



February 1, 2010

Mr. Chris Russell
On-Scene Coordinator
U.S. Environmental Protection Agency
61 Forsyth Street, SW 11th Floor
Atlanta, Georgia 30303

Subject: Removal Investigation Report, Revision 0
American Electric
EPA Contract No. EP-W-05-053
Technical Direction Document (TDD) No. TNA-05-003-0095

Dear Mr. Russell:

Oneida Total Integrated Enterprises (OTIE) Superfund Technical Assessment and Response Team (START) is submitting one copy of the Removal Investigation Report for the American Electric Site located in Jacksonville, Duval County, Florida.

Please contact me at (678) 355-5550 ext. 5704 if you any questions or comments regarding this report.

Sincerely,

Greg Kowalski
START Program Manager

Enclosure

cc: Katrina Jones, EPA Project Officer
 Darryl Walker, EPA Project Officer
 START File

REMOVAL INVESTIGATION REPORT

AMERICAN ELECTRIC JACKSONVILLE, DUVAL COUNTY, FLORIDA CERCLIS ID: FLD061899449

Revision 0

Prepared for:

U.S. ENVIRONMENTAL PROTECTION AGENCY
Region 4
61 Forsyth Street
Atlanta, Georgia 30303

Prepared by:

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Contract No.	:	EP-W-05-053
TDD Number	:	TNA-05-003-0095
Date Submitted	:	February 1, 2010
EPA OSC	:	Chris Russell
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1.0 INTRODUCTION

The U.S. Environmental Protection Agency (EPA) tasked the Oneida Total Integrated Enterprises (OTIE) Superfund Technical Assessment and Response Team (START) to perform field activities in support of a removal investigation at American Electric (the site) located in Jacksonville, Duval County, Florida under Contract Number (No.) EP-W-05-053, Technical Direction Document (TDD) No. TNA-05-003-0095. The general purpose of a removal investigation is to collect information to assist in determining whether an uncontrolled hazardous source is present at the site and subsequently, whether hazardous substances have been released into the environment. Specifically, findings will identify the need for federal intervention under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980 and the Superfund Amendments and Reauthorization Act (SARA) of 1986.

Specifically, START was tasked with the following:

- Documenting removal investigation activities with written logbook notes and digital photographs;
- Developing a Quality Assurance Project Plan (QAPP)/Site Sampling Plan (SSP) that includes site-specific sampling and analysis procedures and quality assurance measures for conducting an investigation designed to identify PCB, metals, and dioxin contamination on-site as well as at surrounding residential parcels;
- Performing field investigation activities including soil and sediment sampling as outlined in the QAPP/SSP;
- Preparing a comprehensive report summarizing the site conditions, field investigation activities, and analytical results of the removal investigation.

This Removal Investigation Report summarizes the existing conditions at the site; describes the field investigation activities conducted by START in October 2009; and, delineates the limits, nature, and extent of soil contamination at the site. All activities and procedures described in this report were performed in accordance with the EPA Region 4 *Field Branches Quality System and Technical Procedures* (FBQSTP) (Ref. 1), and the OTIE site-specific QAPP/SSP submitted to EPA on October 2, 2009 (Ref. 2).

The following sections provide the details of this Removal Investigation Report:

- Section 2 – Describes the site and previous investigations
- Section 3 – Describes the field investigation activities
- Section 4 – Describes the quality assurance/quality control
- Section 5 – Describes the analytical results

- Section 6 – Provides the summary and conclusion

Figures and tables are provided as Appendices A and B, respectively. A photographic log is provided as Appendix C and a complete copy of the field logbook notes is presented as Appendix D. The analytical results are provided as Appendix E. References are cited throughout the removal report to substantiate site-specific statements.

2.0 SITE BACKGROUND

This section discusses the site characteristics, previous investigations, and environmental setting of the area.

2.1 SITE DESCRIPTION

The former American Electric Corporation (AE) is located at 495 and 523 South Ellis Road in Jacksonville, Duval County, Florida (Appendix A, Figure 1). The AE facility is approximately 2 acres and is divided into a northern and a southern portion by Harriet Avenue. The area surrounding the site is characterized by residential, commercial, and light industrial usage. Residential properties bound the site to the north, south, and east, and commercial properties bound the site to the west. The geographic coordinates are 30° 19' 08" north latitude and 81° 44' 37" west longitude. Several active buildings are present on the property. An office building sits in the southwest corner of the southern block while a warehouse/office building occupies the northwestern corner of the northern block. A small, one-story house, a two-story house, and a mobile home are also located along the eastern edge of the northern block.

2.2 PREVIOUS INVESTIGATIONS

In 1982, oil, soil, and groundwater samples were collected by the Jacksonville Department of Health, Welfare, and Bio-Environmental Services and analyzed for PCBs. Some oil samples contained up to 79.6% PCBs, while PCB concentrations in the soil samples ranged from 0 to 84 milligrams per kilogram (mg/kg). The groundwater sample, which was extracted from AE's supply well, contained 0.2 micrograms per liter (ug/L) PCBs. Samples collected from two residential wells also contained traces of PCBs; however, available file material does not indicate the concentrations of PCBs detected in those residential wells.

Law Engineering Testing Company (LETCO) installed five monitoring wells (MW-1, MW-2, MW-3, MW-4, and MW-5) to a depth of 24 feet below ground surface (bgs) during November and December 1982. Monthly samples were collected for three months and none of the samples collected showed PCB concentrations greater than 0.2 ug/L. In December 1982, samples collected from the same wells did not exhibit significant concentrations of heavy metals, pesticides, phenols, or coliform bacteria.

In January 1984, the warehouse/processing building was destroyed by fire. Smoke, oil, and PCB-contaminated particulates were scattered throughout the area. Immediately after the fire, EPA initiated a response action at the facility to mitigate the possible release of hazardous materials. During the response, EPA transferred the PCB-laden materials into 15 vertical storage tanks. The tanks were placed in a concrete diked containment area that was designed for this purpose. Residue samples collected contained low levels of PCBs and did not present any hazards to local residents or the environment. EPA clean-up activities commenced immediately to reduce PCB exposure potential. The clean-up materials, 44 drums of contaminated soil and contaminated fluids, were stored on the property in a semi-trailer.

In early 1985, the Florida Department of Health and Rehabilitative Services (FDHRS) collected samples from six residential wells within the AE vicinity. The samples were tested for PCBs and volatile organic compounds (VOCs). Four of the samples contained trans-1,2-dichloroethene and trichloroethene. The levels of trichloroethene detected exceeded the Florida Primary Drinking Water Standard (FPDWS). One sample contained traces of PCBs. A complete survey of nearby residential wells was completed in February 1986 by FDHRS. Eleven residential wells within a 2-block radius were sampled for PCBs and no contamination was found.

In August 1988, Florida Department of Environmental Regulation (FDER) contracted Ecology & Environmental, Inc. (E&E) to conduct a site investigation (SI) of the AE facility. One LETCO well (MW-3) was located during the site reconnaissance for the SI. The other LETCO wells were presumably destroyed during remediation activities conducted at the facility after the 1984 fire. Four soil and six groundwater samples were collected during the SI. Four of the groundwater wells were collected from on-site temporary sandpoint wells installed during the investigation, one groundwater sample was collected from MW-3 (LETCO well), and one groundwater sample was collected from a nearby residential well. The results identified the presence of metals, organic, and PCB contamination in the soils. The shallow groundwater samples contained chromium, vinyl chloride, trichloroethene, and tetrachloroethene at levels that exceed the FPDWS. Due to the on-site contamination and the potential

threat to human health and the environment, E&E recommended that a Listing Site Investigation be conducted.

In October 1988, OH Materials (OHM) conducted removal activities (Phase I site work) on the AE property on behalf of the EPA. The removal consisted of consolidating the 15 vertical aboveground storage tanks (ASTs) containing PCB-laden oil placed on-site by EPA in 1984 into three smaller ASTs. The emptied ASTs were demolished and disposed of at this time. The three ASTs were stored in a concrete containment area which was surrounded by an L-shaped, 4 foot high concrete dike. At the elbow of the L-shaped dike, an oil-water separator and pump was installed. The water within the concrete diked area was removed and diluted with additional water until PCB concentrations were less than 0.8 ug/L. The diluted water was discharged into the municipal sewer system and treated at the wastewater treatment plant. The property was placed under 24-hr surveillance during the removal activities. The remaining stabilization activities included the removal of 20,000 gallons of PCB-contaminated liquids, the demolition and removal of the three ASTs and associated containment area, and the removal of adjacent contaminated soils. Site stabilization activities were undertaken by the Ellis Road Steering Committee (a group of potentially responsible parties [PRPs]). The removal of the PCB-contaminated oils from the ASTs commenced on July 10, 1989. The contaminated oils were removed directly from the ASTs via suction tankers and pumps. A total of 16,678 gallons of PCB liquids were removed from the ASTs. The PCB liquid waste was transported off-site and disposed at the Rollins' Environmental Services, Inc. incinerator. The PCB contaminated solid material, including dismantled tank steel, demolished concrete, drummed solid material, used personal protective equipment (PPE), PCB contaminated soils, and other miscellaneous solid debris, were transported to Chemical Waste Management's Toxic Substances Control Act (TSCA)-permitted hazardous waste landfill, located in Emelle, Alabama. Sixteen truck loads of solid waste materials, totaling 344 tons, were removed from the site.

