



Remedial Investigation Report  
Geophysical Services  
Northgate Park – NONCD0000825  
Durham, Durham County, North Carolina  
Task Order 825DP-3  
S&ME Project No. 23050630AA

**PREPARED FOR:**

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

**PREPARED BY:**

**S&ME, Inc.  
3201 Spring Forest Road  
Raleigh, NC 27616**

**April 29, 2024**



April 29, 2024

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

Attention: Mr. Kevin Kelt via email: [Kevin.Kelt@deq.nc.gov](mailto:Kevin.Kelt@deq.nc.gov)  
Hydrogeologist

Reference: **Remedial Investigation Report - Geophysical Services  
Northgate Park**  
Durham, Durham County, North Carolina  
NCDEQ ID No. NONCD0000825  
NCDEQ Task Order 825DP-3  
S&ME Project No. 23050630AA

Dear Mr. Kelt:

S&ME, Inc. (S&ME) is submitting this report to NCDEQ summarizing the results of the Remedial Investigation Activities (Geophysical Survey) conducted at the above-referenced site in Durham, North Carolina. S&ME completed this investigation in general conformance with S&ME Proposal No. 23050630AA, dated March 20, 2024, for Task Order 825DP-3 and under the terms of Contract Number N42621-B, dated January 4, 2022, between NCDEQ and S&ME. The attached report includes the results of the following tasks.

- Geophysical Survey

We appreciate the opportunity to provide environmental consulting services to NCDEQ. Please contact us if you have any questions about the information included in this report.

Sincerely,

**S&ME, Inc.**

Handwritten signature of Jason B. Cox in blue ink.

Jason B. Cox, P.G. (GA)  
Project Geophysicist / Manager  
[jcox@smeinc.com](mailto:jcox@smeinc.com)

Handwritten signature of Gerald Paul in blue ink.

Gerald Paul  
Senior Project Manager  
[jpaul@smeinc.com](mailto:jpaul@smeinc.com)

Senior Reviewed by: Thomas P. Raymond, P.E., P.M.P.

Attachment: *Remedial Investigation Report – Geophysical Services*



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## 1.0 Project Information

The Northgate Park site is a pre-regulatory landfill (NCDEQ ID No. NONCD0000825) that is currently owned by The City of Durham (Figure 1). The Northgate Park site is currently used as a park by the City of Durham and contains a picnic shelter and playground. The site consists of (Durham County PIN #0832067642, 0822978787 and 0822978389), the northern parcels containing wooded land, an open field, a parking lot and walking trails and the southern parcel consisting of wooded land, a picnic shelter, and playground. The land along Ellerbe Creek that was to become Northgate Park was donated to the City by Frank and Ruby Barfield to establish a park and bird sanctuary in 1938; this site was expanded and evolved into Northgate Park in later years. The park used to contain a small community center, named in honor of the Barfields, that occupied the corner of West Lavender Avenue and Elgin Street. That building burned down in the 1970s, and its location is now occupied by a pair of tennis courts.

The Northgate Park site was selected for the NCDEQ PRLF program based on the use of ash and cinder for fill material during its construction. The ash and cinders used were brought from the Walltown Park site, which contained an incinerator. This information led to the investigation of the park by Mid-Atlantic Associates, Inc. in July 2023. The investigation included the screening of 259 locations using X-Ray Fluorescence (XRF) and the collection of 32 soil samples analyzed for lead. Results from the investigation did not find exceedances of the lead NCDEQ Preliminary Soil Remediation Goals (PSRG) of 400 milligrams per kilogram (mg/kg) in the samples collected at 12 inches below land surface (bls). One sample collected from beneath one of the playground areas at 12-18 bls did exhibit a concentration above the lead residential PSRG. *The PSRG for lead was changed to 200 mg/kg in 2024.*

The following reports were completed by S&ME to assess the noted waste disposal areas following the initial investigations by others:

- *Remedial Investigation Report – First Phase Activities – Northgate Park –300 West Club Blvd. and West Lavender Street, Project No. 23050630 dated February 26, 2024.*
- *Remedial Investigation Report –Soil Cover Evaluation -Northgate Park –300 West Club Blvd. and West Lavender Street, Project No. 23050630 dated March 6, 2024.*

In an attempt to further assess the waste disposal area and approximate the vertical and horizontal extents of the waste materials, S&ME has completed a geophysical survey of the park property using the Frequency Domain Electromagnetic (FDEM) method. The following sections detail the findings of the geophysical survey.



## 2.0 Methodology and Field Services

Between April 2, and 4, 2024, we completed an FDEM survey within the accessible portions of the requested survey area (Figure 2). FDEM measures subsurface conductivity as lateral changes in conductivity of the subsurface typically indicate lateral changes in the subsurface materials (e.g. generally more conductive buried landfill material/debris compared to surrounding soils).

FDEM measurements are collected by inducing (from a transmitter) a frequency-varying magnetic field and measuring (with a receiver) the amplitude and phase shift of an induced secondary magnetic field. The secondary magnetic field is created by subsurface conductive materials behaving as an inductor as the primary magnetic field passed through them. Both the conductivity and in-phase components of the electromagnetic field are recorded as a weighted average based on the dipole center distance (separation between the transmitter and receiver) and orientation (vertical versus horizontal) of the FDEM instrument. The “terrain” conductivity phase component, which is also referred to as the quadrature phase component, is measured in milliSiemens per meter (mS/m) and provides a measurement of conductivity. The in-phase mode, measured in parts per thousand (ppt), is responsive to highly conductive, metallic objects and/or material.

We used a GF Instruments CMD Explorer electromagnetic conductivity meter in general accordance with ASTM D6639 “Standard Guide for Using the Frequency Domain Electromagnetic Method for Subsurface Investigations.” The CMD Explorer system utilizes three separate dipole center distances effectively providing three separate weighted bulk average exploration depths of 7, 14, and 22 feet in the vertical dipole mode. FDEM data profiles were generally acquired along perpendicular lines spaced approximately 50 feet between each transect using a sub-meter GPS as positioning support (Figure 2). However, actual locations in several areas were limited based on access. The CMD data transfer software was used to download and interpolate the data, and Golden Software’s Surfer® was used to grid and plot the data (Figures 3 through 14). Presenting multiple bulk average ranges for the FDEM data allows for an additional qualitative assessment associated with subsurface material contrasts at depth. The FDEM data has been presented in two plots (Plots A and B) to provide both opaque and semi-transparent overlays on aerial images, respectively. The semi-transparent view allows for spatial comparison between the FDEM data and site features present in the aerial imagery.

## 3.0 Results

The following summarizes the results of the FDEM survey performed at the site:

- FDEM terrain conductivity responses for the 7, 14, and 22 feet weighted bulk average exploration depths generally range between about 0 and 100 mS/m (Figures 3 through 8), and the in-phase component of the FDEM data responses generally range between about -15 and 15 ppt (Figures 9 through 14).
- Based on experience, typical terrain conductivities of buried landfill waste materials are greater than about 30 mS/m, whereas typical background conductivity values are typically less than 30 mS/m. As such, it appears that lateral variations in subsurface materials related to the buried landfill materials can be identified in the conductivity data sets. Several isolated areas and/or



targets associated with buried metallic materials (in-phase responses) can also be identified in the FDEM data sets.

- Approximate interpreted landfill extents within the surveyed areas are presented in the figures. However, the interpreted limits are controlled by the property boundary and/or accessible limits during the time of the survey, and as such, landfill materials may extend beyond the properties explored.

## 4.0 Limitations

Regardless of the thoroughness of a geophysical survey, there is always a possibility that actual conditions may not match the interpretations. The results should be considered accurate only to the degree implied by the methods used and the method's limitations and data coverage. Accordingly, the possibility exists that not all features at a project site will be located due to either subsurface soil conditions or the occurrence of features outside the lateral limits and below the depth of penetration of the method used. As with most surface geophysical methods, resolution of the subsurface also decreases with depth. As such, the size and/or contrast of features compared to the imaged subsurface media must be significant enough to produce the anticipated response. The location and/or determination (or the lack thereof) of potential buried features is based on our review of the provided information and of the geophysical survey. Under no circumstances does S&ME assume any responsibility for damages resulting from the presence of subsurface features that may exist but were not identified by our survey. The geophysical method used for this survey also have inherent limitations. Site metallic features (e.g., fences, vehicles, reinforced concrete, etc.) and overhead transmission lines can produce a false electromagnetic response. FDEM is also limited in capability to resolve vertical variations of the subsurface in the data.

