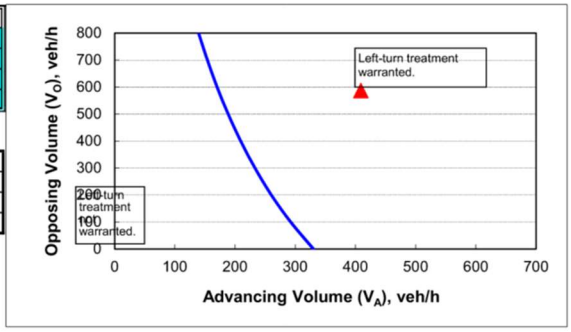
2-lane roadway (English)

INPUT

Variable	Value
85th percentile speed, mph:	45
Percent of left-turns in advancing volume (V_A), %:	42%
Advancing volume (V_A), veh/h:	409
Opposing volume (V_O), veh/h:	588

OUTPUT

Variable	Value
Limiting advancing volume (V_A), veh/h:	172
Guidance for determining the need for a major-road left-turn bay:	
Left-turn treatment warranted.	



CALIBRATION CONSTANTS

Variable	Value
Average time for making left-turn, s:	3.0
Critical headway, s:	5.0
Average time for left-turn vehicle to clear the advancing lane, s:	1.9

Port Royal Road and Brandon Woods Drive (2032 Total Projected AM)

Figure 2 - 5. Guideline for determining the need for a major-road left-turn bay at a two-way stop-controlled intersection.

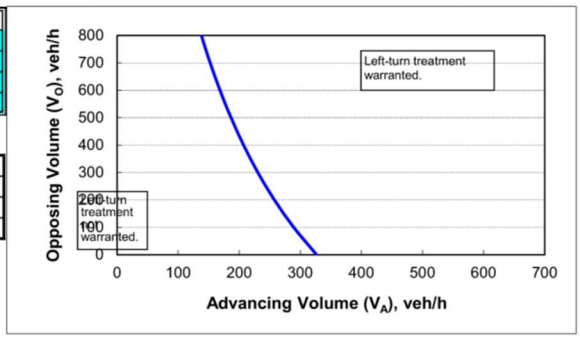
2-lane roadway (English)

INPUT

Variable	Value
85th percentile speed, mph:	45
Percent of left-turns in advancing volume (V_A), %:	47%
Advancing volume (V_A), veh/h:	1180
Opposing volume (V_O), veh/h:	477

OUTPUT

Variable	Value
Limiting advancing volume (V_A), veh/h:	191
Guidance for determining the need for a major-road left-turn bay:	
Left-turn treatment warranted.	



CALIBRATION CONSTANTS

Variable	Value
Average time for making left-turn, s:	3.0
Critical headway, s:	5.0
Average time for left-turn vehicle to clear the advancing lane, s:	1.9

Port Royal Road and Brandon Woods Drive (2032 Total Projected PM)

D. Level of Service Reports

Existing (2024)

Intersection	
Int Delay, s/veh	18.2

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	24	398	531	96	168	219
Future Vol, veh/h	24	398	531	96	168	219
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	300	0	-	100	150	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	81	81	93	93	85	85
Heavy Vehicles, %	0	2	2	2	2	7
Mvmt Flow	30	491	571	103	198	258

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	1225	571	0	0	674	0
Stage 1	571	-	-	-	-	-
Stage 2	654	-	-	-	-	-
Critical Hdwy	6.4	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	199	520	-	-	917	-
Stage 1	569	-	-	-	-	-
Stage 2	521	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	156	520	-	-	917	-
Mov Cap-2 Maneuver	156	-	-	-	-	-
Stage 1	569	-	-	-	-	-
Stage 2	408	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	54	0	4.3
HCM LOS	F		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	WBLn2	SBL	SBT
Capacity (veh/h)	-	-	156	520	917	-
HCM Lane V/C Ratio	-	-	0.19	0.945	0.216	-
HCM Control Delay (s)	-	-	33.4	55.2	10	-
HCM Lane LOS	-	-	D	F	B	-
HCM 95th %tile Q(veh)	-	-	0.7	11.9	0.8	-

Intersection	
Int Delay, s/veh	2.1

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	13	87	428	9	24	185
Future Vol, veh/h	13	87	428	9	24	185
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	200	0	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	86	86	93	93	90	90
Heavy Vehicles, %	38	4	1	44	10	5
Mvmt Flow	15	101	460	10	27	206

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	725	465	0	0	470	0
Stage 1	465	-	-	-	-	-
Stage 2	260	-	-	-	-	-
Critical Hdwy	6.78	6.24	-	-	4.2	-
Critical Hdwy Stg 1	5.78	-	-	-	-	-
Critical Hdwy Stg 2	5.78	-	-	-	-	-
Follow-up Hdwy	3.842	3.336	-	-	2.29	-
Pot Cap-1 Maneuver	344	593	-	-	1051	-
Stage 1	563	-	-	-	-	-
Stage 2	707	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	334	593	-	-	1051	-
Mov Cap-2 Maneuver	334	-	-	-	-	-
Stage 1	563	-	-	-	-	-
Stage 2	686	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	12.8	0	1
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	WBLn2	SBL	SBT
Capacity (veh/h)	-	-	334	593	1051	-
HCM Lane V/C Ratio	-	-	0.045	0.171	0.025	-
HCM Control Delay (s)	-	-	16.3	12.3	8.5	0
HCM Lane LOS	-	-	C	B	A	A
HCM 95th %tile Q(veh)	-	-	0.1	0.6	0.1	-

Intersection	
Int Delay, s/veh	1

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	30	5	19	910	382	42
Future Vol, veh/h	30	5	19	910	382	42
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	50	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	33	5	21	989	415	46

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	1469	438	461	0	-	0
Stage 1	438	-	-	-	-	-
Stage 2	1031	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-	-
Pot Cap-1 Maneuver	140	619	1100	-	-	-
Stage 1	651	-	-	-	-	-
Stage 2	344	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	134	619	1100	-	-	-
Mov Cap-2 Maneuver	134	-	-	-	-	-
Stage 1	624	-	-	-	-	-
Stage 2	344	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	36.1	0.2	0
HCM LOS	E		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	EBLn2	SBT	SBR
Capacity (veh/h)	1100	-	134	619	-	-
HCM Lane V/C Ratio	0.019	-	0.243	0.009	-	-
HCM Control Delay (s)	8.3	0	40.3	10.9	-	-
HCM Lane LOS	A	A	E	B	-	-
HCM 95th %tile Q(veh)	0.1	-	0.9	0	-	-

Intersection	
Int Delay, s/veh	2.4

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	14	106	921	19	36	410
Future Vol, veh/h	14	106	921	19	36	410
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	55	0	-	-	100	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	15	115	1001	21	39	446

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	1536	1012	0	0	1022	0
Stage 1	1012	-	-	-	-	-
Stage 2	524	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	128	290	-	-	679	-
Stage 1	351	-	-	-	-	-
Stage 2	594	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	121	290	-	-	679	-
Mov Cap-2 Maneuver	121	-	-	-	-	-
Stage 1	351	-	-	-	-	-
Stage 2	560	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	27	0	0.9
HCM LOS	D		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	WBLn2	SBL	SBT
Capacity (veh/h)	-	-	121	290	679	-
HCM Lane V/C Ratio	-	-	0.126	0.397	0.058	-
HCM Control Delay (s)	-	-	39	25.4	10.6	-
HCM Lane LOS	-	-	E	D	B	-
HCM 95th %tile Q(veh)	-	-	0.4	1.8	0.2	-

Intersection	
Int Delay, s/veh	3.3

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	7	135	392	22	293	624
Future Vol, veh/h	7	135	392	22	293	624
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	300	0	-	100	150	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	91	91	92	92	94	94
Heavy Vehicles, %	0	2	1	3	2	1
Mvmt Flow	8	148	426	24	312	664

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	1714	426	0	0	450	0
Stage 1	426	-	-	-	-	-
Stage 2	1288	-	-	-	-	-
Critical Hdwy	6.4	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	100	628	-	-	1110	-
Stage 1	663	-	-	-	-	-
Stage 2	261	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	72	628	-	-	1110	-
Mov Cap-2 Maneuver	72	-	-	-	-	-
Stage 1	663	-	-	-	-	-
Stage 2	188	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	14.9	0	3
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	WBLn2	SBL	SBT
Capacity (veh/h)	-	-	72	628	1110	-
HCM Lane V/C Ratio	-	-	0.107	0.236	0.281	-
HCM Control Delay (s)	-	-	60.9	12.5	9.5	-
HCM Lane LOS	-	-	F	B	A	-
HCM 95th %tile Q(veh)	-	-	0.3	0.9	1.2	-

Intersection	
Int Delay, s/veh	1.5

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	8	48	295	11	77	490
Future Vol, veh/h	8	48	295	11	77	490
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	200	0	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	75	75	84	84	91	91
Heavy Vehicles, %	3	6	1	6	2	1
Mvmt Flow	11	64	351	13	85	538

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	1066	358	0	0	364	0
Stage 1	358	-	-	-	-	-
Stage 2	708	-	-	-	-	-
Critical Hdwy	6.43	6.26	-	-	4.12	-
Critical Hdwy Stg 1	5.43	-	-	-	-	-
Critical Hdwy Stg 2	5.43	-	-	-	-	-
Follow-up Hdwy	3.527	3.354	-	-	2.218	-
Pot Cap-1 Maneuver	245	677	-	-	1195	-
Stage 1	705	-	-	-	-	-
Stage 2	486	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	220	677	-	-	1195	-
Mov Cap-2 Maneuver	220	-	-	-	-	-
Stage 1	705	-	-	-	-	-
Stage 2	437	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	12.5	0	1.1
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	WBLn2	SBL	SBT
Capacity (veh/h)	-	-	220	677	1195	-
HCM Lane V/C Ratio	-	-	0.048	0.095	0.071	-
HCM Control Delay (s)	-	-	22.2	10.9	8.2	0
HCM Lane LOS	-	-	C	B	A	A
HCM 95th %tile Q(veh)	-	-	0.2	0.3	0.2	-

Intersection	
Int Delay, s/veh	3.5

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	64	14	11	516	903	100
Future Vol, veh/h	64	14	11	516	903	100
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	50	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	70	15	12	561	982	109

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	1622	1037	1091	0	-	0
Stage 1	1037	-	-	-	-	-
Stage 2	585	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-	-
Pot Cap-1 Maneuver	113	281	640	-	-	-
Stage 1	342	-	-	-	-	-
Stage 2	557	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	110	281	640	-	-	-
Mov Cap-2 Maneuver	110	-	-	-	-	-
Stage 1	333	-	-	-	-	-
Stage 2	557	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	70.7	0.2	0
HCM LOS	F		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	EBLn2	SBT	SBR
Capacity (veh/h)	640	-	110	281	-	-
HCM Lane V/C Ratio	0.019	-	0.632	0.054	-	-
HCM Control Delay (s)	10.7	0	82.1	18.5	-	-
HCM Lane LOS	B	A	F	C	-	-
HCM 95th %tile Q(veh)	0.1	-	3.2	0.2	-	-

Intersection	
Int Delay, s/veh	1.5

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	7	95	568	12	87	996
Future Vol, veh/h	7	95	568	12	87	996
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	55	0	-	-	100	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	8	103	617	13	95	1083

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	1897	624	0	0	630	0
Stage 1	624	-	-	-	-	-
Stage 2	1273	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	76	485	-	-	952	-
Stage 1	534	-	-	-	-	-
Stage 2	263	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	68	485	-	-	952	-
Mov Cap-2 Maneuver	68	-	-	-	-	-
Stage 1	534	-	-	-	-	-
Stage 2	237	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	17.8	0	0.7
HCM LOS	C		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	WBLn2	SBL	SBT
Capacity (veh/h)	-	-	68	485	952	-
HCM Lane V/C Ratio	-	-	0.112	0.213	0.099	-
HCM Control Delay (s)	-	-	64.5	14.4	9.2	-
HCM Lane LOS	-	-	F	B	A	-
HCM 95th %tile Q(veh)	-	-	0.4	0.8	0.3	-

Background (2032)

Intersection	
Int Delay, s/veh	80.7

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	31	513	684	124	282	289
Future Vol, veh/h	31	513	684	124	282	289
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	300	0	-	100	150	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	81	81	93	93	85	85
Heavy Vehicles, %	0	2	2	2	2	7
Mvmt Flow	38	633	735	133	332	340

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	1739	735	0	0	868	0
Stage 1	735	-	-	-	-	-
Stage 2	1004	-	-	-	-	-
Critical Hdwy	6.4	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	97	~ 420	-	-	776	-
Stage 1	478	-	-	-	-	-
Stage 2	357	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	55	~ 420	-	-	776	-
Mov Cap-2 Maneuver	55	-	-	-	-	-
Stage 1	478	-	-	-	-	-
Stage 2	204	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s/v	259.3	0	6.4
HCM LOS	F		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	WBLn2	SBL	SBT
Capacity (veh/h)	-	-	55	420	776	-
HCM Lane V/C Ratio	-	-	0.696	1.508	0.428	-
HCM Control Delay (s/veh)	-	-	160.7	265.3	13.1	-
HCM Lane LOS	-	-	F	F	B	-
HCM 95th %tile Q (veh)	-	-	2.9	33.7	2.2	-

Notes			
~: Volume exceeds capacity	$: Delay exceeds 300s	+: Computation Not Defined	*: All major volume in platoon

Intersection	
Int Delay, s/veh	20.4

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	68	403	551	23	104	238
Future Vol, veh/h	68	403	551	23	104	238
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	200	0	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	86	86	93	93	90	90
Heavy Vehicles, %	38	4	1	44	10	5
Mvmt Flow	79	469	592	25	116	264

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	1101	605	0	0	617	0
Stage 1	605	-	-	-	-	-
Stage 2	496	-	-	-	-	-
Critical Hdwy	6.78	6.24	-	-	4.2	-
Critical Hdwy Stg 1	5.78	-	-	-	-	-
Critical Hdwy Stg 2	5.78	-	-	-	-	-
Follow-up Hdwy	3.842	3.336	-	-	2.29	-
Pot Cap-1 Maneuver	200	494	-	-	925	-
Stage 1	481	-	-	-	-	-
Stage 2	544	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	171	494	-	-	925	-
Mov Cap-2 Maneuver	171	-	-	-	-	-
Stage 1	481	-	-	-	-	-
Stage 2	464	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s/v	55.6	0	2.9
HCM LOS	F		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	WBLn2	SBL	SBT
Capacity (veh/h)	-	-	171	494	925	-
HCM Lane V/C Ratio	-	-	0.462	0.949	0.125	-
HCM Control Delay (s/veh)	-	-	43	57.7	9.4	0
HCM Lane LOS	-	-	E	F	A	A
HCM 95th %tile Q (veh)	-	-	2.2	11.8	0.4	-

Intersection	
Int Delay, s/veh	4.5

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	9	174	505	28	377	1061
Future Vol, veh/h	9	174	505	28	377	1061
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	300	0	-	100	150	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	91	91	92	92	94	94
Heavy Vehicles, %	0	2	1	3	2	1
Mvmt Flow	10	191	549	30	401	1129

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	2480	549	0	0	579	0
Stage 1	549	-	-	-	-	-
Stage 2	1931	-	-	-	-	-
Critical Hdwy	6.4	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	33	535	-	-	995	-
Stage 1	583	-	-	-	-	-
Stage 2	126	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	20	535	-	-	995	-
Mov Cap-2 Maneuver	20	-	-	-	-	-
Stage 1	583	-	-	-	-	-
Stage 2	75	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s/v	29.5	0	2.9
HCM LOS	D		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	WBLn2	SBL	SBT
Capacity (veh/h)	-	-	20	535	995	-
HCM Lane V/C Ratio	-	-	0.495	0.357	0.403	-
HCM Control Delay (s/veh)	-	-	$ 301.5	15.4	11	-
HCM Lane LOS	-	-	F	C	B	-
HCM 95th %tile Q (veh)	-	-	1.4	1.6	2	-

Intersection	
Int Delay, s/veh	22.6

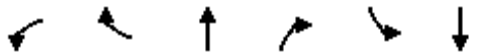
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	37	213	380	59	356	631
Future Vol, veh/h	37	213	380	59	356	631
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	200	0	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	75	75	84	84	91	91
Heavy Vehicles, %	3	6	1	6	2	1
Mvmt Flow	49	284	452	70	391	693

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	1962	487	0	0	522	0
Stage 1	487	-	-	-	-	-
Stage 2	1475	-	-	-	-	-
Critical Hdwy	6.43	6.26	-	-	4.12	-
Critical Hdwy Stg 1	5.43	-	-	-	-	-
Critical Hdwy Stg 2	5.43	-	-	-	-	-
Follow-up Hdwy	3.527	3.354	-	-	2.218	-
Pot Cap-1 Maneuver	69	572	-	-	1044	-
Stage 1	616	-	-	-	-	-
Stage 2	209	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	~ 27	572	-	-	1044	-
Mov Cap-2 Maneuver	~ 27	-	-	-	-	-
Stage 1	616	-	-	-	-	-
Stage 2	82	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s/v	119	0	3.8
HCM LOS	F		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	WBLn2	SBL	SBT
Capacity (veh/h)	-	-	27	572	1044	-
HCM Lane V/C Ratio	-	-	1.827	0.497	0.375	-
HCM Control Delay (s/veh)	-	-	$ 704.3	17.3	10.5	0
HCM Lane LOS	-	-	F	C	B	A
HCM 95th %tile Q (veh)	-	-	5.9	2.7	1.8	-

Notes			
~: Volume exceeds capacity	$: Delay exceeds 300s	+: Computation Not Defined	*: All major volume in platoon



Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (veh/h)	31	513	684	124	282	289
Future Volume (veh/h)	31	513	684	124	282	289
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00		1.00	1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No		No			No
Adj Sat Flow, veh/h/ln	1900	1870	1870	1870	1870	1796
Adj Flow Rate, veh/h	38	633	735	133	332	340
Peak Hour Factor	0.81	0.81	0.93	0.93	0.85	0.85
Percent Heavy Veh, %	0	2	2	2	2	7
Cap, veh/h	404	562	816	691	380	1145
Arrive On Green	0.22	0.22	0.44	0.44	0.13	0.64
Sat Flow, veh/h	1810	1585	1870	1585	1781	1796
Grp Volume(v), veh/h	38	633	735	133	332	340
Grp Sat Flow(s),veh/h/ln	1810	1585	1870	1585	1781	1796
Q Serve(g_s), s	1.2	16.0	26.2	3.7	7.0	6.1
Cycle Q Clear(g_c), s	1.2	16.0	26.2	3.7	7.0	6.1
Prop In Lane	1.00	1.00		1.00	1.00	
Lane Grp Cap(c), veh/h	404	562	816	691	380	1145
V/C Ratio(X)	0.09	1.13	0.90	0.19	0.87	0.30
Avail Cap(c_a), veh/h	404	562	939	796	469	1353
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	22.1	23.1	18.8	12.4	15.5	5.8
Incr Delay (d2), s/veh	0.1	77.8	10.7	0.1	14.2	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.5	20.4	11.7	1.1	3.5	1.6
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	22.2	100.9	29.4	12.6	29.7	6.0
LnGrp LOS	C	F	C	B	C	A
Approach Vol, veh/h	671		868			672
Approach Delay, s/veh	96.5		26.8			17.7
Approach LOS	F		C			B

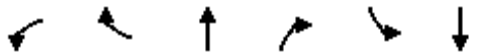
Timer - Assigned Phs	1	2			6	8
Phs Duration (G+Y+Rc), s	14.4	36.3			50.7	21.0
Change Period (Y+Rc), s	5.0	5.0			5.0	5.0
Max Green Setting (Gmax), s	13.0	36.0			54.0	16.0
Max Q Clear Time (g_c+I1), s	9.0	28.2			8.1	18.0
Green Ext Time (p_c), s	0.4	3.1			2.0	0.0

Intersection Summary	
HCM 6th Ctrl Delay	45.2
HCM 6th LOS	D

Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Group Flow (vph)	38	633	735	133	332	340
v/c Ratio	0.10	0.83	0.92	0.18	0.86	0.29
Control Delay	27.0	27.2	39.0	7.3	40.6	6.1
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	27.0	27.2	39.0	7.3	40.6	6.1
Queue Length 50th (ft)	16	226	320	16	104	58
Queue Length 95th (ft)	36	309	#541	47	#219	87
Internal Link Dist (ft)	1302		3247			537
Turn Bay Length (ft)	300			100	150	
Base Capacity (vph)	380	756	883	789	399	1263
Starvation Cap Reductn	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0
Reduced v/c Ratio	0.10	0.84	0.83	0.17	0.83	0.27

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (veh/h)	68	403	551	23	104	238
Future Volume (veh/h)	68	403	551	23	104	238
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00		1.00	1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No		No			No
Adj Sat Flow, veh/h/ln	1390	1914	1885	1248	1752	1826
Adj Flow Rate, veh/h	79	469	592	25	116	264
Peak Hour Factor	0.86	0.86	0.93	0.93	0.90	0.90
Percent Heavy Veh, %	38	4	1	44	10	5
Cap, veh/h	438	536	844	36	302	858
Arrive On Green	0.33	0.33	0.47	0.47	0.47	0.47
Sat Flow, veh/h	1324	1622	1796	76	755	1826
Grp Volume(v), veh/h	79	469	0	617	116	264
Grp Sat Flow(s),veh/h/ln	1324	1622	0	1872	755	1826
Q Serve(g_s), s	2.1	13.6	0.0	13.1	7.2	4.5
Cycle Q Clear(g_c), s	2.1	13.6	0.0	13.1	20.3	4.5
Prop In Lane	1.00	1.00		0.04	1.00	
Lane Grp Cap(c), veh/h	438	536	0	880	302	858
V/C Ratio(X)	0.18	0.87	0.00	0.70	0.38	0.31
Avail Cap(c_a), veh/h	528	647	0	1120	399	1093
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	11.9	15.8	0.0	10.5	18.5	8.2
Incr Delay (d2), s/veh	0.2	11.1	0.0	1.4	0.8	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.6	6.0	0.0	3.8	1.1	1.2
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	12.1	26.9	0.0	11.9	19.3	8.4
LnGrp LOS	B	C	A	B	B	A
Approach Vol, veh/h	548		617			380
Approach Delay, s/veh	24.8		11.9			11.8
Approach LOS	C		B			B

Timer - Assigned Phs		2			6	8
Phs Duration (G+Y+Rc), s		29.6			29.6	20.6
Change Period (Y+Rc), s		6.0			6.0	4.0
Max Green Setting (Gmax), s		30.0			30.0	20.0
Max Q Clear Time (g_c+I1), s		15.1			22.3	15.6
Green Ext Time (p_c), s		3.3			1.3	0.9

Intersection Summary	
HCM 6th Ctrl Delay	16.4
HCM 6th LOS	B

Lane Group	WBL	WBR	NBT	SBL	SBT
Lane Group Flow (vph)	79	469	617	116	264
v/c Ratio	0.21	0.74	0.70	0.45	0.31
Control Delay	14.5	15.6	14.9	15.7	8.9
Queue Delay	0.0	0.0	0.0	0.0	0.0
Total Delay	14.5	15.6	14.9	15.7	8.9
Queue Length 50th (ft)	14	45	105	17	35
Queue Length 95th (ft)	44	142	257	66	92
Internal Link Dist (ft)	485		326		367
Turn Bay Length (ft)	200			200	
Base Capacity (vph)	655	922	1338	394	1315
Starvation Cap Reductn	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0
Reduced v/c Ratio	0.12	0.51	0.46	0.29	0.20

Intersection Summary

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (veh/h)	9	174	505	28	377	1061
Future Volume (veh/h)	9	174	505	28	377	1061
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00		1.00	1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No		No			No
Adj Sat Flow, veh/h/ln	1900	1870	1885	1856	1870	1885
Adj Flow Rate, veh/h	10	191	549	30	401	1129
Peak Hour Factor	0.91	0.91	0.92	0.92	0.94	0.94
Percent Heavy Veh, %	0	2	1	3	2	1
Cap, veh/h	245	457	816	681	565	1269
Arrive On Green	0.14	0.14	0.43	0.43	0.15	0.67
Sat Flow, veh/h	1810	1585	1885	1572	1781	1885
Grp Volume(v), veh/h	10	191	549	30	401	1129
Grp Sat Flow(s),veh/h/ln	1810	1585	1885	1572	1781	1885
Q Serve(g_s), s	0.3	5.6	13.4	0.6	6.3	28.0
Cycle Q Clear(g_c), s	0.3	5.6	13.4	0.6	6.3	28.0
Prop In Lane	1.00	1.00		1.00	1.00	
Lane Grp Cap(c), veh/h	245	457	816	681	565	1269
V/C Ratio(X)	0.04	0.42	0.67	0.04	0.71	0.89
Avail Cap(c_a), veh/h	663	823	1019	850	665	1578
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	21.6	16.5	13.0	9.4	9.2	7.6
Incr Delay (d2), s/veh	0.1	0.6	1.2	0.0	2.9	5.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.1	1.8	4.5	0.2	1.7	6.6
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	21.6	17.1	14.3	9.4	12.1	13.3
LnGrp LOS	C	B	B	A	B	B
Approach Vol, veh/h	201		579			1530
Approach Delay, s/veh	17.4		14.0			13.0
Approach LOS	B		B			B

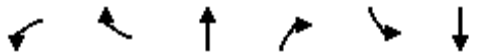
Timer - Assigned Phs	1	2			6	8
Phs Duration (G+Y+Rc), s	13.8	30.8			44.6	12.7
Change Period (Y+Rc), s	5.0	6.0			6.0	5.0
Max Green Setting (Gmax), s	12.0	31.0			48.0	21.0
Max Q Clear Time (g_c+I1), s	8.3	15.4			30.0	7.6
Green Ext Time (p_c), s	0.5	2.9			8.6	0.5

Intersection Summary	
HCM 6th Ctrl Delay	13.6
HCM 6th LOS	B

Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Group Flow (vph)	10	191	549	30	401	1129
v/c Ratio	0.05	0.28	0.62	0.04	0.66	0.83
Control Delay	26.7	4.7	17.4	6.3	9.8	14.0
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	26.7	4.7	17.4	6.3	9.8	14.0
Queue Length 50th (ft)	4	6	152	2	37	218
Queue Length 95th (ft)	16	42	275	15	108	#653
Internal Link Dist (ft)	1302		3247			537
Turn Bay Length (ft)	300			100	150	
Base Capacity (vph)	580	686	892	754	610	1381
Starvation Cap Reductn	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0
Reduced v/c Ratio	0.02	0.28	0.62	0.04	0.66	0.82

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (veh/h)	37	213	380	59	356	631
Future Volume (veh/h)	37	213	380	59	356	631
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00		1.00	1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No		No			No
Adj Sat Flow, veh/h/ln	1930	1884	1885	1811	1870	1885
Adj Flow Rate, veh/h	49	284	452	70	391	693
Peak Hour Factor	0.75	0.75	0.84	0.84	0.91	0.91
Percent Heavy Veh, %	3	6	1	6	2	1
Cap, veh/h	400	347	531	82	502	1128
Arrive On Green	0.22	0.22	0.33	0.33	0.17	0.60
Sat Flow, veh/h	1838	1596	1594	247	1781	1885
Grp Volume(v), veh/h	49	284	0	522	391	693
Grp Sat Flow(s),veh/h/ln	1838	1596	0	1841	1781	1885
Q Serve(g_s), s	1.2	9.2	0.0	14.4	7.0	12.7
Cycle Q Clear(g_c), s	1.2	9.2	0.0	14.4	7.0	12.7
Prop In Lane	1.00	1.00		0.13	1.00	
Lane Grp Cap(c), veh/h	400	347	0	613	502	1128
V/C Ratio(X)	0.12	0.82	0.00	0.85	0.78	0.61
Avail Cap(c_a), veh/h	629	546	0	792	619	1435
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	17.1	20.2	0.0	16.9	10.7	6.9
Incr Delay (d2), s/veh	0.1	5.4	0.0	7.1	5.1	0.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.5	3.7	0.0	6.0	2.4	2.9
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	17.2	25.6	0.0	24.0	15.8	7.5
LnGrp LOS	B	C	A	C	B	A
Approach Vol, veh/h	333		522			1084
Approach Delay, s/veh	24.4		24.0			10.5
Approach LOS	C		C			B

Timer - Assigned Phs	1	2			6	8
Phs Duration (G+Y+Rc), s	14.4	24.1			38.5	15.8
Change Period (Y+Rc), s	5.0	6.0			6.0	4.0
Max Green Setting (Gmax), s	13.0	23.4			41.4	18.6
Max Q Clear Time (g_c+I1), s	9.0	16.4			14.7	11.2
Green Ext Time (p_c), s	0.5	1.7			4.6	0.7

Intersection Summary	
HCM 6th Ctrl Delay	16.5
HCM 6th LOS	B

Lane Group	WBL	WBR	NBT	SBL	SBT
Lane Group Flow (vph)	49	284	522	391	693
v/c Ratio	0.19	0.60	0.77	0.68	0.55
Control Delay	24.0	9.5	25.1	12.8	6.9
Queue Delay	0.0	0.0	0.0	0.0	0.0
Total Delay	24.0	9.5	25.1	12.8	6.9
Queue Length 50th (ft)	15	0	142	35	84
Queue Length 95th (ft)	34	28	251	#161	205
Internal Link Dist (ft)	379		326		367
Turn Bay Length (ft)	200			200	
Base Capacity (vph)	629	749	808	617	1453
Starvation Cap Reductn	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0
Reduced v/c Ratio	0.08	0.38	0.65	0.63	0.48

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Total Projected (2032)

Intersection	
Int Delay, s/veh	445.5

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	51	713	1025	131	391	475
Future Vol, veh/h	51	713	1025	131	391	475
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	300	0	-	100	150	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	81	81	93	93	85	85
Heavy Vehicles, %	0	2	2	2	2	7
Mvmt Flow	63	880	1102	141	460	559

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	2581	1102	0	0	1243	0
Stage 1	1102	-	-	-	-	-
Stage 2	1479	-	-	-	-	-
Critical Hdwy	6.4	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	~ 29	~ 257	-	-	560	-
Stage 1	321	-	-	-	-	-
Stage 2	211	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	~ 5	~ 257	-	-	560	-
Mov Cap-2 Maneuver	~ 5	-	-	-	-	-
Stage 1	321	-	-	-	-	-
Stage 2	~ 38	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	$ 1497	0	15.5
HCM LOS	F		

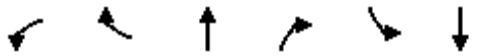
Minor Lane/Major Mvmt	NBT	NBR	WBLn1	WBLn2	SBL	SBT
Capacity (veh/h)	-	-	5	257	560	-
HCM Lane V/C Ratio	-	-	12.593	3.425	0.821	-
HCM Control Delay (s)	-	-	$ 6632.3	$ 1129.7	34.4	-
HCM Lane LOS	-	-	F	F	D	-
HCM 95th %tile Q(veh)	-	-	9.7	81.9	8.3	-

Notes			
~: Volume exceeds capacity	$: Delay exceeds 300s	+: Computation Not Defined	*: All major volume in platoon

Lane Group	WBL	WBR	NBT	SBL	SBT
Lane Group Flow (vph)	102	706	632	190	287
v/c Ratio	0.32	0.79	0.83	0.52	0.25
Control Delay	27.8	19.5	26.7	11.9	5.8
Queue Delay	0.0	0.0	0.0	0.0	0.0
Total Delay	27.8	19.5	26.7	11.9	5.8
Queue Length 50th (ft)	34	140	216	28	44
Queue Length 95th (ft)	86	#398	332	67	72
Internal Link Dist (ft)	3394		326		367
Turn Bay Length (ft)	200			180	
Base Capacity (vph)	316	893	1425	362	1710
Starvation Cap Reductn	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0
Reduced v/c Ratio	0.32	0.79	0.44	0.52	0.17

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (veh/h)	88	607	558	30	171	258
Future Volume (veh/h)	88	607	558	30	171	258
Number	3	18	2	12	1	6
Initial Q, veh	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00	1.00		1.00	1.00	
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No		No			No
Lanes Open During Work Zone						
Adj Sat Flow, veh/h/ln	1390	1914	1885	1248	1752	1826
Adj Flow Rate, veh/h	102	706	600	32	190	287
Peak Hour Factor	0.86	0.86	0.93	0.93	0.90	0.90
Percent Heavy Veh, %	38	4	1	44	10	5
Opposing Right Turn Influence	Yes				Yes	
Cap, veh/h	353	582	725	39	358	1057
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.27	0.27	0.41	0.41	0.09	0.58
Unsig. Movement Delay						
Ln Grp Delay, s/veh	17.4	129.3	0.0	17.7	12.7	6.3
Ln Grp LOS	B	F	A	B	B	A
Approach Vol, veh/h	808		632			477
Approach Delay, s/veh	115.2		17.7			8.8
Approach LOS	F		B			A