In June 2001, Roy F. Weston, Inc. START performed an expanded site inspection (ESI) on the AE property on behalf of EPA. The ESI consisted of sampling surface and subsurface soil as well as groundwater. A total of 19 surface soil samples (including one duplicate sample), 15 subsurface soil samples (including one duplicate sample), and 13 groundwater samples (including one duplicate and one background sample) were collected and analyzed for VOCs, semivolatile organic compounds (SVOCs), metals, pesticides, and PCBs. Sample results for the surface soil indicated elevated concentrations of PCB concentrations ranging from 43 ug/kg to 24,000 ug/kg, elevated SVOC concentrations ranging from 690 micrograms per kilogram (ug/kg) to 2,800 ug/kg, elevated metals concentrations ranging from 0.22

mg/kg to 9,800 mg/kg, and elevated pesticide concentrations ranging from 19 ug/kg to 260 ug/kg. Sample results for the subsurface soil indicated elevated concentrations of PCBs ranging from 120 ug/kg to 1,200 ug/kg, elevated organic contamination (bis(2-ethylhexyl)phthalate and endosulfan I) ranging from 4.7 ug/kg to 14,000 ug/kg, and elevated metals concentrations ranging from 0.1 mg/kg to 8.8 mg/kg. Sample results for the groundwater indicated elevated organic concentrations ranging from 11 ug/L to 130 ug/L and elevated metals concentrations ranging from 1.1 ug/L to 1,600 ug/L. The report recommended further action be pursued based on the analytical results and the potential risk of exposure to on-site residents and workers

Phase II site work at the facility began in January 1992 and was completed by April 1992. This operation accomplished the removal and proper disposal of the drummed waste and wastewater. An underground storage tank (UST), concrete box, and a trailer were also disposed of during this phase of site work. In addition, the PCB-contaminated soils and sediments detected on-site that contained concentrations in excess of 10 parts per million (ppm) PCB were excavated and removed from the property.

3.0 FIELD INVESTIGATION ACTIVITIES

START performed a field investigation that included soil and sediment sampling and analysis activities to identify the nature and extent of PCBs, Resource Conservation and Recovery Act (RCRA) metals, and dioxins in on-site soils as well as surrounding residential soils. Target analyte list (TAL) metals were sampled during previous investigations and based on those results, RCRA metals were chosen to be analyzed during this removal investigation instead of TAL metals. The locations to be sampled, which encompass a 4-block area, were originally subdivided into 56 grids, each measuring 100 feet by 100 feet; however, at the discretion of the EPA On-Scene Coordinator (OSC), the industrial properties (current property locations 475, 495, and 523 S. Ellis Road) were scheduled to be sampled using a modified grid system (Figure 2 in Appendix A). Because American Electric comprised the three industrial properties mentioned above, the locations were suspected to be “hot”. Therefore, the EPA OSC further divided the largest grid, 523 S. Ellis Road, into four 100 x 100 grids. The 475 S. Ellis Road location was divided into three smaller grids: D1, D2, and D3, while the 495 S. Ellis Road location was also divided into three smaller grids: E1, E2, and E3. In addition to the industrial properties to be sampled, residential properties to be sampled were divided by residential parcel location (Figure 3 in Appendix A).

A total of 3 industrial properties were sampled as well as 24 residential parcels during the removal investigation. The remaining 16 parcels were not sampled due to the inability to obtain access agreements for sampling activities to commence at the locations.

The photographic log and field logbook notes can be found in Appendices C and D, respectively.

A combined QAPP/SSP was developed for the removal investigation prior to fieldwork (Ref. 2). The QAPP/SSP describes the data quality objectives (DQO), sampling strategy, sampling methodology, and analytical procedures used during the investigation. All sampling activities were conducted in accordance with the SESD FBQSTP (November 2007) and the site-specific OTIE QAPP/SSP (Refs. 1, 2).

The removal investigation was conducted on October 5-8, 2009. START collected a total of 68 composite soil samples, 12 sediment samples, and 8 grab soil samples both on and off site in order to determine the type and distribution of impacts present at the site. The composite soil samples were collected from the industrial properties and parcel locations as shown on Figures 2 and 3 in Appendix A for analytical analysis of PCBs and RCRA metals. These soil samples were collected by hand augers from two depths – a five-point composite subsurface soil sample (0 to 12 inches bgs) labeled with suffix “A” as well as a lower subsurface soil sample (12 to 24 inches bgs) labeled with suffix “B”, were composited using stainless steel spoons, homogenized in stainless steel bowls, containerized, placed on ice, packaged in accordance with FBSQTP Packing, Marking, and Labeling of Environmental and Waste Samples (SESDPROC-209-R1), and submitted to Columbia Analytical Services (CAS) in Jacksonville, Florida for analysis of PCBs and RCRA metals in accordance with SW846 Method 8082 and SW846 Method 6010B/7471A, respectively. The sediment samples were collected as grab samples from drainage ditches that run along Tyler Avenue, Harriet Avenue, and Leaming Avenue as shown on Figure 4 in Appendix A using stainless steel spoons and were containerized, placed on ice, packaged in accordance with FBSQTP SESDPROC-209-R1, and submitted to CAS for analysis of PCBs by SW846 Method 8092 and RCRA metals by SW846 Method 6010B/7471A. The dioxin samples were collected as surface soil grab samples at the request of the EPA OSC from areas where elevated concentrations of PCBs were historically found as shown on Figure 5 in Appendix A. These samples were collected using hand augers, containerized, placed on ice, packaged in accordance with FBSQTP SESDPROC-209-R1, and submitted to CAS for analysis of dioxins in accordance with SW846 Method 8290. The data gathered during the field investigation was used to determine the presence or absence of site-attributable contaminants that may pose a threat to human health and the environment.

Geographic positioning information was collected for all sampling locations. Portions of the industrial area grid found in Figure 2 and the parcel map found in Figure 3 were geographically referenced using ArcView and uploaded to a hand-held Trimble[®] GPS system. Field sampling personnel collected coordinates from each of the four corners of the grid or parcel as well as the center point in order to collect the sampling location coordinates. Table 1 provided in Appendix B presents the GPS coordinates for each sample location.

4.0 QUALITY ASSURANCE/QUALITY CONTROL

QA/QC data are necessary to determine precision and accuracy and to demonstrate the absence of interferences and/or contamination of sampling equipment, glassware, and reagents. This section describes the QA/QC measures taken and provides an evaluation of the usability of data presented in this report.

All samples were collected in accordance with the EPA SESD FBQSTP and the guidance presented in the approved site-specific QAPP/SSP (Refs. 1, 2). A total of 68 composite soil samples and 12 sediment samples were collected and analyzed by CAS for confirmation PCB and RCRA metals analysis by SW846 Method 8082 and SW846 Method 6010B/7471A, respectively. A total of eight surface soil grab samples were also collected and analyzed by CAS for dioxin analysis by SW846 Method 8290.

4.1 QUALITY ASSURANCE/QUALITY CONTROL SAMPLES

QC samples included matrix spike (MS)/matrix spike duplicate (MSD) for PCB and RCRA metals analyses at a rate of one MS/MSD per 20 samples per matrix per analysis. A total of four MS/MSDs (samples 5531A, 5531B, 5520-B, and AE-SD-05) were collected by OTIE and submitted to the laboratory for analysis. Field duplicate samples were analyzed at a rate of one field duplicate per 10 soil/sediment samples per analysis. A total of eight field duplicates (samples AE-FD-100, AE-FD-101, AE-FD-102, AE-FD-103, AE-FD-104, AE-FD-105, AE-FD-106, and AE-SD-13) were collected by OTIE and submitted to the laboratory for analysis. The percent difference (%D) for the native samples and their associated field duplicate results were within the limits specified in the site-specific QAPP/SSP with the following exceptions:

- For native sample 456A and its duplicate AE-FD-102, the %D for arsenic was 71%;
- For native sample 5541A and its duplicate AE-FD-100, the %D for arsenic was 59.3% and the %D for barium was 69.5%;

- For native sample 5541B and its duplicate AE-FD-101, the %D for lead was 56.4%;
- For native sample 5527-A and its duplicate AE-FD-106, the %D for barium was 110%;
- For native sample AE-SD-04 and its duplicate AE-SD-13, the %D for arsenic was 50.8%.

The high %D found can be attributed to the non-homogeneous nature of soils.

5.0 SITE INVESTIGATION RESULTS

The following sections summarize the laboratory results for soil samples collected during the removal investigation field sampling activities. For the purposes of evaluating sample results, PCB and metal results were compared to both the Removal Action Levels (RALs) for residential soil as well as the Florida Department of Environmental Protection (FDEP) Soil Cleanup Target Levels (SCTLs) for residential soil as shown in Appendix B, Table 2. Dioxin results were compared to the RALs and FDEP SCTLs for residential soil as well as EPA Preliminary Remediation Goals (PRGs) as shown in Appendix B, Table 3.