## 5.0 Sole Use Statement

This report is solely intended for use by NCDEQ for the services that were performed in accordance with S&ME Proposal No. 23050630AA, dated March 20, 2024 for Task Order 825DP-3 as authorized by NCDEQ.



## 6.0 Certification Acknowledgement

"I certify that to the best of my knowledge, after thorough investigation, the information contained in or accompanying this certification is true, accurate, and complete."

Gerald Paul / S&ME, Inc.

Name of Environmental Consultant / Company

*G Paul*

April 29, 2024

Signature of Environmental Consultant

Date

I, Gail L. Kluener, a Notary Public of said County and State, do hereby certify that Gerald Paul did personally appear and sign before me this day, produced proper identification in the form of Pers. KNOWN, was duly sworn or affirmed, and declared that, he or she is the duly authorized environmental consultant referenced above and that, to the best of his or her knowledge and belief, after thorough investigation, the information contained in the above certification is true and accurate, and he or she then signed this Certification in my presence.

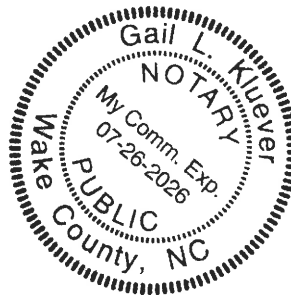
WITNESS my hand and official seal this 29<sup>th</sup> day of April, 2024.

Gail L. Kluener

Notary Public (signature)

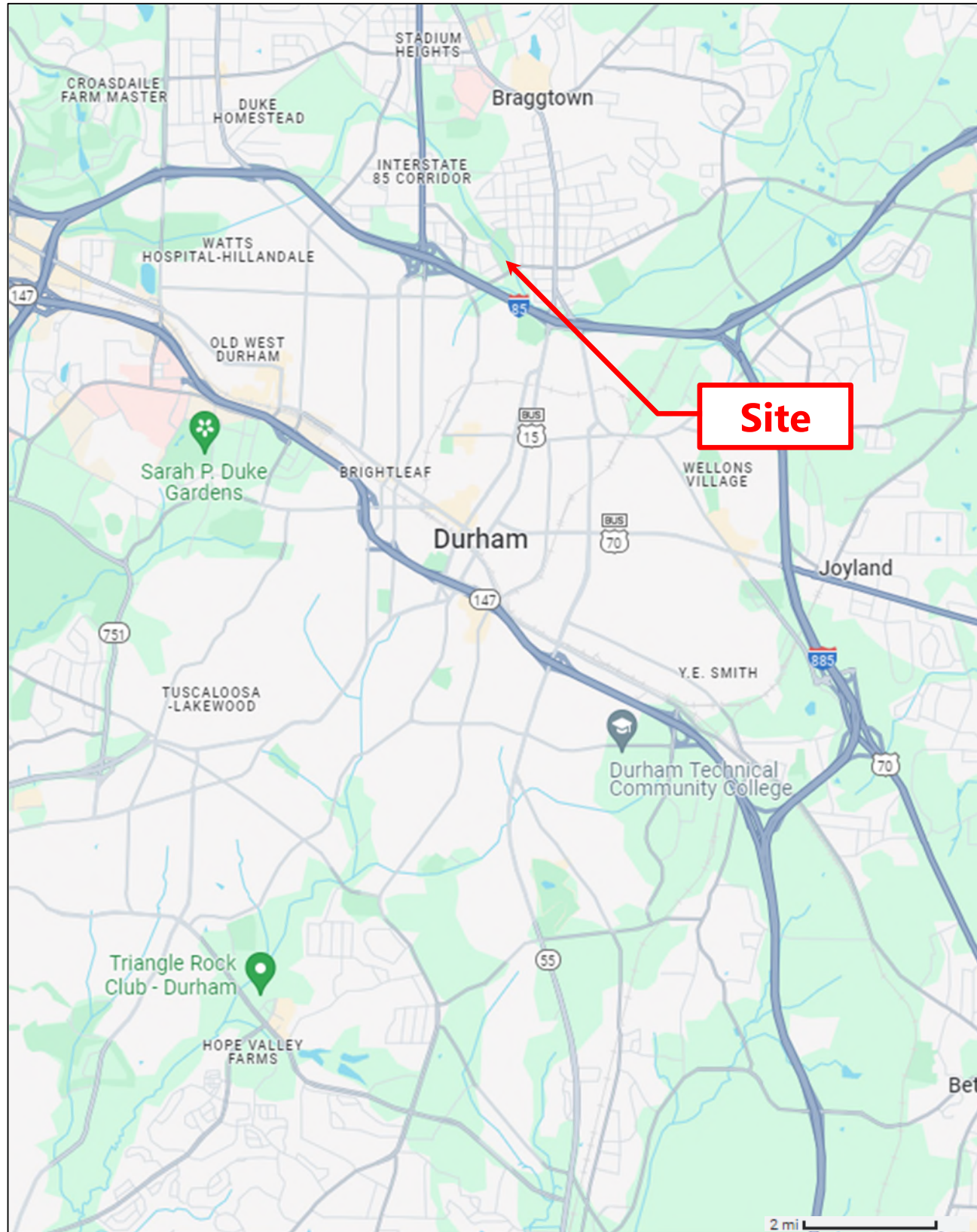
My commission expires: 7/26/2026

(OFFICIAL SEAL)



# Figures





**REFERENCE:**  
 GOOGLE EARTH PRO AERIAL PHOTOGRAPH (DATED APRIL 12, 2023). THIS PLAN IS FOR INFORMATIONAL PURPOSES ONLY. ALL FEATURE LOCATIONS DISPLAYED ARE APPROXIMATED AND NOT BASED ON CIVIL SURVEY INFORMATION, UNLESS STATED OTHERWISE.



**SITE VICINITY PLAN**

NORTHGATE PARK  
 NCDEQ ID No. NONCD0000825, TASK ORDER - 825DP-3  
 300 WEST CLUB BLVD. & 404 WEST LAVENDER AVE  
 DURHAM, DURHAM COUNTY, NORTH CAROLINA

SCALE:  
 NOT TO SCALE

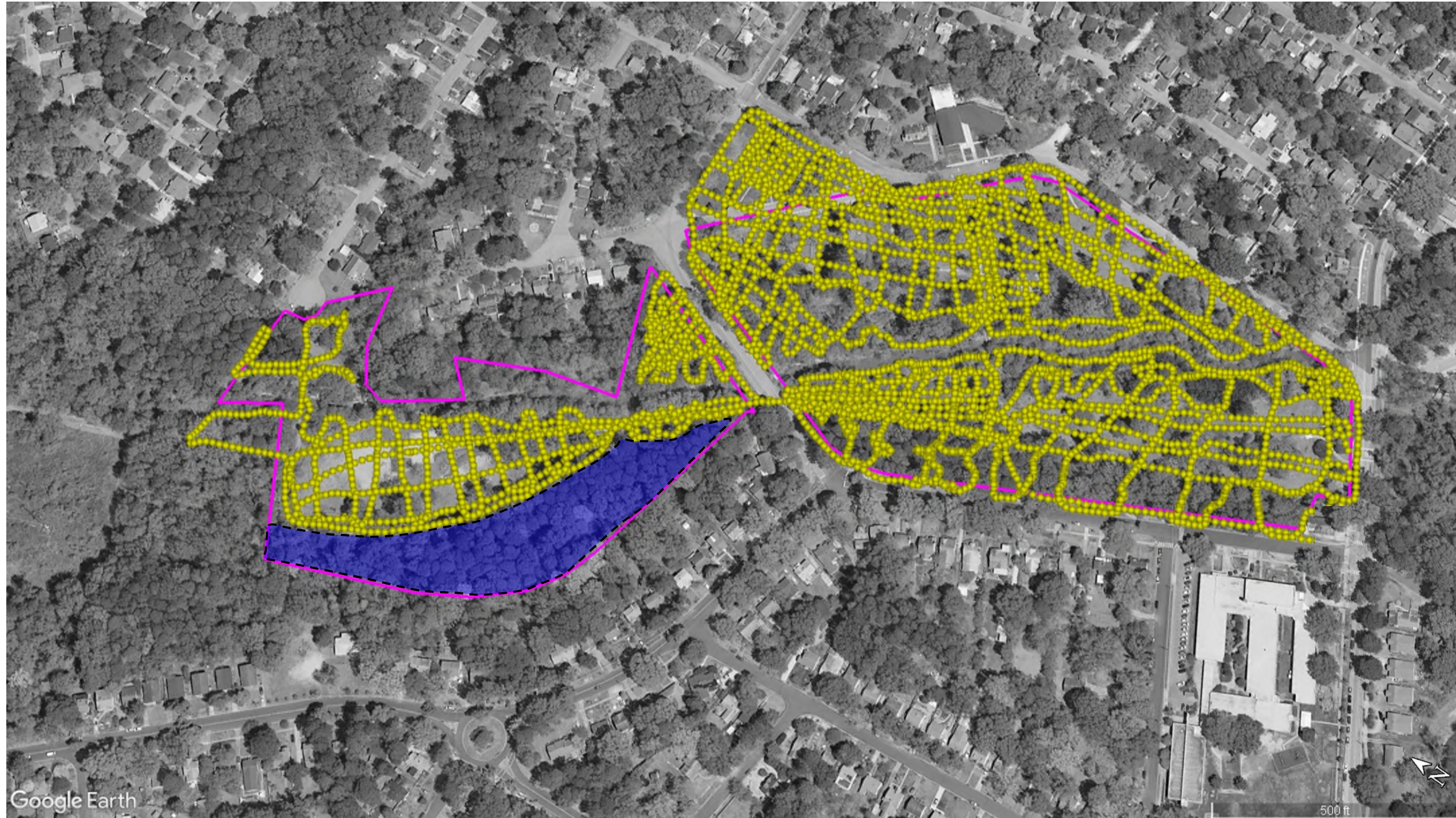
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 4/29/2024