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	1	2	8			6		
Case No	1.2	8.0	9.0			4.0		
Phs Duration (G+Y+Rc), s	9.9	28.3	20.0			38.2		
Change Period (Y+Rc), s	4.5	4.5	4.5			4.5		
Max Green (Gmax), s	9.5	51.5	15.5			65.5		
Max Allow Headway (MAH), s	3.7	4.9	4.1			4.9		
Max Q Clear (g_c+I1), s	5.5	19.6	17.5			6.6		
Green Ext Time (g_e), s	0.2	4.2	0.0			1.6		
Prob of Phs Call (p_c)	0.95	1.00	1.00			1.00		
Prob of Max Out (p_x)	0.78	0.00	1.00			0.00		

Left-Turn Movement Data								
Assigned Mvmt	1	5	3					
Mvmt Sat Flow, veh/h	1668	0	1324					

Through Movement Data								
Assigned Mvmt		2	8			6		
Mvmt Sat Flow, veh/h		1774	0			1826		

Right-Turn Movement Data								
Assigned Mvmt		12	18			16		
Mvmt Sat Flow, veh/h		95	1622			0		

Left Lane Group Data								
Assigned Mvmt	1	5	3	0	0	0	0	0
Lane Assignment	L (Pr/Pm)		L					

Lanes in Grp	1	0	1	0	0	0	0	0
Grp Vol (v), veh/h	190	0	102	0	0	0	0	0
Grp Sat Flow (s), veh/h/ln	1668	0	1324	0	0	0	0	0
Q Serve Time (g_s), s	3.5	0.0	3.6	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	3.5	0.0	3.6	0.0	0.0	0.0	0.0	0.0
Perm LT Sat Flow (s_l), veh/h/ln	744	0	1324	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	25.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	6.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	6.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	23.8	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
Lane Grp Cap (c), veh/h	358	0	353	0	0	0	0	0
V/C Ratio (X)	0.53	0.00	0.29	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	476	0	353	0	0	0	0	0
Upstream Filter (I)	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	11.5	0.0	17.0	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	1.2	0.0	0.4	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	12.7	0.0	17.4	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.8	0.0	1.0	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00
%ile Back of Q (50%), veh/ln	1.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.14	0.00	0.17	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	0	2	8	0	0	6	0	0
Lane Assignment						T		
Lanes in Grp	0	0	0	0	0	1	0	0
Grp Vol (v), veh/h	0	0	0	0	0	287	0	0
Grp Sat Flow (s), veh/h/ln	0	0	0	0	0	1826	0	0
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	4.6	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	0.0	4.6	0.0	0.0
Lane Grp Cap (c), veh/h	0	0	0	0	0	1057	0	0
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.00	0.27	0.00	0.00
Avail Cap (c_a), veh/h	0	0	0	0	0	2056	0	0
Upstream Filter (I)	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	0.0	6.1	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	6.3	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	18	0	0	16	0	0
Lane Assignment		T+R	R					
Lanes in Grp	0	1	1	0	0	0	0	0
Grp Vol (v), veh/h	0	632	706	0	0	0	0	0
Grp Sat Flow (s), veh/h/ln	0	1868	1622	0	0	0	0	0
Q Serve Time (g_s), s	0.0	17.6	15.5	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	17.6	15.5	0.0	0.0	0.0	0.0	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	1622.3	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	5.4	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	0.05	1.00	0.00	0.00	0.00	0.00	0.00
Lane Grp Cap (c), veh/h	0	764	582	0	0	0	0	0
V/C Ratio (X)	0.00	0.83	1.21	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	1654	582	0	0	0	0	0
Upstream Filter (I)	0.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	15.4	18.6	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	2.4	110.7	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	17.7	129.3	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	5.7	7.0	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.5	17.9	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00
%ile Back of Q (50%), veh/ln	0.0	6.2	24.9	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.42	0.19	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	30.9	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 6th Ctrl Delay	56.6
HCM 6th LOS	E

Intersection	
Int Delay, s/veh	4.6

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Vol, veh/h	55	60	184	0	0	156
Future Vol, veh/h	55	60	184	0	0	156
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	67	67	92	92	86	86
Heavy Vehicles, %	2	2	4	0	0	0
Mvmt Flow	82	90	200	0	0	181

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	200	0	-	0	454	200
Stage 1	-	-	-	-	200	-
Stage 2	-	-	-	-	254	-
Critical Hdwy	4.12	-	-	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	2.218	-	-	-	3.5	3.3
Pot Cap-1 Maneuver	1372	-	-	-	568	846
Stage 1	-	-	-	-	838	-
Stage 2	-	-	-	-	793	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1372	-	-	-	532	846
Mov Cap-2 Maneuver	-	-	-	-	532	-
Stage 1	-	-	-	-	785	-
Stage 2	-	-	-	-	793	-

Approach	EB	WB	SB
HCM Control Delay, s	3.7	0	10.4
HCM LOS			B

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	1372	-	-	-	846
HCM Lane V/C Ratio	0.06	-	-	-	0.214
HCM Control Delay (s)	7.8	0	-	-	10.4
HCM Lane LOS	A	A	-	-	B
HCM 95th %tile Q(veh)	0.2	-	-	-	0.8

Intersection	
Intersection Delay, s/veh	7.6
Intersection LOS	A

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	40	34	102	0	0	122
Future Vol, veh/h	40	34	102	0	0	122
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	43	37	111	0	0	133
Number of Lanes	1	0	0	1	1	0

Approach	EB	NB	SB
Opposing Approach		SB	NB
Opposing Lanes	0	1	1
Conflicting Approach Left	SB	EB	
Conflicting Lanes Left	1	1	0
Conflicting Approach Right	NB		EB
Conflicting Lanes Right	1	0	1
HCM Control Delay	7.7	8.1	7.2
HCM LOS	A	A	A

Lane	NBLn1	EBLn1	SBLn1
Vol Left, %	100%	54%	0%
Vol Thru, %	0%	0%	0%
Vol Right, %	0%	46%	100%
Sign Control	Stop	Stop	Stop
Traffic Vol by Lane	102	74	122
LT Vol	102	40	0
Through Vol	0	0	0
RT Vol	0	34	122
Lane Flow Rate	111	80	133
Geometry Grp	1	1	1
Degree of Util (X)	0.135	0.093	0.131
Departure Headway (Hd)	4.376	4.182	3.558
Convergence, Y/N	Yes	Yes	Yes
Cap	814	844	993
Service Time	2.432	2.273	1.633
HCM Lane V/C Ratio	0.136	0.095	0.134
HCM Control Delay	8.1	7.7	7.2
HCM Lane LOS	A	A	A
HCM 95th-tile Q	0.5	0.3	0.5

Intersection	
Intersection Delay, s/veh	7.7
Intersection LOS	A

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	122	0	0	40	0	0
Future Vol, veh/h	122	0	0	40	0	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	133	0	0	43	0	0
Number of Lanes	1	0	1	0	0	1

Approach	WB	NB	SB
Opposing Approach		SB	NB
Opposing Lanes	0	1	1
Conflicting Approach Left	NB		WB
Conflicting Lanes Left	1	0	1
Conflicting Approach Right	SB	WB	
Conflicting Lanes Right	1	1	0
HCM Control Delay	8	6.8	0
HCM LOS	A	A	-

Lane	NBLn1	WBLn1	SBLn1
Vol Left, %	0%	100%	0%
Vol Thru, %	0%	0%	100%
Vol Right, %	100%	0%	0%
Sign Control	Stop	Stop	Stop
Traffic Vol by Lane	40	122	0
LT Vol	0	122	0
Through Vol	0	0	0
RT Vol	40	0	0
Lane Flow Rate	43	133	0
Geometry Grp	1	1	1
Degree of Util (X)	0.043	0.155	0
Departure Headway (Hd)	3.565	4.211	4.201
Convergence, Y/N	Yes	Yes	Yes
Cap	990	855	0
Service Time	1.637	2.219	2.278
HCM Lane V/C Ratio	0.043	0.156	0
HCM Control Delay	6.8	8	7.3
HCM Lane LOS	A	A	N
HCM 95th-tile Q	0.1	0.5	0

Intersection	
Intersection Delay, s/veh	7
Intersection LOS	A

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	0	102	0	0	34	0
Future Vol, veh/h	0	102	0	0	34	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	111	0	0	37	0
Number of Lanes	1	0	1	0	0	1

Approach	WB	NB	SB
Opposing Approach		SB	NB
Opposing Lanes	0	1	1
Conflicting Approach Left	NB		WB
Conflicting Lanes Left	1	0	1
Conflicting Approach Right	SB	WB	
Conflicting Lanes Right	1	1	0
HCM Control Delay	6.8	0	7.5
HCM LOS	A	-	A

Lane	NBLn1	WBLn1	SBLn1
Vol Left, %	0%	0%	100%
Vol Thru, %	100%	0%	0%
Vol Right, %	0%	100%	0%
Sign Control	Stop	Stop	Stop
Traffic Vol by Lane	0	102	34
LT Vol	0	0	34
Through Vol	0	0	0
RT Vol	0	102	0
Lane Flow Rate	0	111	37
Geometry Grp	1	1	1
Degree of Util (X)	0	0.105	0.044
Departure Headway (Hd)	4.158	3.399	4.329
Convergence, Y/N	Yes	Yes	Yes
Cap	0	1054	830
Service Time	2.18	1.42	2.341
HCM Lane V/C Ratio	0	0.105	0.045
HCM Control Delay	7.2	6.8	7.5
HCM Lane LOS	N	A	A
HCM 95th-tile Q	0	0.4	0.1

Intersection	
Int Delay, s/veh	23.4

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	48	18	32	1706	848	42
Future Vol, veh/h	48	18	32	1706	848	42
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	50	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	52	20	35	1854	922	46

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	2869	945	968	0	-	0
Stage 1	945	-	-	-	-	-
Stage 2	1924	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-	-
Pot Cap-1 Maneuver	~ 18	318	712	-	-	-
Stage 1	378	-	-	-	-	-
Stage 2	125	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	~ 18	318	712	-	-	-
Mov Cap-2 Maneuver	~ 18	-	-	-	-	-
Stage 1	378	-	-	-	-	-
Stage 2	125	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	$ 948.7	0.2	0
HCM LOS	F		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	EBLn2	SBT	SBR
Capacity (veh/h)	712	-	18	318	-	-
HCM Lane V/C Ratio	0.049	-	2.899	0.062	-	-
HCM Control Delay (s)	10.3	0	$ 1298	17.1	-	-
HCM Lane LOS	B	A	F	C	-	-
HCM 95th %tile Q(veh)	0.2	-	7	0.2	-	-

Notes			
~: Volume exceeds capacity	$: Delay exceeds 300s	+: Computation Not Defined	*: All major volume in platoon

Intersection	
Int Delay, s/veh	27.3

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	18	137	1726	28	60	872
Future Vol, veh/h	18	137	1726	28	60	872
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	55	0	-	-	100	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	20	149	1876	30	65	948

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	2969	1891	0	0	1906	0
Stage 1	1891	-	-	-	-	-
Stage 2	1078	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	~ 16	~ 87	-	-	311	-
Stage 1	130	-	-	-	-	-
Stage 2	327	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	~ 13	~ 87	-	-	311	-
Mov Cap-2 Maneuver	~ 13	-	-	-	-	-
Stage 1	130	-	-	-	-	-
Stage 2	259	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	$ 492.4	0	1.3
HCM LOS	F		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	WBLn2	SBL	SBT
Capacity (veh/h)	-	-	13	87	311	-
HCM Lane V/C Ratio	-	-	1.505	1.712	0.21	-
HCM Control Delay (s)	-	-	$ 843.3	$ 446.3	19.6	-
HCM Lane LOS	-	-	F	F	C	-
HCM 95th %tile Q(veh)	-	-	3.1	12.3	0.8	-

Notes			
~: Volume exceeds capacity	$: Delay exceeds 300s	+: Computation Not Defined	*: All major volume in platoon

Intersection	
Int Delay, s/veh	126.5

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	21	334	819	47	590	1416
Future Vol, veh/h	21	334	819	47	590	1416
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	300	0	-	100	150	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	91	91	92	92	94	94
Heavy Vehicles, %	0	2	1	3	2	1
Mvmt Flow	23	367	890	51	628	1506

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	3652	890	0	0	941	0
Stage 1	890	-	-	-	-	-
Stage 2	2762	-	-	-	-	-
Critical Hdwy	6.4	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	~ 6	~ 342	-	-	729	-
Stage 1	404	-	-	-	-	-
Stage 2	47	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	~ 1	~ 342	-	-	729	-
Mov Cap-2 Maneuver	~ 1	-	-	-	-	-
Stage 1	404	-	-	-	-	-
Stage 2	~ 7	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, $	1072.1	0	9.5
HCM LOS	F		

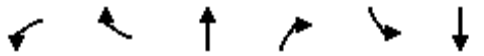
Minor Lane/Major Mvmt	NBT	NBR	WBLn1	WBLn2	SBL	SBT
Capacity (veh/h)	-	-	1	342	729	-
HCM Lane V/C Ratio	-	-	23.077	1.073	0.861	-
HCM Control Delay (s)	-	-	$ 16450	105.2	32.4	-
HCM Lane LOS	-	-	F	F	D	-
HCM 95th %tile Q(veh)	-	-	4.6	13.4	10.3	-

Notes			
~: Volume exceeds capacity	$: Delay exceeds 300s	+: Computation Not Defined	*: All major volume in platoon

Lane Group	WBL	WBR	NBT	SBL	SBT
Lane Group Flow (vph)	65	441	568	603	798
v/c Ratio	0.25	0.47	0.84	0.91	0.58
Control Delay	35.7	8.0	35.6	37.6	6.7
Queue Delay	0.0	0.0	0.0	0.0	0.0
Total Delay	35.7	8.0	35.6	37.6	6.7
Queue Length 50th (ft)	31	60	267	229	153
Queue Length 95th (ft)	58	90	362	#455	237
Internal Link Dist (ft)	3391		326		367
Turn Bay Length (ft)	200			180	
Base Capacity (vph)	332	1019	888	760	1599
Starvation Cap Reductn	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0
Reduced v/c Ratio	0.20	0.43	0.64	0.79	0.50

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (veh/h)	49	331	399	78	549	726
Future Volume (veh/h)	49	331	399	78	549	726
Number	3	18	2	12	1	6
Initial Q, veh	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00	1.00		1.00	1.00	
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No		No			No
Lanes Open During Work Zone						
Adj Sat Flow, veh/h/ln	1930	1884	1885	1811	1870	1885
Adj Flow Rate, veh/h	65	441	475	93	603	798
Peak Hour Factor	0.75	0.75	0.84	0.84	0.91	0.91
Percent Heavy Veh, %	3	6	1	6	2	1
Opposing Right Turn Influence	Yes				Yes	
Cap, veh/h	333	743	541	106	656	1316
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.18	0.18	0.35	0.35	0.28	0.70
Unsig. Movement Delay						
Ln Grp Delay, s/veh	26.2	16.0	0.0	30.5	30.6	6.3
Ln Grp LOS	C	B	A	C	C	A
Approach Vol, veh/h	506		568			1401
Approach Delay, s/veh	17.3		30.5			16.8
Approach LOS	B		C			B

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	1	2	8			6		
Case No	1.2	8.0	9.0			4.0		
Phs Duration (G+Y+Rc), s	25.7	30.8	18.0			56.5		
Change Period (Y+Rc), s	4.5	4.5	4.5			4.5		
Max Green (Gmax), s	27.5	35.5	13.5			67.5		
Max Allow Headway (MAH), s	3.7	5.0	4.1			4.9		
Max Q Clear (g_c+I1), s	19.8	23.7	15.5			18.5		
Green Ext Time (g_e), s	1.3	2.7	0.0			6.2		
Prob of Phs Call (p_c)	1.00	1.00	1.00			1.00		
Prob of Max Out (p_x)	0.22	0.20	1.00			0.00		

Left-Turn Movement Data								
Assigned Mvmt	1	5	3					
Mvmt Sat Flow, veh/h	1781	0	1838					

Through Movement Data								
Assigned Mvmt		2	8			6		
Mvmt Sat Flow, veh/h		1531	0			1885		

Right-Turn Movement Data								
Assigned Mvmt		12	18			16		
Mvmt Sat Flow, veh/h		300	1596			0		

Left Lane Group Data								
Assigned Mvmt	1	5	3	0	0	0	0	0
Lane Assignment	L (Pr/Pm)		L					

Lanes in Grp	1	0	1	0	0	0	0	0
Grp Vol (v), veh/h	603	0	65	0	0	0	0	0
Grp Sat Flow (s), veh/h/ln	1781	0	1838	0	0	0	0	0
Q Serve Time (g_s), s	17.8	0.0	2.2	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	17.8	0.0	2.2	0.0	0.0	0.0	0.0	0.0
Perm LT Sat Flow (s_l), veh/h/ln	843	0	1838	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	28.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	26.3	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
Lane Grp Cap (c), veh/h	656	0	333	0	0	0	0	0
V/C Ratio (X)	0.92	0.00	0.20	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	807	0	333	0	0	0	0	0
Upstream Filter (I)	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	16.9	0.0	25.9	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	13.8	0.0	0.3	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	30.6	0.0	26.2	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	5.6	0.0	1.0	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00
%ile Back of Q (50%), veh/ln	8.1	0.0	1.0	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	1.14	0.00	0.13	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Middle Lane Group Data								
Assigned Mvmt	0	2	8	0	0	6	0	0
Lane Assignment						T		
Lanes in Grp	0	0	0	0	0	1	0	0
Grp Vol (v), veh/h	0	0	0	0	0	798	0	0
Grp Sat Flow (s), veh/h/ln	0	0	0	0	0	1885	0	0
Q Serve Time (g_s), s	0.0	0.0	0.0	0.0	0.0	16.5	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	0.0	0.0	0.0	0.0	16.5	0.0	0.0
Lane Grp Cap (c), veh/h	0	0	0	0	0	1316	0	0
V/C Ratio (X)	0.00	0.00	0.00	0.00	0.00	0.61	0.00	0.00
Avail Cap (c_a), veh/h	0	0	0	0	0	1708	0	0
Upstream Filter (I)	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	0.0	0.0	0.0	0.0	5.9	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	6.3	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.0	0.0	0.0	0.0	3.7	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.0	0.0	0.0	0.0	3.9	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.00	0.00	0.00	0.00	0.26	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	18	0	0	16	0	0
Lane Assignment		T+R	R					
Lanes in Grp	0	1	1	0	0	0	0	0
Grp Vol (v), veh/h	0	568	441	0	0	0	0	0
Grp Sat Flow (s), veh/h/ln	0	1831	1596	0	0	0	0	0
Q Serve Time (g_s), s	0.0	21.7	13.5	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	21.7	13.5	0.0	0.0	0.0	0.0	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	1596.2	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	21.2	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	0.16	1.00	0.00	0.00	0.00	0.00	0.00
Lane Grp Cap (c), veh/h	0	647	743	0	0	0	0	0
V/C Ratio (X)	0.00	0.88	0.59	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	873	743	0	0	0	0	0
Upstream Filter (I)	0.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	22.6	14.7	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	7.9	1.3	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	30.5	16.0	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	8.1	5.1	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	1.4	0.3	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00
%ile Back of Q (50%), veh/ln	0.0	9.5	5.4	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.64	0.04	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 6th Ctrl Delay	20.0
HCM 6th LOS	C

Notes

User approved pedestrian interval to be less than phase max green.

Intersection	
Int Delay, s/veh	3.6

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Vol, veh/h	142	173	106	0	0	67
Future Vol, veh/h	142	173	106	0	0	67
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	81	81
Heavy Vehicles, %	3	0	2	2	0	1
Mvmt Flow	154	188	115	0	0	83

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	115	0	-	0	611	115
Stage 1	-	-	-	-	115	-
Stage 2	-	-	-	-	496	-
Critical Hdwy	4.13	-	-	-	6.4	6.21
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	2.227	-	-	-	3.5	3.309
Pot Cap-1 Maneuver	1468	-	-	-	460	940
Stage 1	-	-	-	-	915	-
Stage 2	-	-	-	-	616	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1468	-	-	-	406	940
Mov Cap-2 Maneuver	-	-	-	-	406	-
Stage 1	-	-	-	-	808	-
Stage 2	-	-	-	-	616	-

Approach	EB	WB	SB
HCM Control Delay, s	3.5	0	9.2
HCM LOS			A

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	1468	-	-	-	940
HCM Lane V/C Ratio	0.105	-	-	-	0.088
HCM Control Delay (s)	7.7	0	-	-	9.2
HCM Lane LOS	A	A	-	-	A
HCM 95th %tile Q(veh)	0.4	-	-	-	0.3

Intersection	
Int Delay, s/veh	382.9

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	97	35	30	1123	1971	100
Future Vol, veh/h	97	35	30	1123	1971	100
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	50	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	105	38	33	1221	2142	109

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	3484	2197	2251	0	-	0
Stage 1	2197	-	-	-	-	-
Stage 2	1287	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-	-
Pot Cap-1 Maneuver	~ 7	57	228	-	-	-
Stage 1	~ 91	-	-	-	-	-
Stage 2	259	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	~ 4	57	228	-	-	-
Mov Cap-2 Maneuver	~ 4	-	-	-	-	-
Stage 1	~ 50	-	-	-	-	-
Stage 2	259	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, $	9729.3	0.6	0
HCM LOS	F		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	EBLn2	SBT	SBR
Capacity (veh/h)	228	-	4	57	-	-
HCM Lane V/C Ratio	0.143	-	26.359	0.667	-	-
HCM Control Delay (s)	23.4	$ 0	3185.7	150.1	-	-
HCM Lane LOS	C	A	F	F	-	-
HCM 95th %tile Q(veh)	0.5	-	15.3	2.8	-	-

Notes			
~: Volume exceeds capacity	$: Delay exceeds 300s	+: Computation Not Defined	*: All major volume in platoon

Intersection	
Int Delay, s/veh	10.5

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	9	122	1208	12	137	2062
Future Vol, veh/h	9	122	1208	12	137	2062
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	55	0	-	-	100	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	10	133	1313	13	149	2241

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	3859	1320	0	0	1326	0
Stage 1	1320	-	-	-	-	-
Stage 2	2539	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	~ 4	192	-	-	521	-
Stage 1	250	-	-	-	-	-
Stage 2	61	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	~ 3	192	-	-	521	-
Mov Cap-2 Maneuver	~ 3	-	-	-	-	-
Stage 1	250	-	-	-	-	-
Stage 2	44	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	268.9	0	0.9
HCM LOS	F		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	WBLn2	SBL	SBT
Capacity (veh/h)	-	-	3	192	521	-
HCM Lane V/C Ratio	-	-	3.261	0.691	0.286	-
HCM Control Delay (s)	-	-	$ 3134.8	57.5	14.7	-
HCM Lane LOS	-	-	F	F	B	-
HCM 95th %tile Q(veh)	-	-	2.4	4.3	1.2	-

Notes			
~: Volume exceeds capacity	$: Delay exceeds 300s	+: Computation Not Defined	*: All major volume in platoon

Intersection	
Intersection Delay, s/veh	8.2
Intersection LOS	A

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	116	96	59	0	0	71
Future Vol, veh/h	116	96	59	0	0	71
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	126	104	64	0	0	77
Number of Lanes	1	0	0	1	1	0

Approach	EB	NB	SB
Opposing Approach		SB	NB
Opposing Lanes	0	1	1
Conflicting Approach Left	SB	EB	
Conflicting Lanes Left	1	1	0
Conflicting Approach Right	NB		EB
Conflicting Lanes Right	1	0	1
HCM Control Delay	8.5	8.2	7.3
HCM LOS	A	A	A

Lane	NBLn1	EBLn1	SBLn1
Vol Left, %	100%	55%	0%
Vol Thru, %	0%	0%	0%
Vol Right, %	0%	45%	100%
Sign Control	Stop	Stop	Stop
Traffic Vol by Lane	59	212	71
LT Vol	59	116	0
Through Vol	0	0	0
RT Vol	0	96	71
Lane Flow Rate	64	230	77
Geometry Grp	1	1	1
Degree of Util (X)	0.084	0.257	0.084
Departure Headway (Hd)	4.719	4.015	3.915
Convergence, Y/N	Yes	Yes	Yes
Cap	764	883	920
Service Time	2.721	2.095	1.917
HCM Lane V/C Ratio	0.084	0.26	0.084
HCM Control Delay	8.2	8.5	7.3
HCM Lane LOS	A	A	A
HCM 95th-tile Q	0.3	1	0.3

Intersection	
Intersection Delay, s/veh	7.3
Intersection LOS	A

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	71	0	0	116	0	0
Future Vol, veh/h	71	0	0	116	0	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	77	0	0	126	0	0
Number of Lanes	1	0	1	0	0	1

Approach	WB	NB	SB
Opposing Approach		SB	NB
Opposing Lanes	0	1	1
Conflicting Approach Left	NB		WB
Conflicting Lanes Left	1	0	1
Conflicting Approach Right	SB	WB	
Conflicting Lanes Right	1	1	0
HCM Control Delay	7.8	7	0
HCM LOS	A	A	-

Lane	NBLn1	WBLn1	SBLn1
Vol Left, %	0%	100%	0%
Vol Thru, %	0%	0%	100%
Vol Right, %	100%	0%	0%
Sign Control	Stop	Stop	Stop
Traffic Vol by Lane	116	71	0
LT Vol	0	71	0
Through Vol	0	0	0
RT Vol	116	0	0
Lane Flow Rate	126	77	0
Geometry Grp	1	1	1
Degree of Util (X)	0.121	0.093	0
Departure Headway (Hd)	3.469	4.355	4.167
Convergence, Y/N	Yes	Yes	Yes
Cap	1026	824	0
Service Time	1.516	2.372	2.223
HCM Lane V/C Ratio	0.123	0.093	0
HCM Control Delay	7	7.8	7.2
HCM Lane LOS	A	A	N
HCM 95th-tile Q	0.4	0.3	0

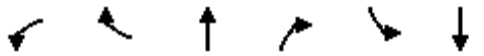
Intersection	
Intersection Delay, s/veh	7.5
Intersection LOS	A

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	0	59	0	0	96	0
Future Vol, veh/h	0	59	0	0	96	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	64	0	0	104	0
Number of Lanes	1	0	1	0	0	1

Approach	WB	NB	SB
Opposing Approach		SB	NB
Opposing Lanes	0	1	1
Conflicting Approach Left	NB		WB
Conflicting Lanes Left	1	0	1
Conflicting Approach Right	SB	WB	
Conflicting Lanes Right	1	1	0
HCM Control Delay	6.8	0	7.9
HCM LOS	A	-	A

Lane	NBLn1	WBLn1	SBLn1
Vol Left, %	0%	0%	100%
Vol Thru, %	100%	0%	0%
Vol Right, %	0%	100%	0%
Sign Control	Stop	Stop	Stop
Traffic Vol by Lane	0	59	96
LT Vol	0	0	96
Through Vol	0	0	0
RT Vol	0	59	0
Lane Flow Rate	0	64	104
Geometry Grp	1	1	1
Degree of Util (X)	0	0.063	0.123
Departure Headway (Hd)	4.126	3.516	4.246
Convergence, Y/N	Yes	Yes	Yes
Cap	0	1008	847
Service Time	2.164	1.575	2.258
HCM Lane V/C Ratio	0	0.063	0.123
HCM Control Delay	7.2	6.8	7.9
HCM Lane LOS	N	A	A
HCM 95th-tile Q	0	0.2	0.4

Total Projected (2032) with Recommendations



Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Group Flow (vph)	63	880	1102	141	460	559
v/c Ratio	0.17	1.19	1.37	0.13	1.10	0.46
Control Delay	30.4	123.3	197.9	2.5	99.5	8.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	30.4	123.3	197.9	2.5	99.5	8.4
Queue Length 50th (ft)	30	~601	~835	9	~247	131
Queue Length 95th (ft)	57	#703	#1074	27	#395	178
Internal Link Dist (ft)	1302		3247			537
Turn Bay Length (ft)	300			100	150	
Base Capacity (vph)	381	740	807	1116	419	1203
Starvation Cap Reductn	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0
Reduced v/c Ratio	0.17	1.19	1.37	0.13	1.10	0.46

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (veh/h)	51	713	1025	131	391	475
Future Volume (veh/h)	51	713	1025	131	391	475
Number	3	18	2	12	1	6
Initial Q, veh	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00	1.00		1.00	1.00	
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No		No			No
Lanes Open During Work Zone						
Adj Sat Flow, veh/h/ln	1900	1870	1870	1870	1870	1796
Adj Flow Rate, veh/h	63	880	1102	141	460	559
Peak Hour Factor	0.81	0.81	0.93	0.93	0.85	0.85
Percent Heavy Veh, %	0	2	2	2	2	7
Opposing Right Turn Influence	Yes				Yes	
Cap, veh/h	382	634	810	1021	416	1217
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.21	0.21	0.43	0.43	0.19	0.68
Unsig. Movement Delay						
Ln Grp Delay, s/veh	29.2	211.2	195.4	6.3	104.2	7.1
Ln Grp LOS	C	F	F	A	F	A
Approach Vol, veh/h	943		1243			1019
Approach Delay, s/veh	199.1		173.9			50.9
Approach LOS	F		F			D

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	1	2	8			6		
Case No	1.2	7.0	9.0			4.0		
Phs Duration (G+Y+Rc), s	22.0	45.0	23.0			67.0		
Change Period (Y+Rc), s	5.0	6.0	4.0			6.0		
Max Green (Gmax), s	17.0	39.0	19.0			61.0		
Max Allow Headway (MAH), s	3.7	4.8	4.0			4.9		
Max Q Clear (g_c+I1), s	19.0	41.0	21.0			15.1		
Green Ext Time (g_e), s	0.0	0.0	0.0			3.7		
Prob of Phs Call (p_c)	1.00	1.00	1.00			1.00		
Prob of Max Out (p_x)	1.00	1.00	1.00			0.00		
Left-Turn Movement Data								
Assigned Mvmt	1	5	3					
Mvmt Sat Flow, veh/h	1781	0	1810					
Through Movement Data								
Assigned Mvmt		2	8			6		
Mvmt Sat Flow, veh/h		1870	0			1796		
Right-Turn Movement Data								
Assigned Mvmt		12	18			16		
Mvmt Sat Flow, veh/h		1585	1585			0		
Left Lane Group Data								
Assigned Mvmt	1	5	3	0	0	0	0	0
Lane Assignment	L (Pr/Pm)		L					

Lanes in Grp	1	0	1	0	0	0	0	0
Grp Vol (v), veh/h	460	0	63	0	0	0	0	0
Grp Sat Flow (s), veh/h/ln	1781	0	1810	0	0	0	0	0
Q Serve Time (g_s), s	17.0	0.0	2.6	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	17.0	0.0	2.6	0.0	0.0	0.0	0.0	0.0
Perm LT Sat Flow (s_l), veh/h/ln	447	0	1810	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	41.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	39.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
Lane Grp Cap (c), veh/h	416	0	382	0	0	0	0	0
V/C Ratio (X)	1.10	0.00	0.16	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	416	0	382	0	0	0	0	0
Upstream Filter (I)	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	28.7	0.0	29.0	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	75.5	0.0	0.2	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	104.2	0.0	29.2	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	3.9	0.0	1.1	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	8.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00
%ile Back of Q (50%), veh/ln	12.6	0.0	1.1	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	2.13	0.00	0.09	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	10.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	0	2	8	0	0	6	0	0
Lane Assignment		T				T		
Lanes in Grp	0	1	0	0	0	1	0	0
Grp Vol (v), veh/h	0	1102	0	0	0	559	0	0
Grp Sat Flow (s), veh/h/ln	0	1870	0	0	0	1796	0	0
Q Serve Time (g_s), s	0.0	39.0	0.0	0.0	0.0	13.1	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	39.0	0.0	0.0	0.0	13.1	0.0	0.0
Lane Grp Cap (c), veh/h	0	810	0	0	0	1217	0	0
V/C Ratio (X)	0.00	1.36	0.00	0.00	0.00	0.46	0.00	0.00
Avail Cap (c_a), veh/h	0	810	0	0	0	1217	0	0
Upstream Filter (I)	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	25.5	0.0	0.0	0.0	6.8	0.0	0.0
Incr Delay (d2), s/veh	0.0	169.9	0.0	0.0	0.0	0.3	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	195.4	0.0	0.0	0.0	7.1	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	15.2	0.0	0.0	0.0	3.6	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	38.2	0.0	0.0	0.0	0.1	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00
%ile Back of Q (50%), veh/ln	0.0	53.4	0.0	0.0	0.0	3.7	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.42	0.00	0.00	0.00	0.17	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	72.9	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0