From October 5 to October 8, 2009, START conducted sampling of sediment and soils at specified industrial properties and parcel locations for analytical analysis of PCBs, RCRA metals, and a limited number of samples for dioxins analysis in order to determine the type and distribution of impacts present at the site. A total of 68 soil composite subsurface samples and 7 duplicates were collected from 24 parcels and 3 industrial properties and analyzed for PCBs and metals. In addition, 12 sediment samples and one duplicate from various drainage areas within the 4-block radius specified by the EPA OSC were collected and analyzed for PCBs and metals, and 8 soil grab samples were collected from locations specified by the EPA OSC for dioxin analysis. Sample results can be found on Tables 2 and 3 located in Appendix B.

Laboratory results for the soil composite samples indicated 2 samples above the residential RAL of 22,100 ug/kg for Aroclor-1260, with concentrations ranging from 24,000 ug/kg to 33,000 ug/kg, 8 samples above the residential FDEP SCTL of 500 ug/kg for Total PCBs, with concentrations ranging from 590 ug/kg to 9,700 ug/kg, 3 samples above both the residential RAL (24,300 ug/kg) and the residential FDEP SCTL (500 ug/kg) for Total PCBs, with concentrations ranging from 25,600 ug/kg to 33,000 ug/kg, and 10 samples above the residential FDEP SCTL of 2.1 mg/kg for arsenic, with concentrations ranging from 2.2 mg/kg to 24 mg/kg. Laboratory results for the sediment locations indicated 7 samples with concentrations of Total PCBs above the residential FDEP SCTL of 500 ug/kg,

with ranges between 530 ug/kg and 2,300 ug/kg and 4 samples with concentrations of arsenic above the residential FDEP SCTL of 2.1 mg/kg, with ranges between 2.2 mg/kg and 3.7 mg/kg. Sample results for PCBs and metals above their respective RALs/FDEP SCTLs are found in Appendix A, Figure 6.

Laboratory results for the soil grab samples indicated that four samples were above the residential FDEP SCTL of 7 nanograms per kilogram (ng/kg) for the Toxicity Equivalence Quotient (TEQ), with concentrations ranging from 9.05 ng/kg to 54.8 ng/kg, and one sample was above both the residential FDEP SCTL (7 ng/kg) and the EPA PRG of 1,000 ng/kg for the TEQ, with a value of 1,790 ng/kg. Sample results for dioxins above their respective limits are found in Appendix A, Figure 7.

6.0 SUMMARY AND CONCLUSIONS

The AE site is located at 495 and 523 South Ellis Road in Jacksonville, Duval County, Florida (Appendix A, Figure 1). The AE facility is approximately 2 acres and is divided into a northern and a southern portion by Harriet Avenue. The area surrounding the site is characterized by residential, commercial, and light industrial usage. Residential properties bound the site to the north, south, and east, and commercial properties bound the site to the west. The geographic coordinates are 30° 19' 08" north latitude and 81° 44' 37" west longitude. Several active buildings are present on the property. An office building sits in the southwest corner of the southern block while a warehouse/office building occupies the northwestern corner of the northern block. A small, one-story house, a two-story house, and a mobile home are also located along the eastern edge of the northern block.

Analytical results from previous investigations at the site indicate that elevated levels of PCBs, metals, organics, and SVOCs were detected in soils and elevated levels of organics and metals were detected in groundwater.

On October 5-8, 2009, START performed field investigation activities at the site, including identification of areas of contamination at the site, evaluation of the hazardous nature of those contaminants, and compiling and presenting the information to EPA in order to determine the need for federal intervention under CERCLA. A total of 88 soil and sediment samples, including duplicates, were collected for PCB and metals analyses. In addition, 8 soil samples were also collected for dioxin analysis. Results of these analyses indicated that 14 samples exceeded the residential FDEP SCTL for arsenic, 2 samples exceeded the residential RAL for Aroclor-1260, 15 samples exceeded the residential FDEP SCTL for Total PCBs, 3 samples exceeded both the residential RAL and the residential FDEP SCTL for Total PCBs, four samples

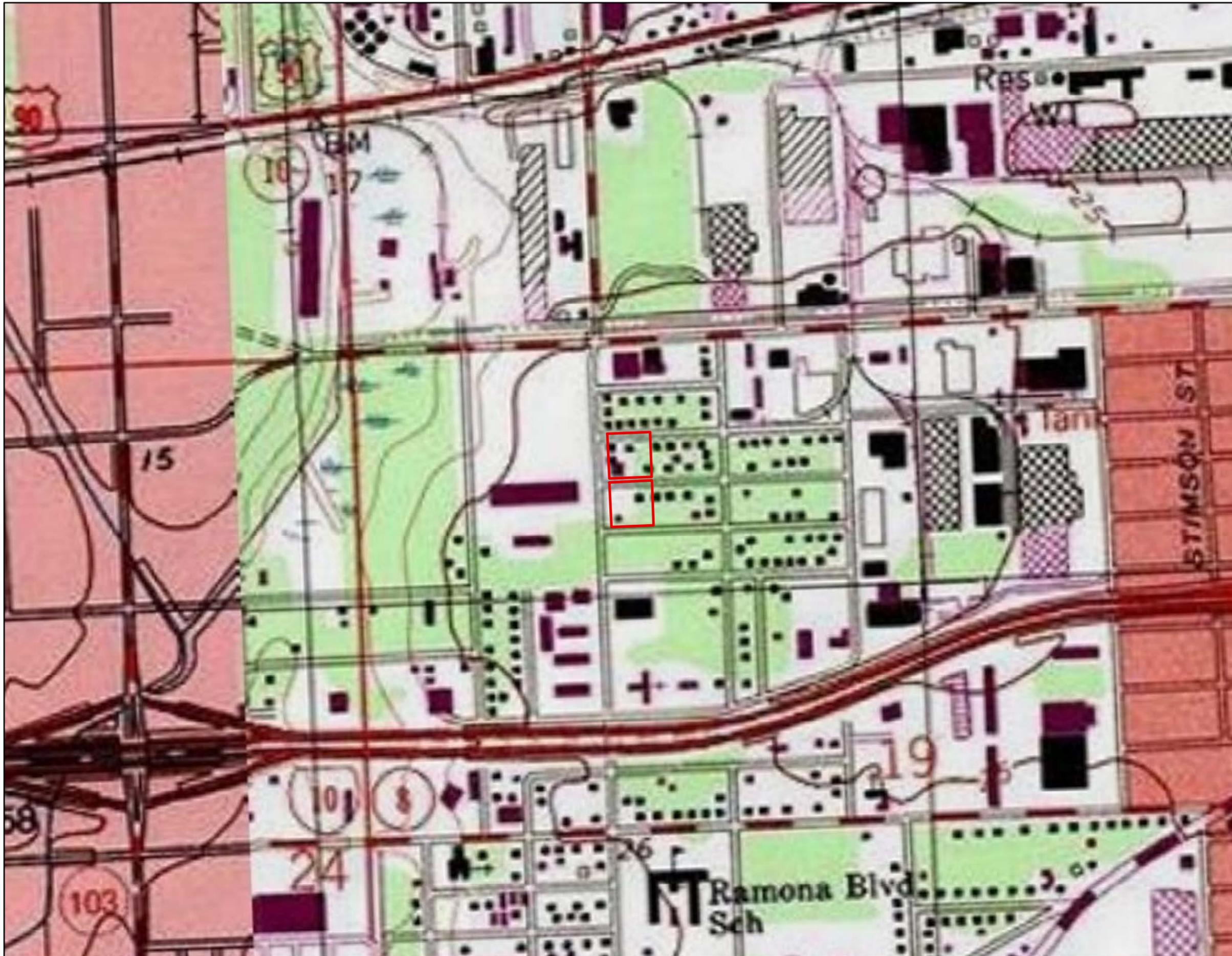
exceeded the residential FDEP SCTL for the dioxins TEQ, and one sample was above both the residential FDEP SCTL and the EPA PRG for the dioxins TEQ.

Further activities associated with this site will be determined by EPA.

7.0 REFERENCES

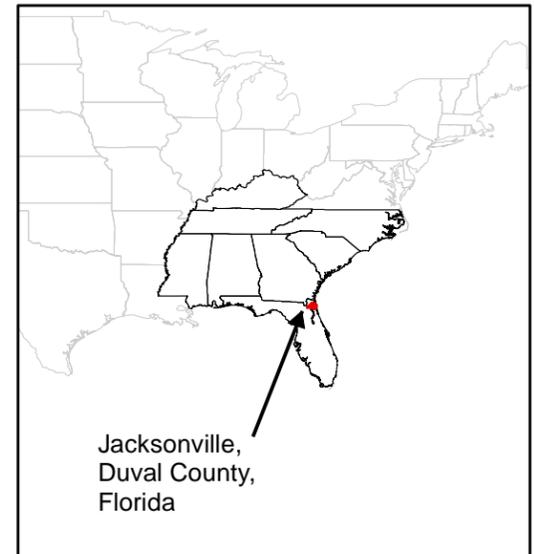
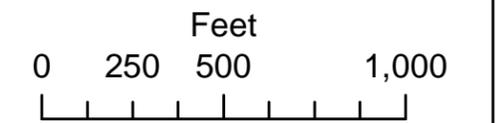
1. U.S. Environmental Protection Agency (EPA). Region 4 Science and Ecosystems Support Division. Field Branches Quality System and Technical Procedures (FBQSTP). November 2007.
2. Oneida Total Integrated Enterprises (OTIE) Superfund Technical Assessment and Response Team (START). Quality Assurance Project Plan/Site-Specific Sampling Plan (QAPP/SSP). October 2, 2009.