PROJECT NUMBER  
 23050630AA

FIGURE NO.



**REFERENCE:**  
 GOOGLE EARTH PRO AERIAL PHOTOGRAPH (DATED APRIL 12, 2023). THIS PLAN IS FOR INFORMATIONAL PURPOSES ONLY. ALL FEATURE LOCATIONS DISPLAYED ARE APPROXIMATED AND NOT BASED ON CIVIL SURVEY INFORMATION, UNLESS STATED OTHERWISE.



**LEGEND**

- FDEM Data Path
- Requested Survey area
- Inaccessible Areas

**FDEM SURVEY DATA PATH**

NORTHGATE PARK  
 NCDEQ ID No. NONCD0000825, TASK ORDER - 825DP-3  
 300 WEST CLUB BLVD. & 404 WEST LAVENDER AVE  
 DURHAM, DURHAM COUNTY, NORTH CAROLINA

SCALE:  
 AS SHOWN

DATE:  
 4/29/2024

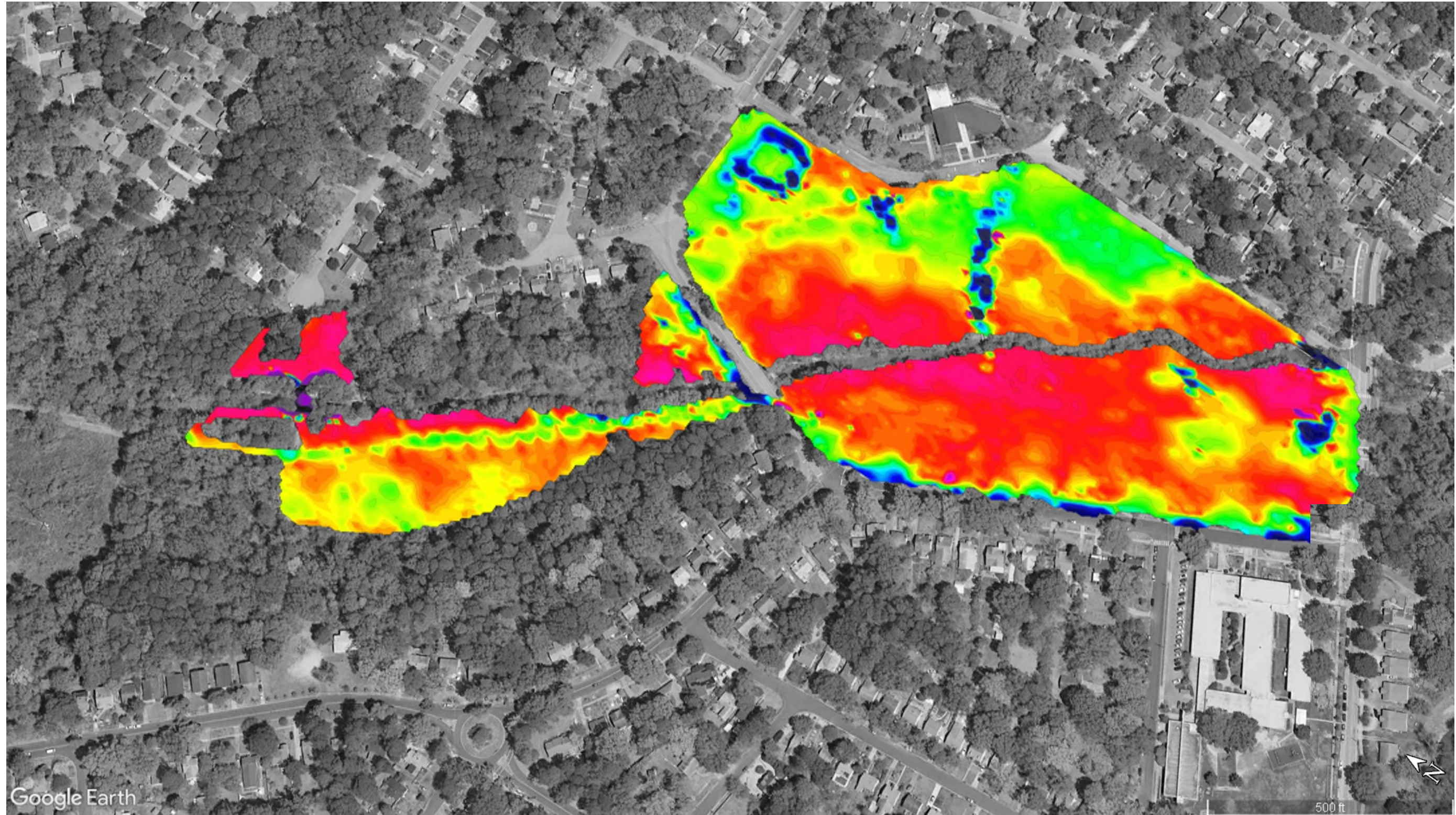
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 23050630AA

FIGURE NO.

**2**



**REFERENCE:**  
 GOOGLE EARTH PRO AERIAL PHOTOGRAPH (DATED APRIL 12, 2023). THIS PLAN IS FOR INFORMATIONAL PURPOSES ONLY. ALL FEATURE LOCATIONS DISPLAYED ARE APPROXIMATED AND NOT BASED ON CIVIL SURVEY INFORMATION, UNLESS STATED OTHERWISE.



**FDEM CONDUCTIVITY DATA PLOT A - OPAQUE (7 FEET)**

NORTHGATE PARK  
 NCDEQ ID No. NONCD000825, TASK ORDER - 825DP-3  
 300 WEST CLUB BLVD. & 404 WEST LAVENDER AVE  
 DURHAM, DURHAM COUNTY, NORTH CAROLINA