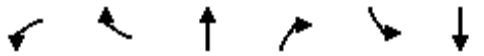
Right Lane Group Data								
Assigned Mvmt	0	12	18	0	0	16	0	0
Lane Assignment		R	R					
Lanes in Grp	0	1	1	0	0	0	0	0
Grp Vol (v), veh/h	0	141	880	0	0	0	0	0
Grp Sat Flow (s), veh/h/ln	0	1585	1585	0	0	0	0	0
Q Serve Time (g_s), s	0.0	3.1	19.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	3.1	19.0	0.0	0.0	0.0	0.0	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	1585.1	1585.1	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	19.0	17.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00
Lane Grp Cap (c), veh/h	0	1021	634	0	0	0	0	0
V/C Ratio (X)	0.00	0.14	1.39	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	1021	634	0	0	0	0	0
Upstream Filter (I)	0.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	6.2	27.0	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.1	184.2	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	6.3	211.2	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	1.6	12.3	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	32.4	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00
%ile Back of Q (50%), veh/ln	0.0	1.7	44.8	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.42	0.87	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	61.5	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 6th Ctrl Delay	142.2
HCM 6th LOS	F

Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Group Flow (vph)	102	706	600	32	190	287
v/c Ratio	0.31	0.78	0.82	0.07	0.49	0.26
Control Delay	27.5	19.4	28.4	6.7	10.1	6.7
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	27.5	19.4	28.4	6.7	10.1	6.7
Queue Length 50th (ft)	36	154	220	2	29	50
Queue Length 95th (ft)	87	#411	332	16	57	81
Internal Link Dist (ft)	3394		326			367
Turn Bay Length (ft)	200			100	200	
Base Capacity (vph)	333	903	1308	787	388	1631
Starvation Cap Reductn	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0
Reduced v/c Ratio	0.31	0.78	0.46	0.04	0.49	0.18

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (veh/h)	88	607	558	30	171	258
Future Volume (veh/h)	88	607	558	30	171	258
Number	3	18	2	12	1	6
Initial Q, veh	0	0	0	0	0	0
Ped-Bike Adj (A_pbT)	1.00	1.00		1.00	1.00	
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No		No			No
Lanes Open During Work Zone						
Adj Sat Flow, veh/h/ln	1390	1914	1885	1248	1752	1826
Adj Flow Rate, veh/h	102	706	600	32	190	287
Peak Hour Factor	0.86	0.86	0.93	0.93	0.90	0.90
Percent Heavy Veh, %	38	4	1	44	10	5
Opposing Right Turn Influence	Yes				Yes	
Cap, veh/h	372	609	726	407	350	1012
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.28	0.28	0.39	0.39	0.09	0.55
Unsig. Movement Delay						
Ln Grp Delay, s/veh	17.4	107.7	19.3	11.9	13.6	7.3
Ln Grp LOS	B	F	B	B	B	A
Approach Vol, veh/h	808		632			477
Approach Delay, s/veh	96.3		18.9			9.8
Approach LOS	F		B			A

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	1	2	8			6		
Case No	1.2	7.0	9.0			4.0		
Phs Duration (G+Y+Rc), s	10.2	29.3	21.0			39.6		
Change Period (Y+Rc), s	4.5	6.0	4.0			6.0		
Max Green (Gmax), s	10.5	48.0	17.0			63.0		
Max Allow Headway (MAH), s	3.7	4.9	4.1			4.9		
Max Q Clear (g_c+I1), s	5.8	19.4	19.0			7.0		
Green Ext Time (g_e), s	0.2	3.9	0.0			1.6		
Prob of Phs Call (p_c)	0.96	1.00	1.00			1.00		
Prob of Max Out (p_x)	0.45	0.01	1.00			0.00		

Left-Turn Movement Data								
Assigned Mvmt	1	5	3					
Mvmt Sat Flow, veh/h	1668	0	1324					

Through Movement Data								
Assigned Mvmt		2	8			6		
Mvmt Sat Flow, veh/h		1885	0			1826		

Right-Turn Movement Data								
Assigned Mvmt		12	18			16		
Mvmt Sat Flow, veh/h		1058	1622			0		

Left Lane Group Data								
Assigned Mvmt	1	5	3	0	0	0	0	0
Lane Assignment	L (Pr/Pm)		L					

Lanes in Grp	1	0	1	0	0	0	0	0
Grp Vol (v), veh/h	190	0	102	0	0	0	0	0
Grp Sat Flow (s), veh/h/ln	1668	0	1324	0	0	0	0	0
Q Serve Time (g_s), s	3.8	0.0	3.6	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	3.8	0.0	3.6	0.0	0.0	0.0	0.0	0.0
Perm LT Sat Flow (s_l), veh/h/ln	744	0	1324	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	25.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	23.3	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
Lane Grp Cap (c), veh/h	350	0	372	0	0	0	0	0
V/C Ratio (X)	0.54	0.00	0.27	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	481	0	372	0	0	0	0	0
Upstream Filter (I)	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	12.3	0.0	17.0	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	1.3	0.0	0.4	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	13.6	0.0	17.4	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	1.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00
%ile Back of Q (50%), veh/ln	1.1	0.0	1.1	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.15	0.00	0.18	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	0	2	8	0	0	6	0	0
Lane Assignment		T				T		
Lanes in Grp	0	1	0	0	0	1	0	0
Grp Vol (v), veh/h	0	600	0	0	0	287	0	0
Grp Sat Flow (s), veh/h/ln	0	1885	0	0	0	1826	0	0
Q Serve Time (g_s), s	0.0	17.4	0.0	0.0	0.0	5.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	17.4	0.0	0.0	0.0	5.0	0.0	0.0
Lane Grp Cap (c), veh/h	0	726	0	0	0	1012	0	0
V/C Ratio (X)	0.00	0.83	0.00	0.00	0.00	0.28	0.00	0.00
Avail Cap (c_a), veh/h	0	1494	0	0	0	1899	0	0
Upstream Filter (I)	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	16.8	0.0	0.0	0.0	7.1	0.0	0.0
Incr Delay (d2), s/veh	0.0	2.5	0.0	0.0	0.0	0.2	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	19.3	0.0	0.0	0.0	7.3	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	6.0	0.0	0.0	0.0	1.3	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0

3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00
%ile Back of Q (50%), veh/ln	0.0	6.5	0.0	0.0	0.0	1.4	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.43	0.00	0.00	0.00	0.10	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data								
Assigned Mvmt	0	12	18	0	0	16	0	0
Lane Assignment		R	R					
Lanes in Grp	0	1	1	0	0	0	0	0
Grp Vol (v), veh/h	0	32	706	0	0	0	0	0
Grp Sat Flow (s), veh/h/ln	0	1058	1622	0	0	0	0	0
Q Serve Time (g_s), s	0.0	1.2	17.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	1.2	17.0	0.0	0.0	0.0	0.0	0.0
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	1622.3	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	5.7	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00
Lane Grp Cap (c), veh/h	0	407	609	0	0	0	0	0
V/C Ratio (X)	0.00	0.08	1.16	0.00	0.00	0.00	0.00	0.00
Avail Cap (c_a), veh/h	0	838	609	0	0	0	0	0
Upstream Filter (I)	0.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	11.8	18.9	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.1	88.8	0.0	0.0	0.0	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	11.9	107.7	0.0	0.0	0.0	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	0.2	7.6	0.0	0.0	0.0	0.0	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	15.0	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00
%ile Back of Q (50%), veh/ln	0.0	0.2	22.7	0.0	0.0	0.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.08	0.17	0.00	0.00	0.00	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	24.2	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 6th Ctrl Delay	49.3
HCM 6th LOS	D

Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Group Flow (vph)	26	412	881	51	694	1666
v/c Ratio	0.07	0.52	1.16	0.05	1.42	1.35
Control Delay	29.2	16.4	111.7	2.9	225.6	183.2
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	29.2	16.4	111.7	2.9	225.6	183.2
Queue Length 50th (ft)	12	130	~608	3	~497	~1272
Queue Length 95th (ft)	30	179	#835	15	#655	#1404
Internal Link Dist (ft)	1302		3247			537
Turn Bay Length (ft)	300			100	150	
Base Capacity (vph)	390	781	762	1073	488	1231
Starvation Cap Reductn	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0
Reduced v/c Ratio	0.07	0.53	1.16	0.05	1.42	1.35

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (veh/h)	21	334	819	47	590	1416
Future Volume (veh/h)	21	334	819	47	590	1416
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00		1.00	1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No		No			No
Adj Sat Flow, veh/h/ln	1900	1870	1870	1870	1870	1796
Adj Flow Rate, veh/h	26	412	881	51	694	1666
Peak Hour Factor	0.81	0.81	0.93	0.93	0.85	0.85
Percent Heavy Veh, %	0	2	2	2	2	7
Cap, veh/h	382	687	748	969	476	1217
Arrive On Green	0.21	0.21	0.40	0.40	0.22	0.68
Sat Flow, veh/h	1810	1585	1870	1585	1781	1796
Grp Volume(v), veh/h	26	412	881	51	694	1666
Grp Sat Flow(s),veh/h/ln	1810	1585	1870	1585	1781	1796
Q Serve(g_s), s	1.0	17.9	36.0	1.2	20.0	61.0
Cycle Q Clear(g_c), s	1.0	17.9	36.0	1.2	20.0	61.0
Prop In Lane	1.00	1.00		1.00	1.00	
Lane Grp Cap(c), veh/h	382	687	748	969	476	1217
V/C Ratio(X)	0.07	0.60	1.18	0.05	1.46	1.37
Avail Cap(c_a), veh/h	382	687	748	969	476	1217
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	28.4	19.5	27.0	7.0	27.9	14.5
Incr Delay (d2), s/veh	0.1	1.5	93.5	0.0	217.7	171.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.4	6.3	33.7	0.6	33.6	74.8
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	28.5	21.0	120.5	7.1	245.7	185.6
LnGrp LOS	C	C	F	A	F	F
Approach Vol, veh/h	438		932			2360
Approach Delay, s/veh	21.4		114.3			203.3
Approach LOS	C		F			F

Timer - Assigned Phs	1	2				6	8
Phs Duration (G+Y+Rc), s	25.0	42.0				67.0	23.0
Change Period (Y+Rc), s	5.0	6.0				6.0	4.0
Max Green Setting (Gmax), s	20.0	36.0				61.0	19.0
Max Q Clear Time (g_c+I1), s	22.0	38.0				63.0	19.9
Green Ext Time (p_c), s	0.0	0.0				0.0	0.0

Intersection Summary			
HCM 6th Ctrl Delay		159.7	
HCM 6th LOS		F	

Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Group Flow (vph)	57	385	429	84	610	807
v/c Ratio	0.30	0.38	0.72	0.21	0.90	0.65
Control Delay	29.5	3.7	25.6	6.6	29.3	8.5
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	29.5	3.7	25.6	6.6	29.3	8.5
Queue Length 50th (ft)	18	10	131	3	109	121
Queue Length 95th (ft)	53	54	241	29	#386	283
Internal Link Dist (ft)	3394		326			367
Turn Bay Length (ft)	200			100	200	
Base Capacity (vph)	391	1005	1312	804	683	1745
Starvation Cap Reductn	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0
Reduced v/c Ratio	0.15	0.38	0.33	0.10	0.89	0.46

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (veh/h)	49	331	399	78	549	726
Future Volume (veh/h)	49	331	399	78	549	726
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00		1.00	1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No		No			No
Adj Sat Flow, veh/h/ln	1390	1914	1885	1248	1752	1826
Adj Flow Rate, veh/h	57	385	429	84	610	807
Peak Hour Factor	0.86	0.86	0.93	0.93	0.90	0.90
Percent Heavy Veh, %	38	4	1	44	10	5
Cap, veh/h	271	784	539	302	642	1161
Arrive On Green	0.20	0.20	0.29	0.29	0.28	0.64
Sat Flow, veh/h	1324	1622	1885	1058	1668	1826
Grp Volume(v), veh/h	57	385	429	84	610	807
Grp Sat Flow(s),veh/h/ln	1324	1622	1885	1058	1668	1826
Q Serve(g_s), s	2.2	10.1	13.2	3.9	15.6	18.1
Cycle Q Clear(g_c), s	2.2	10.1	13.2	3.9	15.6	18.1
Prop In Lane	1.00	1.00		1.00	1.00	
Lane Grp Cap(c), veh/h	271	784	539	302	642	1161
V/C Ratio(X)	0.21	0.49	0.80	0.28	0.95	0.69
Avail Cap(c_a), veh/h	358	891	1231	690	642	1832
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	20.7	11.0	20.7	17.4	12.1	7.5
Incr Delay (d2), s/veh	0.4	0.5	2.7	0.5	23.8	0.8
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.7	3.3	5.4	0.9	8.0	4.3
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	21.1	11.5	23.5	17.9	35.9	8.2
LnGrp LOS	C	B	C	B	D	A
Approach Vol, veh/h	442		513			1417
Approach Delay, s/veh	12.7		22.6			20.1
Approach LOS	B		C			C

Timer - Assigned Phs	1	2			6	8
Phs Duration (G+Y+Rc), s	22.0	23.9			45.9	16.9
Change Period (Y+Rc), s	4.5	6.0			6.0	4.0
Max Green Setting (Gmax), s	17.5	41.0			63.0	17.0
Max Q Clear Time (g_c+I1), s	17.6	15.2			20.1	12.1
Green Ext Time (p_c), s	0.0	2.7			6.3	0.8

Intersection Summary	
HCM 6th Ctrl Delay	19.3
HCM 6th LOS	B

D. Trip Generation

Multifamily Housing (Low-Rise)
Not Close to Rail Transit (220)

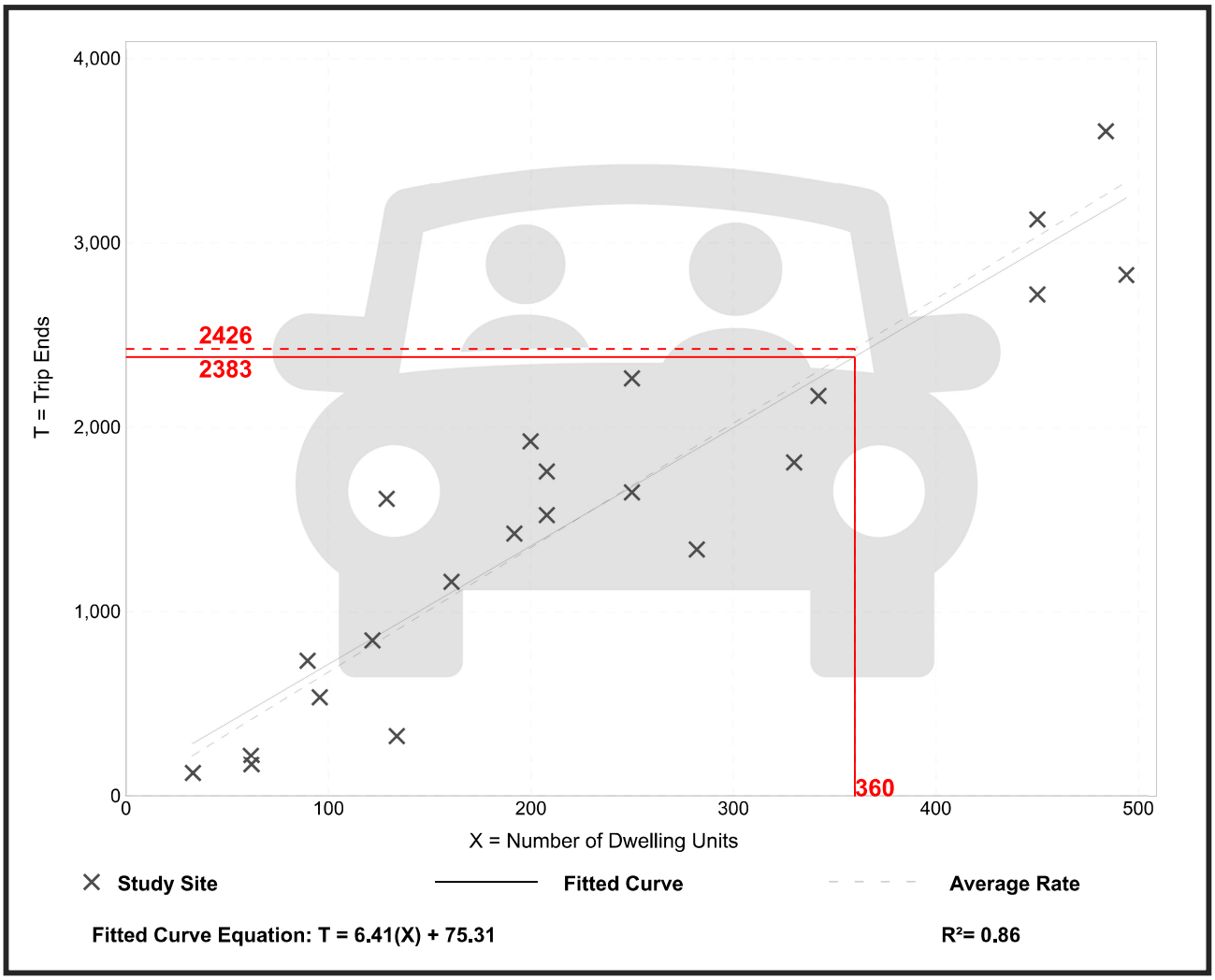
Vehicle Trip Ends vs: **Dwelling Units**
On a: **Weekday**

Setting/Location: **General Urban/Suburban**
Number of Studies: 22
Avg. Num. of Dwelling Units: 229
Directional Distribution: 50% entering, 50% exiting

Vehicle Trip Generation per Dwelling Unit

Average Rate	Range of Rates	Standard Deviation
6.74	2.46 - 12.50	1.79

Data Plot and Equation



Multifamily Housing (Low-Rise)
Not Close to Rail Transit (220)

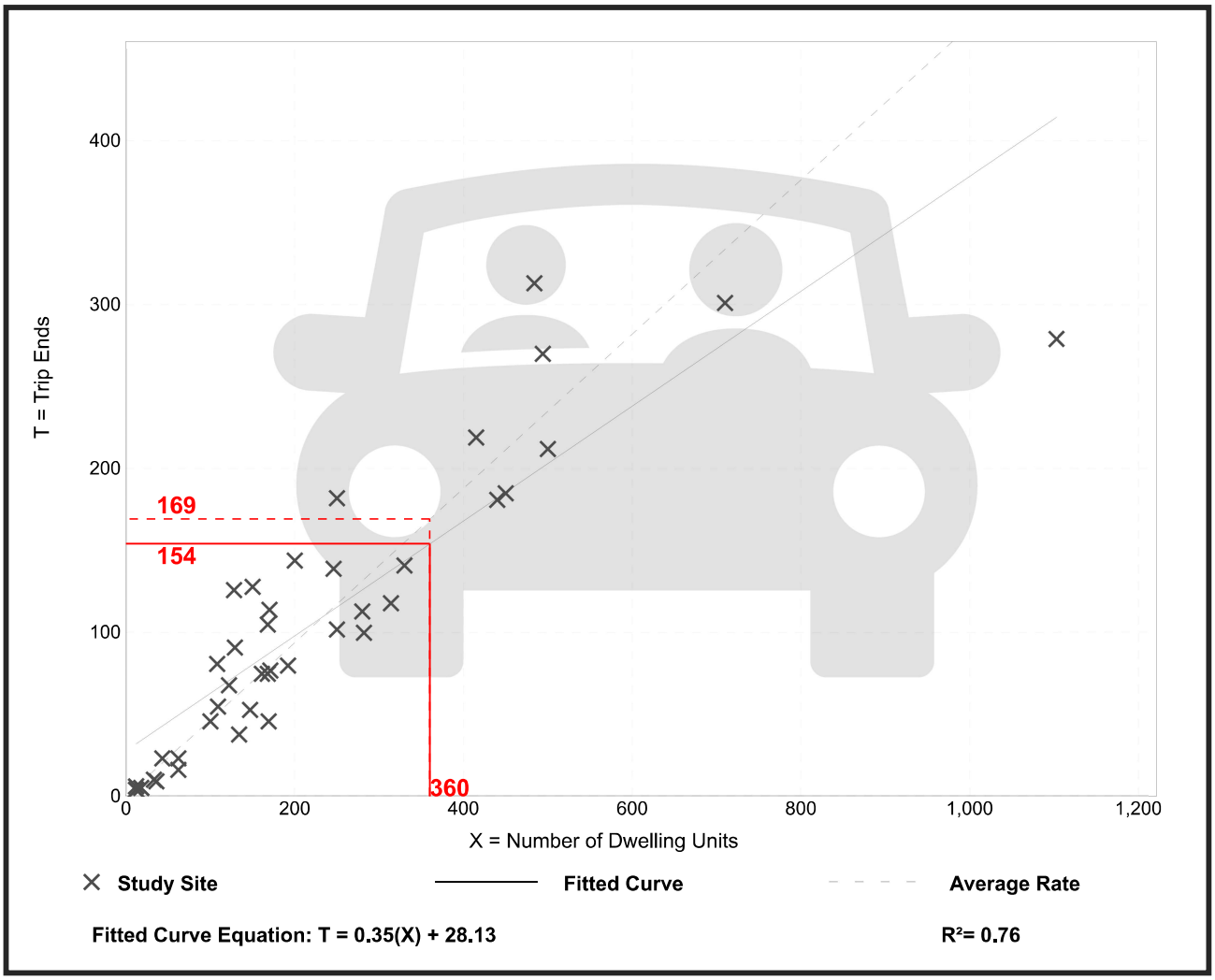
Vehicle Trip Ends vs: **Dwelling Units**
On a: **Weekday,**
AM Peak Hour of Generator

Setting/Location: **General Urban/Suburban**
Number of Studies: 40
Avg. Num. of Dwelling Units: 234
Directional Distribution: 24% entering, 76% exiting

Vehicle Trip Generation per Dwelling Unit

Average Rate	Range of Rates	Standard Deviation
0.47	0.25 - 0.98	0.16

Data Plot and Equation



Multifamily Housing (Low-Rise)
Not Close to Rail Transit (220)

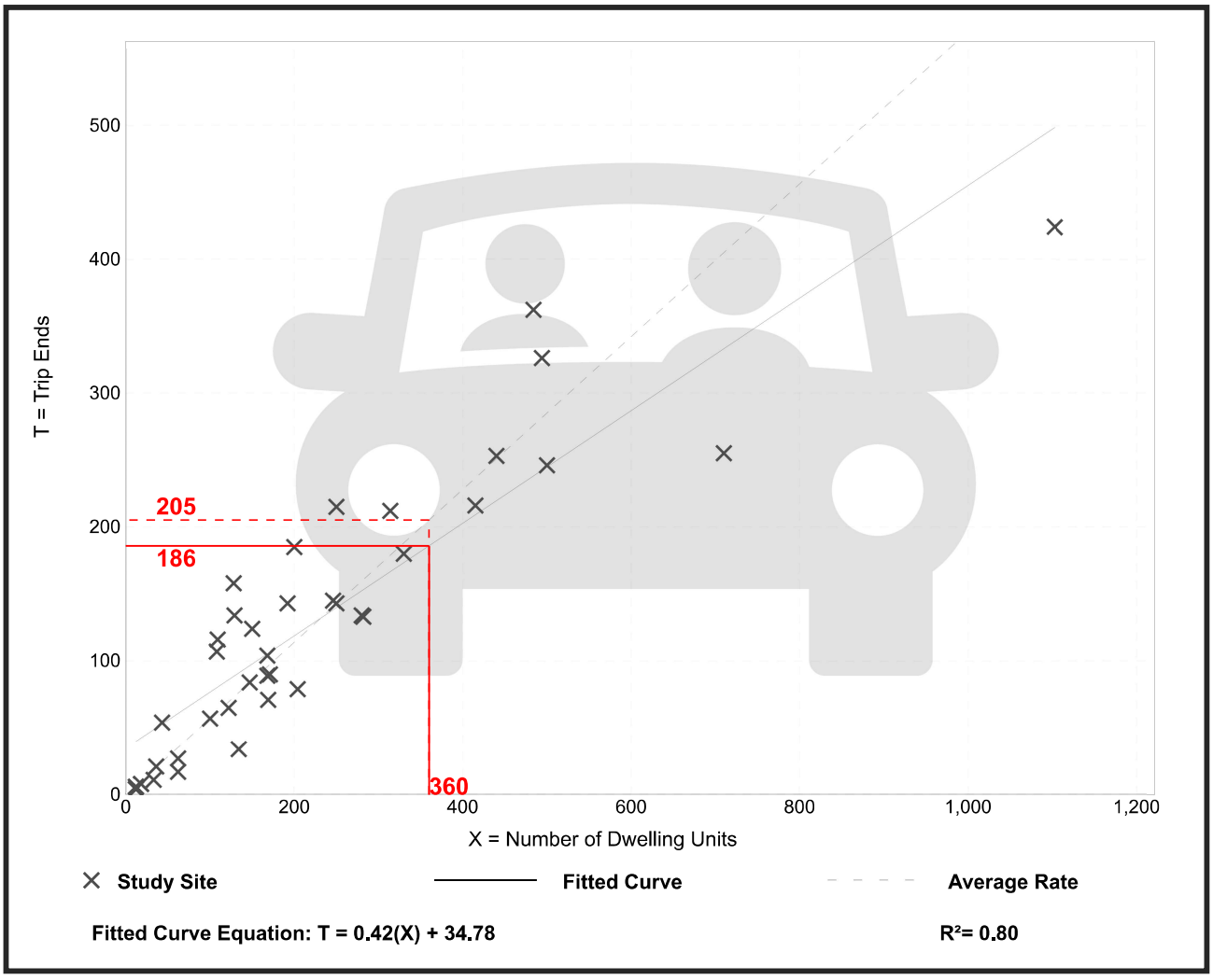
Vehicle Trip Ends vs: **Dwelling Units**
On a: **Weekday,**
PM Peak Hour of Generator

Setting/Location: **General Urban/Suburban**
Number of Studies: 38
Avg. Num. of Dwelling Units: 231
Directional Distribution: 62% entering, 38% exiting

Vehicle Trip Generation per Dwelling Unit

Average Rate	Range of Rates	Standard Deviation
0.57	0.25 - 1.26	0.20

Data Plot and Equation



Single-Family Attached Housing
(215)

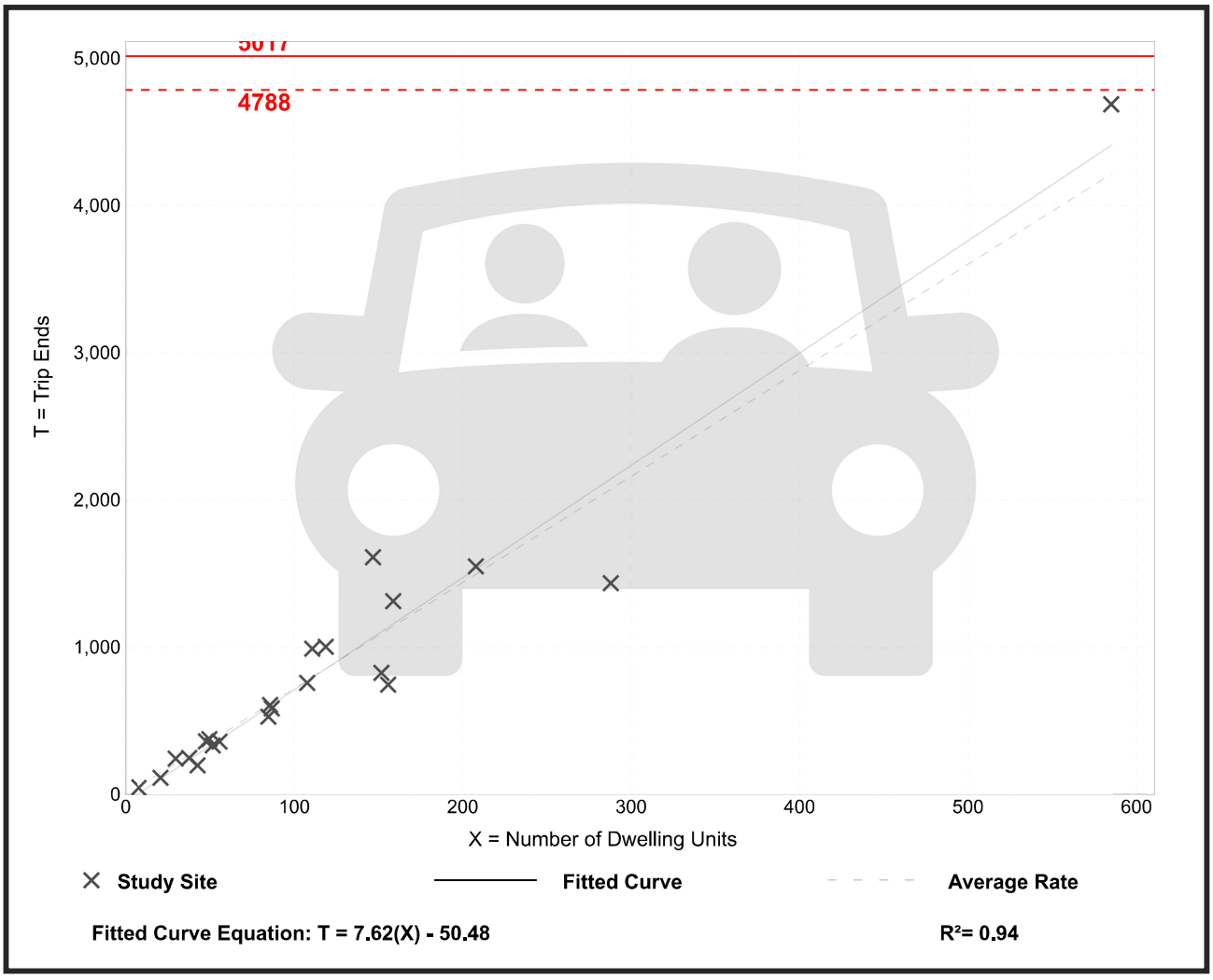
Vehicle Trip Ends vs: **Dwelling Units**
On a: **Weekday**

Setting/Location: **General Urban/Suburban**
Number of Studies: 22
Avg. Num. of Dwelling Units: 120
Directional Distribution: 50% entering, 50% exiting

Vehicle Trip Generation per Dwelling Unit

Average Rate	Range of Rates	Standard Deviation
7.20	4.70 - 10.97	1.61

Data Plot and Equation



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Single-Family Attached Housing
(215)

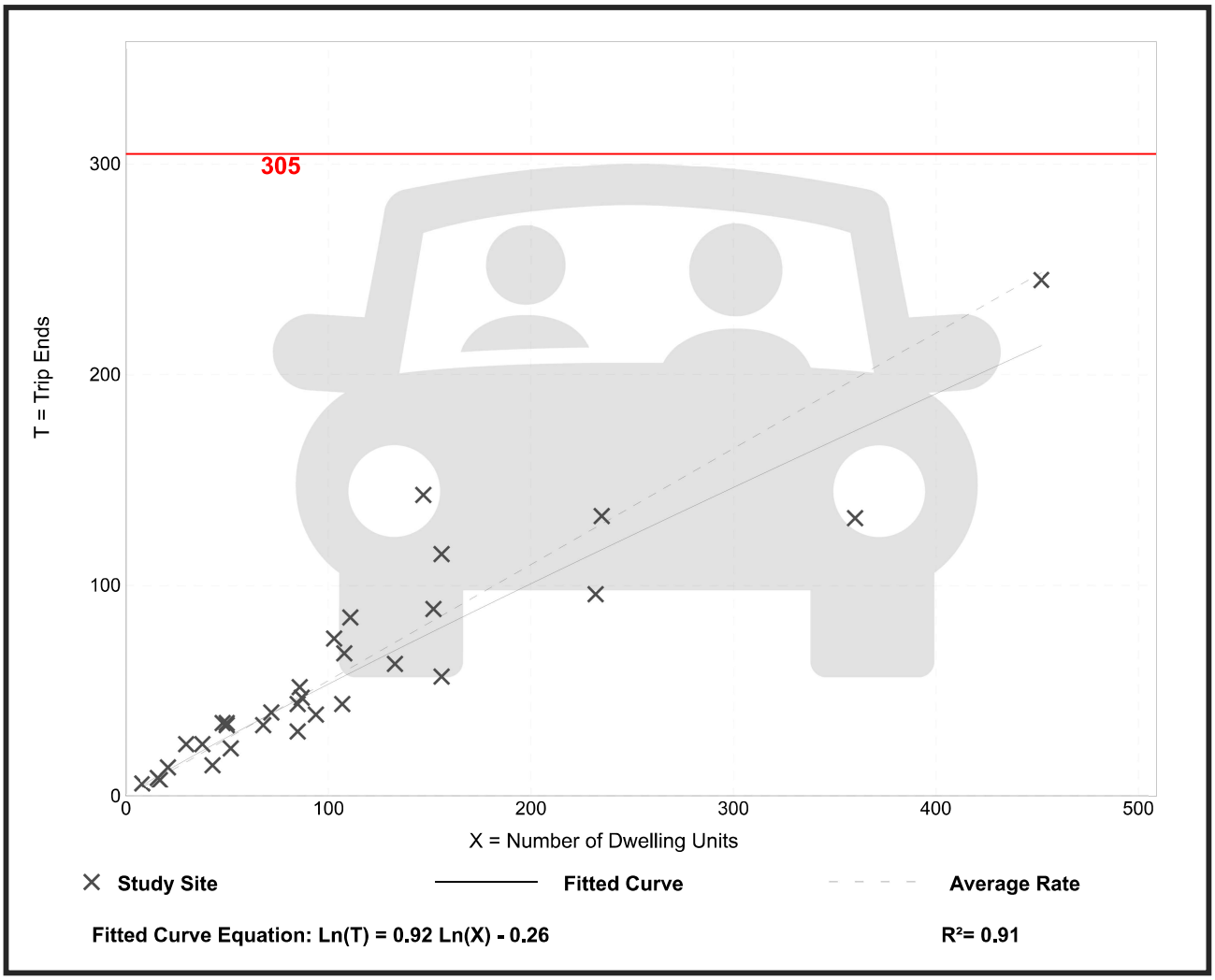
Vehicle Trip Ends vs: **Dwelling Units**
On a: **Weekday,**
AM Peak Hour of Generator