APPENDIX A
FIGURES



Legend

 Site Boundary



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**AMERICAN ELECTRIC
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FLORIDA**
TDD No: TNA-05-003-0095

**FIGURE 1
TOPOGRAPHICAL MAP**



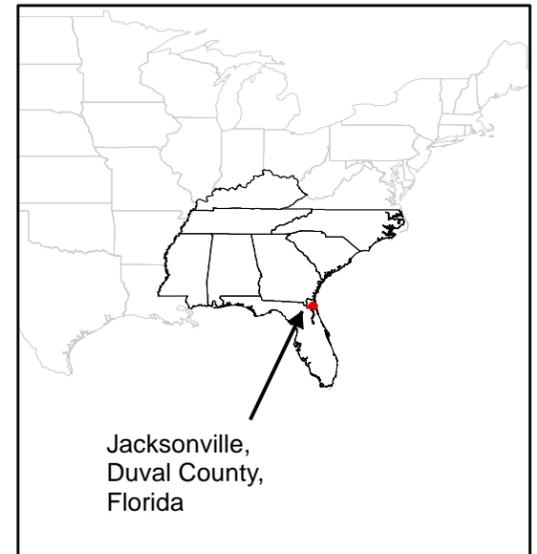
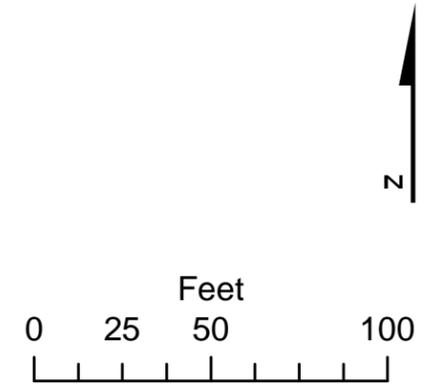


Aerial By: Digital Globe

Disclaimer: This map is intended for visual orientation use only. In no way is this map to be used for precise locational use.

Legend

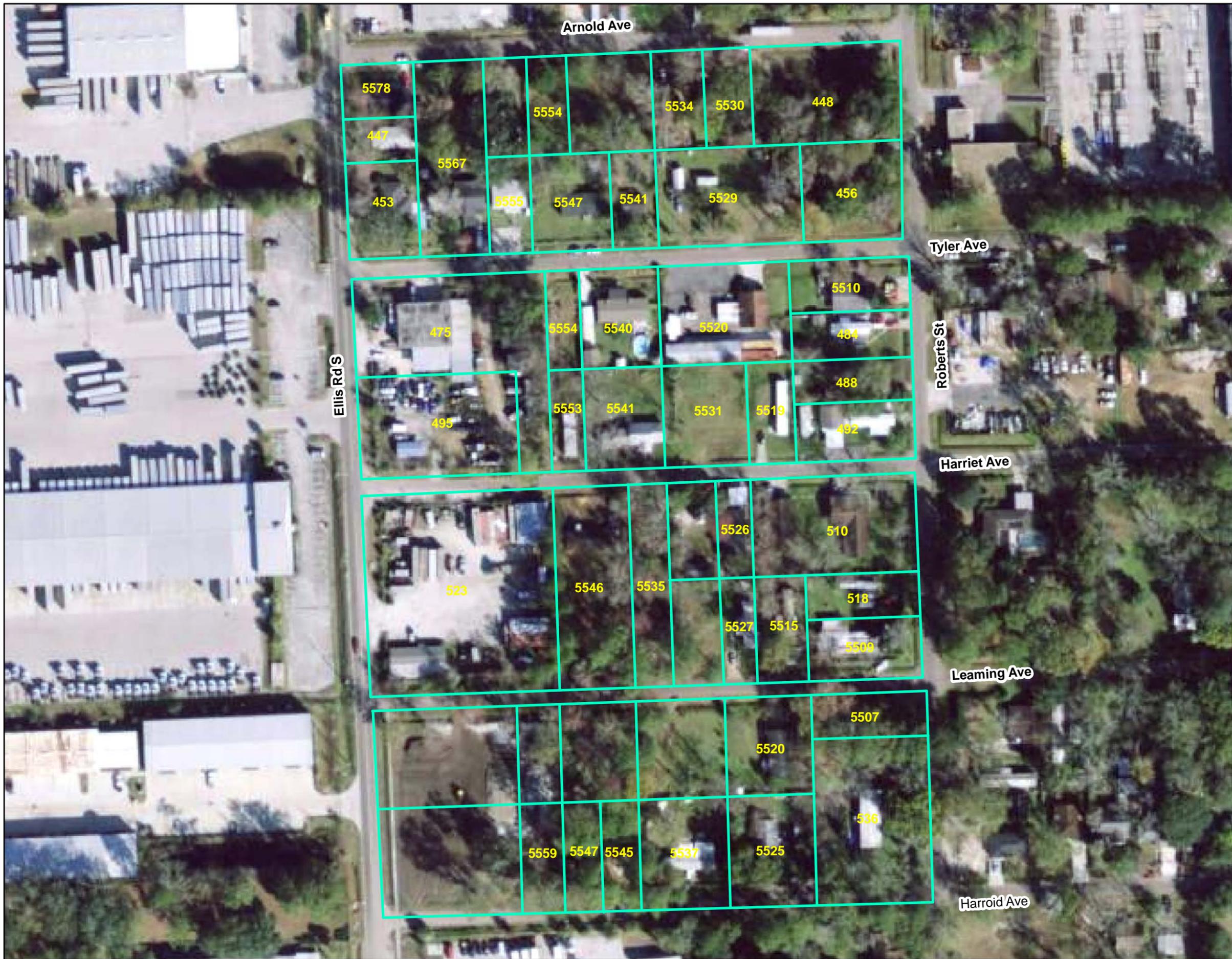
Industrial Area Grid Map



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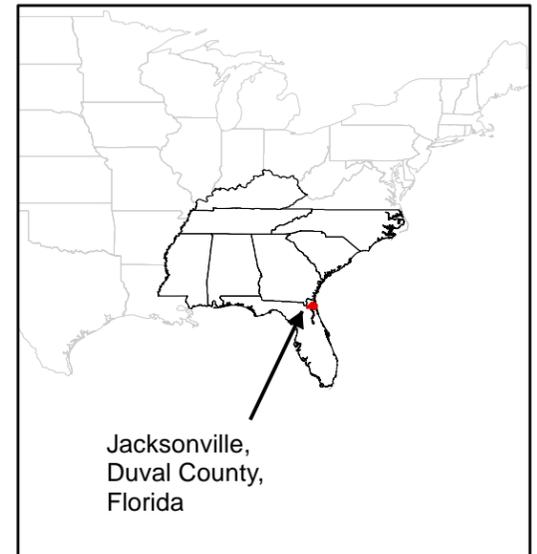
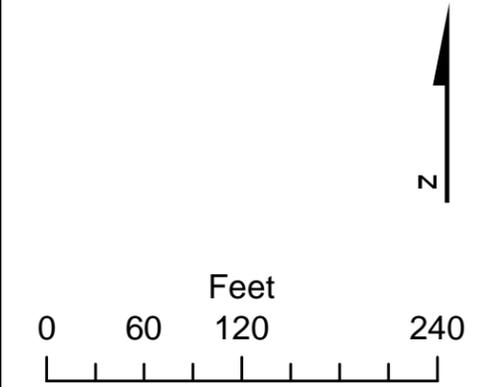
**FIGURE 2
INDUSTRIAL AREA
GRID MAP**