SCALE:  
 AS SHOWN

DATE:  
 4/29/2024

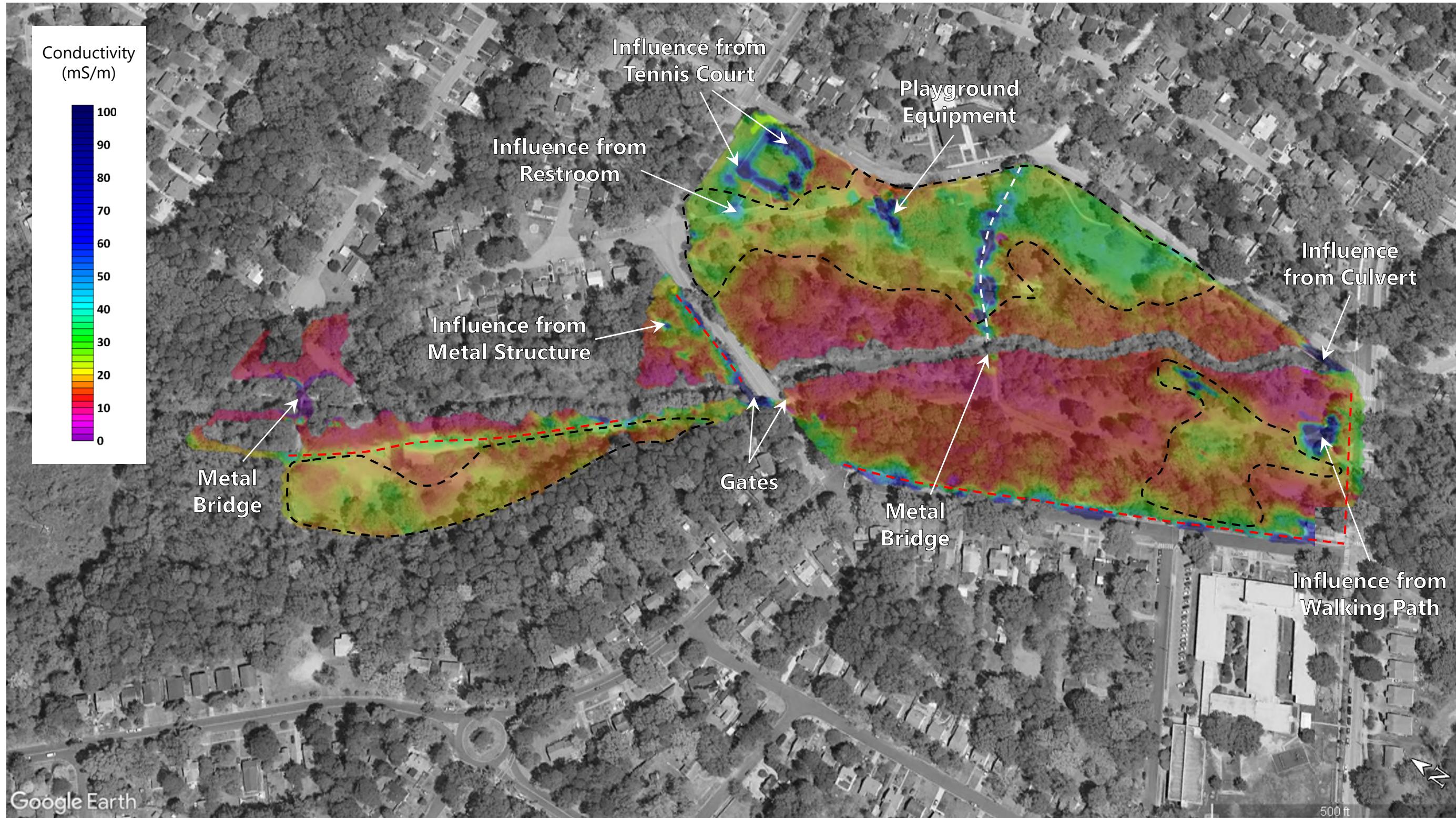
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 23050630AA

FIGURE NO.

**3**



**REFERENCE:**  
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**LEGEND**

- Interpreted Extent of Possible Landfill
- Possible Utility
- Reinforced Concrete Sidewalk

**FDEM CONDUCTIVITY DATA PLOT B - SEMI-TRANSPARENT (7 FEET)**

NORTHGATE PARK  
 NCDEQ ID No. NONCD000825, TASK ORDER - 825DP-3  
 300 WEST CLUB BLVD. & 404 WEST LAVENDER AVE  
 DURHAM, DURHAM COUNTY, NORTH CAROLINA

SCALE:  
 AS SHOWN

DATE:  
 4/29/2024

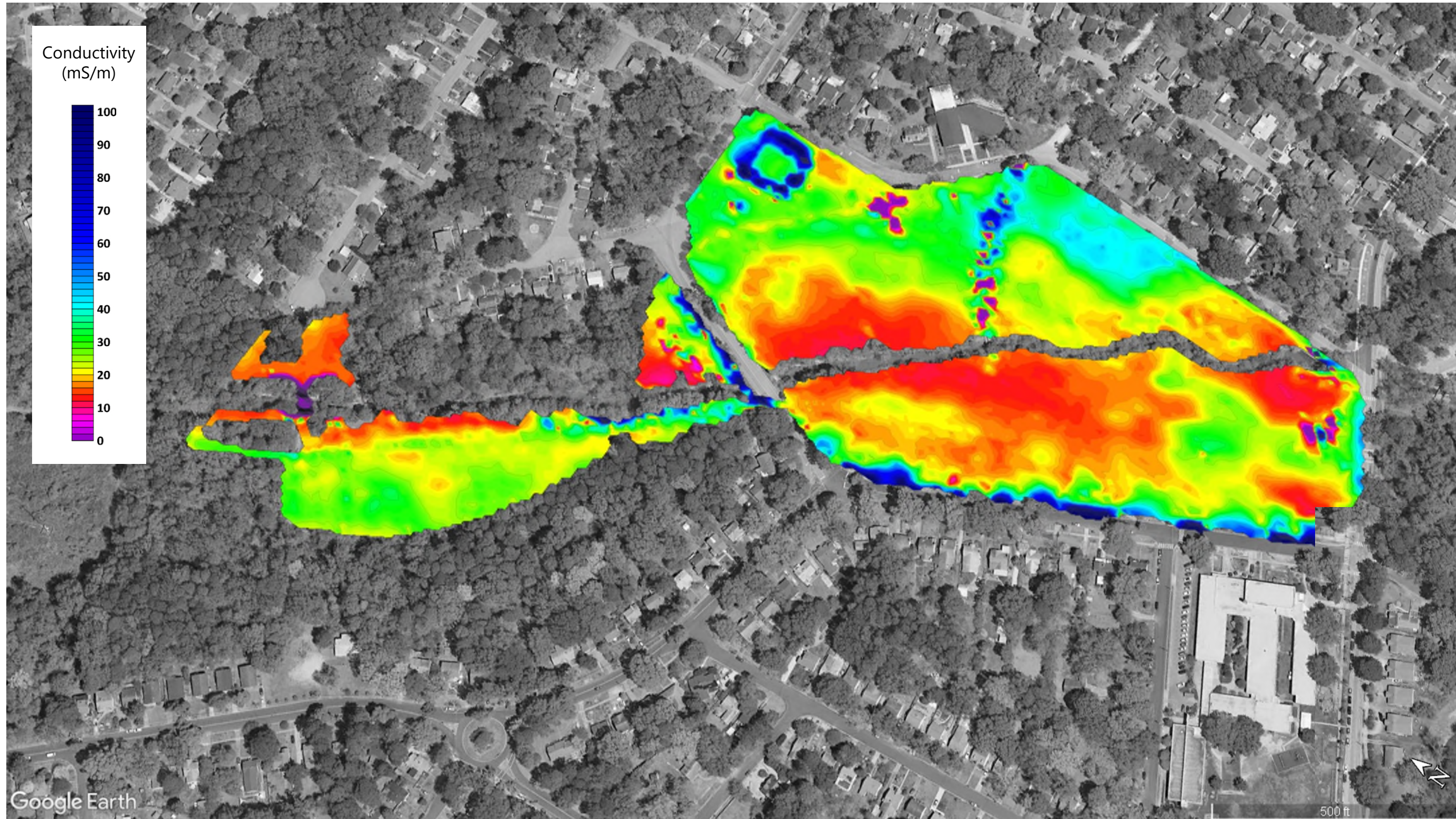
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 23050630AA

FIGURE NO.

**4**



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**FDEM CONDUCTIVITY DATA PLOT A - OPAQUE (14 FEET)**

NORTHGATE PARK  
 NCDEQ ID No. NONCD000825, TASK ORDER - 825DP-3  
 300 WEST CLUB BLVD. & 404 WEST LAVENDER AVE  
 DURHAM, DURHAM COUNTY, NORTH CAROLINA

SCALE:  
 AS SHOWN

DATE:  
 4/29/2024

PROJECT NUMBER  
 23050630AA

FIGURE NO.

