



July 24, 2024

North Carolina Department of Environmental Quality  
Division of Waste Management – Special Remediation Branch  
Pre-Regulatory Landfill Unit  
1646 Mail Service Center  
Raleigh, North Carolina 27699-1646

Attention: Mr. Kevin Kelt email: Kevin.Kelt@ncdenr.gov  
Hydrogeologist

Reference: **Remedial Investigation – Topographic and Boundary Survey**  
**Task Order 822DP-6**  
Lyon Park  
1115 Cornell St, Durham, NC 27707  
NCDEQ ID No. NONCD0000822

Dear Mr. Kelt:

S&ME, Inc. (S&ME) is submitting this report to the North Carolina Department of Environmental Quality (NCDEQ), Pre-Regulatory Landfill Unit (Unit) summarizing surveying activities conducted at the above-referenced site in Durham, North Carolina. S&ME completed this task order in general conformance with our approved proposal No. 23050630V, dated April 15, 2024, for Task Order 822DP-6 under state contract N42621-B, dated January 4, 2022.

S&ME subcontracted a North Carolina registered land surveyor (Bateman Civil Surveying) to conduct a topographic and boundary survey of the Lyon Park noted above as shown on the attached drawing. S&ME staff accompanied the surveyors during the fieldwork, which was performed between April 29, 2024, and July 11, 2024.

The topographic and boundary survey will be used to prepare the Draft Remedial Action Plans (RAP) for the site that will be prepared by S&ME.

Please feel free to contact Gerald Paul at 919-872-2660 if you have questions.

Sincerely,

**S&ME, Inc.**

Handwritten signature of Gerald Paul in black ink.

Gerald Paul  
Senior Project Manager

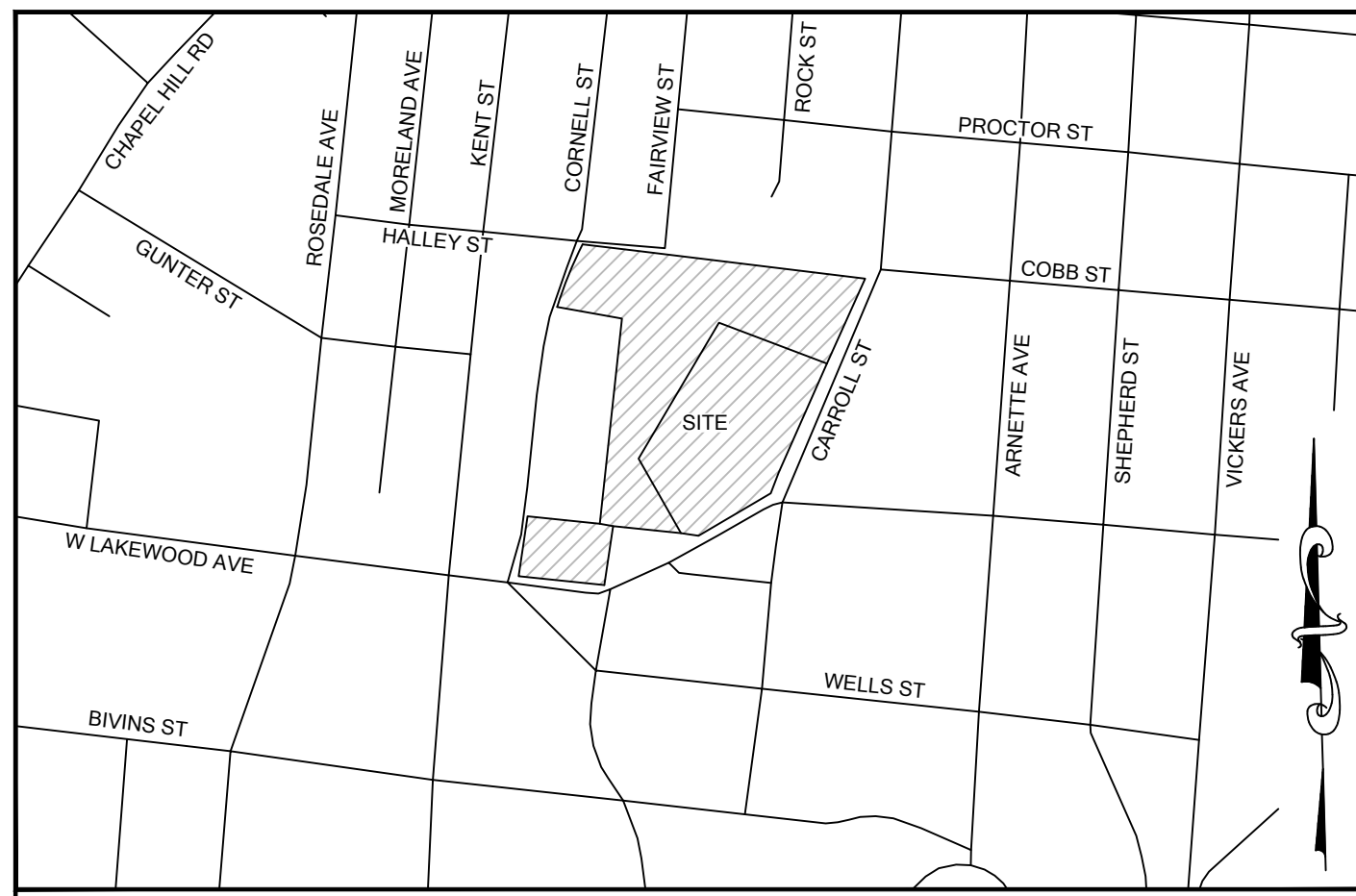
Handwritten signature of Tom Raymond in black ink.