Legend

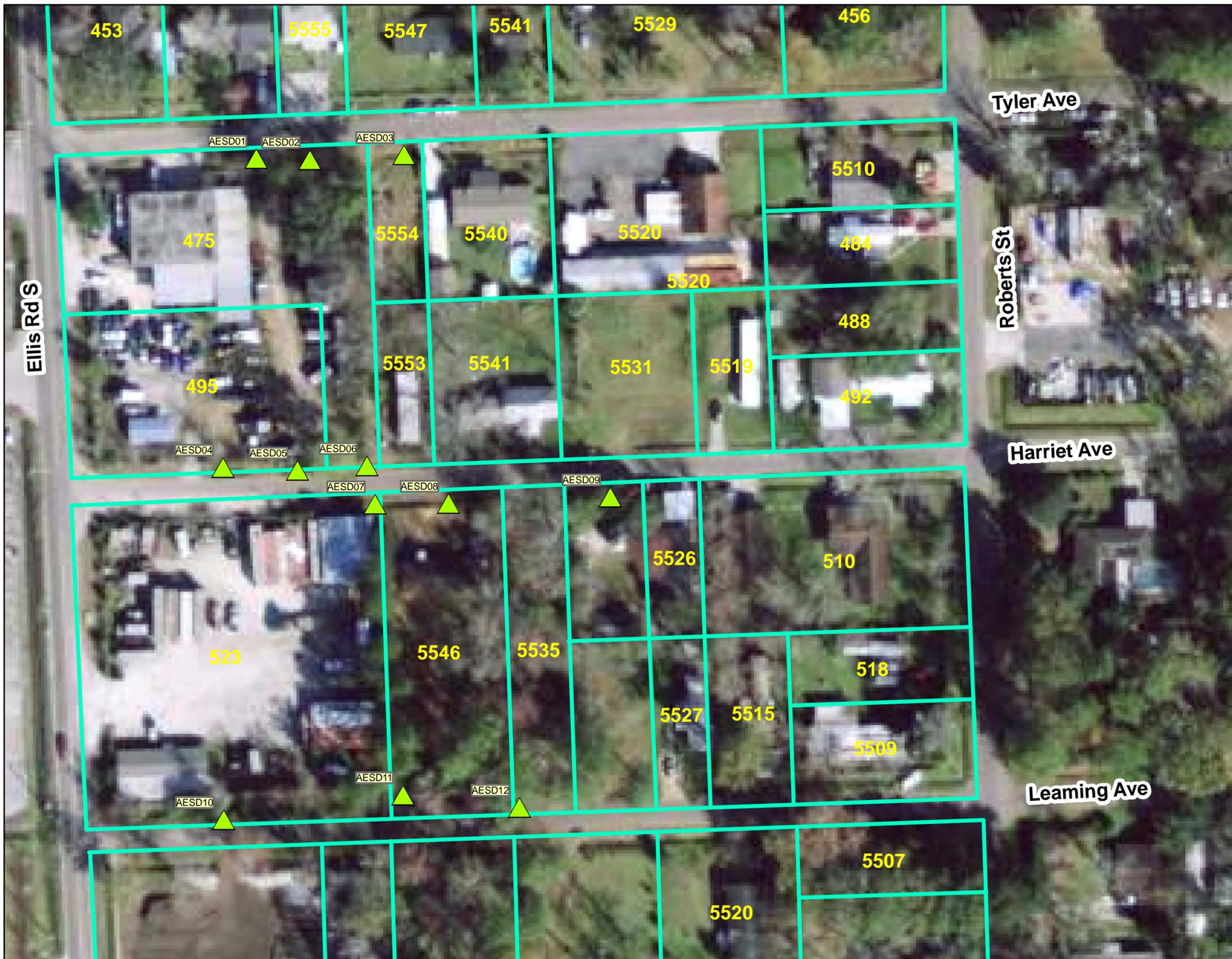
 Parcel Boundary



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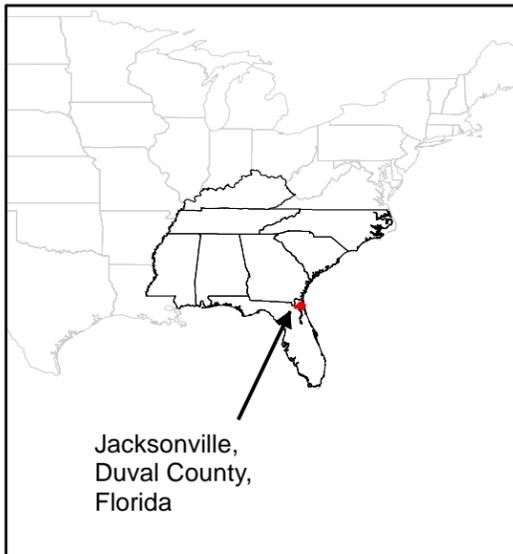
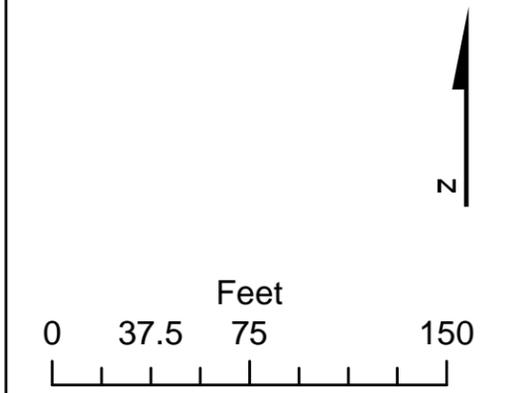
**FIGURE 3
PARCEL MAP**





Legend

- Parcel Boundary
- ▲ Sediment Samples



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**FIGURE 4
SEDIMENT SAMPLES
LOCATION MAP**



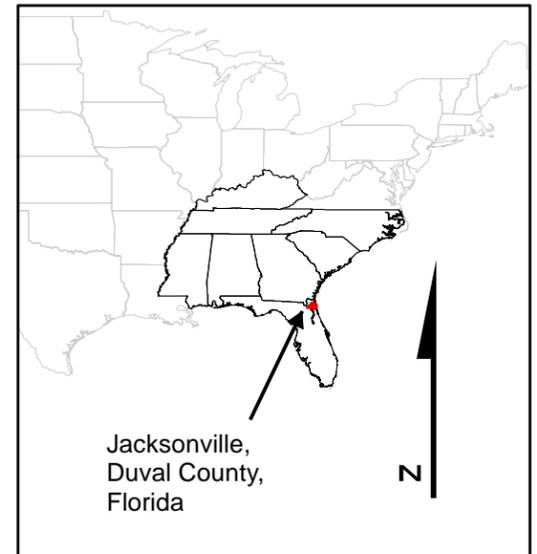
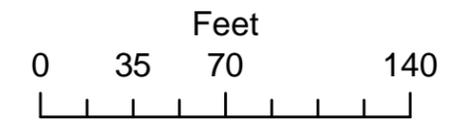


Aerial By: Digital Globe

Disclaimer: This map is intended for visual orientation use only. In no way is this map to be used for precise locational use.

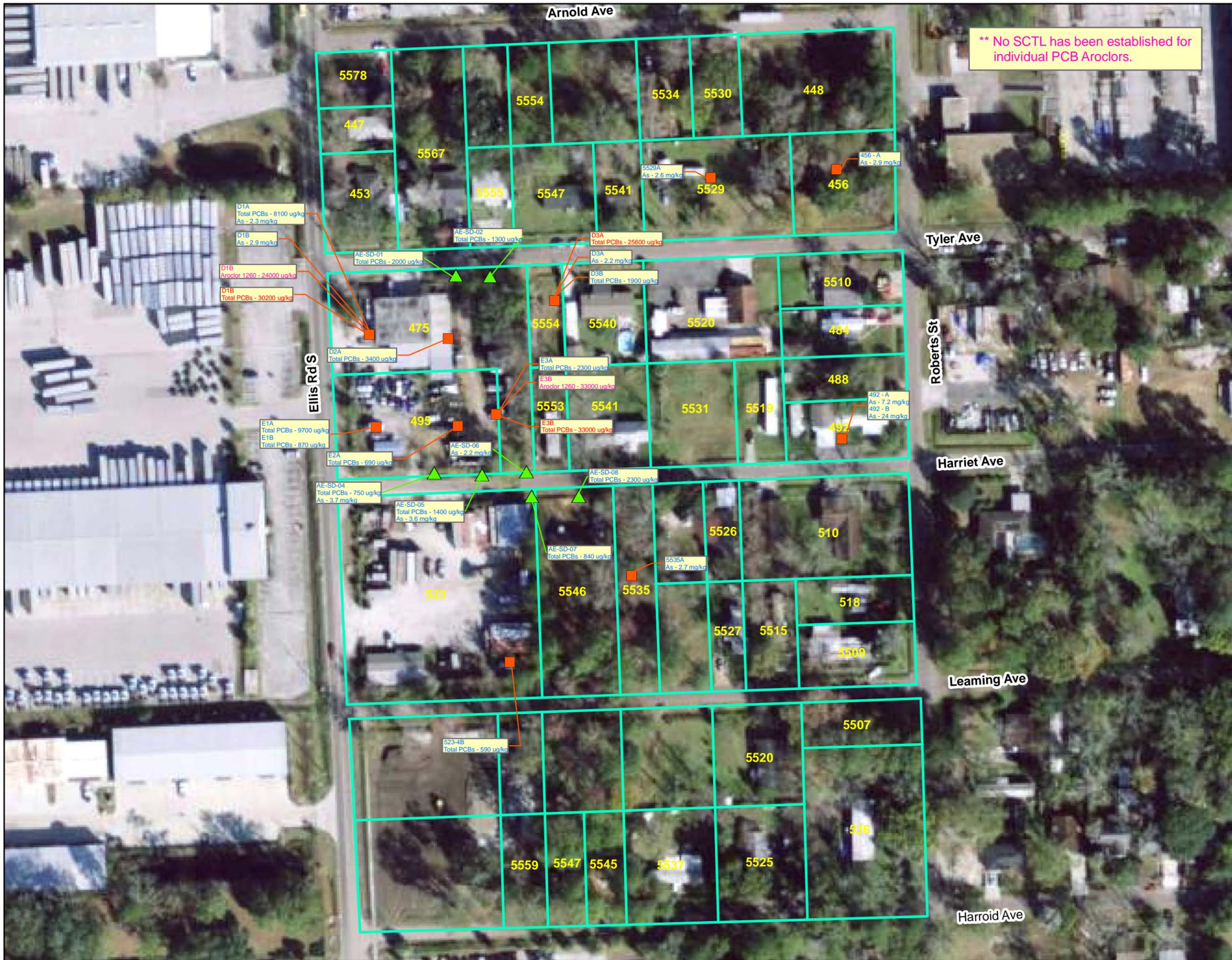
Legend

- Site boundary
- Parcel Boundary
- Dioxin Sample Location



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TDD No: TNA-05-003-0095
**FIGURE 5
 DIOXIN SAMPLE
 LOCATION MAP**