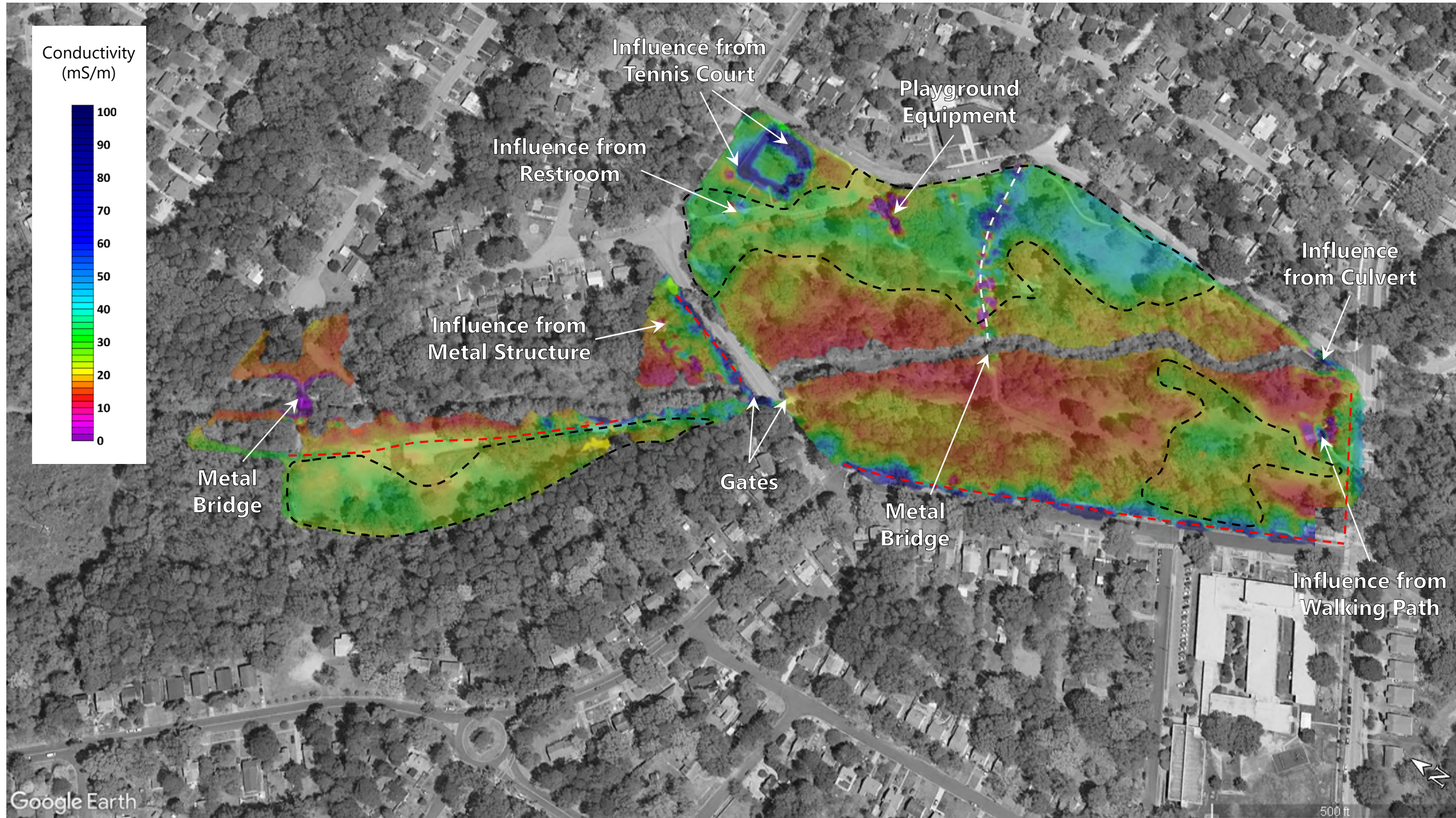
**5**

Google Earth

500 ft



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**LEGEND**

- Interpreted Extent of Possible Landfill
- Possible Utility
- Reinforced Concrete Sidewalk

**FDEM CONDUCTIVITY DATA PLOT B - SEMI-TRANSPARENT (14 FEET)**

NORTHGATE PARK  
NCDEQ ID No. NONCD000825, TASK ORDER - 825DP-3  
300 WEST CLUB BLVD. & 404 WEST LAVENDER AVE  
DURHAM, DURHAM COUNTY, NORTH CAROLINA

SCALE:  
AS SHOWN

DATE:  
4/29/2024

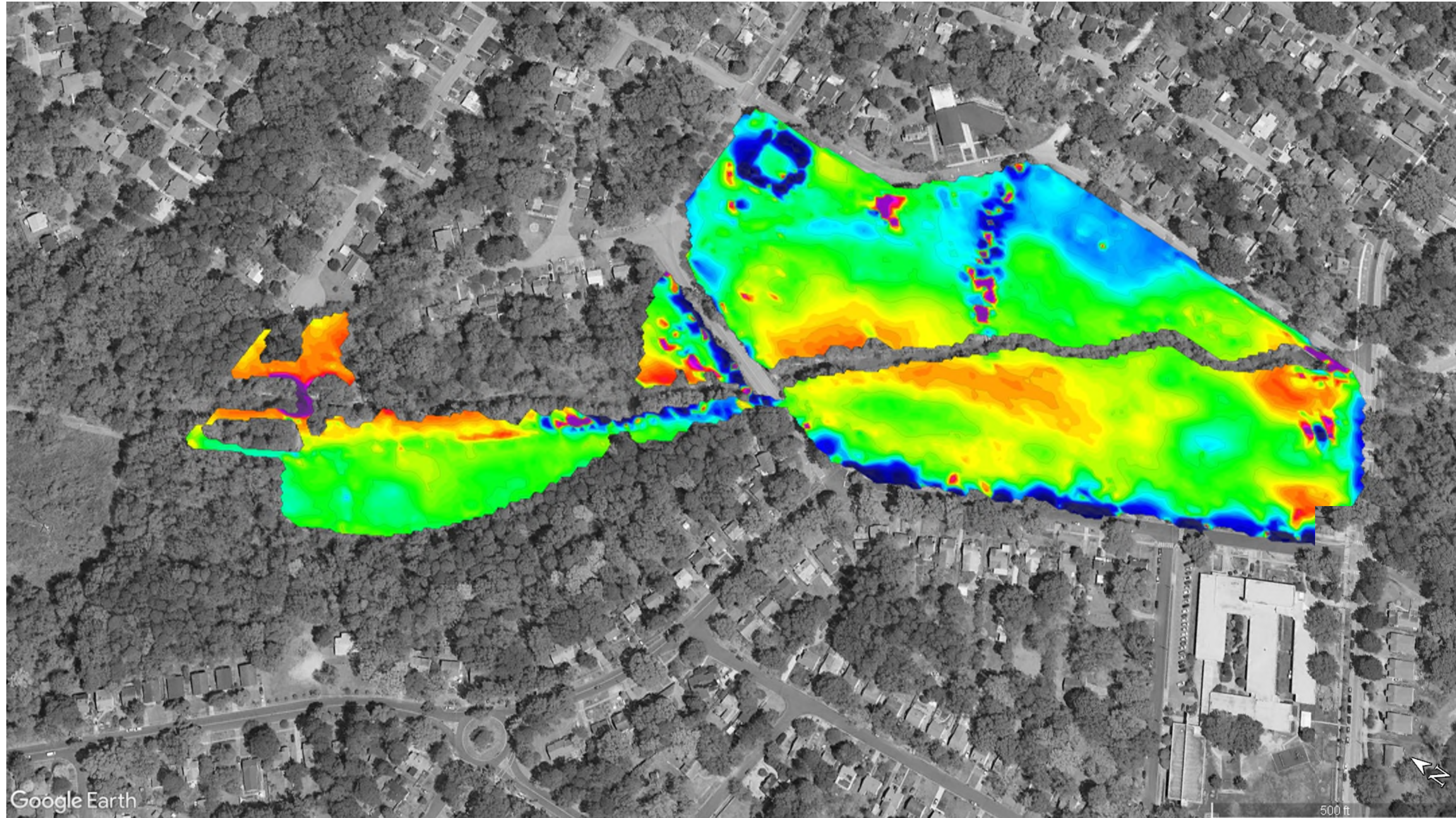
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23050630AA

FIGURE NO.