Setting/Location: **General Urban/Suburban**
Number of Studies: 31
Avg. Num. of Dwelling Units: 110
Directional Distribution: 25% entering, 75% exiting

Vehicle Trip Generation per Dwelling Unit

Average Rate	Range of Rates	Standard Deviation
0.55	0.35 - 0.97	0.16

Data Plot and Equation



Single-Family Attached Housing
(215)

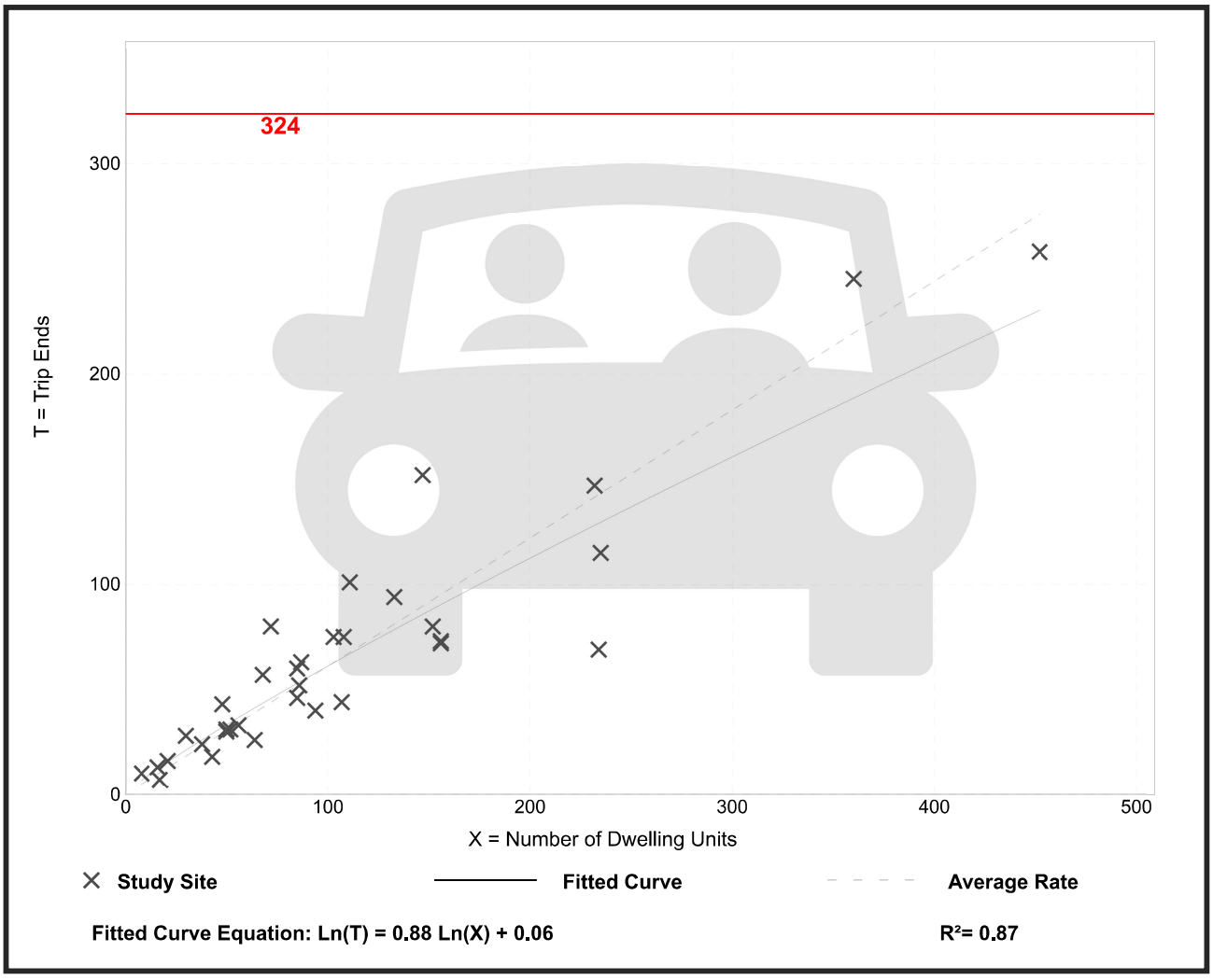
Vehicle Trip Ends vs: **Dwelling Units**
On a: **Weekday,**
PM Peak Hour of Generator

Setting/Location: **General Urban/Suburban**
Number of Studies: 34
Avg. Num. of Dwelling Units: 110
Directional Distribution: 62% entering, 38% exiting

Vehicle Trip Generation per Dwelling Unit

Average Rate	Range of Rates	Standard Deviation
0.61	0.29 - 1.25	0.18

Data Plot and Equation



Single-Family Detached Housing
(210)

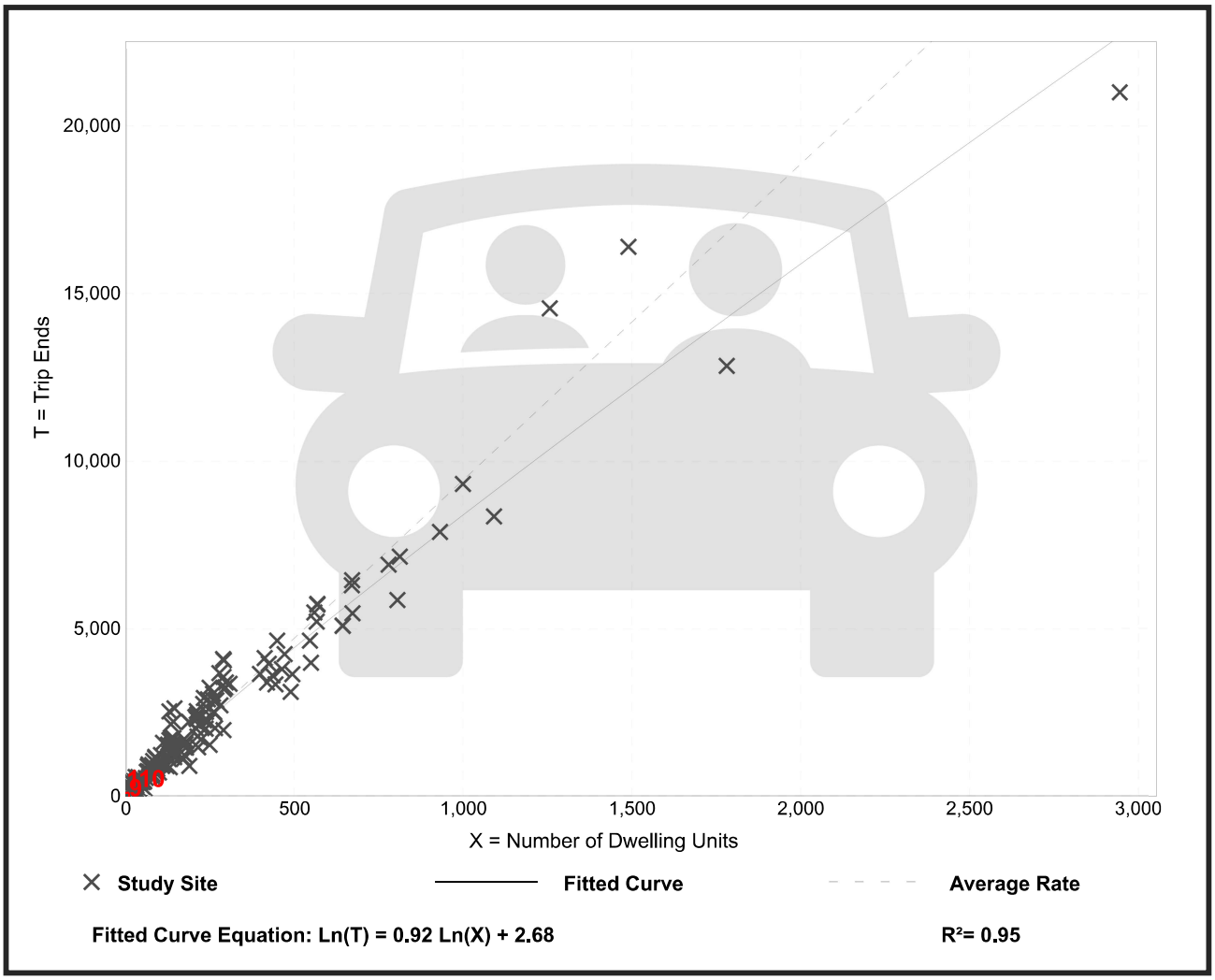
Vehicle Trip Ends vs: **Dwelling Units**
On a: **Weekday**

Setting/Location: **General Urban/Suburban**
Number of Studies: 174
Avg. Num. of Dwelling Units: 246
Directional Distribution: 50% entering, 50% exiting

Vehicle Trip Generation per Dwelling Unit

Average Rate	Range of Rates	Standard Deviation
9.43	4.45 - 22.61	2.13

Data Plot and Equation



Single-Family Detached Housing
(210)

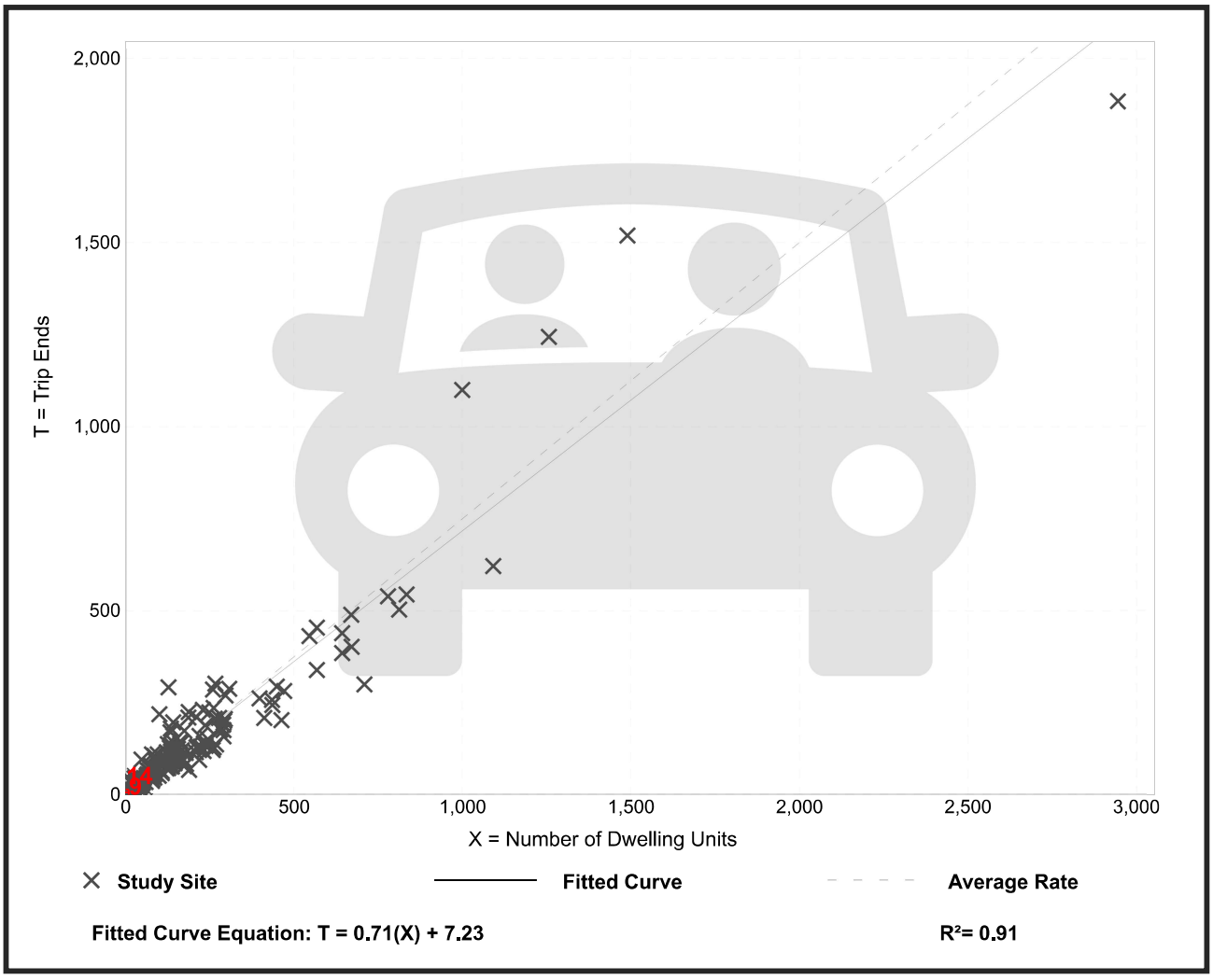
Vehicle Trip Ends vs: **Dwelling Units**
On a: **Weekday,**
AM Peak Hour of Generator

Setting/Location: **General Urban/Suburban**
Number of Studies: 169
Avg. Num. of Dwelling Units: 217
Directional Distribution: 26% entering, 74% exiting

Vehicle Trip Generation per Dwelling Unit

Average Rate	Range of Rates	Standard Deviation
0.75	0.34 - 2.27	0.25

Data Plot and Equation



Single-Family Detached Housing
(210)

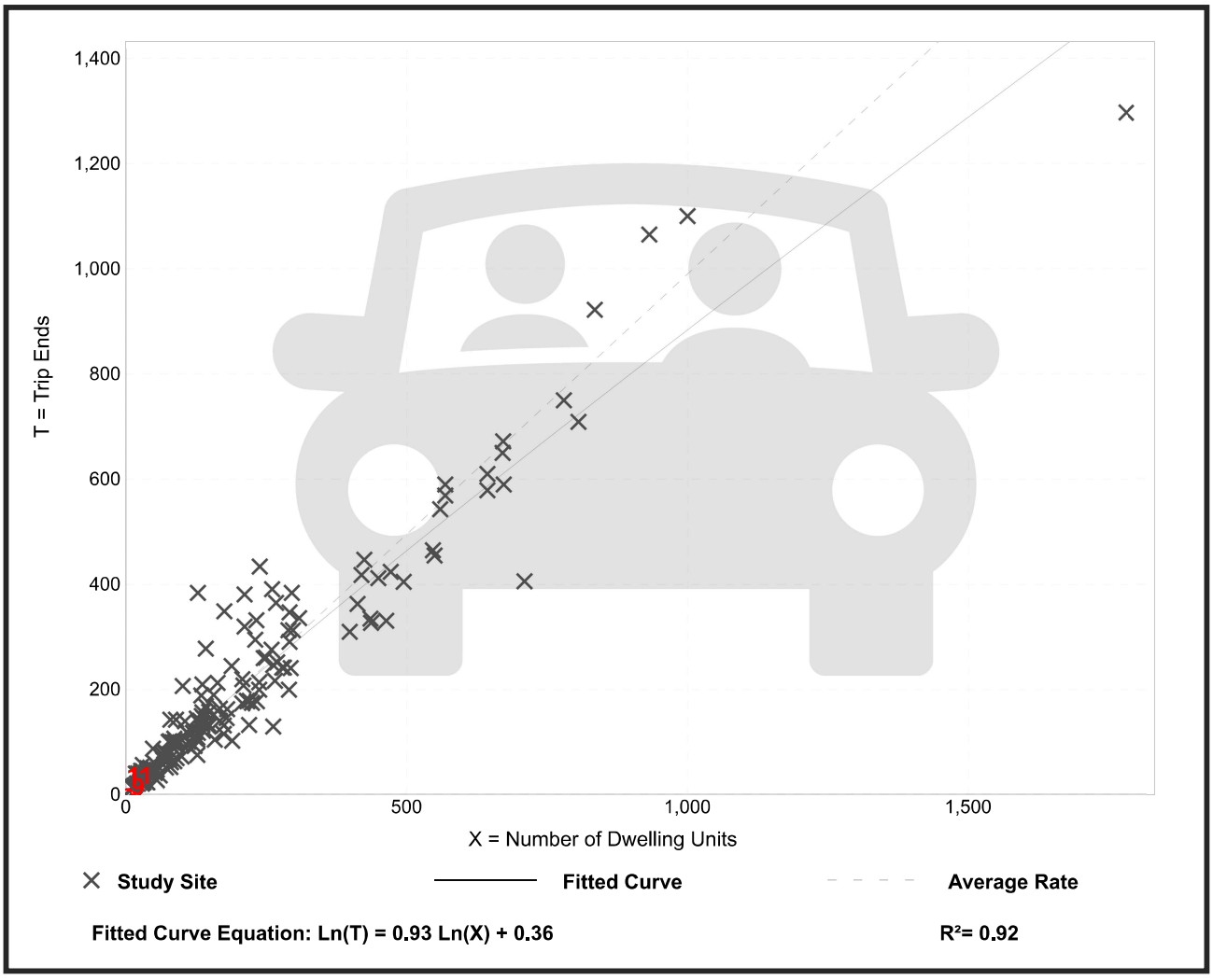
Vehicle Trip Ends vs: **Dwelling Units**
On a: **Weekday,**
PM Peak Hour of Generator

Setting/Location: **General Urban/Suburban**
Number of Studies: 178
Avg. Num. of Dwelling Units: 203
Directional Distribution: 64% entering, 36% exiting

Vehicle Trip Generation per Dwelling Unit

Average Rate	Range of Rates	Standard Deviation
0.99	0.49 - 2.98	0.28

Data Plot and Equation



E. Back-up Data – Traffic Figures

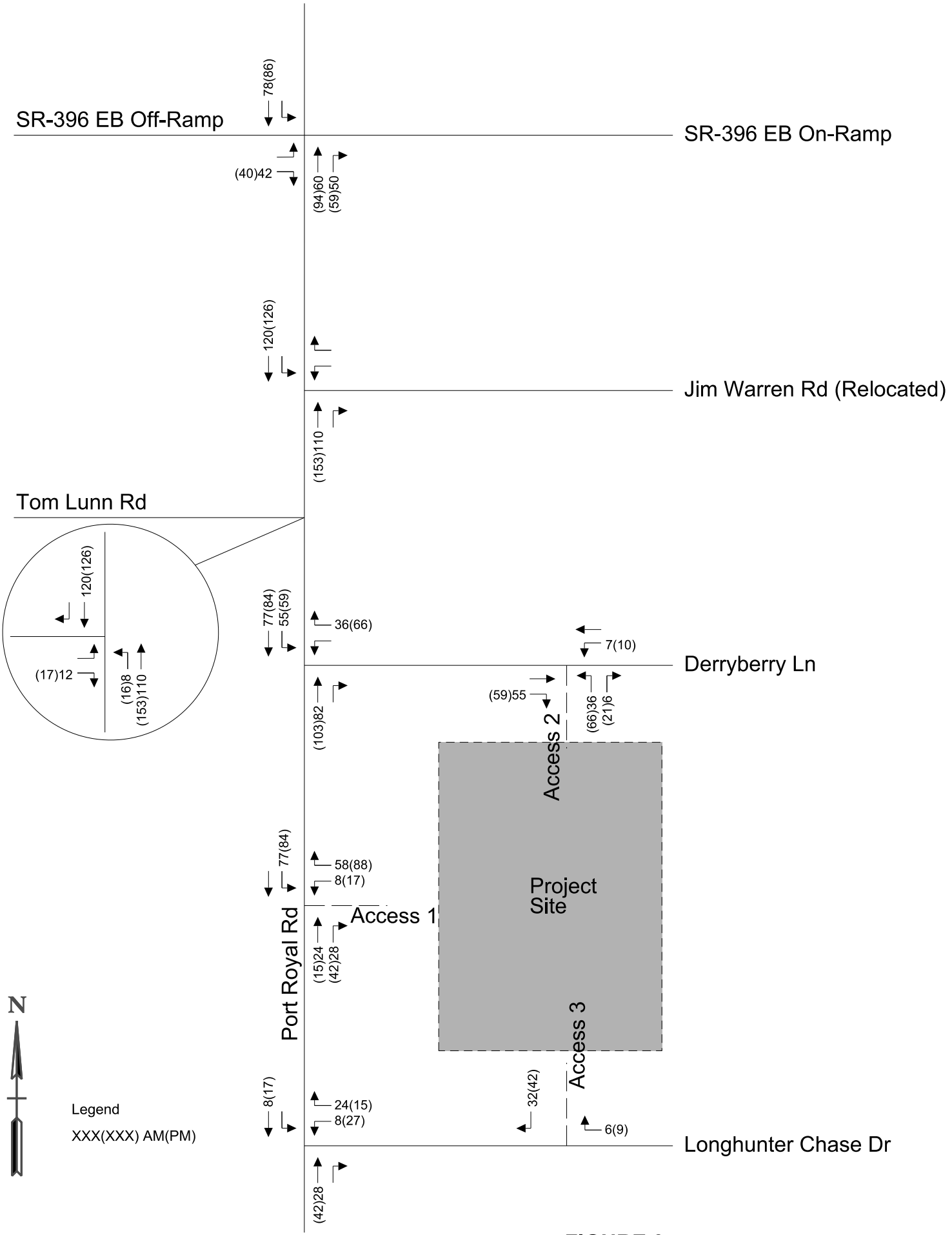
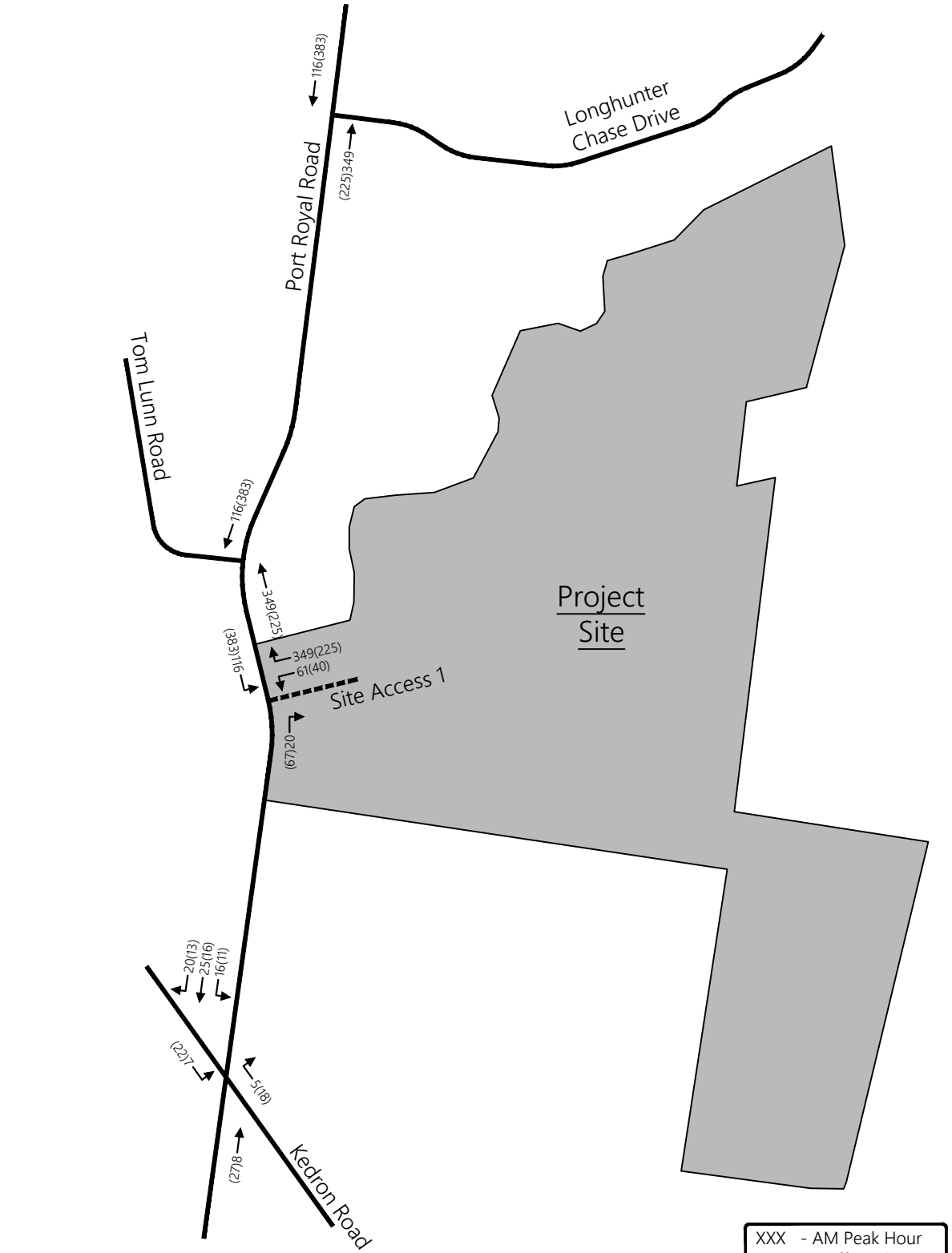
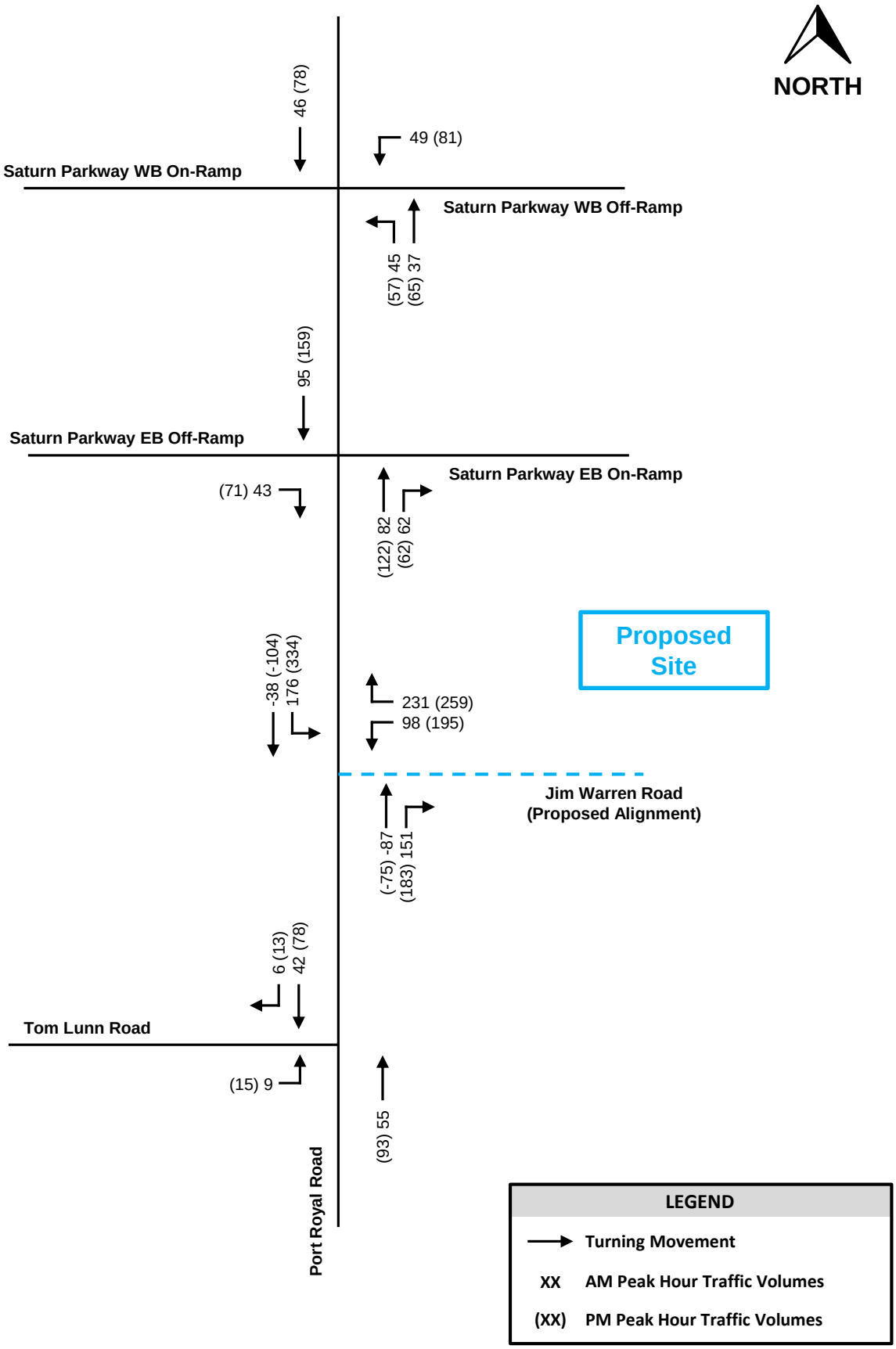


FIGURE 8:
PROJECT GENERATED TRAFFIC VOLUMES



Assignment of Peak Hour Traffic Volumes
Generated by Meadowbrook South Development
(Not to Scale)

Figure 7.



Kimley»Horn	Spring Hill Towne Crossing Traffic Impact Analysis	Project Trips	Figure 8

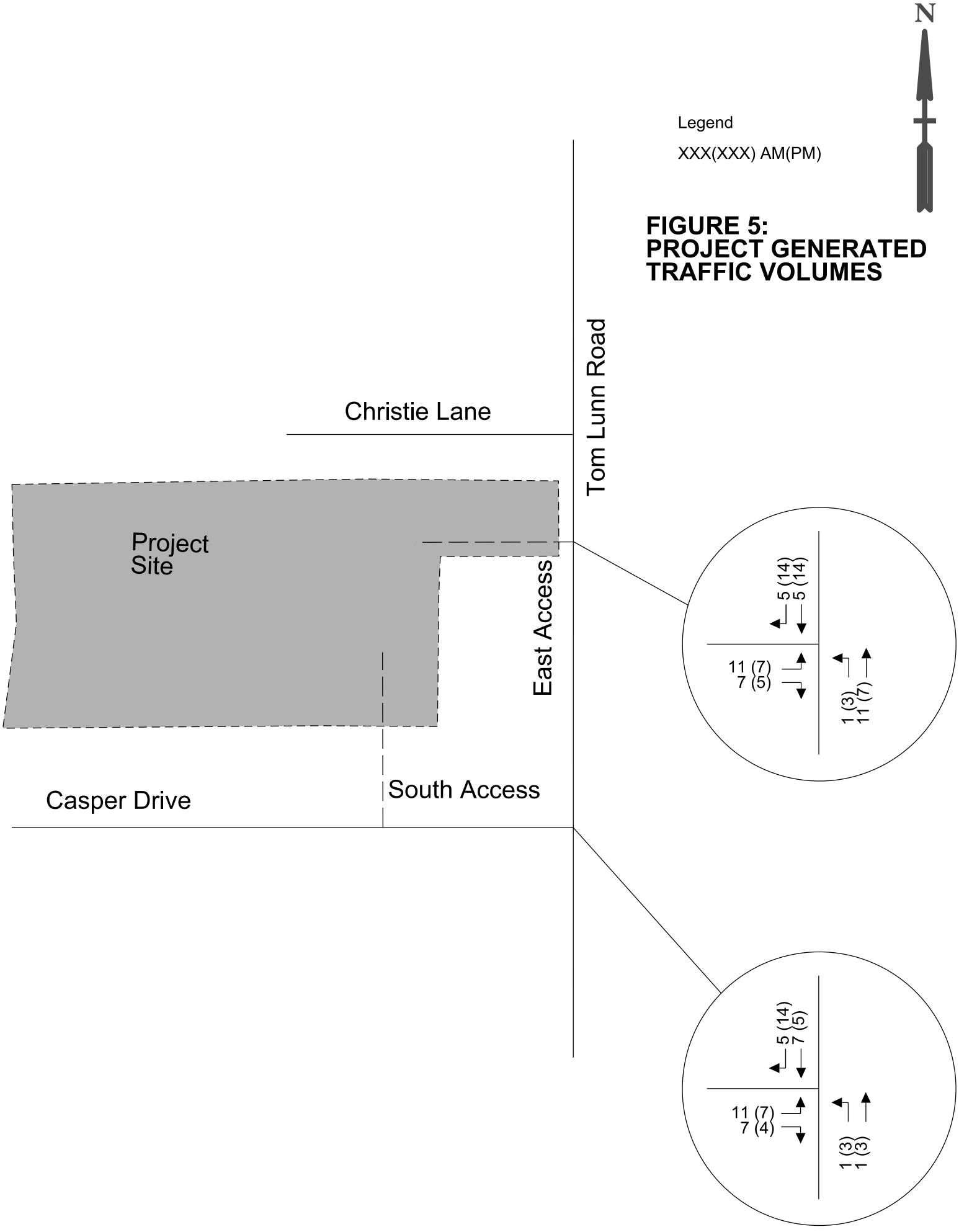


FIGURE 5:
PROJECT GENERATED TRAFFIC VOLUMES

Corporate Headquarters
295 South Water Street, Suite 300
Kent, OH 44240
800-828-8312

Local Office
801 Rep John Lewis Way S
Nashville, TN 37203
615-460-9797

October 12, 2023

Mr. Tom Foust
Freehold Communities
500 Boyston Street, Suite 2010
Boston, MA 02116

RE: Regulatory Constraints Analysis Letter Report
Stone Creek Development
Spring Hill, Maury County, Tennessee

Dear Mr. Foust,
Per your request, Davey Resource Group, Inc. (DRG) conducted a natural resources Regulatory Constraints Analysis (RCA) for the above referenced property on September 20 and 29, 2023. This RCA was performed to identify potentially jurisdictional aquatic resources (i.e., streams, wetlands, waterbodies) and to determine the potential for rare, threatened, or endangered (RTE) plant or animal habitats that may be present on the subject property. **These findings are preliminary and are intended to be used for internal planning purposes**.