...GIS Workspace\American Electric\mapping



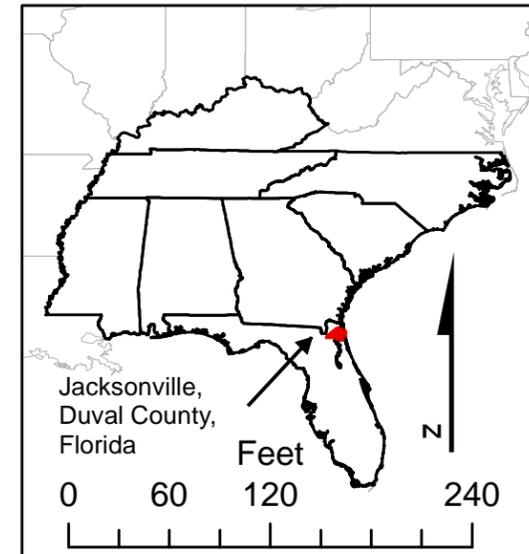
** No SCTL has been established for individual PCB Aroclors.

Legend

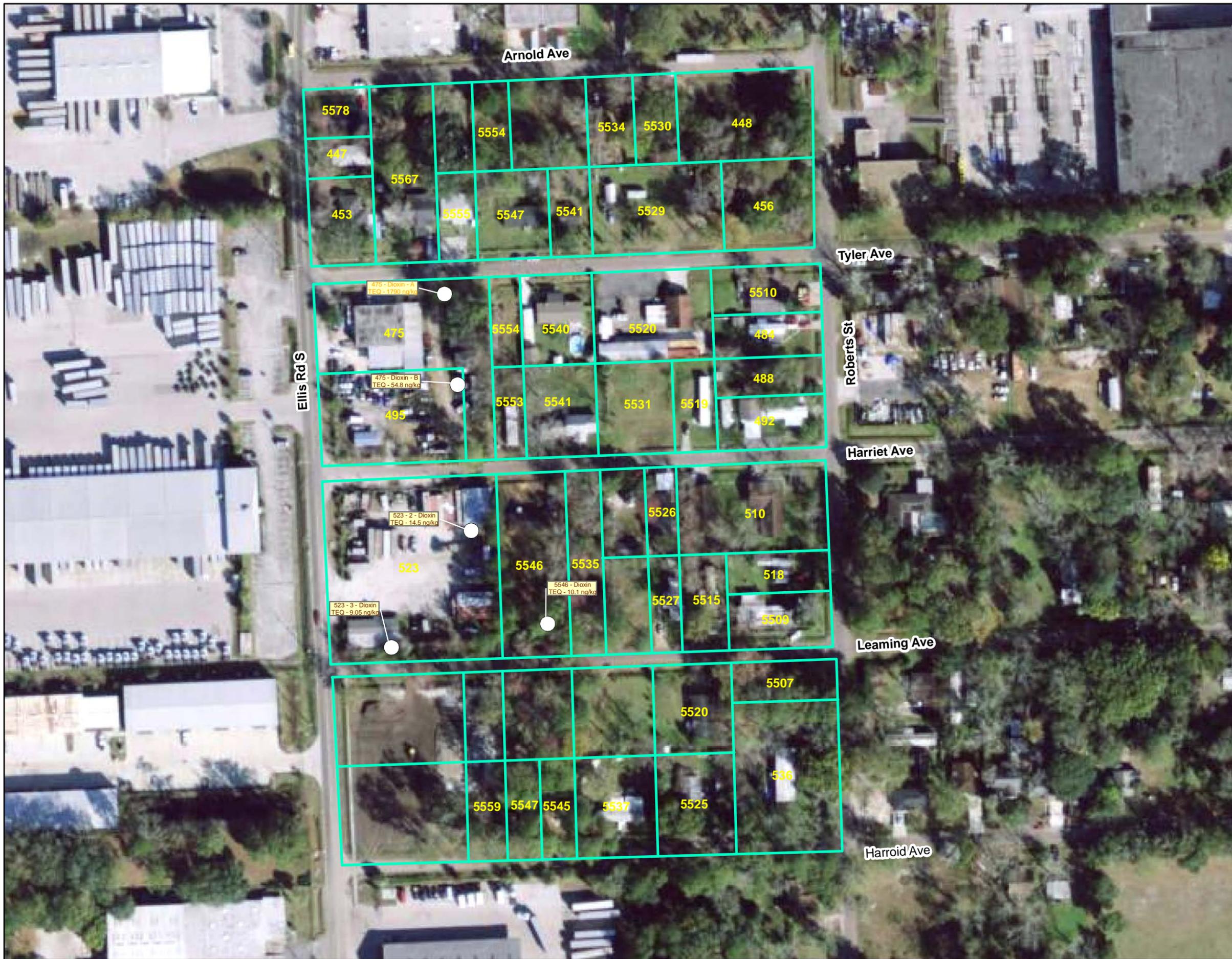
- Parcel Boundary
- Subsurface Soil Samples in Exceedance
- ▲ Sediment Samples In Exceedance

Value exceeds the RAL **
 Value exceeds the SCTL but not the RAL
 Value exceeds both SCTL and the RAL

Notes:
 RAL = Removal Action Level
 SCTL = Soil Cleanup Target Level
 mg/kg = Milligrams per kilogram
 ug/kg = Micrograms per kilogram
 PCB = Polychlorinated biphenyls
 As = Arsenic



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**FIGURE 6
 PCB & METAL
 EXCEEDANCES**

Legend

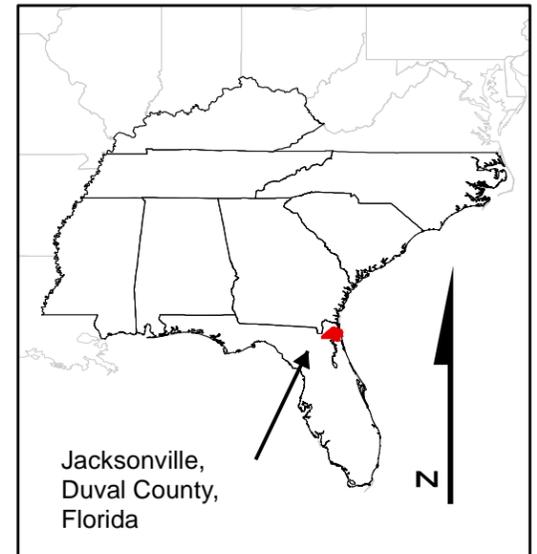
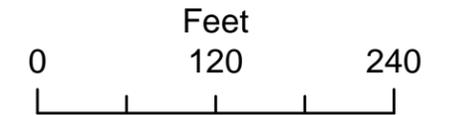
- Dioxin Samples in Exceedance
- Parcel Boundary

Value exceeds two or more regulatory limits (SCTL, RAL, PRG)

Value exceeds either the SCTL, RAL, or the PRG

Notes:

RAL = Removal Action Level
 SCTL = Soil Cleanup Target Level
 PRG = Preliminary Remediation Goal
 TEQ = Toxicity Equivalence Quotient
 ng/kg = Nanograms per kilogram