**6**



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Google Earth

500 ft

**FDEM CONDUCTIVITY DATA PLOT A - OPAQUE (22 FEET)**

NORTHGATE PARK  
NCDEQ ID No. NONCD000825, TASK ORDER - 825DP-3  
300 WEST CLUB BLVD. & 404 WEST LAVENDER AVE  
DURHAM, DURHAM COUNTY, NORTH CAROLINA

SCALE:  
AS SHOWN

DATE:  
4/29/2024

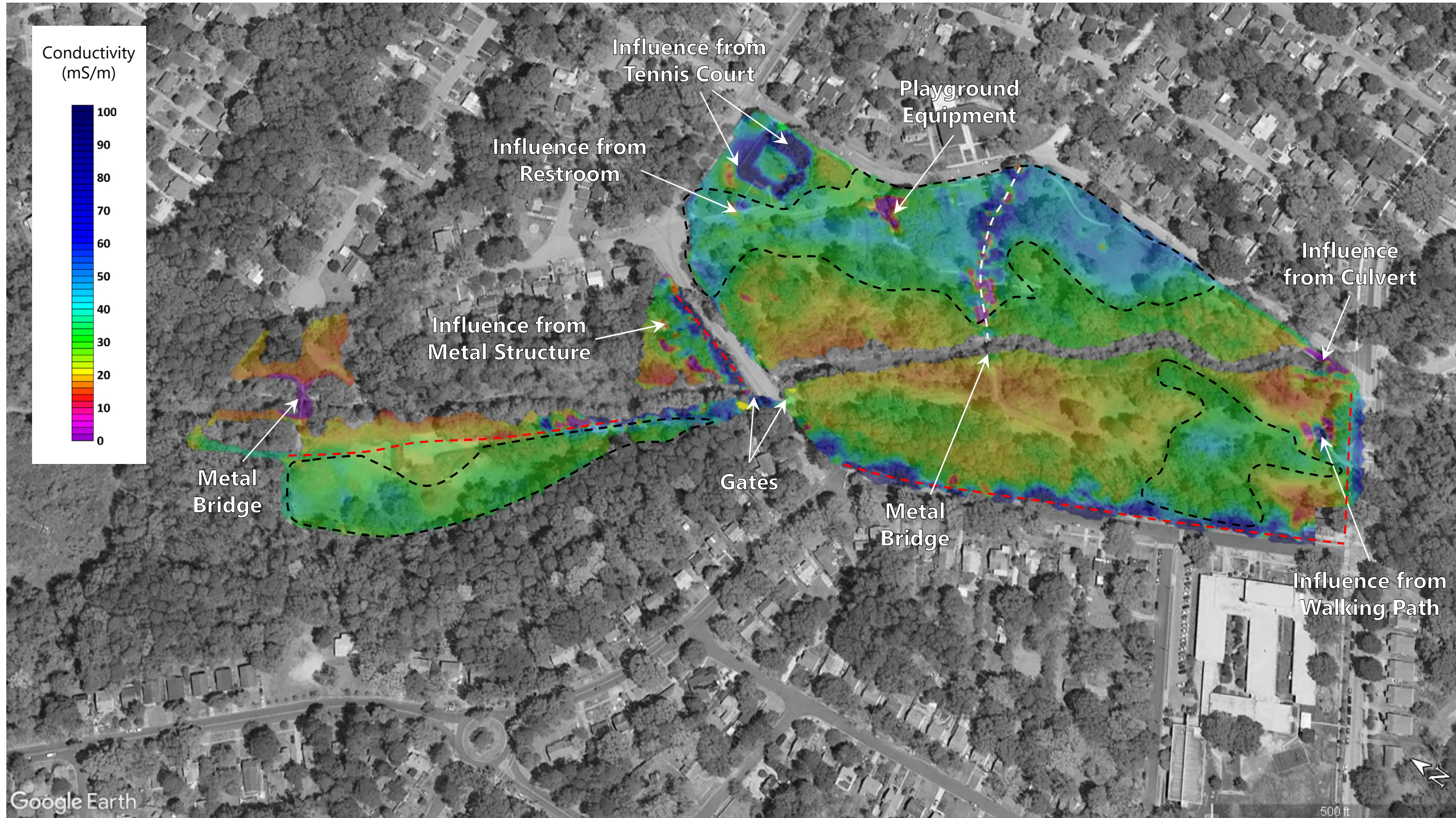
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FIGURE NO.

**7**



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**LEGEND**

- Interpreted Extent of Possible Landfill
- Possible Utility
- Reinforced Concrete Sidewalk

**FDEM CONDUCTIVITY DATA PLOT B - SEMI-TRANSPARENT (22 FEET)**

NORTHGATE PARK  
 NCDEQ ID No. NONCD0000825, TASK ORDER - 825DP-3  
 300 WEST CLUB BLVD. & 404 WEST LAVENDER AVE  
 DURHAM, DURHAM COUNTY, NORTH CAROLINA

SCALE:  
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PROJECT NUMBER  
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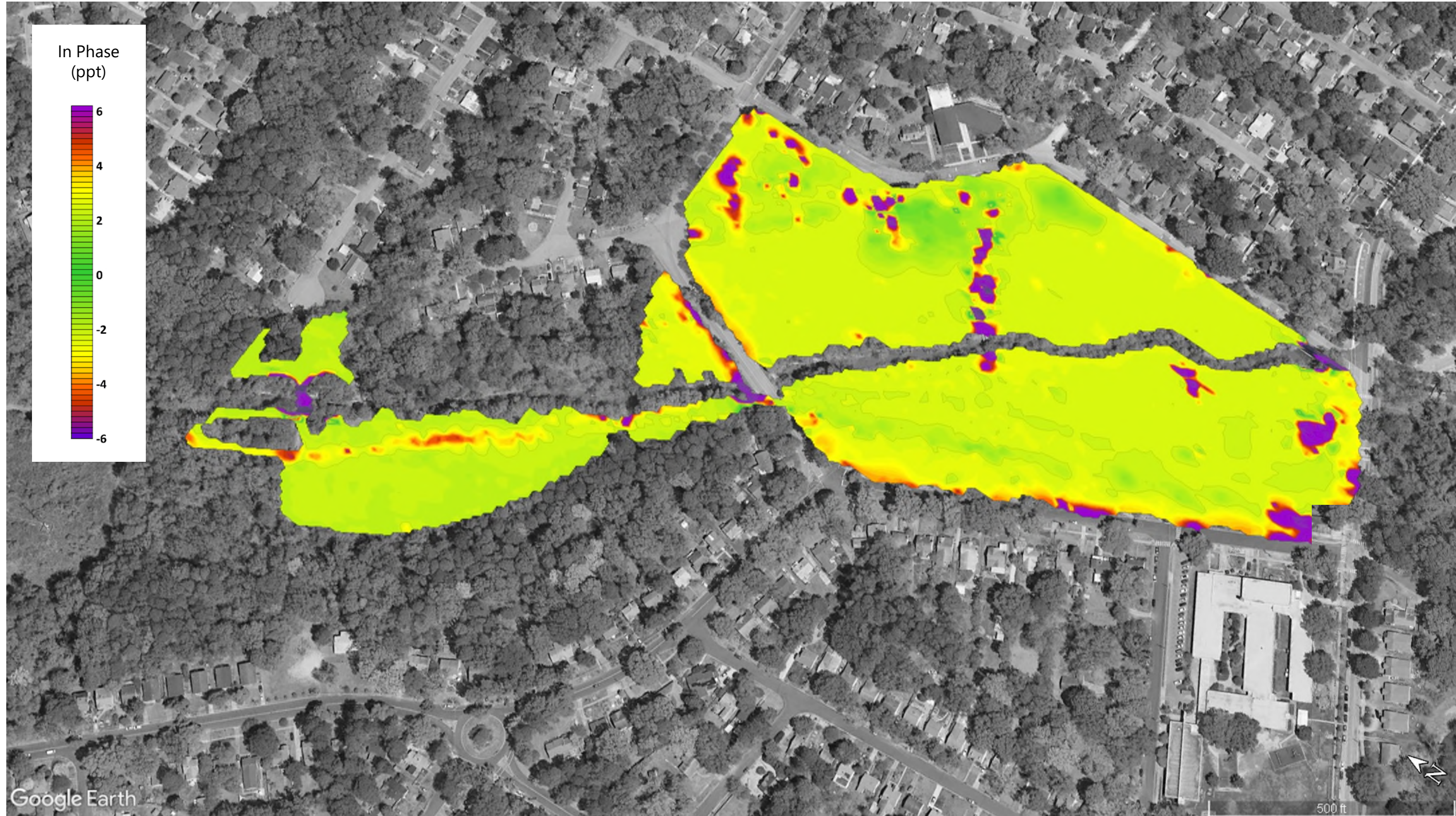
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**8**





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**FDEM IN-PHASE DATA PLOT A - OPAQUE (7 FEET)**

NORTHGATE PARK  
 NCDEQ ID No. NONCD000825, TASK ORDER - 825DP-3  
 300 WEST CLUB BLVD. & 404 WEST LAVENDER AVE  
 DURHAM, DURHAM COUNTY, NORTH CAROLINA