An RCA Summary map is included as Appendix 1 and is intended to be used as a visual reference to accompany this letter report.

SECTION 1. SITE OVERVIEW

The approximately 155-acre site is located on the southeast corner of Derryberry Lane and Rice Road in the City of Spring Hill, Maury County, Tennessee. The site is bounded to the north by a pedestrian greenway, to the southwest by a residential development, and to the east by Interstate 65. Land cover is primarily mixed forest interspersed with red cedar, while the northwest corner of the site has been cleared and recently disturbed. A sanitary sewer easement traverses this northwestern area, and an electric powerline right-of-way crosses the site's southeast corner.

The Carters Creek USGS 7.5' Quadrangles depict Rutherford Creek flowing through the northern half of the site, from northwest to southeast. Topographically, the site varies from north to south, being generally flat and associated with the Rutherford Creek floodplain to the north and composed of a large and rocky hillslope to the south. While site watercourses drain to either Rutherford Creek or Crooked Creek, all potential aquatic resources are contained within the Rutherford Creek Watershed (HUC 12: 060400030201). Based on a review of the Tennessee Department of Environment and Conservation's (TDECs) online mapping application (https://tdeconline.tn.gov/dwr/), Rutherford Creek is classified as impaired by nutrients, low dissolved oxygen, and alteration in streamside riparian buffers due to grazing and municipal impacts (notably, Rutherford Creek has not been assessed to be impaired for siltation, which would otherwise affect buffer requirements along this stream). Crooked Creek is listed as impaired by siltation and physical substrate habitat alterations. There are no aquatic resources present within the site that have been designated as Exceptional Tennessee Waters (ETW).

SECTION 2. NWI AND HYDRIC SOIL MAP REVIEW

Based on a review of the National Wetland Inventory (NWI) database, two Riverine features are mapped within the site. These watercourses are closely aligned with Rutherford Creek and an unnamed tributary that crosses the site's northern boundary; both are identified within this report. Based on a review of the Natural Resources Conservation Service (NRCS) Web Soil Survey data, the site is underlain by a variety of silt loam and silty clay loam, while a majority of the site is underlain by the Rockland and Gladeville-Rock outcrop complex (Appendix 2). The Lindell silt loam (4 Rating) and the Dunning silty clay loam (100 Rating) are classified as hydric and are mapped within the Rutherford Creek floodplain.

SECTION 3. WATERCOURSES AND WETLANDS

Watercourses

One named stream, Rutherford Creek, flows prominently across the northern half of the site. Additionally, DRG identified seven probable TDEC / United States Army Corps of Engineers (USACE) intermittent stream reaches within the site, which are denoted with blue lines on the accompanying map. Alterations to these stream reaches, if confirmed to be jurisdictional, would require both TDEC Aquatic Resource Alteration Permits (ARAPs) and USACE §404 permits.

DRG identified eight probable TDEC wet weather conveyances (WWCs) / USACE ephemeral streams, which are denoted with orange dashed lines on the accompanying map. TDEC and USACE concurrence with a formal Hydrologic Determination and Jurisdictional Determination for these watercourses is advisable. If confirmed to be TDEC WWCs / USACE ephemeral streams, these features could be altered without ARAPs under TDEC's Construction General Stormwater Permit but may require USACE §404 permits. Following the recent Supreme Court ruling *Sackett v. EPA*, the USACE has not issued its final guidance on related changes to the Clean Water Act; therefore, at this time, DRG cannot definitively say if an ephemeral stream could be altered without a USACE §404 permit.

Wetlands

DRG identified four potential wetlands within the site, which are symbolized as blue polygons with green hatching on the provided map. These areas were determined to be potential jurisdictional wetlands based on the presence of wetland hydrology, hydrophytic vegetation, and hydric soils. Wetland-A is located in the northern floodplain of Rutherford Creek and is underlain by hydric soils identified by the NRCS. Wetland-B, -C, and -D are associated with probable intermittent stream D-3, in the central portion of the site. Alterations to these wetland areas, if confirmed to be jurisdictional, would require a TDEC ARAP and may also require USACE §404 permits.

SECTION 4. BUFFER REQUIREMENTS

TDEC Requirements: TDEC's Construction General NPDES Permit requires a 30-foot average buffer from both sides of the top of bank (minimum of 15 feet) on all jurisdictional streams and wetlands. If water features are considered ETWs or if they are impaired from siltation (silt/sediment) or habitat alterations, the buffer width is increased to an average of 60-feet from top of bank (minimum of 30 feet). None of the watercourses identified on the subject site have been designated as ETWs or as siltation impaired. Accordingly, TDEC buffer

requirements that would apply to site watercourses determined to be streams would be a minimum of 15 feet and average of 30 feet (both sides) from top of bank.

Municipal Requirements: According to the City of Spring Hill's MS4 Stormwater Ordinance, all jurisdictional streams and wetlands will require a 30-foot average (minimum of 15 feet) riparian water quality buffer from both sides of the top of bank, or as measured from the delineated wetland boundary. No clearing, grubbing, or grading is allowed within the buffers unless disturbances are covered under a TDEC ARAP.

SECTION 5. RARE, THREATENED, AND ENDANGERED SPECIES

The TDEC Natural Heritage Program (NHP) reports element occurrences for the following rare, threatened, or endangered (RTE) species within the Rutherford Creek Watershed (HUC 12: 060400030201). In order to receive a more detailed review of RTE species and habitats potentially occurring within and adjacent to the site, DRG utilized the TDEC-NHP Environmental Review Tool (ERT). The report generated by the ERT (Appendix 3) will be helpful during the permitting process, and can be used during consultation with state agencies, if necessary.

Scientific Name	*Common Name*	*Fed Status*	*State Status*	*Habitat Description*
Astragalus tennesseensis	Tennessee Milk-vetch	--	S	Glades
Etheostoma luteovinctum	Redband Darter	--	D	Limestone streams; Nashville Basin & portions of Highland Rim.
Phemeranthus calcaricus	Limestone Fame-flower	--	S	Glades
Schoenolirion croceum	Yellow Sunnybell	--	T	Wet Areas In Glades
Vitis rupestris	Sand Grape	--	E	Sandy, Rocky Riverbanks
Zanthoxylum americanum	Northern Prickly-ash	--	S	Cedar Thickets

E = Endangered, T = Threatened, D = Deemed in Need of Management, S = Special Concern

None of these listed species were observed by DRG personnel during site reconnaissance. However, potential habitat for all the above-listed species was observed within glades, wet glades, cedar thickets, limestone streams and riverbanks. Several open cedar glades that may contain rare plant species were observed in the north-central portion of the site, south of Rutherford Creek, and are denoted with green dots on the accompanying map. These glade areas may also be classified as a Central Basin Limestone Seep Glade, which is a rare ecological community, but not currently listed by the state of Tennessee.

The potential habitat for the redband darter (*Etheostoma luteovinctum*) is limited to Rutherford Creek. Based on the presence of suitable habitat and the proximity of existing records, it is likely that any TDEC permitting will require coordination with the Tennessee Wildlife Resources Agency (TWRA) to identify protective measures for the redband darter. TDEC may also require botanical surveys to be conducted during the regular growing season, with an emphasis on glade habitats within the site.

Although not actively tracked by the TDEC Natural Heritage Program, potential impacts to federally listed bat species should be considered during site development activities. DRG observed several dead snags and an abundance of trees with exfoliating bark, crevices, and/or hollows across the site. These trees may be considered suitable summer roosting habitat for the federally endangered Indiana bat (*M. sodalis*) and the federally threatened Northern long-eared bat (*M. septentrionalis*). Application for a USACE §404 permit for disturbances to wetlands or streams would require consultation with the U.S. Fish and Wildlife Service (USFWS) regarding potential adverse effects to listed bat species.

Given that the site is neither within an Indiana bat consultation zone nor a Northern long-eared bat occurrence quadrangle, the USFWS may not require forest habitat protection for these species. However, in order to avoid the possibility of harming bats or their habitat during forest clearing activities, a voluntary presence/absence survey may be advisable to be conducted during summer months. Clearing forested areas is not advised from April 1 through October 15 when potential roost trees may be occupied, which could constitute a "take" of listed species and violation of the federal Endangered Species Act (ESA).

SECTION 6. REGULATORY CONSIDERATIONS

Where practicable, DRG recommends limiting impacts to jurisdictional streams and wetlands through the utilization of span-bridge crossings and minimization/boring of utility crossings; doing so may avoid the need for a USACE permit. If alterations to potentially jurisdictional waters are unavoidable, and both TDEC ARAP and USACE §404 permits are required, DRG recommends the following steps:

1) Conduct formally documented wetland delineations within the site using the USACE *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Eastern Mountains and Piedmont Region (Version 2.0)* protocols to establish the jurisdictional extent of wetlands.

2) Conduct a formal Hydrologic Determination (HD) for watercourses within the site as provided under TN Code Annotated §69-3-108(r). The HD process will identify TDEC Aquatic Resource Alteration Permit (ARAP) requirements. TDEC review of HDs can take a minimum of 30 days or a maximum of 60 days.

3) DRG recommends contacting the USACE and requesting a Jurisdictional Determination (JD) to confirm the extent and jurisdictional status of the site's aquatic resources to inform site planning.

4) Consultation with TWRA and the TDEC Division of Natural Areas Heritage Program to coordinate surveys for the redband darter within Rutherford Creek, if performing in-stream work during the spawning season, January 15th – May 31st.

5) Consultation with TDEC Division of Natural Areas Heritage Program to determine if botanical surveys of cedar glade habitat will be required during the regular growing season (March - October).

6) Determine total impacts to jurisdictional waters and the amount of compensatory mitigation credits (if any) that will be required. It is imperative that compensatory mitigation credits be reserved from mitigation banks or in-lieu fee (ILF) programs as early as possible to ensure their availability for your project.

There have been recent regulatory changes regarding compensatory stream mitigation that have resulted in the temporary unavailability of mitigation credits in some areas. Credit costs in the Lower

Duck River service area (which covers the project site) are estimated to be $2,500 or more per functional foot, if available. If credits are unavailable in the project's service area, then credits may be purchased from the Middle Cumberland or Stones River service areas on an escalated basis, if available.

7) If required by USACE permitting considerations, conduct a Phase I assessment of archaeological and cultural resources and obtain concurrence from the USACE Archaeologist and the State Historic Preservation Office (SHPO) regarding the findings of these Phase I assessments.

8) If permitting is required, develop a thorough alternatives analysis of other sites and layouts specifically considered for the development, and a thorough socioeconomic justification for the project.

9) In the project timeline, budget for a 90-day review process for the TDEC Individual ARAP and 6-8 months for USACE Individual Permit Review. General ARAP Permit coverage for minor wetland impacts is typically granted within 30-45 days. USACE Nationwide Permit coverage is generally granted within 60-90 days.

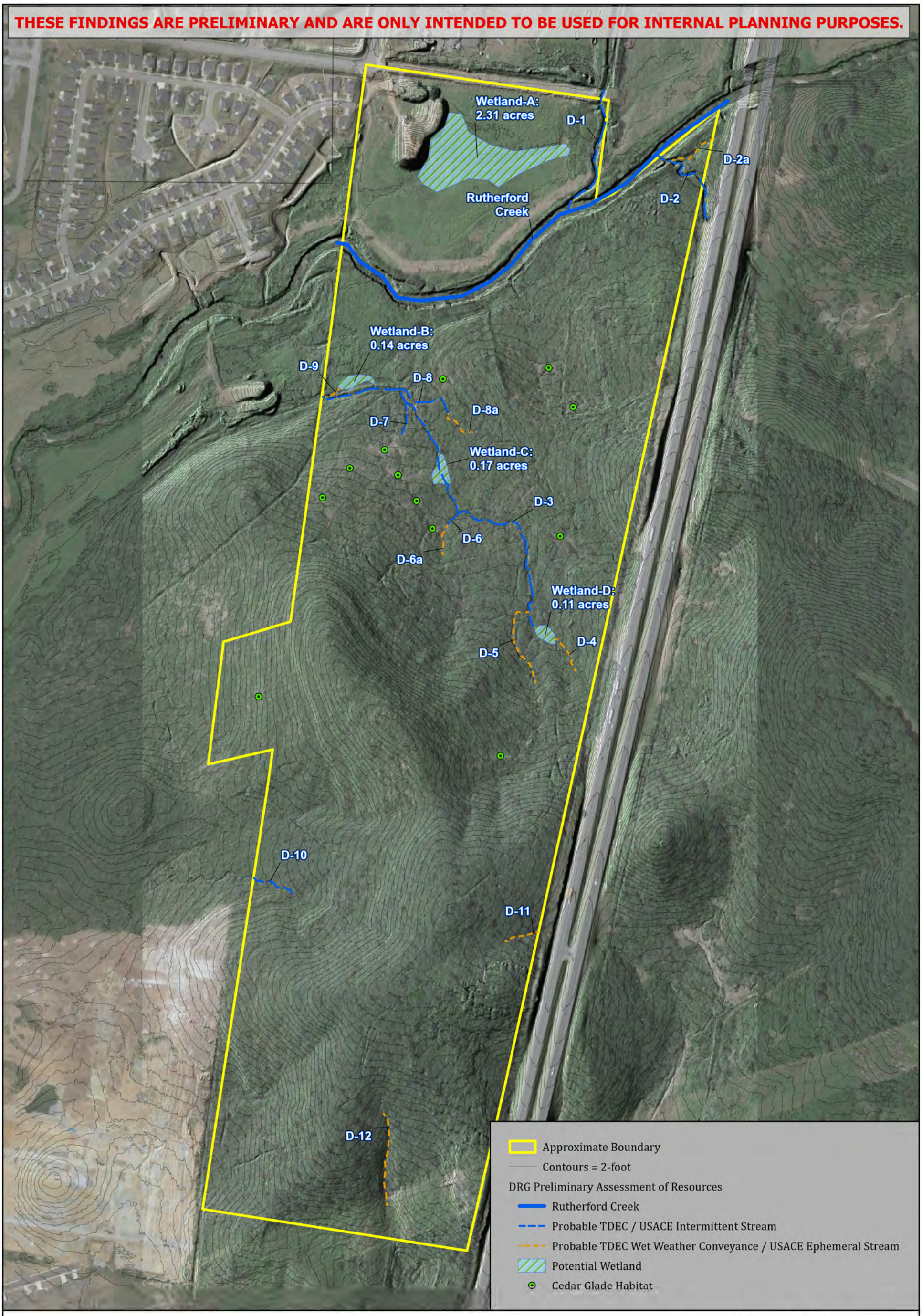
If you have any questions or comments regarding this report or the accompanying map, please call me at 615.460.9797. Thank you for allowing DRG the opportunity to work with you.

Sincerely,

Glenn M. Rohrbach
Environmental Scientist/Specialist V

APPENDIX 1: RCA Summary Map

THESE FINDINGS ARE PRELIMINARY AND ARE ONLY INTENDED TO BE USED FOR INTERNAL PLANNING PURPOSES.



DAVEY Resource Group
Nashville Office | 2607 Westwood Dr.
Nashville, TN 37204

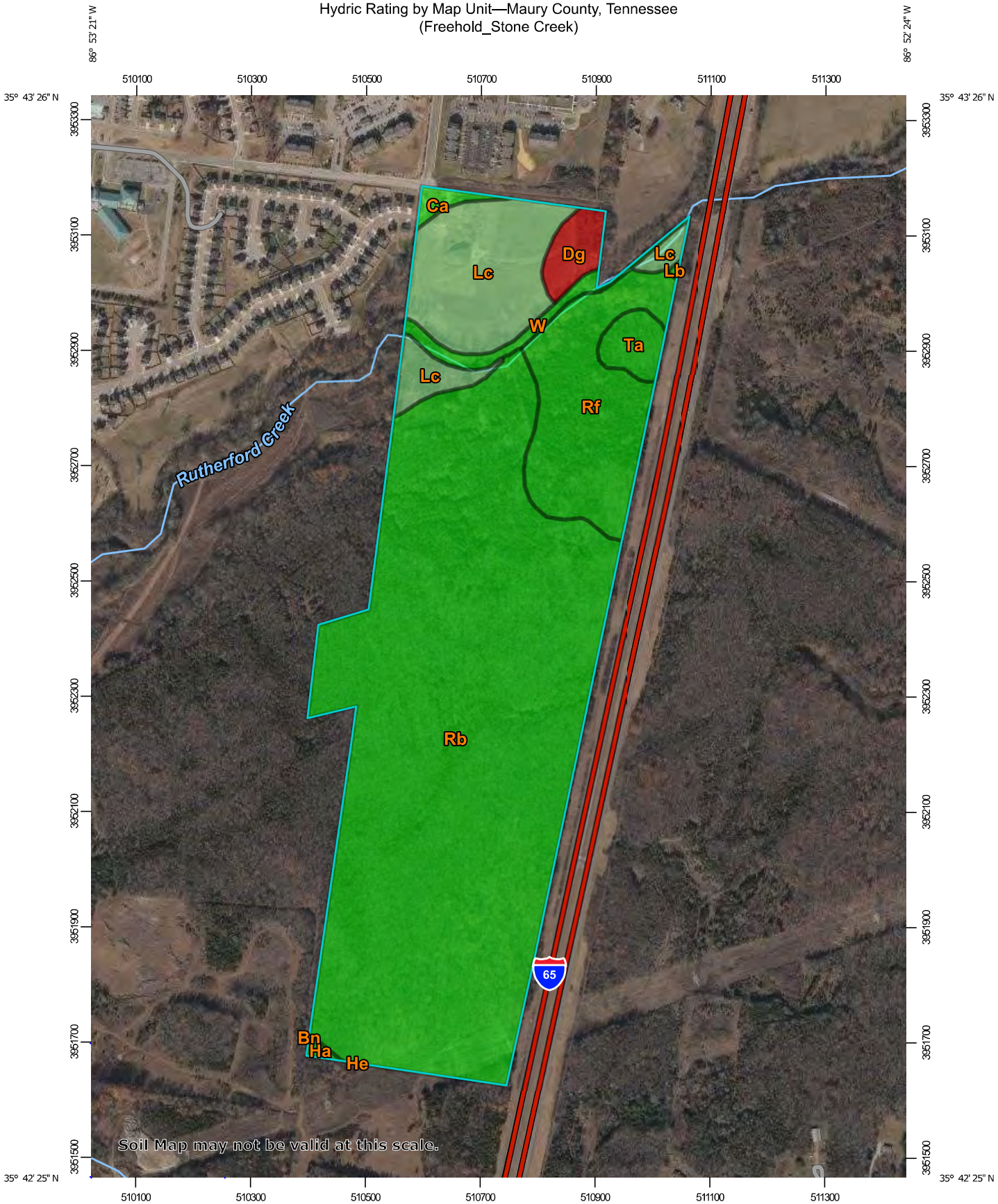
Figure 1. Regulatory Constraints Analysis Summary of Findings.
Freehold - Stone Creek
Spring Hill
Maury County, Tennessee

0 250 500 Feet N

Date: 10/3/2023
NAD 1983 2011 StatePlane Tennessee FIPS 4100 Ft US
86.88136°W 35.71554°N
Prepared for: Freehold Communities
Prepared by: G. Rohrbach
Sources: Google 2023 Aerial Imagery; TNGIS LiDAR Derived Elevation Contours and Hillshade; DRG Field Data (9/20/2023 and 9/29/2023)

APPENDIX 2: NRCS Web Soil Survey

Hydric Rating by Map Unit—Maury County, Tennessee
(Freehold_Stone Creek)



Map Scale: 1:9,150 if printed on A portrait (8.5" x 11") sheet.

N

Meters
0 100 200 400 600

Feet
0 400 800 1600 2400

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 16N WGS84

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils

Soil Rating Polygons
- Hydric (100%)
- Hydric (66 to 99%)
- Hydric (33 to 65%)
- Hydric (1 to 32%)
- Not Hydric (0%)
- Not rated or not available

Soil Rating Lines
- Hydric (100%)
- Hydric (66 to 99%)
- Hydric (33 to 65%)
- Hydric (1 to 32%)
- Not Hydric (0%)
- Not rated or not available

Soil Rating Points
- Hydric (100%)
- Hydric (66 to 99%)
- Hydric (33 to 65%)
- Hydric (1 to 32%)
- Not Hydric (0%)
- Not rated or not available

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Maury County, Tennessee
Survey Area Data: Version 17, Sep 15, 2022

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Nov 16, 2019—Dec 5, 2019

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Hydric Rating by Map Unit

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
Bn	Burgin silty clay loam, gently sloping phase	0	0.0	0.0%
Ca	Captina silt loam, eroded gently sloping phosphatic phase	0	1.0	0.6%
Dg	Dunning silty clay loam, phosphatic phase	100	2.8	1.8%
Ha	Hagerstown silt loam, eroded gently sloping phase	0	0.3	0.2%
He	Hermitage silt loam, eroded gently sloping phase	0	0.0	0.0%
Lb	Lindside silt loam, local alluvium phase	0	0.1	0.1%
Lc	Lindell silt loam, 0 to 2 percent slopes, frequently flooded	4	17.6	11.3%
Rb	Gladeville-Rock outcrop complex, 2 to 15 percent slopes, extremely stony	0	110.5	71.2%
Rf	Rockland, Talbott material, sloping	0	17.9	11.6%
Ta	Talbott silty clay loam, eroded gently sloping phase	0	2.6	1.7%
W	Water	0	2.4	1.5%
Totals for Area of Interest			**155.2**	**100.0%**

Description

This rating indicates the percentage of map units that meets the criteria for hydric soils. Map units are composed of one or more map unit components or soil types, each of which is rated as hydric soil or not hydric. Map units that are made up dominantly of hydric soils may have small areas of minor nonhydric components in the higher positions on the landform, and map units that are made up dominantly of nonhydric soils may have small areas of minor hydric components in the lower positions on the landform. Each map unit is rated based on its respective components and the percentage of each component within the map unit.

The thematic map is color coded based on the composition of hydric components. The five color classes are separated as 100 percent hydric components, 66 to 99 percent hydric components, 33 to 65 percent hydric components, 1 to 32 percent hydric components, and less than one percent hydric components.

In Web Soil Survey, the Summary by Map Unit table that is displayed below the map pane contains a column named 'Rating'. In this column the percentage of each map unit that is classified as hydric is displayed.

Hydric soils are defined by the National Technical Committee for Hydric Soils (NTCHS) as soils that formed under conditions of saturation, flooding, or ponding long enough during the growing season to develop anaerobic conditions in the upper part (Federal Register, 1994). Under natural conditions, these soils are either saturated or inundated long enough during the growing season to support the growth and reproduction of hydrophytic vegetation.

The NTCHS definition identifies general soil properties that are associated with wetness. In order to determine whether a specific soil is a hydric soil or nonhydric soil, however, more specific information, such as information about the depth and duration of the water table, is needed. Thus, criteria that identify those estimated soil properties unique to hydric soils have been established (Federal Register, 2002). These criteria are used to identify map unit components that normally are associated with wetlands. The criteria used are selected estimated soil properties that are described in "Soil Taxonomy" (Soil Survey Staff, 1999) and "Keys to Soil Taxonomy" (Soil Survey Staff, 2006) and in the "Soil Survey Manual" (Soil Survey Division Staff, 1993).

If soils are wet enough for a long enough period of time to be considered hydric, they should exhibit certain properties that can be easily observed in the field. These visible properties are indicators of hydric soils. The indicators used to make onsite determinations of hydric soils are specified in "Field Indicators of Hydric Soils in the United States" (Hurt and Vasilas, 2006).

References:

Federal Register. July 13, 1994. Changes in hydric soils of the United States.

Federal Register. September 18, 2002. Hydric soils of the United States.

Hurt, G.W., and L.M. Vasilas, editors. Version 6.0, 2006. Field indicators of hydric soils in the United States.

Soil Survey Division Staff. 1993. Soil survey manual. Soil Conservation Service. U.S. Department of Agriculture Handbook 18.

Soil Survey Staff. 1999. Soil taxonomy: A basic system of soil classification for making and interpreting soil surveys. 2nd edition. Natural Resources Conservation Service. U.S. Department of Agriculture Handbook 436.

Soil Survey Staff. 2006. Keys to soil taxonomy. 10th edition. U.S. Department of Agriculture, Natural Resources Conservation Service.

Rating Options

Aggregation Method: Percent Present

Component Percent Cutoff: None Specified

Tie-break Rule: Lower

APPENDIX 3: TDEC Division of Natural Areas – Natural Heritage Program
Environmental Review Tool (ERT) Report

Environmental Review Report

Project Information

Report Generation Date:	9/28/2023 11:40 am
Project Name:	Freehold - Stone Creek Residential Development
User-defined Project ID:	
ERT Project ID:	TNNHP_ERT_257
Project Size:	155.28 acres
County(s):	Maury
State:	TN
TN Physiographic Province:	Central Basin
Watershed(s) HUC 8:	• 06040003
Watershed(s) HUC 12:	• 060400030201 (Rutherford Creek Upper)
Latitude, Longitude (Decimal Degrees):	35.715735 / -86.881711

Contact Information

Organization:	Davey Resource Group
Name:	Sara Samoray
Phone:	6156536940
Email:	sara.samoray@davey.com
Address:	801 Rep. John Lewis Way S, Ste 206, Nashville, TN 37203

Project Description

Proposed residential development that incorporates a large Spring Hill City Park and gray water treatment facility.

This report is based on documented occurrences in the vicinity of your project area. As all areas of the state have not been surveyed for rare species, this report only serves as guidance as to what rare species could occur onsite.

The Tennessee Department of Environment and Conservation - Division of Natural Areas (TDEC-DNA) currently tracks over 1,100 rare and endangered plant and animal species as well as hundreds of conservation sites across the state. The Division and other scientists collect this information through ongoing research and field investigations and from scientific literature, museum collections, and other sources. We continually analyze and update the database. The data are not only important in identifying areas of ecological significance for conservation and restoration activities, but are also useful in the environmental review process.

Additional Information about the TDEC Division of Natural Areas can be found here: https://www.tn.gov/environment/program-areas/na-natural-areas.html

The following report and agency comments are based on a query of the TDEC-DNA rare species database and associated geographic information with regard to the project information you submitted through the Environmental Review Tool.

Please note that although TDEC-DNA manages data for state and federally listed plant and animal species in Tennessee, **the Tennessee Wildlife Resources Agency (TWRA) has legal authority over wildlife** and **the U.S. Fish and Wildlife Service (USFWS) has legal jurisdiction over all federally listed species**. Furthermore, both agencies may possess additional data of which we are unaware or have additional concerns not addressed herein. TDEC Division of Water Resources (TDEC-DWR) is the state authority for all Waters of the State. As such, we ask that you coordinate your project with these entities (where appropriate) and any other relevant federal, state, or local authorities beyond your coordination with TDEC-DNA. We encourage you to share this report from the TDEC-DNA rare species database when coordinating with other agencies.

Thank you for considering Tennessee's rare species throughout the planning of this project. Should you have any questions, please do not hesitate to contact our office at 615-532-4799 or environmental.review@tn.gov.

Managed Areas within 1 Mile of the Project Area

Area Name	Manager

Rare Species Occurrences within 1 Mile of the Project Area

Type	Scientific Name	Common Name	Global Rank	State Rank	Fed. Protection	State Protection	Habitat
Vascular Plant	Astragalus tennesseensis	Tennessee Milk-vetch	G3	S3	--	S	Glades
Vascular Plant	Phemeranthus calcaricus	Limestone Fame-flower	G3	S3	--	S	Glades
Vascular Plant	Schoenolirion croceum	Yellow Sunnybell	G4	S3	--	T	Wet Areas In Glades
Vascular Plant	Vitis rupestris	Sand Grape	G3	S1	--	E	Sandy, Rocky Riverbanks
Vascular Plant	Zanthoxylum americanum	Northern Prickly-ash	G5	S2	--	S	Cedar Thickets

Rare Species Occurrences within 4 Miles of the Project Area

Type	Scientific Name	Common Name	Global Rank	State Rank	Fed. Protection	State Protection	Habitat
Vascular Plant	Ammoselinum popei	Pope's Sand-parsley	G4	S2	--	T	Glades
Vascular Plant	Amsonia tabernaemontana var. gattingeri	Limestone Blue Star	G5T3Q	S3	--	S	Glades, Barrens, And Rocky River Bars
Vascular Plant	Astragalus tennesseensis	Tennessee Milk-vetch	G3	S3	--	S	Glades
Vascular Plant	Phemeranthus calcaricus	Limestone Fame-flower	G3	S3	--	S	Glades
Vascular Plant	Schoenolirion croceum	Yellow Sunnybell	G4	S3	--	T	Wet Areas In Glades
Vascular Plant	Stellaria fontinalis	Water Stitchwort	G3	S3	--	S	Seeps And Limestone Creek Beds
Vascular Plant	Turritis glabra	Tower-mustard	G5	S1	--	S	Barrens And Open Floodplains
Vascular Plant	Vitis rupestris	Sand Grape	G3	S1	--	E	Sandy, Rocky Riverbanks

Vascular Plant	Zanthoxylum americanum	Northern Prickly-ash	G5	S2	--	S	Cedar Thickets
International Vegetation Classification - Natural	Eleocharis (bifida, compressa) - Schoenolirion croceum - Carex crawei - Allium cernuum Seep Grassland	Central Basin Limestone Seep Glade	G2?	SNR	--	Rare, Not State Listed	
Invertebrate Animal	Gomphus sandrius	Tennessee Clubtail	G1	S1	--	Rare, Not State Listed	Slow streams with bare bedrock shores; Central Basin; upper Duck River and middle Cumberland River watersheds.
Vertebrate Animal	Etheostoma luteovinctum	Redband Darter	G4	S4	--	D	Limestone streams; Nashville Basin & portions of Highland Rim.

You can consult the TN Rare Plant List and the TN Rare Animal List at the Natural Heritage Inventory Program web page: https://www.tn.gov/environment/program-areas/na-natural-areas/na-natural-heritage-inventory-program.html

Additional information regarding rare species can be found in NatureServe Explorer: https://explorer.natureserve.org

Additional information regarding federally listed species can be found at USFWS ECOS: https://ecos.fws.gov/ecp

Full details regarding global/state ranks and fed/state protection can be found here: https://www.tn.gov/content/dam/tn/environment/natural-areas/documents/na_status-ranks.pdf

User-Submitted Responses

Project Type:	Residential Development
Will this project require damage to or destruction of native vegetation outside of a maintained right-of-way, manicured/mowed lawn, or garden?:	Yes
Will this project impact wetlands or jurisdictional streams as defined by TDEC Division of Water Resources?:	Uncertain
Is any portion of the project area on land owned by the State of Tennessee or the U.S. Federal Government?:	No
Will this review be used for certification in the Tennessee Department of Economic and Community Development's Select TN Certified Sites Program?:	No
Is this project publicly-funded or supported by a publicly-funded grant?:	No
Is this environmental review being requested to fulfill requirements of a TDEC permit application?:	Uncertain

COMMENTS REGARDING USER-SUBMITTED RESPONSES

TDEC-DNA does not have any comments regarding the User-Submitted Responses for this project. See comments regarding Managed Areas and Rare Plant Species in the sections below.