**AMERICAN ELECTRIC
 JACKSONVILLE,
 DUVAL COUNTY,
 FLORIDA**
 TDD No: TNA-05-003-0095
**FIGURE 7
 DIOXIN
 EXCEEDANCES**



APPENDIX B
TABLES

**Table 1
American Electric
Sample Location Coordinates**

Location	Latitude	Longitude	Sample ID	Sample Date	Sample Depth (fbgs)	Sample Type
453A	30.32018671210	-81.74347514330	453A	10/7/2009	0.5	Field Sample
453B	30.32018671210	-81.74347514330	453B	10/7/2009	1.5	Field Sample
456A	30.32017362150	-81.74171784930	456A	10/6/2009	0.5	Field Sample
456A	30.32017362150	-81.74171784930	AE-FD-102	10/6/2009	0.5	Field Duplicate
456B	30.32017362150	-81.74171784930	AE-FD-103	10/6/2009	1.5	Field Duplicate
456B	30.32017362150	-81.74171784930	456B	10/6/2009	1.5	Field Sample
475A	30.31985481210	-81.74305714610	475A-Dioxin	10/7/2009	0.5	Field Sample
475B	30.31951889860	-81.74301104160	475B-Dioxin	10/7/2009	0.5	Field Sample
484A	30.31962533090	-81.74172561830	484A	10/6/2009	0.5	Field Sample
484B	30.31962533090	-81.74172561830	484B	10/6/2009	1.5	Field Sample
488A	30.31946928210	-81.74174716800	488A	10/6/2009	0.5	Field Sample
488B	30.31946928210	-81.74174716800	488B	10/6/2009	1.5	Field Sample
492A	30.31931648200	-81.74173345620	492A	10/6/2009	0.5	Field Sample
492B	30.31931648200	-81.74173345620	492B	10/6/2009	1.5	Field Sample
510A	30.31897886860	-81.74180159350	510A	10/7/2009	0.5	Field Sample
510B	30.31897886860	-81.74180159350	510B	10/7/2009	1.5	Field Sample
523-1A	30.31902031050	-81.74340305800	523-1A	10/7/2009	0.5	Field Sample
523-1B	30.31902031050	-81.74340305800	523-1B	10/7/2009	1.5	Field Sample
523-2	30.31909284390	-81.74289371170	523-2-Dioxin	10/7/2009	0.5	Field Sample
523-2A	30.31907693440	-81.74298357080	523-2A	10/7/2009	0.5	Field Sample
523-2B	30.31907693440	-81.74298357080	523-2B	10/7/2009	1.5	Field Sample
523-3	30.31856408030	-81.74352982430	523-3-Dioxin	10/7/2009	0.5	Field Sample
523-3A	30.31870632100	-81.74340104520	523-3A	10/7/2009	0.5	Field Sample
523-3B	30.31870632100	-81.74340104520	523-3B	10/7/2009	1.5	Field Sample
523-4	30.31858126920	-81.74318997390	523-4-Dioxin	10/7/2009	0.5	Field Sample
523-4A	30.31864521860	-81.74298143250	523-4A	10/7/2009	0.5	Field Sample
523-4B	30.31864521860	-81.74298143250	523-4B	10/7/2009	1.5	Field Sample
536A	30.31811292210	-81.74171702160	536A	10/8/2009	0.5	Field Sample
536B	30.31811292210	-81.74171702160	536B	10/8/2009	1.5	Field Sample
5515A	30.31875017740	-81.74201716430	5515A	10/8/2009	0.5	Field Sample
5515B	30.31875017740	-81.74201716430	5515B	10/8/2009	1.5	Field Sample
5519A	30.31946534490	-81.74203837810	5519A	10/6/2009	0.5	Field Sample
5519B	30.31946534490	-81.74203837810	5519B	10/6/2009	1.5	Field Sample
5520A	30.31835565560	-81.74208886660	5520A	10/8/2009	0.5	Field Sample
5520B	30.31835565560	-81.74208886660	5520B	10/8/2009	1.5	Field Sample

**Table 1
American Electric
Sample Location Coordinates**

Location	Latitude	Longitude	Sample ID	Sample Date	Sample Depth (fbgs)	Sample Type
5526A	30.31899952740	-81.74218268450	5526A	10/7/2009	0.5	Field Sample
5526B	30.31899952740	-81.74218268450	5526B	10/7/2009	1.5	Field Sample
5527A	30.31876003480	-81.74219265200	5527A	10/8/2009	0.5	Field Sample
5527A	30.31876003480	-81.74219265200	AE-FD-106	10/8/2009	0.5	Field Duplicate
5527B	30.31876003480	-81.74219265200	5527B	10/8/2009	1.5	Field Sample
5529A	30.32016197920	-81.74217999670	5529A	10/6/2009	0.5	Field Sample
5529B	30.32016197920	-81.74217999670	5529B	10/6/2009	1.5	Field Sample
5531A	30.31938576800	-81.74227753790	5531A	10/6/2009	0.5	Field Sample
5531B	30.31938576800	-81.74227753790	5531B	10/6/2009	1.5	Field Sample
5535A	30.31890555540	-81.74252331520	5535A	10/7/2009	0.5	Field Sample
5535B	30.31890555540	-81.74252331520	5535B	10/7/2009	1.5	Field Sample
5537A	30.31802575930	-81.74241418510	5537A	10/8/2009	0.5	Field Sample
5537B	30.31802575930	-81.74241418510	5537B	10/8/2009	1.5	Field Sample
5540A	30.31967003880	-81.74259689790	5540A	10/6/2009	0.5	Field Sample
5540B	30.31967003880	-81.74259689790	5540B	10/6/2009	1.5	Field Sample
5541A(Harriet Ave.)	30.31949691910	-81.74259275400	5541A	10/6/2009	0.5	Field Sample
5541A(Harriet Ave.)	30.31949691910	-81.74259275400	AE-FD-100	10/6/2009	0.5	Field Duplicate
5541-A(Tyler Ave.)	30.32008173630	-81.74251988430	5541-A(Tyler)	10/6/2009	0.5	Field Sample
5541B(Harriet Ave.)	30.31949691910	-81.74259275400	5541B	10/6/2009	1.5	Field Sample
5541B(Harriet Ave.)	30.31949691910	-81.74259275400	AE-FD-101	10/6/2009	1.5	Field Duplicate
5541-B(Tyler Ave.)	30.32008173630	-81.74251988430	5541-B(Tyler)	10/6/2009	1.5	Field Sample
5546	30.31864860100	-81.74267388640	5546-Dioxin	10/7/2009	0.5	Field Sample
5546A	30.31890764660	-81.74272928050	5546A	10/7/2009	0.5	Field Sample
5546B	30.31890764660	-81.74272928050	5546B	10/7/2009	1.5	Field Sample
5547A	30.31803802150	-81.74280567330	5547A	10/8/2009	0.5	Field Sample
5547B	30.31803802150	-81.74280567330	5547B	10/8/2009	1.5	Field Sample
5554	30.31975353100	-81.74278830790	5554-Dioxin	10/7/2009	0.5	Field Sample
5555A	30.32017613310	-81.74299813870	5555A	10/6/2009	0.5	Field Sample
5555B	30.32017613310	-81.74299813870	5555B	10/6/2009	1.5	Field Sample
5567	30.32005716150	-81.74321563800	5567-Dioxin	10/6/2009	0.5	Field Sample
5567A	30.32032239110	-81.74321318500	5567A	10/6/2009	0.5	Field Sample
5567B	30.32032239110	-81.74321318500	5567B	10/6/2009	1.5	Field Sample
D1A	30.31970217900	-81.74345403470	D1A	10/5/2009	0.5	Field Sample
D1B	30.31970217900	-81.74345403470	D1B	10/5/2009	1.5	Field Sample
D2A	30.31968008190	-81.74316455470	D2A	10/6/2009	0.5	Field Sample

**Table 1
American Electric
Sample Location Coordinates**

Location	Latitude	Longitude	Sample ID	Sample Date	Sample Depth (fbgs)	Sample Type
D2B	30.31968008190	-81.74316455470	D2B	10/6/2009	1.5	Field Sample
D3A	30.31978869480	-81.74276851280	D3A	10/6/2009	0.5	Field Sample
D3B	30.31978869480	-81.74276851280	D3B	10/6/2009	1.5	Field Sample
E1A	30.31940640470	-81.74344130670	E1A	10/5/2009	0.5	Field Sample
E1B	30.31940640470	-81.74344130670	E1B	10/5/2009	1.5	Field Sample
E2A	30.31940134690	-81.74314110490	E2A	10/5/2009	0.5	Field Sample
E2B	30.31940134690	-81.74314110490	E2B	10/5/2009	1.5	Field Sample
E3A	30.31943408930	-81.74299866810	E3A	10/6/2009	0.5	Field Sample
E3B	30.31943408930	-81.74299866810	E3B	10/6/2009	1.5	Field Sample
Leaming-A	30.31829974160	-81.74325020420	Leaming-A	10/8/2009	0.5	Field Sample
Leaming-A	30.31829974160	-81.74325020420	AE-FD-104	10/8/2009	0.5	Field Duplicate
Leaming-B	30.31829974160	-81.74325020420	AE-FD-105	10/8/2009	1.5	Field Duplicate
Leaming-B	30.31829974160	-81.74325020420	Leaming-B	10/8/2009	1.5	Field Sample
Sediment-01	30.31987985890	-81.74312928920	AE-SD-01	10/8/2009	0.13	Field Sample
Sediment-02	30.31987360090	-81.74300377190	AE-SD-02	10/8/2009	0.13	Field Sample
Sediment-03	30.31987652560	-81.74278249180	AE-SD-03	10/8/2009	0.13	Field Sample
Sediment-04	30.31925455800	-81.74323395480	AE-SD-04	10/8/2009	0.13	Field Sample
Sediment-04	30.31925455800	-81.74323395480	AE-SD-13	10/8/2009	0.13	Field Duplicate
Sediment-05	30.31924327760	-81.74305902660	AE-SD-05	10/8/2009	0.13	Field Sample
Sediment-06	30.31924721790	-81.74289538710	AE-SD-06	10/8/2009	0.13	Field Sample
Sediment-07	30.31916891690	-81.74288026290	AE-SD-07	10/8/2009	0.13	Field Sample
Sediment-08	30.31916458430	-81.74270743660	AE-SD-08	10/8/2009	0.13	Field Sample
Sediment-09	30.31916597950	-81.74232720920	AE-SD-09	10/8/2009	0.13	Field Sample
Sediment-10	30.31853830660	-81.74326174860	AE-SD-10	10/8/2009	0.13	Field Sample
Sediment-11	30.31857540500	-81.74283884360	AE-SD-11	10/8/2009	0.13	Field Sample
Sediment-12	30.31854148570	-81.74256647090	AE-SD-12	10/8/2009	0.13	Field Sample