SCALE:  
 AS SHOWN

DATE:  
 4/29/2024

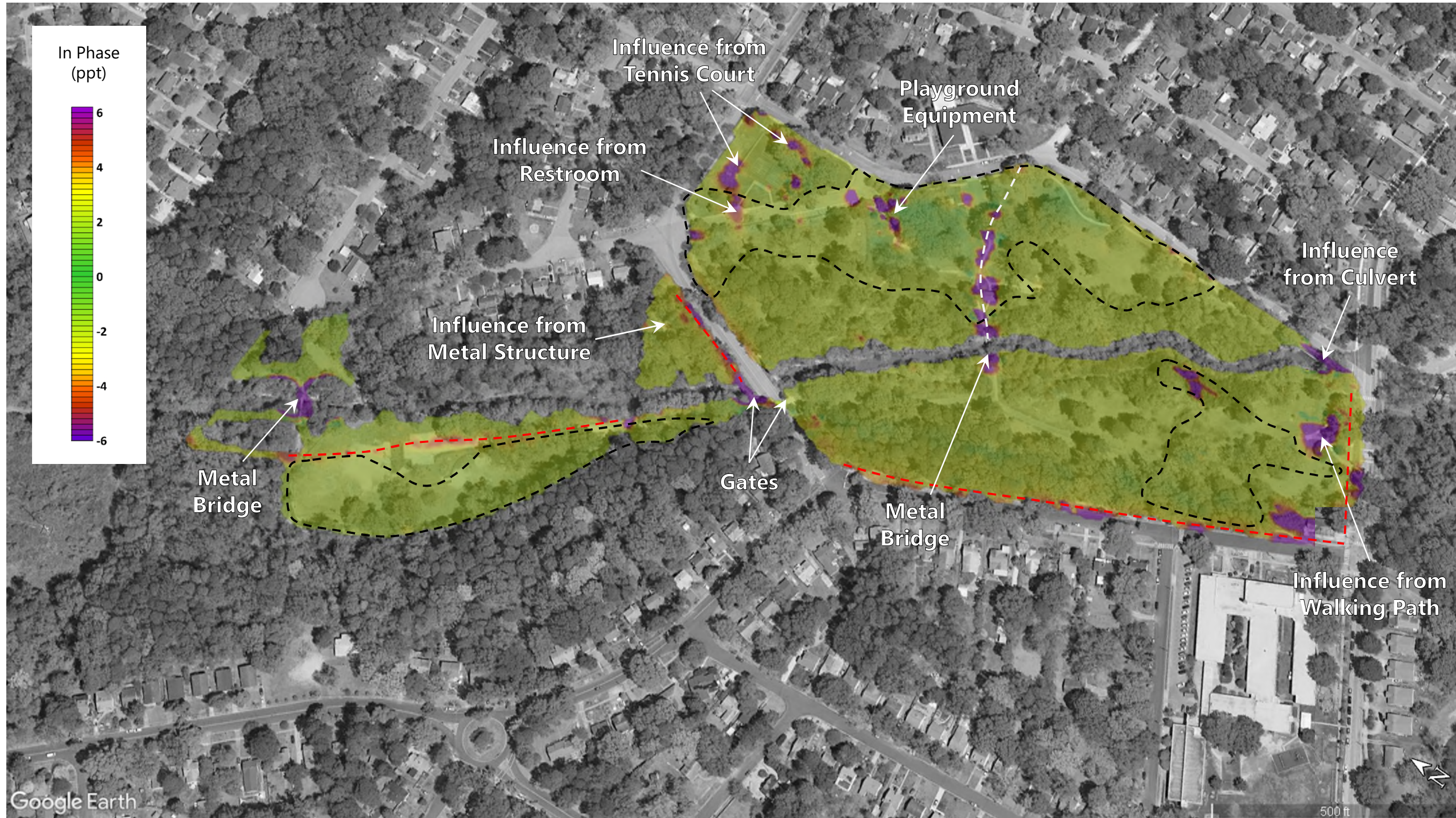
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FIGURE NO.

**9**



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**LEGEND**

- Interpreted Extent of Possible Landfill
- Possible Utility
- Reinforced Concrete Sidewalk

**FDEM IN-PHASE DATA PLOT B - SEMI-TRANSPARENT (7 FEET)**

NORTHGATE PARK  
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 300 WEST CLUB BLVD. & 404 WEST LAVENDER AVE  
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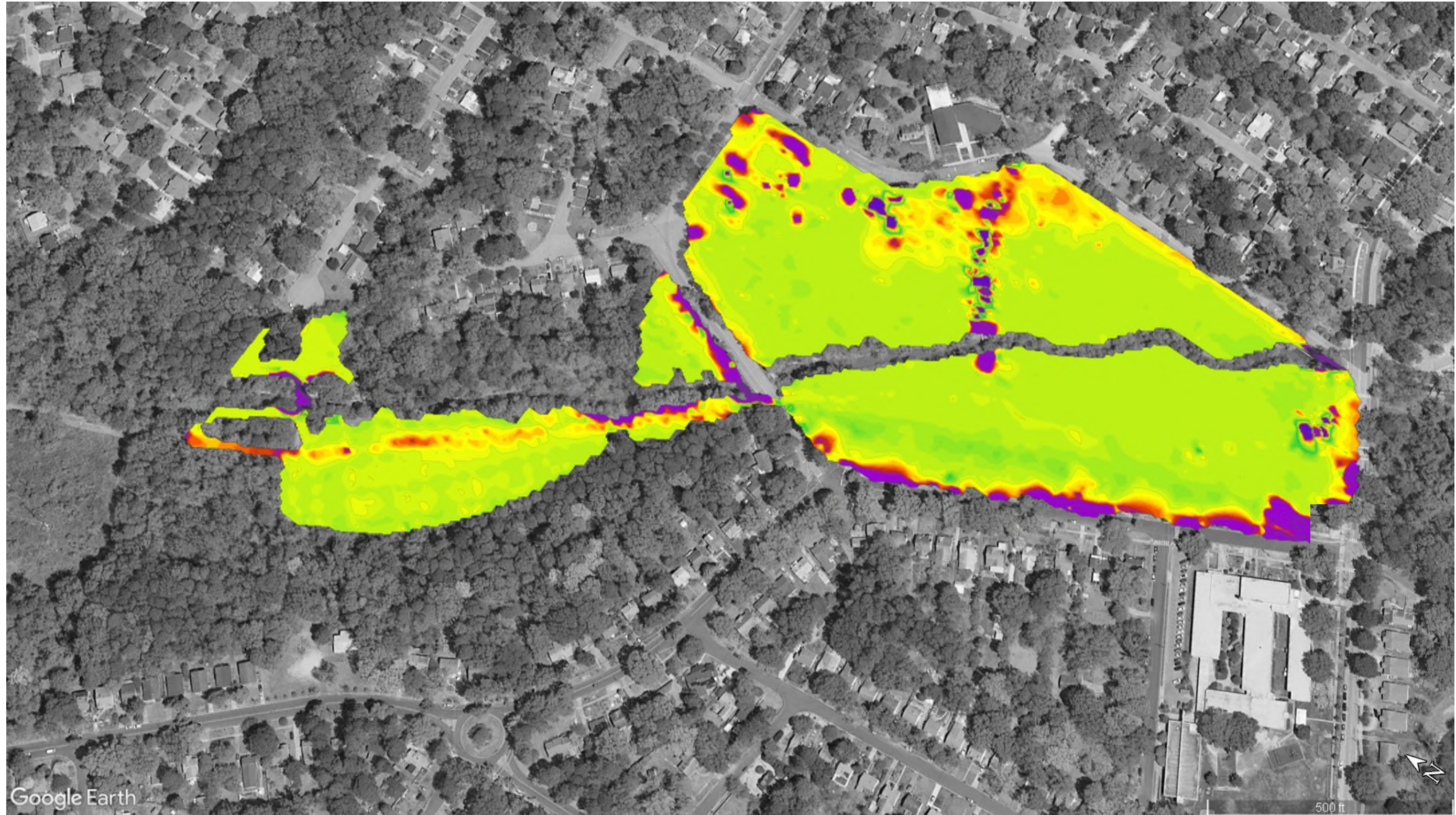
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FIGURE NO.