COMMENTS REGARDING NEARBY MANAGED AREAS

Our query does not show that any managed conservation areas are in the proposed project area. That said, it is your responsibility to ensure any such areas that may be impacted by your project are correctly identified and that appropriate coordination is conducted. The TN property viewer can be accessed here: https://tnmap.tn.gov/assessment/

COMMENTS REGARDING POTENTIAL IMPACTS TO RARE PLANT SPECIES

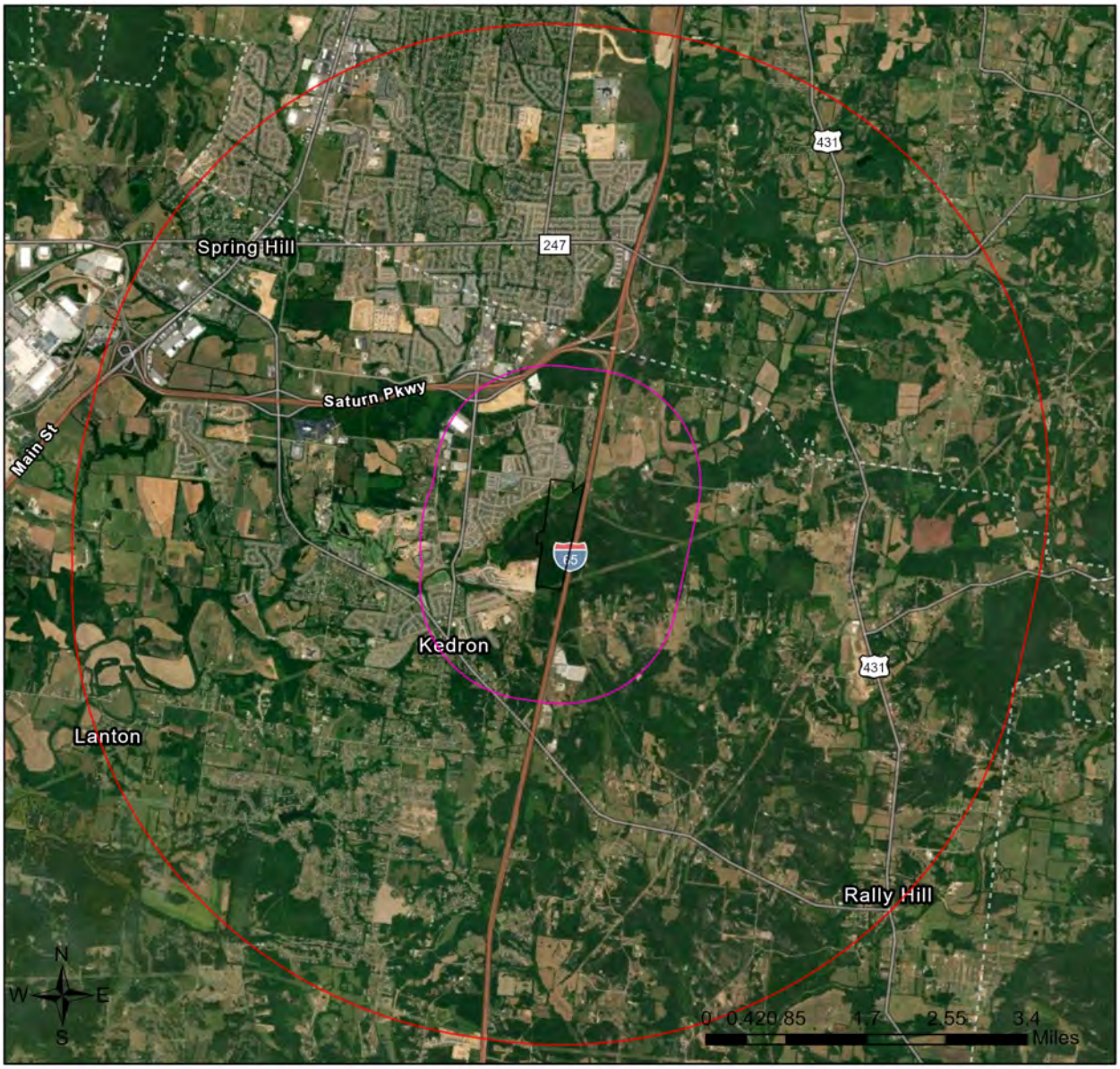
Where suitable habitat is present any of the rare plant species known from within four miles of the

project area may occur at the site. An appropriately timed survey by a qualified biologist would be necessary to identify and avoid impacting rare plant species at the site.

One or more rare plant species or rare ecological communities have been documented within the immediate vicinity of the project boundary. Please send a copy of this report as an attachment to the Environmental Review Coordinator at environmental.review@tn.gov, making sure to include the Project Tracking Number and Project Name in the subject line of your email.

Freehold - Stone Creek Residential Development

Aerial Image Basemap With Locator Map



Project Boundary

Buffered Project Boundary 4 Mile

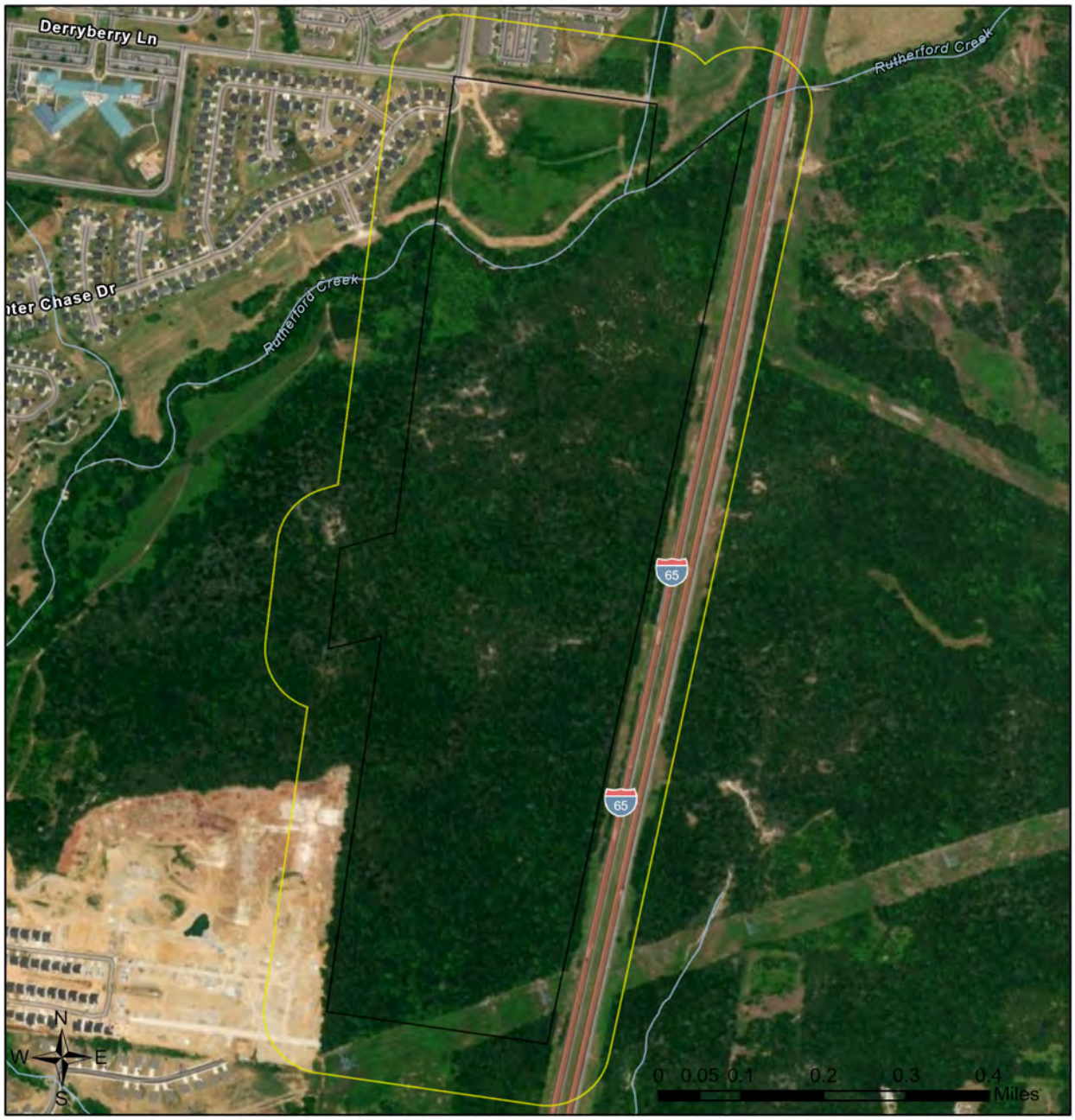
Buffered Project Boundary 1 Mile

Project Size (acres): 155.28
Lat/Long (DD): 35.7157 / -86.8817
Lat/Long (DMS): 35° 42' 56.6463" N / 86° 52' 54.1585" W
County(s): MAURY
Watershed (HUC12): 060400030201
USGS Quad(s): CARTERS-CREEK

Earthstar Geographics
Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, USDA
Esri, HERE, Garmin, FAO, NOAA, USGS, EPA

Freehold - Stone Creek Residential Development

Web Map As Submitted By User



Water Lines
Scenic Rivers
Managed Areas
Buffered Project Boundary 100 Meters
Project Boundary

Esri Community Maps Contributors, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA
Esri, HERE, Garmin, FAO, NOAA, USGS, EPA

Contacts

USFWS

If your project review list includes federally listed plant or animal species, and you would like a review from the U.S. Fish and Wildlife Service, please follow the instructions for submitting a review request provided at https://www.fws.gov/media/tn-es-project-review-requests-guidance.

TWRA

Environmental reviews are coordinated by TWRA via regional habitat protection biologists. Based on the location of your submission, the appropriate TWRA contact for this project is listed below. When project areas include two TWRA regions, both staff members are listed in the Contacts section of the ERT report.

Katie Murphy

TWRA Region for this Project:	Region 2
TWRA Region Contact for this Project:	Katie Murphy
Address:	5105 Edmondson Pike, Nashville, TN 37211
Email Address:	Katie.M.Murphy@tn.gov

TDEC Environmental Field Office

The nearest Environmental Field Office (EFO) should be your starting point for any environmental question. Each EFO is staffed with technical staff who are available to assist with permitting needs, outreach functions, and general guidance. If water resources - including streams, wetlands, or riparian areas - are to be impacted by the project, you can also coordinate with TDEC Division of Water Resources via the appropriate Environmental Field Office or Permitting Unit.

COLUMBIA

TDEC Environmental Field Office for this Project:	COLUMBIA
Address:	1421 Hampshire Pike, Columbia, TN 38401
Phone number:	(888) 891-8332

Appendix A: TDEC-DNA ERT Self-Certification (Rare Plant Species)

For individuals or agencies that wish to document their use of the ERT, this self-certification can help with using the ERT Report to evaluate potential impacts to rare plant species. If the ERT Report section Comments Regarding Potential Impacts to Rare Plant Species indicates that “One or more rare plant species or rare ecological communities have been documented within the immediate vicinity of the project boundary…” we suggest contacting TDEC Division of Natural Areas for further consultation via the method described in the ERT Report prior to using this self-certification.

STEP 1

In consultation with TDEC-Division of Natural Areas via the ERT Report, I have reviewed the rare species documented within 1- and 4- miles of the project area and compared their habitat requirements to the habitat present at the project site.

Based on my survey of the project area or a survey by a qualified biologist (SELECT ONE):

____ Habitat for rare plant species known from within 4-miles of the project area IS present in the project area. (Go to STEP 2)

OR

____ Habitat for rare plant species known from within 4-miles of the project area IS NOT present in the project area. (Skip to STEP 4)

STEP 2

Where suitable habitat is present for rare plant species known from within 4 miles of the project area, appropriately timed surveys were conducted for the rare plant species known from those habitat types as informed by the ERT Report, the TN Rare Plant list, and/or other botanical resources – (see APPENDIX B for Example Rare Plant Survey Documentation). Following our appropriately timed surveys and documentation of those surveys, we determined (SELECT ONE):

____ Rare plant species **ARE** present in the project area. (GO TO STEP 3)

OR

____Rare plant species **ARE NOT** present in the project area. (SKIP TO STEP 4)

STEP 3

Following observation of rare plant species at the site, we began further consultation with TDEC Division of Natural Areas. [Send survey results and pictures of rare plant species to TDEC-DNA at environmental.review@tn.gov, making sure to include the ERT Project ID in the subject line]. I have attached correspondence with TDEC-DNA regarding additional consultation to this form. (GO TO STEP 4)

STEP 4

Following consultation with TDEC-Division of Natural Areas through the ERT and due diligence in the form of a habitat assessment and/or appropriately timed surveys for rare plant species, I have determined that this project is unlikely to impact rare plant species **OR** after identifying rare plant species at the site, I have notified TDEC-DNA that state or federally listed threatened or endangered species are present.

NAME: _____
COMPANY/ORGANIZATION:_____
SIGNATURE: _____
DATE: _____

Appendix B: Example Rare Plant Survey Documentation

All surveys...
Date of survey
Names of surveyors
Total effort (hours)
Map of total project area (with annotations identifying survey areas within project area)
Representative photos of areas surveyed (with latitude/longitude and direction for each)

When rare plant species are identified (repeat for each species)...
Photos of any rare species identified, along with the following information for each photo (or photo series):
Latitude and longitude of observation(s) (decimal degrees)
Multiple points or the centroid of a large population can be used if individuals are widely dispersed
Notes regarding extent of population
e.g. phenology, number of individuals, quality of habitat, extent of area where species is present

Survey Certification

One or more **appropriately timed** surveys were conducted in a study area where suitable habitat was present for rare plant species known from within four miles. Select the result of your survey(s) below.

____ **Result 1:** The survey results suggest that rare plant species ARE NOT present at the site.

Sign below and use this documentation to support your TDEC-DNA ERT Self-Certification for rare plant species.

NAME: _____
COMPANY/ORGANIZATION:_____
SIGNATURE: _____
DATE: _____

OR

____ **Result 2:** The surveys identified rare plant species at the site.

TDEC-DNA welcomes the opportunity to review the results of rare species surveys where rare species have been previously documented and/or new occurrences of rare species are identified. When a survey identifies rare plant species at a site, you may submit your survey documentation to TDEC Division of Natural Areas via email at environmental.review@tn.gov *making sure to include your ERT Project ID in the subject line.*

DIVISION OF NATURAL AREAS
DATA SERVICES
INVOICE

PROJECT NUMBER: TNNHP_ERT_257 DATE: 9/28/2023 11:40 am

Davey Resource Group
801 Rep. John Lewis Way S, Ste 206
Nashville, TN 37203

ATTENTION: Sara Samoray

The data services fee of **$275.00** results from Division of Natural Areas staff providing site specific information on rare species, ecological sites, and/or state natural areas to your office. If your company or organization has additional projects with the Division of Natural Areas, the fee for each will be invoiced separately. For this invoice only:

Pay Online (*Recommended*)

1. Go to the online TDEC Division of Natural Areas Environmental Review Payment Form at https://forms.tdec.tn.gov/?FormTag=ERT_Payment, select "Begin Form Entry", and Sign In to an Existing Account, Register a New Account, or Continue as a Guest User.
2. Enter your Contact Information and Project Information. Enter the trailing numbers of the ERT Project ID for this project (**TNNHP_ERT_257**) into the ERT Project ID field.
3. Enter your payment information and complete your online payment.

Or Pay by Mail

1. Prepare your check in the above amount, making it payable to **"Treasurer, State of Tennessee"** and indicate on it **"For: Division of Natural Areas, ERT Project ID TNNHP_ERT_257."**
2. Submit a check and a copy of this invoice to TDEC Division of Fiscal Services - Fee Section:

   State of Tennessee
   Tennessee Department of Environment & Conservation
   Division of Fiscal Services – Fee Section
   William R. Snodgrass Tennessee Tower – 10th Floor
   312 Rosa L. Parks Avenue
   Nashville, TN 37243

ALTA COMMITMENT FOR TITLE INSURANCE

ISSUED BY
STEWART TITLE GUARANTY COMPANY

NOTICE

IMPORTANT - READ CAREFULLY: THIS COMMITMENT IS AN OFFER TO ISSUE ONE OR MORE TITLE INSURANCE POLICIES. ALL CLAIMS OR REMEDIES SOUGHT AGAINST THE COMPANY INVOLVING THE CONTENT OF THIS COMMITMENT OR THE POLICY MUST BE BASED SOLELY IN CONTRACT.

THIS COMMITMENT IS NOT AN ABSTRACT OF TITLE, REPORT OF THE CONDITION OF TITLE, LEGAL OPINION, OPINION OF TITLE, OR OTHER REPRESENTATION OF THE STATUS OF TITLE. THE PROCEDURES USED BY THE COMPANY TO DETERMINE INSURABILITY OF THE TITLE, INCLUDING ANY SEARCH AND EXAMINATION, ARE PROPRIETARY TO THE COMPANY, WERE PERFORMED SOLELY FOR THE BENEFIT OF THE COMPANY, AND CREATE NO EXTRACONTRACTUAL LIABILITY TO ANY PERSON, INCLUDING A PROPOSED INSURED.

THE COMPANY'S OBLIGATION UNDER THIS COMMITMENT IS TO ISSUE A POLICY TO A PROPOSED INSURED IDENTIFIED IN SCHEDULE A IN ACCORDANCE WITH THE TERMS AND PROVISIONS OF THIS COMMITMENT. THE COMPANY HAS NO LIABILITY OR OBLIGATION INVOLVING THE CONTENT OF THIS COMMITMENT TO ANY OTHER PERSON.

COMMITMENT TO ISSUE POLICY

Subject to the Notice; Schedule B, Part I - Requirements; Schedule B, Part II - Exceptions; and the Commitment Conditions, STEWART TITLE GUARANTY COMPANY, a Texas corporation (the "Company"), commits to issue the Policy according to the terms and provisions of this Commitment. This Commitment is effective as of the Commitment Date shown in Schedule A for each Policy described in Schedule A, only when the Company has entered in Schedule A both the specified dollar amount as the Proposed Policy Amount and the name of the Proposed Insured.

If all of the Schedule B, Part I - Requirements have not been met within six months after the Commitment Date, this Commitment terminates and the Company's liability and obligation end.

Authorized Countersignature

Stewart Title Company Tennessee
Division
216 Centerview Dr, Ste 360
Brentwood, TN 37027

STEWART TITLE GUARANTY COMPANY INCORPORATED 1908 TEXAS

Frederick H. Eppinger
President and CEO

David Hisey
Secretary

This page is only a part of a 2016 ALTA® Commitment for Title Insurance. This Commitment is not valid without the Notice; the Commitment to Issue Policy; the Commitment Conditions; Schedule A; Schedule B, Part I - Requirements; and Schedule B, Part II - Exceptions; and a countersignature by the Company or its issuing agent that may be in electronic form.

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COMMITMENT CONDITIONS

1. DEFINITIONS

(a) "Knowledge" or "Known": Actual or imputed knowledge, but not constructive notice imparted by the Public Records.

(b) "Land": The land described in Schedule A and affixed improvements that by law constitute real property. The term "Land" does not include any property beyond the lines of the area described in Schedule A, nor any right, title, interest, estate, or easement in abutting streets, roads, avenues, alleys, lanes, ways, or waterways, but this does not modify or limit the extent that a right of access to and from the Land is to be insured by the Policy.

(c) "Mortgage": A mortgage, deed of trust, or other security instrument, including one evidenced by electronic means authorized by law.

(d) "Policy": Each contract of title insurance, in a form adopted by the American Land Title Association, issued or to be issued by the Company pursuant to this Commitment.

(e) "Proposed Insured": Each person identified in Schedule A as the Proposed Insured of each Policy to be issued pursuant to this Commitment.

(f) "Proposed Policy Amount": Each dollar amount specified in Schedule A as the Proposed Policy Amount of each Policy to be issued pursuant to this Commitment.

(g) "Public Records": Records established under state statutes at the Commitment Date for the purpose of imparting constructive notice of matters relating to real property to purchasers for value and without Knowledge.

(h) "Title": The estate or interest described in Schedule A.

2. If all of the Schedule B, Part I - Requirements have not been met within the time period specified in the Commitment to Issue Policy, this Commitment terminates and the Company's liability and obligation end.

3. The Company's liability and obligation is limited by and this Commitment is not valid without:

(a) the Notice;

(b) the Commitment to Issue Policy;

(c) the Commitment Conditions;

(d) Schedule A;

(e) Schedule B, Part I - Requirements;

(f) Schedule B, Part II - Exceptions; and

(g) a countersignature by the Company or its issuing agent that may be in electronic form.

4. COMPANY'S RIGHT TO AMEND

The Company may amend this Commitment at any time. If the Company amends this Commitment to add a defect, lien, encumbrance, adverse claim, or other matter recorded in the Public Records prior to the Commitment Date, any liability of the Company is limited by Commitment Condition 5. The Company shall not be liable for any other amendment to this Commitment.

5. LIMITATIONS OF LIABILITY

(a) The Company's liability under Commitment Condition 4 is limited to the Proposed Insured's actual expense incurred in the interval between the Company's delivery to the Proposed Insured of the Commitment and the delivery of the amended Commitment, resulting from the Proposed Insured's good faith reliance to:

(i) comply with the Schedule B, Part I - Requirements;

(ii) eliminate, with the Company's written consent, any Schedule B, Part II - Exceptions; or

(iii) acquire the Title or create the Mortgage covered by this Commitment.

(b) The Company shall not be liable under Commitment Condition 5(a) if the Proposed Insured requested the amendment or had Knowledge of the matter and did not notify the Company about it in writing.

(c) The Company will only have liability under Commitment Condition 4 if the Proposed Insured would not have incurred the expense had the Commitment included the added matter when the Commitment was first delivered to the Proposed Insured.

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(d) The Company's liability shall not exceed the lesser of the Proposed Insured's actual expense incurred in good faith and described in Commitment Conditions 5(a)(i) through 5(a)(iii) or the Proposed Policy Amount.
(e) The Company shall not be liable for the content of the Transaction Identification Data, if any.
(f) In no event shall the Company be obligated to issue the Policy referred to in this Commitment unless all of the Schedule B, Part I - Requirements have been met to the satisfaction of the Company.
(g) In any event, the Company's liability is limited by the terms and provisions of the Policy.

6. LIABILITY OF THE COMPANY MUST BE BASED ON THIS COMMITMENT

(a) Only a Proposed Insured identified in Schedule A, and no other person, may make a claim under this Commitment.
(b) Any claim must be based in contract and must be restricted solely to the terms and provisions of this Commitment.
(c) Until the Policy is issued, this Commitment, as last revised, is the exclusive and entire agreement between the parties with respect to the subject matter of this Commitment and supersedes all prior commitment negotiations, representations, and proposals of any kind, whether written or oral, express or implied, relating to the subject matter of this Commitment.
(d) The deletion or modification of any Schedule B, Part II - Exception does not constitute an agreement or obligation to provide coverage beyond the terms and provisions of this Commitment or the Policy.
(e) Any amendment or endorsement to this Commitment must be in writing and authenticated by a person authorized by the Company.
(f) When the Policy is issued, all liability and obligation under this Commitment will end and the Company's only liability will be under the Policy.

7. IF THIS COMMITMENT HAS BEEN ISSUED BY AN ISSUING AGENT

The issuing agent is the Company's agent only for the limited purpose of issuing title insurance commitments and policies. The issuing agent is not the Company's agent for the purpose of providing closing or settlement services.

8. PRO-FORMA POLICY

The Company may provide, at the request of a Proposed Insured, a pro-forma policy illustrating the coverage that the Company may provide. A pro-forma policy neither reflects the status of Title at the time that the pro-forma policy is delivered to a Proposed Insured, nor is it a commitment to insure.

9. ARBITRATION

The Policy contains an arbitration clause. All arbitrable matters when the Proposed Policy Amount is $2,000,000 or less shall be arbitrated at the option of either the Company or the Proposed Insured as the exclusive remedy of the parties. A Proposed Insured may review a copy of the arbitration rules at <http://www.alta.org/arbitration>.

STEWART TITLE GUARANTY COMPANY

All notices required to be given the Company and any statement in writing required to be furnished the Company shall be addressed to it at P.O. Box 2029, Houston, Texas 77252-2029.

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ALTA COMMITMENT FOR TITLE INSURANCE
SCHEDULE A

ISSUED BY
STEWART TITLE GUARANTY COMPANY

Transaction Identification Data for reference only:

Issuing Agent:	Stewart Title Company Tennessee Division
Issuing Office:	216 Centerview Dr, Ste 360, Brentwood, TN 37027
Issuing Office's ALTA® Registry ID:	
Loan ID Number:	
Commitment Number:	1980259
Issuing Office File Number:	1980259
Property Address:	0 I-65, Spring Hill, TN
Revision Number:	

1. **Commitment Date:** June 26, 2024 at 8:00AM

2. **Policy to be issued:** **Proposed Policy Amount**

   (a) ALTA Owner's Standard $6,225,694.00
   Proposed Insured: 360 TN SH, LLC

   (b) ALTA Loan Standard
   Proposed Insured: TBD

3. **The estate or interest in the Land described or referred to in this Commitment is:**

   FEE SIMPLE

4. **The Title is, at the Commitment Date, vested in:**

   Crestwood Partners, LLC

5. **The Land is described as follows:**

   See Exhibit "A" Attached Hereto

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ALTA COMMITMENT FOR TITLE INSURANCE
EXHIBIT "A"
LEGAL DESCRIPTION

ISSUED BY
STEWART TITLE GUARANTY COMPANY

File No.: 1980259

A tract of land located in the 3rd Civil District of Maury County, Tennessee. Being all of parcel 27.00 on Tax Map 44, said property being the Rock Creek Development, LLC property as recorded in Deed Book R1945, Page 201 in the Register's Office of Maury County, Tennessee, bounded on the north by Alma Harris, on the east by Interstate 65, and on the south and west by Cornerstone Land Company.

Beginning at an iron pin found at the north west corner of Rock Creek Development, LLC as recorded in Deed Book R1945, Page 201 in the Register's Office of Maury County, Tennessee, said point being the north east corner of Cornerstone Land Company as recorded in Deed Book R1837, Page 147 in the Registers Office of Maury County, Tennessee, Tennessee State Plane Coordinate (North – 506,866.5, East – 1,706,450.2), and said point lying in the center of dirt road (Derryberry Lane), and being more particularly described as follows;

Thence with the south line of Alma Harris as recorded in Deed Book 187, Page 614 in the Register's Office of Maury County, Tennessee, South 82°34'11" East a distance of 883.51' to an iron pin found; Thence with the same, South 82°34'11" East a distance of 176.05' to an iron pin found;

Thence with the west line of Jeremy Golden as recorded in Deed Book R1837, Page 147 and shown on Plat Book 18, Page 75, in the Register's Office of Maury County, Tennessee, South 08°30'38" West a distance of 211.62' to an iron pin found; Thence with the south line of aforesaid Jeremy Golden, South 64°33'50" East a distance of 94.48' to a 16" elm tree; Thence with the same, South 04°21'21" West a distance of 168.04' to a point in the center of Rutherford Creek; Thence with the south line of Jeremy Golden and with the center of Rutherford Creek, North 88°15'37" East a distance of 41.68' to an iron pin found; Thence North 36°42'46" East a distance of 62.06' to a point; Thence North 42°56'29" East a distance of 75.96' to a point; Thence North 41°36'00" East a distance of 80.88' to a point; Thence North 50°59'17" East a distance of 92.98' to a point;

Thence North 47°45'21" East a distance of 198.04' to a point; Thence North 59°11'57" East a distance of 40.33' to a point; Thence with the west margin of Interstate 65 South 11°17'52" West a distance of 97.31' to a TDOT concrete monument; Thence with the same, South 11017152" West a distance of 224.98' to a TDOT concrete monument; Thence with the same, South 11°11'04" West a distance of 203.56' to an iron pin found;

Thence with the same, South 11°22'20" West a distance of 25.55' to an iron pin found; Thence with the same, South 11°22'20" West a distance of 641.29' to a TDOT concrete monument; Thence with the same, South 12°14'44" West a distance of 399.88' to a TDOT concrete monument;

Thence with the same, South 12°29'02" West a distance of 208.25' to a TDOT concrete monument; Thence with the same, South 12°52'31" West a distance of 943.81' to a TDOT concrete monument; Thence with the same, South 12°51'46" West a distance of 450.14' to an iron pin found;

Thence with the same, South 12°51'46" West a distance of 96.94' to an iron pin found; Thence with the same, South 12°52'13" West a distance of 1599.15' to an iron pin found; Thence with the same, South 12°49'11" West a distance of 167.22' to an iron pin found, said point being the south east corner of the property herein described; Thence with Cornerstone Land Company as recorded in Deed Book R1995, Page 254 in the Register's Office of Maury County, Tennessee, North 81°14'03" West a distance of

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1170.27' to an iron pin found; Thence with Cornerstone Land Company as recorded in Deed Book R1929, Page 1308 in the Register's Office of Maury County, Tennessee, North 07°16'26" East a distance of 596.79' to an iron pin found; Thence with the same, North 06°38'24" East a distance of 606.84' to an iron pin found; Thence with Cornerstone Land Company as recorded in Deed Book R1955, Page 1143 in the Register's Office of Maury County, Tennessee North 07°04'39" East a distance of 628.00' to an iron pin found; Thence with the same, North 07°16'09" East a distance of 176.33' to an iron pin found; Thence with the same, South 77°31'09" West a distance of 236.82' to an iron pin found; Thence with the same, North 06°31'09" East a distance of 507.53' to an iron pin found; Thence with Cornerstone Land Company as recorded in Deed Book R1929, Page 1308 in the Registers Office of Maury County, Tennessee, North 76°55'59" East a distance of 367.79' to an iron pin found; Thence with the same, North 09°07'01" East a distance of 640.97' to an iron pin found; Thence with the same, North 04°59'02" East a distance of 994.45' to an iron pin found;

Thence with the west line of Cornerstone Land Company as recorded in Deed Book R1837, Page 147 in the Register's Office of Maury County, Tennessee, North 04°59'02" East a distance of 50.00' to an iron pin found;

Thence with the same, North 04°59'02" East a distance of 212.26' to an iron pin found; Thence with the same, North 08°11'49" East a distance of 502.23' to an iron pin found; Thence North 08°11'49" East a distance of 25.00' to the point of beginning, having an area of 6,836,067 square feet, 156.93 acres.

This parcel is subject to any and all easements, restrictions, and/or right of ways either by record and/or prescription that a complete and accurate title search may reveal, there is an apparent TVA easement at the southeast corner of the property as recorded in Deed Book 209, Page 508 in the Registers Office of Maury County, Tennessee.

Note: All deeds referenced above are of record in the Register's Office of Maury County, Tennessee. The above property description was prepared under my direction on this the 29TH day of April 2008. Allen B. O'Leary TN R.L.S. No. 1987

LESS AND EXCEPT

STONE CREEK YMCA PROPERTY

A tract of land located in the 3rd Civil District of Maury County, Tennessee. A portion of Parcel 27 shown on Tax Map 44, Tax Assessor's Office of Maury County, Tennessee. Being a portion of the Rock Creek Development LLC property as recorded in Deed Book R1867. page 893 in the Register's Office of Maury County, Tennessee, and being more particularly described as follows.

Beginning at an iron pin found at the northeast corner of Cornerstone Land Company as recorded in Deed Book R1837, page 147 in the Registers Office of Maury County, Tennessee, said point also being the north west corner of the property herein described;

Thence with the southerly line of Alma Harris, South 82°34'11" East a distance of 1059.54' to an iron pin found;

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Thence with the west line of Jeremy Golden as recorded in Deed Book R1813, page 364 in the Register's Office of Maury County, Tennessee, South 08°30'15" West a distance of 211.62' to an iron pin found;

Thence South 64°33'50" East a distance of 94.48';

Thence with the same, South 04°21'21" West a distance of 168.04' to the center of Rutherford Creek; Thence with the center of Rutherford Creek, South 67°03'20" West a distance of 86.77'; Thence with the same, South 78°34'26" West a distance of 61.11'; Thence with the same, North 87°24'50" West a distance of 59.62'; Thence with the same, South 49°50'50" West a distance of 157.89'; Thence with the same, South 44046139" West a distance of 170.86'; Thence with the same, South 41°23'10" West a distance of 108.29'; Thence with the same, South 53°01'11" West a distance of 107.85'; Thence with the same, South 76°03'26" West a distance of 84.62'; Thence with the same, South 82°56'17" West a distance of 162.03'; Thence with the same, North 89°55'52" West a distance of 75.03'; Thence with the same, North 38°40'43" West a distance of 82.59';

Thence with the same, North 58°11'31" West a distance of 119.00';

Thence with the same, North 39°38'10" West a distance of 106.90';

Thence with the same, North 51°01'40" West a distance of 49.45';

Thence with the same, North 66°27'43" West a distance of 13.59' to a point on the east line of Cornerstone Land Company as recorded in Deed Book R1837, page 147 in the Register's Office of Maury County, Tennessee;

Thence with the east line of Cornerstone, North 04°59'02" East a distance of 240.14' to an iron pin found; Thence North 08°11'49" East a distance of 527.23' to the point of beginning, having an area of 861,609 square feet, 19.78 acres.

This property is subject to a 70' right of way easement along the west property line (approximately 767' in length) for the extension of rice road. This parcel is subject to any and all easements, restrictions, and/or right of ways either by record and/or prescription that a complete and accurate title search may reveal.