Tom Raymond, PE, RSM  
Program Manager

Attachments: Topographic and Boundary Survey

## **Attachments**





VICINITY MAP - NTS

NOTES:

- THIS SURVEY WAS PREPARED BY BATEMAN CIVIL SURVEY CO., UNDER THE SUPERVISION OF F. REX COOPER, PLS.
- PROPERTY LINES SHOWN WERE TAKEN FROM EXISTING FIELD EVIDENCE, EXISTING DEEDS AND PLATS OF PUBLIC RECORD, AND INFORMATION SUPPLIED TO THE SURVEYOR BY THE CLIENT
- ALL DISTANCES ARE HORIZONTAL GROUND DISTANCES AND ALL BEARINGS ARE BASED ON GPS OBSERVATIONS NAD83 / NSRS 2011 / SPC UNLESS OTHERWISE SHOWN.
- THIS MAP IS NOT FOR RECORDATION AND SHOULD BE REVIEWED BY A LOCAL GOVERNMENT AGENCY FOR COMPLIANCE WITH ANY APPLICABLE LAND DEVELOPMENT REGULATIONS
- THE BASIS OF ALL EASEMENTS, RIGHTS-OF-WAY, BUFFERS, SETBACKS AND ADJOINERS, ETC. REFERENCED IN TITLE BLOCK
- NO INVESTIGATION INTO THE EXISTENCE OF JURISDICTIONAL WETLANDS OR RIPARIAN BUFFERS PERFORMED BY THIS FIRM.
- THE PROPERTIES LIE IN ZONE "X" PER NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAP COMMUNITY NUMBER 3720082100L DATED OCTOBER 19, 2018.
- ZONING IS "RU-M(D)", "RU-S", & "RU-S(2)" FOR THE CITY OF DURHAM PER DURHAM COUNTY GIS.
- AREAS COMPUTED BY COORDINATE METHOD.
- THE PROPERTIES SHOWN HEREON ARE SUBJECT TO ALL EASEMENTS AND RESTRICTIONS OF RECORD.

CLASS OF SURVEY: A  
 POSITIONAL ACCURACY: 0.07  
 TYPE OF GPS FIELD PROCEDURE: NC REAL TIME NETWORK  
 DATES OF SURVEY: MAY, JUNE, & JULY 2024  
 DATUM/EPOCH: NAD83/NSRS2011/SPC  
 COMBINED GRID FACTOR (CONTROL CORNER 1): 0.999942849  
 UNITS: US SURVEY FEET

LEGEND	
	SURVEYED BOUNDARY LINE
	ADJOINING BOUNDARY LINE (NOT SURVEYED)
	RIGHT OF WAY LINE (NOT SURVEYED)
	EASEMENT LINE
	TREELINE
	EXISTING BOUNDARY CORNER FOUND
	BOUNDARY CORNER SET (3/4" IPS UNLESS OTHERWISE NOTED)
	COMPUTED POINT
	CONCRETE MONUMENT FOUND
	CLEAN OUT
	TRANSFORMER / ELECTRIC BOX
	LIGHT POLE
	UTILITY POLE
	WATER METER
	FIRE HYDRANT
	UTILITY VALVE
	TELEPHONE PEDESTAL
	CABLE PEDESTAL
	CATCH BASIN
	DROP INLET
	UTILITY MANHOLE
	UTILITY HAND HOLE
	AIR CONDITIONING UNIT
	MONITORING WELL
	SIGN
	OVERHEAD UTILITY
	GUY WIRE
	BURIED UTILITY MARKER
	EXISTING IRON PIPE
	EXISTING IRON REBAR
	IRON PIPE SET
	PK NAIL SET
	EXISTING PK NAIL
	SANITARY SEWER MANHOLE
	NORTH
	EAST
	SOUTH
	WEST
	NORTHEAST
	SOUTHEAST
	SOUTHWEST
	NORTHWEST
	DEED BOOK
	PAGE
	PLAT BOOK
	SLIDE
	RIGHT OF WAY
	POINT OF BEGINNING
	TOTAL
	NOW OR FORMERLY REINFORCED CONCRETE PIPE
	CORRUGATED METAL PIPE
	FLARED END SECTION
	TYPICAL FENCE
	CONCRETE
	ASPHALT
	GRAVEL