**10**



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**FDEM IN-PHASE DATA PLOT A- OPAQUE (14 FEET)**

NORTHGATE PARK  
 NCDEQ ID No. NONCD000825, TASK ORDER - 825DP-3  
 300 WEST CLUB BLVD. & 404 WEST LAVENDER AVE  
 DURHAM, DURHAM COUNTY, NORTH CAROLINA

SCALE:  
 AS SHOWN

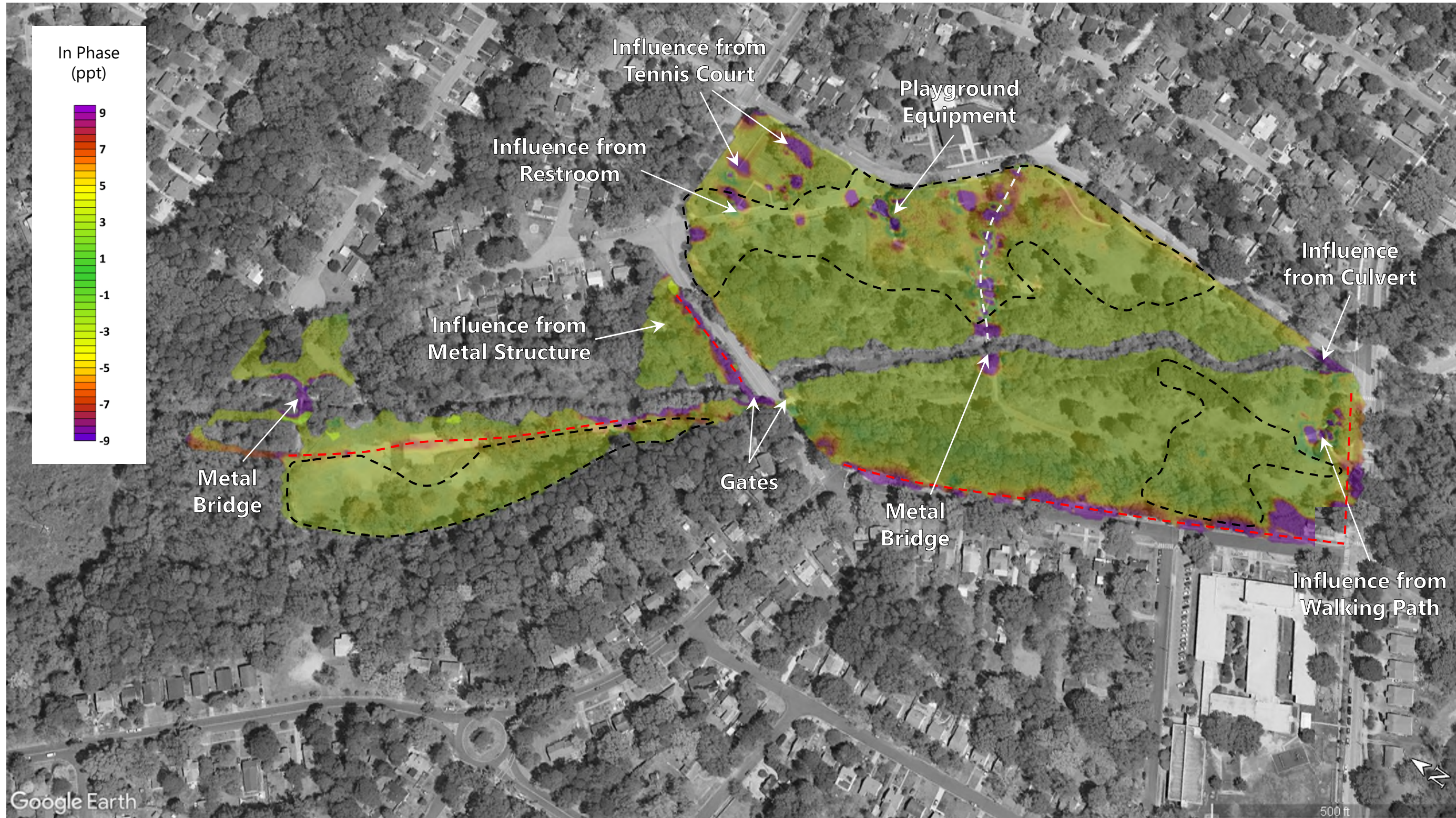
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PROJECT NUMBER  
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FIGURE NO.



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**LEGEND**

- Interpreted Extent of Possible Landfill
- Possible Utility
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**FDEM IN-PHASE DATA PLOT B - SEMI-TRANSPARENT (14 FEET)**

NORTHGATE PARK  
 NCDEQ ID No. NONCD000825, TASK ORDER - 825DP-3  
 300 WEST CLUB BLVD. & 404 WEST LAVENDER AVE  
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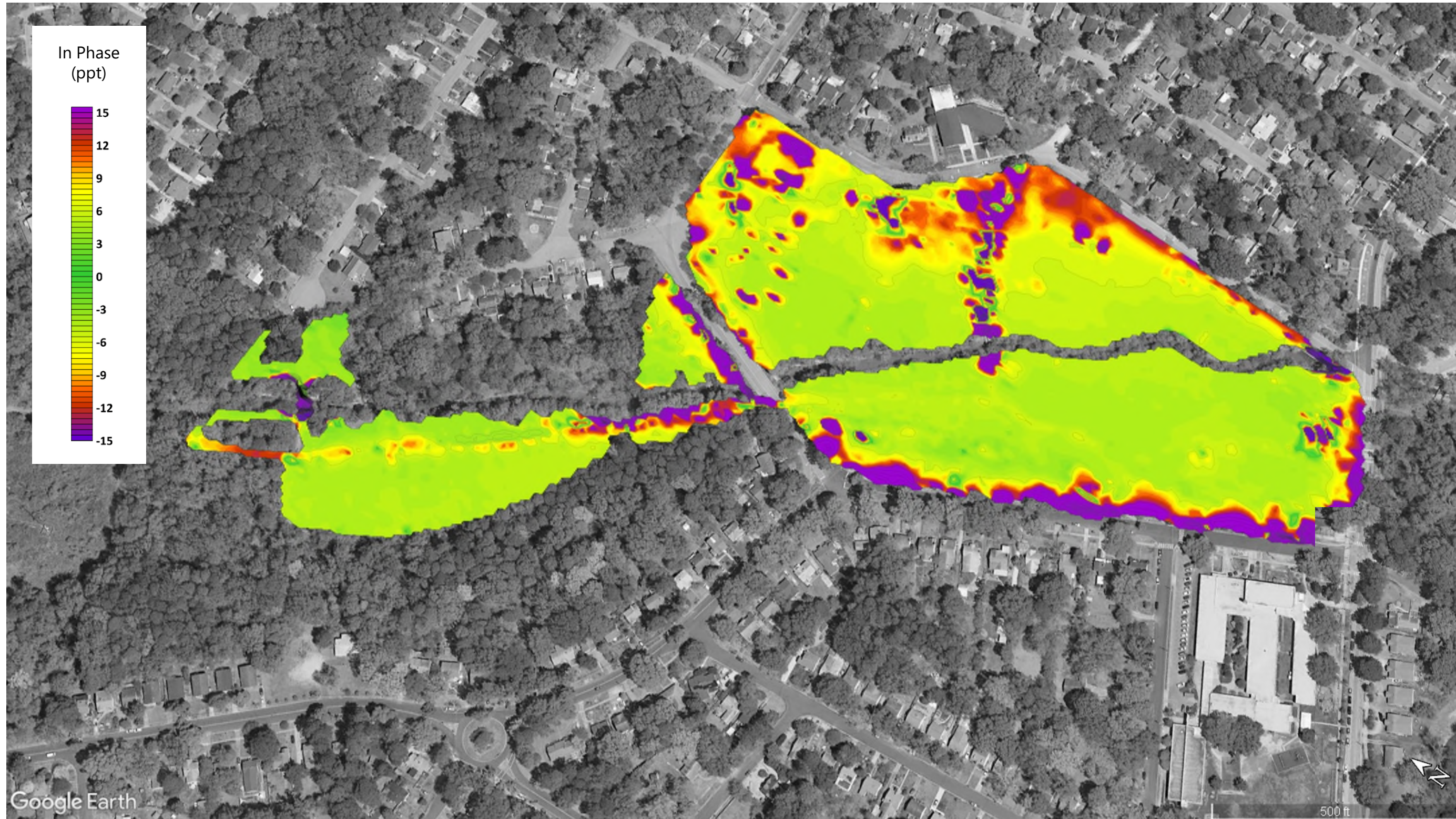
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 23050630AA

FIGURE NO.

**12**



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**FDEM IN-PHASE DATA PLOT A- OPAQUE (22 FEET)**

NORTHGATE PARK  
 NCDEQ ID No. NONCD000825, TASK ORDER - 825DP-3  
 300 WEST CLUB BLVD. & 404 WEST LAVENDER AVE  
 DURHAM, DURHAM COUNTY, NORTH CAROLINA

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FIGURE NO.

**13**



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**LEGEND**

- Interpreted Extent of Possible Landfill
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**FDEM IN-PHASE DATA PLOT B - SEMI-TRANSPARENT (22 FEET)**

NORTHGATE PARK  
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 300 WEST CLUB BLVD. & 404 WEST LAVENDER AVE  
 DURHAM, DURHAM COUNTY, NORTH CAROLINA

SCALE:  
 AS SHOWN

DATE:  
 4/29/2024

PROJECT NUMBER  
 23050630AA

FIGURE NO.

**14**