Note: The above property description is based on information gathered during the course of an actual field survey conducted by O'Leary and Associates, LLC, under the direction of Allen B. O'Leary, Tennessee Registered Land Surveyor Number 1987. All iron pins set are (1/2)" Rebar, with a plastic cap stamped "O'Leary, RLS 1987". All deeds referenced above are of record in the Register's Office of Maury County, Tennessee. The above property description was prepared under my direction on this the 14TH day of March 2008. Allen B. O'Leary TN R.L.S. No. 1987

LESS AND EXCEPT

The property conveyed to The City of Spring Hill, Tennessee by Warranty Deed from Crestwood Partners, a Tennessee limited liability company, dated 12/28/2016, of record in Book R2409, Page 1342, Register's Office for Maury County, Tennessee, described as:

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ALTA COMMITMENT FOR TITLE INSURANCE
EXHIBIT "A"
LEGAL DESCRIPTION

ISSUED BY
STEWART TITLE GUARANTY COMPANY

Beginning at the center of Rutherford Creek, said point being the south west corner of The City of Spring Hill property as recorded in Deed Book R2337, page 617; Thence with the south line of the City of Spring Hill and generally following the center of Rutherford Creek:

Thence South 66°27'43" East a distance of 13.59; Thence South 51°01'40" East a distance of 49.45; Thence South 39°38'10" East a distance of 106.90'; Thence South 58°11'31" East a distance of 119.00'; Thence South 38°40'43" East a distance of 82.59'; Thence South 89°55'52" East a distance of 75.03'; Thence North 82°56'17" East a distance of 162.03'; Thence North 76°03'26" East a distance of 84.62; Thence North 53°01'11" East a distance of 107.85'; Thence North 41°23'10" East a distance of 108.29; Thence North 44°46'39" East a distance of 170.86; Thence North 49°50'50" East a distance of 157.89'; Thence South 87°24'50" East a distance of 59.62; Thence North 78°34'26" East a distance of 61.11; Thence North 67°03'20" East a distance of 86.77'; Thence North 88°15'37" East a distance of 41.68'; Thence North 36°42'46" East a distance of 62.06; Thence North 42°56'29" East a distance of 75.96; Thence North 41°36'00" East a distance of 80.88; Thence North 50°59'17" East a distance of 92.98; Thence North 47°45'21" East a distance of 198.04; Thence North 59°11'57" East a distance of 40.33';

Thence with the west margin of Interstate 65, South 11°17'52" West a distance of 322.29' to a TDOT concrete monument; Thence South 1P12'20" West a distance of 229.11' to a TDOT concrete monument; Thence South 11°22'20" West a distance of 641.29' to a TDOT concrete monument; Thence South 12°14'44" West a distance of 262.10' to an iron pin set;

Thence severing the property of Crestwood Partners, LLC, North 77°45'16" West a distance of 1,415.17' to an iron pin set; Thence with the east line of Cornerstone Land Company as recorded in Deed Book R1929, page 1308, North 04°59'02" East a distance of 541.45' which is the point of beginning, having an area of 1,072,883 square feet, 24.63 acres.

Note: The above property description is based on information gathered during the course of an actual field survey conducted by WES, Engineers and Surveyors, under the direction of Allen B. O'Leary, Tennessee Registered Land Surveyor Number 1987. All iron pins set are 1/4" Rebar, with a plastic cap stamped "WES 1987". All deeds referenced above (Deed Book, Page) are of record in the Register's Office of Maury County, Tennessee. The above property description was prepared under my direction on this the 19th day of December 2016.

Being part of the same property conveyed to Crestwood Partners, LLC by Warranty Deed from Rock Creek Development, LLC, dated 12/22/2015, of record in Book R2351, Page 835, Register's Office for Maury County, Tennessee.

Being part of the same property conveyed to Crestwood Partners, LLC by Quitclaim Deed from Rock Creek Development, LLC, dated 12/22/2015, of record in Book R2351, Page 840, Register's Office for Maury County, Tennessee.

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ALTA COMMITMENT FOR TITLE INSURANCE
SCHEDULE B PART I

ISSUED BY
STEWART TITLE GUARANTY COMPANY

File No.: 1980259

Requirements

All of the following Requirements must be met:

1. The Proposed Insured must notify the Company in writing of the name of any party not referred to in this Commitment who will obtain an interest in the Land or who will make a loan on the Land. The Company may then make additional Requirements or Exceptions.

2. Pay the agreed amount for the estate or interest to be insured.

3. Pay the premiums, fees, and charges for the Policy to the Company.

4. Documents satisfactory to the Company that convey the Title or create the Mortgage to be insured, or both, must be properly authorized, executed, delivered, and recorded in the Public Records.

5. Record a Warranty Deed from Crestwood Partners, LLC to 360 TN SH, LLC, a Delaware limited liability company conveying the property in Schedule "A".

6. As to Crestwood Partners, LLC (a) Certificate of Existence from the Secretary of State's Office of the state where formed. (b) Copy of the Articles of Organization filed with the Secretary of State's Office where formed, as well as copies of all amendments thereto. (c) Copy of the Operating Agreement of the limited liability company, as well as any amendments thereto. (d) Certificate of the Manager(s) authorizing the transaction and which states that there have been no amendments to the Articles of Organization of Operating Agreement or that copies of all amendments are attached as an exhibit to the Certificate of Manager(s); or require Certificate of all members authorizing transaction. At the time the Company is furnished these items, the Company may make additional requirement or exceptions as deemed necessary.Crestwood Partners, LLC

7. Deed of Trust executed by 360 TN SH, LLC, a Delaware limited liability company to the Proposed Insured encumbering the lands described in Schedule "A".
   NOTE: If the grantors are individuals, and the property is homestead property, the spouse of said grantor must join in the execution of the Deed/Mortgage. If not homestead, then a statement to that effect must be reflected on the Deed/Mortgage.

8. As to 360 TN SH, LLC, a Delaware limited liability company (a) Certificate of Existence from the Secretary of State's Office of the state where formed. (b) Copy of the Articles of Organization filed with the Secretary of State's Office where formed, as well as copies of all amendments thereto. (c) Copy of the Operating Agreement of the limited liability company, as well as any amendments thereto. (d) Certificate of the Manager(s) authorizing the transaction and which states that there have been no amendments to the Articles of Organization of Operating Agreement or that copies of all amendments are attached as an exhibit to the Certificate of Manager(s); or require Certificate of all members authorizing transaction. At the time the Company is furnished these items, the Company may make additional requirement or exceptions as deemed necessary.

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9. No Open Mortgage(s)/Deeds of Trust(s) found of record. Please verify this with the Seller and/or Proposed Insured prior to Settlement.

10. 2023 real property taxes for the County of Maury in the base amount of $2,961.00, were paid on 11/08/2023. All prior years are paid. (Map/Parcel 044 027.00 000; Receipt No. 11529).

11. 2023 real property taxes for the City of Spring Hill in the base amount of $1,146.00, were paid on 12/31/2023. All prior years are paid. (Map/Parcel 044 027.00 000; Receipt No. 2085.0).

12. A Notice and Waiver must be executed by the purchaser/borrower.

13. An owner's affidavit, satisfactory to the Company, must be executed by the Seller/Borrower.

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ALTA COMMITMENT FOR TITLE INSURANCE
SCHEDULE B PART II

ISSUED BY
STEWART TITLE GUARANTY COMPANY

Exceptions

File No.: 1980259

THIS COMMITMENT DOES NOT REPUBLISH ANY COVENANT, CONDITION, RESTRICTION, OR LIMITATION CONTAINED IN ANY DOCUMENT REFERRED TO IN THIS COMMITMENT TO THE EXTENT THAT THE SPECIFIC COVENANT, CONDITION, RESTRICTION, OR LIMITATION VIOLATES STATE OR FEDERAL LAW BASED ON RACE, COLOR, RELIGION, SEX, SEXUAL ORIENTATION, GENDER IDENTITY, HANDICAP, FAMILIAL STATUS, OR NATIONAL ORIGIN.

The Policy will not insure against loss or damage resulting from the terms and provisions of any lease or easement identified in Schedule A, and will include the following Exceptions unless cleared to the satisfaction of the Company:

1. Any defect, lien, encumbrance, adverse claim, or other matter that appears for the first time in the Public Records or is created, attaches, or is disclosed between the Commitment Date and the date on which all of the Schedule B, Part I - Requirements are met.

2. Rights or claims of parties in possession not shown by the public records.

3. Easements, or claims of easements, not shown by the public records.

4. Encroachments, overlaps, boundary line disputes, or other matters which would be disclosed by an accurate survey or inspection of the premises.

5. Any lien, or right to a lien, for services, labor, or material hereto or hereafter furnished, imposed by law and not shown by the public records.

6. Minerals of whatsoever kind, subsurface and surface substances, including but not limited to coal, lignite, oil, gas, uranium, clay, rock, sand and gravel in, on, under and that may be produced from the Land, together with all rights, privileges, and immunities relating thereto, whether or not appearing in the Public Records or listed in Schedule B. The Company makes no representation as to the present ownership of any such interests. There may be leases, grants, exceptions or reservations of interests that are not listed.

7. Restrictions upon the use of the premises not appearing in the chain of title to the land.

8. Taxes for 2024 and subsequent years, a lien not yet due and payable.

9. Grant of Transmission Line Easement including terms and conditions thereof as recorded in Book 209, Page 508.

10. Boundary Line Agreement Easement including terms and conditions thereof as recorded in Book R1955, Page 1138.

11. Title to that portion of the premises, if any, embraced within the bounds of any streets, roads and/or highways.

This page is only a part of a 2016 ALTA® Commitment for Title Insurance. This Commitment is not valid without the Notice; the Commitment to Issue Policy; the Commitment Conditions; Schedule A; Schedule B, Part I - Requirements; and Schedule B, Part II - Exceptions; and a countersignature by the Company or its issuing agent that may be in electronic form.

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12. Any inaccuracy in the area, square footage, or acreage of land described in Schedule A. The company does not insure the area, square footage, or acreage of the land.

13. If improvements are completed after January 1 of any year, the Law requires supplemental assessment for the year in which the improvements are completed as defined by Statute. The Company assumes no liability for taxes assessed by correction pursuant to the provisions of TCA 67-5-603, et seq.

    NOTE: This commitment for Title Insurance does NOT constitute a report of title and is not to be relied upon by the proposed insured(s) or any other party as a title report or representation of the status of title. Any title search and examination conducted by or for the Company in connection with the issuance of this Commitment for Title Insurance, if any is solely for the benefit of the Company. The sole liability of the company and /or its issuing agent hereunder shall be set forth in the Conditions and Stipulations of this Commitment for Title Insurance. Neither the company nor its issuing agent shall be liable to the proposed insured(s) or any other party for any claim of alleged negligence, negligent representation, or any other cause of action in tort in connection with this Commitment for Title Insurance unless a policy of title insurance is purchased.

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STEWART TITLE GUARANTY COMPANY
PRIVACY NOTICE

This Stewart Title Guaranty Company Privacy Notice ("Notice") explains how Stewart Title Guaranty Company and its subsidiary title insurance companies (collectively, "Stewart") collect, use, and protect personal information, when and to whom we disclose such information, and the choices you have about the use and disclosure of your information. Pursuant to Title V of the Gramm-Leach Bliley Act ("GLBA") and other Federal and state laws and regulations applicable to financial institutions, consumers have the right to limit some, but not all sharing of their personal information. Please read this Notice carefully to understand how Stewart uses your personal information.

The types of personal information Stewart collects, and shares depends on the product or service you have requested.

Stewart may collect the following categories of personal and financial information from you throughout your transaction:

1. Identifiers: Real name, alias, online IP address if accessing company websites, email address, account name, unique online identifier, social security number, driver's license number, passport number, or other similar identifiers;

2. Demographic Information: Marital status, gender, date of birth.

3. Personal Information and Personal Financial Information: Name, signature, social security number, physical characteristics or description, address, telephone number, insurance policy number, education, employment, employment history, bank account number, credit card number, debit card number, credit reports, or any other information necessary to complete the transaction.

Stewart may collect personal information about you from:

1. Publicly available information from government records.
2. Information we receive directly from you or your agent(s), such as your lender or real estate broker;
3. Information about your transactions with Stewart, our affiliates, or others; and
4. Information we receive from consumer reporting agencies and/or governmental entities, either directly from these entities or through others.

Stewart may use your personal information for the following purposes:

1. To provide products and services to you or in connection with a transaction.
2. To improve our products and services.
3. To communicate with you about our, our affiliates', and others' products and services, jointly or independently.

Stewart may use or disclose the personal information we collect for one or more of the following purposes:

- To fulfill or meet the reason for which the information is provided.
- To provide, support, personalize, and develop our website, products, and services.
- To create, maintain, customize, and secure your account with Stewart.
- To process your requests, purchases, transactions, and payments and prevent transactional fraud.
- To prevent and/or process claims.
- To assist third party vendors/service providers who complete transactions or perform services on Stewart's behalf pursuant to valid service provider agreements.
- As necessary or appropriate to protect the rights, property or safety of Stewart, our customers or others.
- To provide you with support and to respond to your inquiries, including to investigate and address your concerns and monitor and improve our responses.
- To help maintain the safety, security, and integrity of our website, products and services, databases and other technology-based assets, and business.
- To respond to law enforcement or regulator requests as required by applicable law, court order, or governmental regulations.
- Auditing for compliance with federal and state laws, rules and regulations.

- Performing services including maintaining or servicing accounts, providing customer service, processing or fulfilling orders and transactions, verifying customer information, processing payments.
- To evaluate or conduct a merger, divestiture, restructuring, reorganization, dissolution, or other sale or transfer of some or all of our assets, whether as a going concern or as part of bankruptcy, liquidation, or similar proceeding, in which personal information held by us is among the assets transferred.

Stewart will not collect additional categories of personal information or use the personal information we collected for materially different, unrelated, or incompatible purposes without providing you notice.

Disclosure of Personal Information to Affiliated Companies and Nonaffiliated Third Parties

Stewart does not sell your personal information to nonaffiliated third parties. Stewart may share your information with those you have designated as your agent throughout the course of your transaction (for example, a realtor, broker, or a lender). Stewart may disclose your personal information to a non-affiliated third party for a business purpose. Typically, when we disclose personal information for a business purpose, we enter in a contract that describes the purpose and requires the recipient to both keep that personal information confidential and not use it for any purpose except performing the contract.

We share your personal information with the following categories of third parties:

- Non-affiliated service providers and vendors we contract with to render specific services (For example, search companies, mobile notaries, and companies providing credit/debit card processing, billing, shipping, repair, customer service, auditing, marketing, etc.)
- To enable Stewart to prevent criminal activity, fraud, material misrepresentation, or nondisclosure.
- Stewart's affiliated and subsidiary companies.
- Non-affiliated third-party service providers with whom we perform joint marketing, pursuant to an agreement with them to jointly market financial products or services to you.
- Parties involved in litigation and attorneys, as required by law.
- Financial rating organizations, rating bureaus and trade associations.
- Federal and State Regulators, law enforcement and other government entities to law enforcement or authorities in connection with an investigation, or in response to a subpoena or court order.

The law does not require your prior authorization or consent and does not allow you to restrict the disclosures described above. Additionally, we may disclose your information to third parties for whom you have given us authorization or consent to make such disclosure. We do not otherwise share your Personal Information or Browsing Information with non-affiliated third parties, except as required or permitted by law.

Right to Limit Use of Your Personal Information

You have the right to opt-out of sharing of your personal information among our affiliates to directly market to you. To opt-out of sharing to our affiliates for direct marketing, you may send an "opt out" request to Privacyrequest@stewart.com, or contact us through other available methods provided under "Contact Information" in this Notice. We do not share your Personal Information with nonaffiliates for their use to direct market to you without your consent.

How Stewart Protects Your Personal Information

Stewart maintains physical, technical and administrative safeguards and policies to protect your personal information.

Contact Information

If you have questions or comments about this Notice, the ways in which Stewart collects and uses your information described herein, your choices and rights regarding such use, or wish to exercise your rights under law, please do not hesitate to contact us at:

Phone: Toll Free at 1-866-571-9270

Email: Privacyrequest@stewart.com

Postal Address: Stewart Information Services Corporation
Attn: Mary Thomas, Chief Compliance and Regulatory Officer
1360 Post Oak Blvd., Ste. 100, MC #14-1
Houston, TX 77056

Effective Date: January 1, 2020
Updated: January 1, 2023

Privacy Notice at Collection for California Residents

Pursuant to the California Consumer Privacy Act of 2018 ("CCPA") and the California Privacy Rights Act of 2020, effective January 1, 2023 ("CPRA"), Stewart Information Services Corporation and its subsidiary companies (collectively, "Stewart") are providing this **Privacy Notice at Collection for California Residents** ("CCPA & CPRA Notice"). This CCPA & CPRA Notice supplements the information contained in Stewart's existing privacy notice and applies solely to all visitors, users, and consumers and others who reside in the State of California or are considered California Residents as defined in the CCPA & CPRA ("consumers" or "you"). All terms defined in the CCPA & CPRA have the same meaning when used in this Notice.

Personal and Sensitive Personal Information Stewart Collects

- Publicly available information from government records.
- Deidentified or aggregated consumer information.
- Certain personal information protected by other sector-specific federal or California laws, including but not limited to the Fair Credit Reporting Act (FCRA), Gramm Leach Bliley Act (GLBA) and California Financial Information Privacy Act (FIPA).

Specifically, Stewart has collected the following categories of **personal and sensitive personal information** from consumers within the last twelve (12) months:

Category	Examples	Collected
A. Identifiers.	A real name, alias, postal address, unique personal identifier, online identifier, Internet Protocol address, email address, account name, Social Security number, driver's license number, passport number, or other similar identifiers.	YES
B. Personal information categories listed in the California Customer Records statute (Cal. Civ. Code § 1798.80(e)).	A name, signature, Social Security number, physical characteristics or description, address, telephone number, passport number, driver's license or state identification card number, insurance policy number, education, employment, employment history, bank account number, credit card number, debit card number, or any other financial information, medical information, or health insurance information. Some personal information included in this category may overlap with other categories.	YES
C. Protected classification characteristics under California or federal law.	Age (40 years or older), race, color, ancestry, national origin, citizenship, religion or creed, marital status, medical condition, physical or mental disability, sex (including gender, gender identity, gender expression, pregnancy or childbirth and related medical conditions), sexual orientation, veteran or military status, genetic information (including familial genetic information).	YES
D. Commercial information.	Records of personal property, products or services purchased, obtained, or considered, or other purchasing or consuming histories or tendencies.	YES
E. Biometric information.	Genetic, physiological, behavioral, and biological characteristics, or activity patterns used to extract a template or other identifier or identifying information, such as, fingerprints, faceprints, and voiceprints, iris or retina scans, keystroke, gait, or other physical patterns, and sleep, health, or exercise data.	YES
F. Internet or other similar network activity.	Browsing history, search history, information on a consumer's interaction with a website, application, or advertisement.	YES
G. Geolocation data.	Physical location or movements.	YES

H. Sensory data.	Audio, electronic, visual, thermal, olfactory, or similar information.	YES
I. Professional or employment-related information.	Current or past job history or performance evaluations.	YES
J. Non-public education information (per the Family Educational Rights and Privacy Act (20 U.S.C. Section 1232g, 34 C.F.R. Part 99)).	Education records directly related to a student maintained by an educational institution or party acting on its behalf, such as grades, transcripts, class lists, student schedules, student identification codes, student financial information, or student disciplinary records.	YES
K. Inferences drawn from other personal information.	Profile reflecting a person's preferences, characteristics, psychological trends, predispositions, behavior, attitudes, intelligence, abilities, and aptitudes.	YES

Stewart obtains the categories of personal and sensitive information listed above from the following categories of sources:

- Directly and indirectly from customers, their designees, or their agents (For example, realtors, lenders, attorneys, brokers, etc.)
- Directly and indirectly from activity on Stewart's website or other applications.
- From third-parties that interact with Stewart in connection with the services we provide.

Use of Personal and Sensitive Personal Information

Stewart may use or disclose the personal or sensitive information we collect for one or more of the following purposes:

a. To fulfill or meet the reason for which the information is provided.
b. To provide, support, personalize, and develop our website, products, and services.
c. To create, maintain, customize, and secure your account with Stewart.
d. To process your requests, purchases, transactions, and payments and prevent transactional fraud.
e. To prevent and/or process claims.
f. To assist third party vendors/service providers who complete transactions or perform services on Stewart's behalf pursuant to valid service provider agreements.
g. As necessary or appropriate to protect the rights, property or safety of Stewart, our customers or others.
h. To provide you with support and to respond to your inquiries, including to investigate and address your concerns and monitor and improve our responses.
i. To personalize your website experience and to deliver content and product and service offerings relevant to your interests, including targeted offers and ads through our website, third-party sites, and via email or text message (with your consent, where required by law).
j. To help maintain the safety, security, and integrity of our website, products and services, databases and other technology-based assets, and business.
k. To respond to law enforcement or regulator requests as required by applicable law, court order, or governmental regulations.
l. Auditing for compliance with federal and state laws, rules and regulations.
m. Performing services including maintaining or servicing accounts, providing customer service, processing or fulfilling orders and transactions, verifying customer information, processing payments, providing advertising or marketing services or other similar services.
n. To evaluate or conduct a merger, divestiture, restructuring, reorganization, dissolution, or other sale or transfer of some or all of our assets, whether as a going concern or as part of bankruptcy, liquidation, or similar proceeding, in which personal information held by us is among the assets transferred.

Stewart will not collect additional categories of personal or sensitive information or use the personal or sensitive information we collected for materially different, unrelated, or incompatible purposes without providing you notice.

Disclosure of Personal Information to Affiliated Companies and Nonaffiliated Third Parties

Stewart does not sell your personal information to nonaffiliated third parties. Stewart may share your information with those you have designated as your agent throughout the course of your transaction (for example, a realtor, broker, or a lender). Stewart may disclose your personal information to a third party for a business purpose.

Typically, when we disclose personal information for a business purpose, we enter into a contract that describes the purpose and requires the recipient to both keep that personal information confidential and not use it for any purpose except performing the contract.

We share your personal information with the following categories of third parties:

a. Service providers and vendors we contract with to render specific services (For example, search companies, mobile notaries, and companies providing credit/debit card processing, billing, shipping, repair, customer service, auditing, marketing, etc.)
b. Affiliated Companies.
c. Parties involved in litigation and attorneys, as required by law.
d. Financial rating organizations, rating bureaus and trade associations.
e. Federal and State Regulators, law enforcement and other government entities

In the preceding twelve (12) months, Stewart has disclosed the following categories of personal information for a business purpose:

Category A: Identifiers
Category B: California Customer Records personal information categories
Category C: Protected classification characteristics under California or federal law
Category D: Commercial Information
Category E: Biometric Information
Category F: Internet or other similar network activity
Category G: Geolocation data
Category H: Sensory data
Category I: Professional or employment-related information
Category J: Non-public education information
Category K: Inferences

Your Consumer Rights and Choices Under CPPA and CPRA

Your Rights Under CCPA

The CCPA provides consumers (California residents as defined in the CCPA) with specific rights regarding their personal information. This section describes your CCPA rights and explains how to exercise those rights.

Access to Specific Information and Data Portability Rights

You have the right to request that Stewart disclose certain information to you about our collection and use of your personal information over the past 12 months. Once we receive and confirm your verifiable consumer request, Stewart will disclose to you:

- The categories of personal information Stewart collected about you.
- The categories of sources for the personal information Stewart collected about you.
- Stewart's business or commercial purpose for collecting that personal information.
- The categories of third parties with whom Stewart shares that personal information.
- The specific pieces of personal information Stewart collected about you (also called a data portability request).
- If Stewart disclosed your personal data for a business purpose, a listing identifying the personal information categories that each category of recipient obtained.

Deletion Request Rights

You have the right to request that Stewart delete any of your personal information we collected from you and retained, subject to certain exceptions. Once we receive and confirm your verifiable consumer request, Stewart will delete (and direct our service providers to delete) your personal information from our records, unless an exception applies.

Stewart may deny your deletion request if retaining the information is necessary for us or our service providers to:

1. Complete the transaction for which we collected the personal information, provide a good or service that you requested, take actions reasonably anticipated within the context of our ongoing business relationship with you, or otherwise perform our contract with you.
2. Detect security incidents, protect against malicious, deceptive, fraudulent, or illegal activity, or prosecute those responsible for such activities.
3. Debug products to identify and repair errors that impair existing intended functionality.
4. Exercise free speech, ensure the right of another consumer to exercise their free speech rights, or exercise another right provided for by law.
5. Comply with the California Electronic Communications Privacy Act (Cal. Penal Code § 1546 *seq.*).
6. Engage in public or peer-reviewed scientific, historical, or statistical research in the public interest that adheres to all other applicable ethics and privacy laws, when the information's deletion may likely render impossible or seriously impair the research's achievement, if you previously provided informed consent.
7. Enable solely internal uses that are reasonably aligned with consumer expectations based on your relationship with us.
8. Comply with a legal obligation.
9. Make other internal and lawful uses of that information that are compatible with the context in which you provided it.

Your Rights Under CPRA

CPRA expands upon your consumer rights and protections offered by the CCPA. This section describes your CPRA rights and explains how to exercise those rights.

Opt-Out of Information Sharing and Selling

Stewart does not share or sell information to third parties, as the terms are defined under the CCPA and CPRA. Stewart only shares your personal information as commercially necessary and in accordance with this CCPA & CPRA Notice.

Correction of Inaccurate Information

You have the right to request that Stewart correct any inaccurate information maintained about.

Limit the Use of Sensitive Personal Information

You have the right to limit how your sensitive personal information, as defined in the CCPA and CPRA is disclosed or shared with third parties.

Exercising Your Rights Under CCPA and CPRA

To exercise the access, data portability, deletion, opt-out, correction, or limitation rights described above, please submit a verifiable consumer request to us by the available means provided below:

1. Calling us Toll Free at 1-866-571-9270; or
2. Emailing us at Privacyrequest@stewart.com; or
3. Visiting http://stewart.com/ccpa.

Only you, or someone legally authorized to act on your behalf, may make a verifiable consumer request related to your personal information. You may also make a verifiable consumer request on behalf of your minor child, if applicable.

To designate an authorized agent, please contact Stewart through one of the methods mentioned above.

You may only make a verifiable consumer request for access or data portability twice within a 12-month period. The verifiable consumer request must:

- Provide sufficient information that allows us to reasonably verify you are the person about whom we collected personal information or an authorized representative.
- Describe your request with sufficient detail that allows us to properly understand, evaluate, and respond to it.

Stewart cannot respond to your request or provide you with personal information if we cannot verify your identity or authority to make the request and confirm the personal information relates to you.

Making a verifiable consumer request does not require you to create an account with Stewart.

Response Timing and Format

We endeavor to respond to a verifiable consumer request within forty-five (45) days of its receipt. If we require more time (up to an additional 45 days), we will inform you of the reason and extension period in writing.

A written response will be delivered by mail or electronically, at your option.

Any disclosures we provide will only cover the 12-month period preceding the verifiable consumer request's receipt. The response we provide will also explain the reasons we cannot comply with a request, if applicable. For data portability requests, we will select a format to provide your personal information that is readily useable and should allow you to transmit the information from one entity to another entity without hindrance.

Stewart does not charge a fee to process or respond to your verifiable consumer request unless it is excessive, repetitive, or manifestly unfounded. If we determine that the request warrants a fee, we will tell you why we made that decision and provide you with a cost estimate before completing your request.

Non-Discrimination

Stewart will not discriminate against you for exercising any of your CCPA and CPRA rights. Unless permitted by the CCPA or CPRA, we will not:

- Deny you goods or services.
- Charge you a different prices or rates for goods or services, including through granting discounts or other benefits, or imposing penalties.
- Provide you a different level or quality of goods or services.
- Suggest that you may receive a different price or rate for goods or services or a different level or quality of goods or services.

Record Retention

Your personal information will not be kept for longer than is necessary for the business purpose for which it is collected and processed. We will retain your personal information and records based on established record retention policies pursuant to California law and in compliance with all federal and state retention obligations. Additionally, we will retain your personal information to comply with applicable laws, regulations, and legal processes (such as responding to subpoenas or court orders), and to respond to legal claims, resolve disputes, and comply with legal or regulatory recordkeeping requirements

Changes to This CCPRA & CPRA Notice

Stewart reserves the right to amend this CCPA & CPRA Notice at our discretion and at any time. When we make changes to this CCPA & CPRA Notice, we will post the updated Notice on Stewart's website and update the Notice's effective date.

Link to Privacy Notice

Stewarts Privacy Notice can be found on our website at https://www.stewart.com/en/privacy.html.

Contact Information

If you have questions or comments about this notice, the ways in which Stewart collects and uses your information described herein, your choices and rights regarding such use, or wish to exercise your rights under California law, please do not hesitate to contact us at:

Phone: Toll Free at 1-866-571-9270

Website: http://stewart.com/ccpa

Email: Privacyrequest@stewart.com

Postal Address: Stewart Information Services Corporation
Attn: Mary Thomas, Chief Compliance and Regulatory Officer
1360 Post Oak Blvd., Ste. 100, MC #14-1
Houston, TX 77056

Pinnacle

150 3rd Avenue South, Suite 900
Nashville, TN 37201
800.264.3613 www.pnfp.com

Wire Transfer of Funds Notice

Outgoing Domestic Wire

Deposit Account

XXXXXXXXXXXXXX0782

TENNESSEE, CITY OF SPRING HILL
POOLED CASH ACCOUNT
PO BOX 789
SPRING HILL, TN 37174

Processing Date: 3/06/2025
Time: 2:54PM
Batch: 505 FEDLINE OL Dom 505

The Following Information Was Sent For: Regular Transfer of Funds

Originator: ID#: XXXXXXXXXXXXXX0782
Tennessee, City of Spring Hill
Pooled Cash Account
PO Box 789
Spring Hill, TN 37174

Wire Amount: $40,000.00

Beneficiary: ID#: XXXXXXXXXXXXXX2285
United Community Bank
125 Highway 515 East
Blairsville GA 30512 US

Wire Charged To: XXXXXXXXXXXXXX0782

IMAD: 20250306MMQFMPLX001285

Additional Wire Information:

Reference: 20250306002803 Originator to Ben: Deposit, Please advise Jeanie Davis at 931.548.0819 upon receipt
Receiving Bank: 0611-1284-3 UNITED COMMUNITY BANK

Docusign Envelope ID: 3E6668CC-F71A-4F31-9818-24254903CA27

ASSIGNMENT AND ASSUMPTION OF CONTRACT FOR PURCHASE OF REAL ESTATE

This Assignment and Assumption of Contract for Purchase of Real Estate (this "Assignment") is made by and between **360 TN SH, LLC** ("Assignor"), a Delaware limited liability company, and the City of Spring Hill, Tennessee ("Assignee"), and effective as of the date last signed by Assignor and Assignee (the "Effective Date"). Assignor and Assignee are collectively referred to herein as the "Parties."

WHEREAS, Assignor, as "Buyer", and **Crestwood Partners, LLC** ("Seller"), a Tennessee limited liability company, as "Seller", entered into that certain Contract for Purchase of Real Estate (the "Contract") with an effective date of March 21, 2023 for the sale and purchase of approximately 111 acres located in Spring Hill, Maury County, Tennessee (the "Property"), as further set forth in the Contract; and

WHEREAS, Assignor desires to assign to Assignee, and Assignee desires to accept from Assignor all of Assignor's right, title, and interest in, to, and under the Contract, upon the terms and conditions set forth herein below.

Agreement

NOW, THEREFORE, in consideration of the mutual covenants herein contained, the receipt and sufficiency of which are hereby acknowledged, it is agreed as follows:

1. **Affirmation of Recitals**. The Parties acknowledge and agree that the recitals set forth above are true and correct to the best of their knowledge, information, and belief; and the Parties acknowledge that these representations are material terms of this Assignment.

2. **Defined Terms**. Capitalized terms which are not otherwise defined herein have the meaning assigned to such terms in the Contract.

3. **Assignor Representations and Warranties**. Assignor represents and warrants to Assignee as of the Effective Date that:

   a. A true, correct, and complete copy of the Contract and exhibit thereto, the First Amendment to the Contract, and the three (3) Approval Period Extension notices exercised and delivered as of the Effective Date are attached hereto as collective **Exhibit A** and, except as shown therein, the Contract has not been modified, amended, or terminated in any way, orally or in writing, and is in full force and effect.

   b. Seller has not issued any notice under the Contract claiming that Assignor is in default under the Contract, there has been no default by Seller or Assignor under the Contract, and no event has occurred which with notice or lapse of time (or both) would cause a default to occur thereunder.

consuming, and difficult, if not impossible, (b) the amount of the Assignment Purchase Price, constitutes a good faith estimate by the Parties of the damages to Assignor that would arise from a default by Assignee; and (c) this agreed and stated amount is intended not as a penalty but as fully liquidated damages to Assignor for a default by Assignee.