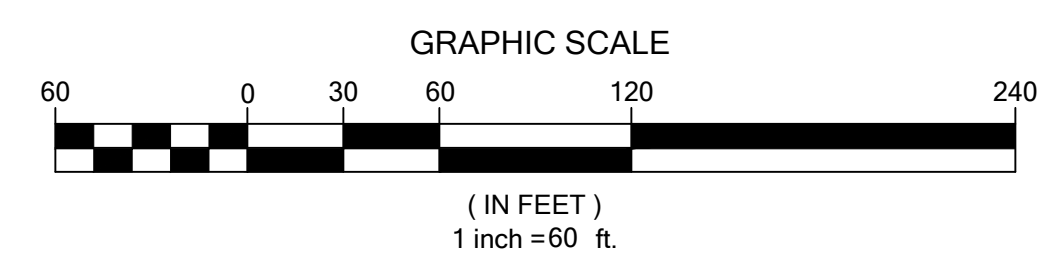
THIS MAP IS CONSIDERED PRELIMINARY, NOT FOR RECORDATION, CONVEYANCE OR SALES UNLESS SIGNED AND SEALED BY THE LICENSED SURVEYOR.

I, F. REX COOPER, CERTIFY THAT THIS MAP WAS DRAWN UNDER MY SUPERVISION FROM AN ACTUAL SURVEY MADE UNDER MY SUPERVISION AS RECORDED IN REFERENCES SHOWN HEREON; THAT THE BOUNDARIES NOT SURVEYED ARE INDICATED AS DRAWN FROM INFORMATION FOUND AS SHOWN HEREON; THAT THE POSITIONAL ACCURACY IS < 0.10' AT 95% CONFIDENCE LEVEL; AND THAT THIS MAP MEETS THE REQUIREMENTS OF THE STANDARDS OF PRACTICE FOR LAND SURVEYING IN LICENSE CAROLINA (21 NCAC 58.1600). WITNESS MY ORIGINAL SIGNATURE, REGISTRATION NUMBER, AND SEAL THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 2024.

I, F. REX COOPER, CERTIFY THAT THIS PROJECT WAS COMPLETED UNDER MY DIRECT AND RESPONSIBLE CHARGE FROM AN ACTUAL SURVEY MADE UNDER MY SUPERVISION; THAT THIS TOPOGRAPHIC SURVEY WAS PERFORMED AT THE 95 PERCENT CONFIDENCE LEVEL TO MEET FEDERAL GEOGRAPHIC DATA COMMITTEE STANDARDS; THAT THIS SURVEY WAS PERFORMED TO MEET THE REQUIREMENTS FOR A TOPOGRAPHIC /PLANIMETRIC SURVEY TO THE ACCURACY OF CLASS A AND VERTICAL ACCURACY WHEN APPLICABLE TO THE CLASS C STANDARD; AND THAT THE ORIGINAL DATA WAS OBTAINED ON 05/13/2024, THAT THE SURVEY WAS COMPLETED ON 05/24/2024; THAT CONTOURS SHOWN AS BROKEN LINES MAY NOT MEET THE STATED STANDARD; AND ALL COORDINATES ARE BASED ON NAD 83 AND REALIZATION NSRS 2011 AND ALL ELEVATIONS ARE BASED ON NAVD 88.

F. REX COOPER, PLS  
 NC LICENSE NO. L-4269

CURVE TABLE				
CURVE#	LENGTH	RADIUS	BEARING	CHORD
C1	191.45'	981.47'	N18° 50' 15"E	191.15'



**BATEMAN CIVIL SURVEY COMPANY**  
 ENGINEERS • SURVEYORS • PLANNERS  
 2524 RELIANCE AVENUE, APEX, NC 27539  
 PHONE: (919) 577-1080 FAX: (919) 577-1081  
 INFO@BATEMANCIVILSURVEY.COM  
 NCBELS FIRM# C-2378



**BOUNDARY & TOPOGRAPHIC SURVEY**  
 EXCLUSIVELY FOR SAME  
 PROPERTY OF THE CITY OF DURHAM  
 AS RECORDED IN DB 327 PG 37, PB 50 PG 198, DB 241 PG 560, DB 167 PG 343, & PB 6 PG 133  
 PINS: 0821443715, 0821444468, & 0821349066 REIDS: 115135, 115153, & 115150  
 1101 CORNELL ST, 1228 CARROLL ST, & 1200 W LAKEWOOD DR, DURHAM, NC  
 DURHAM TOWNSHIP - DURHAM COUNTY - NORTH CAROLINA

REVISIONS
1.
2.
3.
4.
5.

DESIGNED BY: N/A  
 DRAWN BY: ELS  
 CHECKED BY: FRC  
 SCALE: 1" = 60'  
 DATE: 07/23/2024  
 JOB NUMBER: 240270  
 SHEET 1 OF 1