8. **Memorandum of Understanding**. Assignee acknowledges and agrees that as of the Effective Date of this Assignment, the Memorandum of Understanding dated May 6, 2024 (the "MOU") is terminated and of no further force or effect. The Parties and, as applicable, their owners, officers, employees, representatives, successors and assigns, do hereby release, acquit and forever hold harmless each other from any and all claims, actions, demands, rights, damages, costs, expenses, loss of income or compensation, which either Assignor or Assignee now has or which may hereinafter accrue on account of, or in any way grow out of, any and all, known and unknown, foreseen and unforeseen, injuries or damages of any kind whatsoever, and the consequences thereof, in connection with the MOU.

9. **Indemnification**. To the fullest extent permitted by law, Assignor, for itself and for its agents, representatives, employees, independent contractors or any other person or entity acting for or on its behalf, agrees to indemnify and hold harmless the Assignee from all claims, liabilities, or out of pocket damages whether in tort, contract, or otherwise arising out of or related to actions or inaction by Assignor in connection with or arising out of the Contract (collectively, "Claims"), but only to the extent the Claims occurred prior to the Effective Date of this Assignment and have not arisen from or in connection with the negligent acts, errors, or omissions of Assignee occurring after the Effective Date of this Assignment.

10. **Notices**. All notices, requests, approvals, consents, and other communications required or permitted under this Assignment must be given in writing and shall be deemed made on the date of hand delivery, the date of electronic transmittal, or the day after deposit of certified or registered, return receipt U.S. Mail or next day delivery by other reputable parcel service to the Party at the address or contact information set forth below. The Parties shall be responsible for notifying each other in writing of any change of address and contact information.

If to Assignee:
City of Spring Hill
Attn: Chris Clausi, Interim City Manager
8060 Station Hill Drive
Spring Hill, TN 37174
Email: cclausi@springhilltn.org

with a copy to:
City of Spring Hill
Attn: Patrick Carter, City Attorney
Email: pcarter@mtlawgroup.net

If to Assignor
360 TN SH, LLC
Attn: Randy Teteak and Amy Hendrick
500 Boylston Street, Suite 2010
Boston, MA 02116
Email: rwt@freeholdcm.com and abh@freeholdcm.com

Docusign Envelope ID: 3E6668CC-F71A-4F31-9818-24254903CA27

IN WITNESS WHEREOF, the Parties have caused this Assignment to be executed, effective on the last date shown below.

ASSIGNOR:

360 TN SH, LLC,
a Delaware limited liability company

By: DocuSigned by: 912445A55A4745E...

Print Name: casey tischer

Its: Authorized Signatory

Date: 03 / 05 / 25

ASSIGNEE:

City of Spring Hill, Tennessee

By: _____

Print Name: Jim Hagaman

Its: MAYOR

Date: 3 / 6 / 2025

Docusign Envelope ID: 3E6668CC-F71A-4F31-9818-24254903CA27

DocuSign Envelope ID: 3B0EF70A-DAFC-4AF4-AD4E-3DFA0CA5C3FA

CONTRACT FOR PURCHASE OF REAL ESTATE

THIS CONTRACT FOR PURCHASE OF REAL ESTATE (the "***Contract***") by and between **Crestwood Partners, LLC**, a Tennessee limited liability company (the "***Seller***"), and **360 TN SH, LLC**, a Delaware limited liability company, and its successors and/or assigns (the "***Buyer***").

WITNESSETH

For and in consideration of Ten dollars ($10.00) paid to Seller by Buyer, the covenants herein contained and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Seller and Buyer agree as follows:

1. **Sale and Purchase.** Subject to and in accordance with the terms of this Contract, Seller agrees to sell to Buyer, and Buyer agrees to purchase from Seller, that certain real property more or less identified as one (1) parcel in **Maury County, Parcel 27.00, Tax Map 44,** located against I-65, in Maury County, Tennessee, with the total purchase being for approximately **111** +/- acres and as depicted in Exhibit A, together with all buildings, structures, fixtures, crops, timber, and other improvements thereon and including all mineral rights, development rights, zoning, easements, interests, privileges, tenements and hereditaments appurtenant thereto (collectively, the "***Property***").

2. **Purchase Price.** The Purchase Price for the Property will be Six Million Two Hundred Twenty-Five Thousand Six Hundred Ninety-Four and 00/100 Dollars **($6,225,694)** (the "***Purchase Price***"), adjusted to **$56,087.33** per acre. The exact acreage of the Property shall be determined by a Survey, to be prepared and the Survey stamped by a reputable registered state licensed land surveyor. The Purchase Price shall be adjusted up or down and determined by the exact acreage in the Survey all subject to the contingencies as set forth in this contract. At Closing, as defined herein, the Purchase Price shall be payable by Buyer to Seller in cash by wire transfer, subject to closing adjustments as set forth herein.

3. **Earnest Money.**

(a) Within Thirty (30) days after the Effective Date, Buyer shall deposit Fifty Thousand and No/100 Dollars **($50,000.00)** of the Purchase Price (the "***Earnest Money***"). The Earnest Money shall be deposited with Stewart Title, Southland Division, attention Jennifer Dunlap Stacey, with an address of 7101 Executive Center Drive, Suite 151, Brentwood, Tennessee 37027 ("***Escrow Agent***"), which amount, plus all interest earned thereon, is referred to in this Contract as the "Earnest Money". Subject to Section 3(b) hereof, the Earnest Money shall be paid to Seller and credited against the Purchase Price at Closing. If this Contract is terminated, the Earnest Deposit shall be disbursed in accordance with the applicable terms as stated herein.

(b) The Earnest Money shall be released to Seller and become non-refundable (except in the case of Seller default or as otherwise provided in this Contract) as follows:

(i) $10,000 upon approval by the City of Spring Hill, Tennessee (the "***City***") of Buyer's Water and Sewer Analysis, allowing for not less than 1,096 units, the mix of which shall be subject to Buyer's approval in its sole discretion;

(ii) $10,000 upon approval by the City of Buyer's Development Site Plan and/or Preliminary Development Plan and/or Planned Development Preliminary Plan, as applicable;

(iii) $10,000 upon completion of a Traffic Impact Study conducted and approved by the City and acceptable to Buyer in Buyer's sole discretion;

(iv) $10,000 upon City approval of Buyer's Final Plat and/or Planned Development Final Plan; and

the Extension Money(s). Such Extension Money(s) shall: (i) be credited against the Purchase Price at Closing and; (ii) be nonrefundable to Buyer except in the event of a default by Seller.

7. **Cooperation.** Within Thirty (30) business days after the Effective Date, Seller shall furnish Buyer with a copy of all materials related to the development or physical condition of the Property in Seller's possession or control, including, but not limited to, development agreements, annexation agreements, utility information, engineering plans, market studies, plats, surveys, soil test results, geotechnical reports, wetlands assessments, hydrological assessments, drainage analyses, endangered species, archeological assessments and environmental information. Seller shall promptly furnish Buyer with any other information related to the Property that Buyer may request, in writing, if the same is within Seller's possession or control. In addition, Buyer and its agents, employees, contractors and representatives shall have the right to enter upon the Property for purposes of inspecting the same and performing tests, surveys, geotechnical reviews, soil tests, site assessments and engineering, environmental audits and borings, feasibility studies and other similar activities. Buyer shall indemnify and save Seller harmless from and against any and all actual damages resulting from any inspection activity engaged in or upon the Property by the Buyer or its agents, employees, contractors and representatives on the Property with the permission, or at the direction of, the Buyer. As a result of Buyer's inspection, the Buyer will reasonably restore the Property. Between the Effective Date and the Closing, Seller shall not cause or permit any waste or damage to occur to the Property or allow the Property to be encumbered in any manner, make any changes, alterations or additions to the Property, or enter into any covenant, condition, restriction, easement, lease or other agreement which affects or could affect the Property.

8. **Title and Survey.** As part of its review of the Property, during the Approval Period, Buyer may obtain, at Buyer's cost and expense, (i) a commitment for an ALTA Owner's Extended Coverage Policy of Title Insurance (Form 1992) showing the status of title to the Property (the ***"Commitment"***) and (ii) a ALTA survey of the Property prepared and certified by a Tennessee Land Title Surveyor indicating to the nearest one one-hundredth (1/100) of an acre the total number of acres and/or fraction thereof contained in the Property (the ***"Survey"***). The legal description established by the survey shall be used to convey Seller's title in the Property to Buyer. The Survey shall include the amount of square footage, registered historical property or buildings, current zoning, location of any improvements should they exist, all recorded and apparent easements (including easements for utilities and right of ways), 100-year flood plain contour line, floodway contour line, topographical contour lines, right-of-way and encroachments. In the event that the transaction contemplated by this Contract is consummated, Buyer shall receive a credit at Closing for the expense of the ALTA Survey, Topographical Survey and Commitment. If Buyer has any objections to the status of title to the Property (including, but not limited to, the exceptions and requirements set forth in the Commitment) or to matters shown on the Survey including, but not limited to, encroachments across the boundaries of the Property, impermissible encroachments on to easements affecting the Property, boundary line disputes, gaps or gores in the Property or intervening strips owned by others within boundaries of the Property (collectively, the "***Objections***"), Buyer shall give Seller written notice of the same no later than fifteen (15) days after the receipt of the Commitment and the Survey. Seller agrees to use its best efforts to cure the Objections to Buyer's satisfaction within thirty (30) days after receipt of such written notice, and Seller agrees to satisfy all of the requirements set forth on Schedule B, Section 1 of the Commitment at or prior to Closing. If Buyer notifies Seller of any Objections on or before the date the Approval Period expires, then the Approval Period shall automatically be extended by the number of days that it takes Seller to cure such Objections to Buyer's satisfaction; provided in no event shall the Approval Period be extended by more than forty-five (45) days as a result of the operation of this provision. At the Closing, Seller agrees to pay the premium for an Owner's Policy of Title Insurance (the "***Title Policy***") issued to Buyer based on the Commitment. The coverage afforded by the Title Policy shall equal the Purchase Price, and the Title Policy shall contain such endorsements as Buyer may reasonably require. If Seller fails to cure any of the Objections to Buyer's satisfaction, as determined by Buyer in its sole and absolute discretion, within such forty-five (45) days, then Buyer may, in addition to any other remedies available hereunder or at law or in equity, (i) terminate this Contract by giving written notice to Seller prior to Closing, in which case the Earnest Money and Extension Money(s) shall be immediately refunded to Buyer, or (ii) waive the uncured Objections and proceed to Closing.

9. **Sellers Representations and Warranties.** Seller hereby represents and warrants to Buyer as of the date of this Agreement, as follows:

11. **Monetary Liens.** At or prior to Closing, Seller shall cause all liens, monetary judgments, mortgages, deeds of trust, security interests and other similar encumbrances affecting the Property (collectively "***Monetary Liens***") to be released and discharged. In the event Seller fails to cause all Monetary Liens to be released and discharged by Closing, Buyer may, in addition to any of the other remedies available hereunder or at law or in equity, take all actions necessary to cause such Monetary Liens to be released and discharged and offset the cost thereof against the Purchase Price.

12. **Closing.** If at the end of the Approval Period, as may be extended, the Buyer has not previously provided written notice to terminate the Contract, and the Buyer opts to proceed to Closing, the Buyer shall so notify Seller, in writing of its intention to Close on or before the date the Approval Period, as may be extended, is then set to expire (the "***Notice to Close***"). The exact time, date and location of the Closing shall be determined between Buyer and Seller, and Buyer may schedule the Closing for any date prior to thirty (30) days after the end of the Approval Period, as may be extended. At the Closing, Seller shall deliver the following items to Buyer, properly executed and notarized and in form and substance acceptable to Buyer:

(i) A general warranty deed conveying good and marketable fee simple absolute estate in the Property to Buyer with vacant possession, together with (A) all rights, easements, interests, privileges, tenements and hereditaments appurtenant to Property, and (B) all of Seller's right, title and interest, whether now or hereafter acquired, in the land lying beneath the roads, streets, highways, avenues and alleys adjoining the Property. The Property shall be conveyed to Buyer (and the warranties contained in the aforementioned deed shall be made) subject only to the matters shown on Schedule B-Section II of the Commitment (except the standard exceptions, matters no longer affecting the Property and Monetary Liens).

(ii) Recorded or recordable releases terminating and releasing all Monetary Liens.

(iii) An owner's affidavit for purposes of having the exceptions for mechanics' and materialmen's liens, the rights of parties in possession and unrecorded matters deleted from the Commitment, and any other documents, certificates and indemnity agreements that the title company requires to issue the revised version of the Commitment described herein.

(iv) All other documents reasonably requested by Buyer to carry out the transaction contemplated by this Contract, including, but not limited to, an IRS §1445 Certificate.

(v) If the description of the Property set forth on the Survey differs from the description of the Property attached as **Exhibit A**, the deed described in (i) of this Section shall be prepared utilizing the description of the Property set forth on the Survey and Seller shall execute a quitclaim deed conveying the Property as described on **Exhibit A** to Buyer. Immediately upon the completion of the Closing, Seller shall deliver exclusive possession of Property to Buyer.

13. **Closing Costs and Prorations.** Each of the parties shall pay the attorneys' fees that it incurs in connection with the transaction contemplated by this Contract. At Closing, Seller shall pay all transfer taxes and recording costs associated with the conveyance of the Property to Buyer. Assessments (general and special, public and private) and real property taxes (collectively, "***Property Taxes***") levied against the Property for the year in which the Closing takes place shall be prorated between the parties and paid at Closing, and Seller shall also pay any unpaid Property Taxes levied against the Property that are attributable to prior years at such time. If the Property is considered part of a larger tract for purposes of any Property Tax, then such Property Tax shall be paid at Closing, with the portion thereof attributable to the Property (on a per acre basis) being allocated between the parties as provided above and Seller paying the remainder. If any Property Tax to be paid by the parties hereunder cannot be paid at Closing, Buyer shall receive a credit against the Purchase Price equal to Seller's share thereof, and Buyer shall thereafter be responsible for paying the same; provided if such credit is not sufficient to pay Seller's share of the Property Tax in question, Seller shall pay the remainder of its share thereof to Buyer, upon demand. If the amount of any Property Tax is not known with certainty as of the Closing, the same shall be estimated based on the best available information, with adjustment between the parties as soon as reasonably possible. The provisions of this section shall survive the Closing and the delivery of the deed.

basis, in which case Buyer shall have the right to control all matters related to such taking (including, but not limited to, the negotiation, contest and settlement of condemnations awards) and, at Closing, Seller shall tender to Buyer all awards which it has received on account of such taking and assign to Buyer all of Seller's right, title and interest in and to any unpaid awards payable on account of such taking. If such assignment is prohibited or would impair recovery, then, in lieu thereof, Seller shall tender to Buyer all amounts paid on account of such taking as soon as it receives the same. The provisions of this section regarding Seller's obligation to tender unpaid condemnation awards to Buyer shall, if applicable, survive the Closing and the delivery of the deed conveying the Property to Buyer.

19. **Approvals & Notices.** Notices given pursuant to this Contract shall be in writing, delivered in person, by certified mail, return receipt requested, addressed to the mailing address given herein or by overnight courier. The time of the postmark shall be deemed the time of receipt of mailed notices. With respect to any approval or consent which is required on the part of the Buyer or Seller under the terms of the Contract or any notice which is given or required to be given or any consultation which is required to be made, the Buyer and Seller, do hereby constitute and appoint **EDWARD W. GRATZ** for Seller and **CASEY TISCHER** for Buyer as their sole and exclusive representative for all such purposes.

If to Buyer:
360 TN SH, LLC
Attention: Casey Tischer
500 Boylston Street, Suite 2010
Boston, MA 02116
Phone: (617) 221-8402
Email: CT@freeholdcm.com

with copy to:
Land Management Group, Inc.
Attn: Bill Charles
357 Riverside Drive, Suite 210
Franklin, TN 37024
Phone: 615-260-5316
Email: bill@land-management.com

and to

Bulso PLC
Attn: Gino Bulso
155 Franklin Road, Suite 400
Brentwood, TN 37027
Phone: 615-913-5200
Email: gbulso@bulso.com

with copy: to:
Stewart Title
Attention: Jennifer Dunlap Stacey
7101 Executive Center Drive, #151
Brentwood, TN 37027
Phone: 615-370-5170
Email: Jennifer.Stacey@stewart.com

If to Seller:
Crestwood Partners, LLC
Attention: Edward W. Gratz
8210 W. Allerton Ave
Greenfield, WI 53220
Phone:262-251-1901
Email: ewgratz@fibreforminc.com

with copy to:
Kriger Law Office
Attention: Alvin Kriger
150 N Sunnyslope Rd
Suite 270
Brookfield, WI 53005
Phone: 262-641-0400
Email: ahk@krigerlaw.com

20. **Miscellaneous.** Risk of Loss. Seller shall bear the risk of loss or damage to the Property until the completion of the Closing.

20.1 Brokerage Agency and Commission: Seller and Buyer mutually acknowledge and represent that they have dealt with no brokers in connection with this transaction, except for Buyer's Agent Bill Charles designated by Builder Services and Troy Charlton designated by Century 21 Charlton Realty located at 461 Bell Rd, Nashville, TN 37217 for which Buyer shall be exclusively responsible to pay a commission at Closing for an amount of one and one-

receive from the other party all costs and expenses, including reasonable attorneys' and other fees, incurred by the prevailing party in connection with such action or proceeding. The term "attorneys' and other fees" shall mean and include attorneys' fees, accountants' fees, and any and all other similar fees incurred in connection with the action or proceeding and preparations therefor. The term "action or proceeding" shall mean and include actions, proceedings, suits, arbitrations, appeals and other similar proceedings.

20.7 Exhibits. Buyer and Seller hereby acknowledge and agree that all exhibits referenced in this Contract are attached hereto and incorporated herein.

20.8 Refund of Earnest Money and Extension Money(s). All the terms of this Contract related to the refund of the Earnest Money and Extension Money(s) shall survive the termination hereof.

20.9 Submission. The submission of this Contract does not constitute an offer and shall only be binding once it has been executed and delivered by both Seller and Buyer. If requested by the Buyer, Seller will execute a recordable abstract of this Contract for purpose of recording and acknowledging the execution of same.

20.10 Counterparts. This Contract may be executed in counterparts and, when counterparts of this Contract have been executed and delivered by both of the parties hereto, this Contract shall be fully binding and effective, just as if both of the parties hereto had executed and delivered a single counterpart hereof. Without limiting the manner in which execution of this Contract may otherwise be effected hereunder, execution by either party may be effected by electronic transmission of a signature page hereof executed by such party. If either party effects execution in such manner, such party shall also promptly deliver to the other party the counterpart physically signed by such party, but the failure of such party to do so shall not invalidate the execution hereof effected by electronic transmission.

20.11 1031 Exchange. Either party may engage in an exchange of like-kind property pursuant to Section 1031 of the Internal Revenue Code of 1986, as amended, utilizing a "qualified intermediary", as such term is defined under Treas. Reg. § 1.1031(k)-1(g)(4), in connection with its purchase or sale of the Property, as applicable. If Seller or Buyer elects to engage in such a like-kind exchange, (i) it may assign its right, title and interest in this Contract to a qualified intermediary in order to facilitate the exchange, provided it shall remain primarily responsible for fulfilling its obligations and liabilities hereunder, (ii) the other party shall have no recourse whatsoever as against the qualified intermediary, and (iii) the other party shall execute any documents necessary in connection with the exchange so long as the same do not increase its obligations or decreases its rights under this Contract. Notwithstanding anything to the contrary, neither party shall be required to incur any cost or liability in connection with a like-kind exchange being conducted by the other party nor shall either party be required to take title to any other property in connection with a like-kind exchange being conducted by the other party.

20.12 Waiver of Jury Trial. Seller and Buyer hereby expressly waive their right to a trial by jury of any claim (i) arising under this Contract, or (ii) connected with or related to the transaction contemplated by this Contract, whether now existing or hereafter arising. Seller or Buyer may file an original or a copy of this Section 20.12 with any court as written evidence of the foregoing waiver.

20.13 Waiver, Consent and Remedies. Either party may specifically and expressly waive in writing any breach by the other party of any provision of this Agreement, but no such waiver shall constitute a further or continuing waiver of any preceding or succeeding breach of the same or any other provision. A waiving party may at any time thereafter require further compliance by the other party with any breach so waived. The consent by one party to any act by the other for which such consent was required shall not be deemed to imply consent or waiver of the necessity of obtaining such consent for the same or any similar acts in the future. No waiver or consent shall be implied from silence or any failure of a party to act, except as otherwise specified in this Agreement.

20.14 Further Documents and Acts. Each of the parties hereto agrees to cooperate in good faith with each other, and to execute and deliver such further documents and perform such other acts as may be reasonably necessary or appropriate to consummate and carry into effect the transactions contemplated under this Agreement.

Docusign Envelope ID: 3E6668CC-F71A-4F31-9818-24254903CA27

DocuSign Envelope ID: 3B0EF70A-DAFC-4AF4-AD4E-3DFA0CA5C3FA

[Signature page to Contract for Purchase of Real Estate]

IN WITNESS WHEREOF, the Buyer and Seller hereto have signed this Contract on the day and year indicated hereinabove.

SELLER: Crestwood Partners, LLC.

DocuSigned by:
Edward W. Gratz Sr.
F0F51F8295974 18

By: Edward W. Gratz
Its: Owner

Date: March 21, 2023

BUYER: 360 TN SH, LLC,
a Delaware limited liability company

DocuSigned by:
[signature]
812478E4C1745E...

By: Thomas C. Tischer
Its: Authorized Signatory

Date: March 17th, 2023

ESCROW CONSENT

Stewart Title, Southland Division, the Escrow Agent under this Agreement, hereby agrees to (i) accept the foregoing Agreement, (ii) be Escrow Agent under the Agreement, and (iii) be bound by the Agreement in the performance of its duties as Escrow Agent. Pursuant to this Agreement, _____, is the date of the Opening of Escrow and the Escrow Number for this transaction is _____.

"Escrow Agent"

Dated: _____, 2023

By: _____
Jennifer Dunlap Stacey
Its: _____

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REAL-ESTATE AGENCY DISCLOSURE

Bill Charles, Builder Services, Troy Charlton and Century 21 Charlton Realty as mentioned in **Section 20.1** of this agreement hereby agrees to serve as the designated agent as for the Buyer in this transaction pursuant to the National Association of Realtors Code of Ethics and Standards of Practice.

Dated: 3/22/2023, 2023 By: _____
Troy Charlton
Its: _____

Dated: _____, 2023 By: _____
Bill Charles
Its: _____

Docusign Envelope ID: 3E6668CC-F71A-4F31-9818-24254903CA27

Docusign Envelope ID: EBC1A8E9-56A3-4D34-BCC3-FD211203FE3F

FIRST AMENDMENT TO CONTRACT FOR PURCHASE OF REAL ESTATE

This First Amendment to Contract for Purchase of Real Estate (this "First Amendment") is made by and between **Crestwood Partners, LLC**, a Tennessee limited liability company ("Seller"), and **360 TN SH, LLC**, a Delaware limited liability company, and its successors and/or assigns ("Buyer") and effective as of the 27th day of February, 2025. Buyer and Seller are collectively referred to herein as the "Parties."

Recitals

WHEREAS, the Parties previously entered into that certain Contract for Purchase of Real Estate (the "Contract") with an effective date of March 21, 2023 for the sale and purchase of approximately 111 acres located in Spring Hill, Maury County, Tennessee (the "Property"), as further set forth in the Contract; and

WHEREAS, the Parties desire to amend the Contract as further set forth herein.

Amendment

NOW, THEREFORE, in consideration of the mutual covenants and agreements contained herein, and other good and valuable consideration, the receipt, adequacy, and sufficiency of which are hereby acknowledged, the Parties hereby agree as follows:

1. The Parties acknowledge and agree that the recitals set forth above are true and correct to the best of their knowledge, information, and belief and that these representations are material terms of this First Amendment.

2. All capitalized terms defined in the Contract shall have the same meaning when used in this First Amendment.

3. The Parties acknowledge and agree that the Survey of the Property reflects that the total acreage is 112.57. Consistent with Section 2 of the Contract, the Purchase Price is increased to $6,313,750.74.

4. The Parties agree to substitute the Escrow Agent and Title Company set forth in the Contract with the following:

> Middle Tennessee Law Group, PLLC, Attn: Jeanie Davis, 809 S Main, Suite 100, Columbia, TN 38401; 931-548-0819; jdavis@mtlawgroup.net.

Any and all references in the Contract, as amended shall mean are refer to Middle Tennessee Law Group, PLLC as set forth above.

5. The Escrow Agent identified in the Contract is hereby directed to transfer all funds on deposit in connection with the Contract to the substituted Escrow Agent. Any cost incurred

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Docusign Envelope ID: EBC1A8E9-56A3-4D34-BCC3-FD211203FE3F

IN WITNESS WHEREOF, the Parties have caused this First Amendment to be executed on the date first shown herein above.

SELLER:

Crestwood Partners, LLC,
a Tennessee limited liability company

By: Signed by: Edward W. Gratz Sr. F0F51F029597412...

Print Name: Edward W. Gratz Sr.

Its: Manager

BUYER:

360 TN SH, LLC,
a Delaware limited liability company

By: DocuSigned by: 012445A55A4745E...

Print Name: casey tischer

Its: Authorized Signatory

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DocuSign Envelope ID: 28EA8868-D6BD-4733-AE3C-79036766D7F5

Cc: ***VIA EMAIL (ahk@krigerlaw.com)***
Kriger Law Office
150 N Sunnyslope Rd, Suite 270
Brookfield, WI 53005
Attn: Alvin Kriger

VIA EMAIL (bill@land-management.com)
Land Management Group, Inc.
357 Riverside Dr, Suite 210
Franklin, TN 37024
Attn: Bill Charles

VIA EMAIL (gbulso@bulso.com)
Bulso PLC
155 Franklin Rd, Suite 400
Brentwood, TN 37027
Attn: Gino Bulso

VIA EMAIL (alexis.cantrell@stewart.com)
Stewart Title
7101 Executive Center Dr, #151
Brentwood, TN 37027
Attn: Alexis Cantrell

Amy Hendrick (abh@freeholdcm.com)
Andy Smith (ats@freeholdcm.com)
Mike Walline (mvw@freeholdcommunities.com)

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Docusign Envelope ID: 661C079F-EC68-4150-B61B-79FF61D75F69

Cc: ***VIA EMAIL (ahk@krigerlaw.com)***
Kriger Law Office
150 N Sunnyslope Rd, Suite 270
Brookfield, WI 53005
Attn: Alvin Kriger

VIA EMAIL (bill@land-management.com)
Land Management Group, Inc.
357 Riverside Dr, Suite 210
Franklin, TN 37024
Attn: Bill Charles

VIA EMAIL (gbulso@bulso.com)
Bulso PLC
155 Franklin Rd, Suite 400
Brentwood, TN 37027
Attn: Gino Bulso

VIA EMAIL (alexis.cantrell@stewart.com)
Stewart Title
7101 Executive Center Dr, #151
Brentwood, TN 37027
Attn: Alexis Cantrell

Amy Hendrick (abh@freeholdcm.com)
Andy Smith (ats@freeholdcm.com)
Mike Walline (mvw@freeholdcommunities.com)

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Docusign Envelope ID: CD1093E8-534B-482A-8E73-336565D32C25

Cc: ***VIA EMAIL (ahk@krigerlaw.com)***
Kriger Law Office
150 N Sunnyslope Rd, Suite 270
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Attn: Alvin Kriger

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7101 Executive Center Dr, #151
Brentwood, TN 37027
Attn: Alexis Cantrell

Amy Hendrick (abh@freeholdcm.com)
Andy Smith (ats@freeholdcm.com)
Mike Walline (mvw@freeholdcommunities.com)

Post Closing/Policies: Trish Shearn at tshearn@mtlawgroup.net

From: Dan Allen <dan.allen@springhilltn.org>
Sent: Thursday, March 6, 2025 10:18 AM
To: April Goad <agoad@springhilltn.org>; Rebecca Holden <rholden@springhilltn.org>; Patrick Carter <pcarter@mtlawgroup.net>; Jeanie Davis <jdavis@mtlawgroup.net>
Cc: Chris Clausi <cclausi@springhilltn.org>
Subject: StoneCreek Executed Assignment and Purchase Agreement

Good Morning,

Please find attached executed agreement by all parties for purchase of StoneCreek property. The expected timeline for closing is sometime in May after BOMA appropriates the funds in Budget Amendment #3 in April. We need to go ahead and update the title policy prior to closing as well.

I plan to send written notice to exercise the next extension, which requires a deposit of $40,000 per the attached by March 10. On the City side, we will code the $40,000 deposit to 410-52620-59111, which is the land acquisition object code under the reservoir project. For Budget Amendment #3, we will add an expense in the amount of $8,350,000 to the same line item, which covers all costs including assignment fee, closing, and contingency. Additionally, we will need to show a transfer of the same dollar amount out of the sewer development fees fund and a transfer into the main 410 fund.

April has wiring instructions for the title company trust account, as I believe it is the same one we used to close the Hood property last year. I would like to go ahead and get the deposit wired by close of business today if possible so we know that step is complete. April, please confirm with Jeanie so we send funds to the correct trust account.

If you need any additional info from me, please don't hesitate to ask. Thank you all for your help.

Sincerely,

Dan

Daniel E. Allen

April Goad

From: Jeanie Davis <jdavis@mtlawgroup.net>
Sent: Thursday, March 6, 2025 10:22 AM
To: Dan Allen; April Goad; Rebecca Holden; Patrick Carter
Cc: Chris Clausi
Subject: RE: [External] StoneCreek Executed Assignment and Purchase Agreement

Follow Up Flag: Flag for follow up
Flag Status: Flagged

Thanks Dan!

April, please give me a call and I will be glad to verify the wire instructions.

Thank you all and look forward to working with everyone on a smooth closing!

Jeanie Davis
Paralegal /Manager - Real Estate Division
MIDDLE TENNESSEE LAW GROUP, PLLC
Wolaver & Carter Law Office
Physical Address: 809 South Main Street, Suite 100, Columbia, TN 38401
jdavis@mtlawgroup.net
☎ Office Phone: 931-548-0819
Fax: 931-388-6717

WE DO NOT ACCEPT OR REQUEST CHANGES TO WIRING INSTRUCTIONS VIA EMAIL OR FAX. Always call our office to verify.

WARNING-FRAUDLENT FUNDING INSTRUCTIONS
Email hacking and fraud are on the rise to fraudulently misdirect funds. Please call your ESCROW OFFICER IMMEDIATELY using contact information found from an independent source, such as a sales contract or internet, to verify any funding instructions received. We are not responsible for any wires sent by you to an incorrect bank account.

LENDER MUST PROVIDE ALL NAMES THAT WILL BE LISTED ON THE DEED WITH REQUEST EVEN IF THEY ARE NOT ALL BORROWERS DUE TO THE FACT TITLE SEARCH HAS TO SEARCH ALL NAMES. IF NOT PROVIDED IT COULD DELAY CLOSING!!!!

NOTE: IF FUNDS ARE TO BE WIRED OUT IT MUST BE COMMUNICATED TO ME BEFORE CLOSING

"Who Do I Contact For ....."

New Orders: Jeanie Davis at jdavis@mtlawgroup.net
Packages/HUDs/Scheduling: Kayla Stanfill at kstanfill@mtlawgroup.net or Jeanie Davis at jdavis@mtlawgroup.net

Spring Hill, TN

Payable Register

Payable Detail by Vendor Name

Packet: APPKT15496 - Deposit, Property Purchase, Water Reservoir, Resolution 25-68

Payable #	Payable Type	Post Date	Payable Date	Due Date	Discount Date	Amount	Tax	Shipping	Discount	Total
Payable Description	Bank Code				On Hold					
Vendor: 06411 - MIDDLE TENNESSEE LAW GROUP, PLLC									**Vendor Total:**	**40,000.00**
INV0082214	Invoice	3/6/2025	3/6/2025	3/6/2025	3/6/2025	40,000.00	0.00	0.00	0.00	40,000.00
Deposit, Property Purchase, Water Reserv...	APBNK999 - 01 Pooled Cash Account				No	**Payment Date:** 3/6/2025		**Bank Draft:**		DFT0005450

Items

Item Description	Commodity	Units	Price	Amount	Tax	Shipping	Discount	Total
Deposit, Property Purchase, Water Rese	NA	0.00	0.00	40,000.00	0.00	0.00	0.00	40,000.00

Distributions

Account Number	Account Name	Project Account Key	Amount	Percent
410-52620-59111	Capital Land Acquisition		40,000.00	100.00%

Payable Summary

Type	Count	Gross	Tax	Shipping	Discount	Total	Manual Payment	Balance
Invoice	1	40,000.00	0.00	0.00	0.00	40,000.00	40,000.00	0.00
	Grand Total:	**40,000.00**	**0.00**	**0.00**	**0.00**	**40,000.00**	**40,000.00**	**0.00**

Account Summary

Account	Name		Amount
410-52620-59111	Capital Land Acquisition		40,000.00
		Total:	**40,000.00**