Notes:

fbgs = Feet below ground surface

FD = Field duplicate

Table 2
American Electric
Laboratory Analytical Results - October 2009
PCB and Metals Analyses

Analyte	FDEP Residential SCTL	Residential RAL	Sample ID	456A	AE-FD-102	456B	AE-FD-103	484A	484B	488A	488B	
			Sample Date	10/6/2009	10/6/2009	10/6/2009	10/6/2009	10/6/2009	10/6/2009	10/6/2009	10/6/2009	10/6/2009
			Sample Depth (fbgs)	0.5	0.5	1.5	1.5	0.5	1.5	0.5	1.5	
			Sample Type	SMPL	FD	SMPL	FD	SMPL	SMPL	SMPL	SMPL	
PCBs												
Aroclor 1016	500 (Total)	39900	ug/kg	39 U	39 U	36 U	37 U	42 U	46 U	41 U	40 U	
Aroclor 1221		17200	ug/kg	39 U	39 U	36 U	37 U	42 U	46 U	41 U	40 U	
Aroclor 1232		17200	ug/kg	39 U	39 U	36 U	37 U	42 U	46 U	41 U	40 U	
Aroclor 1242		22100	ug/kg	39 U	39 U	36 U	37 U	42 U	46 U	41 U	40 U	
Aroclor 1248		22100	ug/kg	39 U	39 U	36 U	37 U	42 U	46 U	41 U	40 U	
Aroclor 1254		11400	ug/kg	39 U	39 U	36 U	37 U	42 U	46 U	41 U	40 U	
Aroclor 1260		22100	ug/kg	28 J	22 J	9 J	7.8 J	17 J	26 J	42	6.3 J	
Total PCBs		24300	ug/kg	28 J	22 J	9 J	7.8 J	17 J	26 J	42	6.3 J	
RCRA 8 Metals												
Arsenic, Total	2.1	38.9	mg/kg	2.9	6.1	1.1	0.9 J	0.9 J	1.1 J	1.2	0.9 J	
Barium, Total	120	164000	mg/kg	34	43	14	14	14	8.9	9.8	8.7	
Cadmium, Total	82	729	mg/kg	0.5 J	0.4 J	1.1 U	1.1 U	0.1 J	0.1 J	1.2 U	1.2 U	
Chromium, Total	210	27600	mg/kg	8	15	2.2	2	2.4	4.7	4.1	1.7	
Lead, Total	400	NL *	mg/kg	67	69	15	12	69	40	22	9.8	
Mercury, Total	3	20	mg/kg	0.21	0.133	0.017 J	0.015 J	0.023 J	0.011 J	0.051	0.016 J	
Selenium, Total	440	4110	mg/kg	5.9 U	5.9 U	5.4 U	5.5 U	6.2 U	6.8 U	6.1 U	5.9 U	
Silver, Total	410	4110	mg/kg	1.2 U	1.2 U	1.1 U	1.1 U	1.2 U	1.4 U	1.2 U	1.2 U	

Notes:

RAL = Removal Action Level

FDEP = Florida Department of Environmental Protection

SCTL = Soil Cleanup Target Level

Bolded = Value exceeds the RAL but not the SCTL

Shaded = Value exceeds the SCTL but not the RAL

Bold and shaded = Value exceeds both the SCTL and the RAL

fbgs = Feet below ground surface

mg/kg = Milligrams per kilogram

ug/kg = Micrograms per kilogram

U = Analyte was not detected above the associated value

J = Analyte result is an estimate.

FD = Field duplicate

* = site specific RAL has not been established due to all of the samples coming back well below the Regional Screening Level value.

Table 2
American Electric
Laboratory Analytical Results - October 2009
PCB and Metals Analyses

Analyte	FDEP Residential SCTL	Residential RAL	Sample ID	492A	492B	5519A	5519B	5529A	5529B	5531A	5531B		
			Sample Date	10/6/2009	10/6/2009	10/6/2009	10/6/2009	10/6/2009	10/6/2009	10/6/2009	10/6/2009	10/6/2009	
			Sample Depth (fbgs)	0.5	1.5	0.5	1.5	0.5	1.5	0.5	1.5	0.5	1.5
			Sample Type	SMPL	SMPL								
PCBs													
Aroclor 1016	500 (Total)	39900	ug/kg	40 U	41 U	43 U	40 U	39 U	36 U	42 U	40 U		
Aroclor 1221		17200	ug/kg	40 U	41 U	43 U	40 U	39 U	36 U	42 U	40 U		
Aroclor 1232		17200	ug/kg	40 U	41 U	43 U	40 U	39 U	36 U	42 U	40 U		
Aroclor 1242		22100	ug/kg	40 U	41 U	43 U	40 U	39 U	36 U	42 U	40 U		
Aroclor 1248		22100	ug/kg	40 U	41 U	43 U	40 U	39 U	36 U	42 U	40 U		
Aroclor 1254		11400	ug/kg	40 U	41 U	43 U	40 U	39 U	36 U	42 U	40 U		
Aroclor 1260		22100	ug/kg	30 J	16 J	59	40 U	34 J	12 J	58	17 J		
Total PCBs		24300	ug/kg	30 J	16 J	59	40 U	34 J	12 J	58	17 J		
RCRA 8 Metals													
Arsenic, Total	2.1	38.9	mg/kg	7.2	24	0.8 J	1.2 J	2.6	0.7 J	1.6	0.9 J		
Barium, Total	120	164000	mg/kg	8.6	7.3	6.6	7.5	16	16	15	8.7		
Cadmium, Total	82	729	mg/kg	1.2 U	0.2 J	1.3 U	1.2 U	0.2 J	1.1 U	0.2 J	0.3 J		
Chromium, Total	210	27600	mg/kg	3.1	2.3	3.2	2.4	6	0.6 J	3.7	3.1		
Lead, Total	400	NL *	mg/kg	21	7.3	16	3.5	29	7.6	24	7		
Mercury, Total	3	20	mg/kg	0.014 J	0.01 J	0.015 J	0.03 U	0.021 J	0.005 J	0.036	0.008 J		
Selenium, Total	440	4110	mg/kg	5.9 U	6.1 U	6.5 U	6 U	5.9 U	5.4 U	6.3 U	6 U		
Silver, Total	410	4110	mg/kg	1.2 U	1.2 U	1.3 U	1.2 U	1.2 U	1.1 U	1.3 U	1.2 U		

Notes:

RAL = Removal Action Level

FDEP = Florida Department of Environmental Protection

SCTL = Soil Cleanup Target Level

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mg/kg = Milligrams per kilogram

ug/kg = Micrograms per kilogram

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J = Analyte result is an estimate.

FD = Field duplicate

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Table 2
American Electric
Laboratory Analytical Results - October 2009
PCB and Metals Analyses

Analyte	FDEP Residential SCTL	Residential RAL	Sample ID	5540A	5540B	5541A	AE-FD-100	5541B	AE-FD-101	D1A	D1B
			Sample Date	10/6/2009	10/6/2009	10/6/2009	10/6/2009	10/6/2009	10/6/2009	10/5/2009	10/6/2009
			Sample Depth (fbgs)	0.5	1.5	0.5	0.5	1.5	1.5	0.5	1.5
			Sample Type	SMPL	SMPL	SMPL	FD	SMPL	FD	SMPL	SMPL
PCBs											
Aroclor 1016	500 (Total)	39900	ug/kg	45 U	41 U	46 U	48 U	40 U	40 U	890 U	1100 U
Aroclor 1221		17200	ug/kg	45 U	41 U	46 U	48 U	40 U	40 U	890 U	1100 U
Aroclor 1232		17200	ug/kg	45 U	41 U	46 U	48 U	40 U	40 U	890 U	1100 U
Aroclor 1242		22100	ug/kg	45 U	41 U	46 U	48 U	40 U	40 U	890 U	1100 U
Aroclor 1248		22100	ug/kg	45 U	41 U	46 U	48 U	40 U	40 U	890 U	1100 U
Aroclor 1254		11400	ug/kg	45 U	41 U	46 U	48 U	40 U	40 U	890 U	6200 J
Aroclor 1260		22100	ug/kg	78	22 J	230	140	13 J	5.5 J	8100	24000
Total PCBs		24300	ug/kg	78	22 J	230	140	13 J	5.5 J	8100	30200
RCRA 8 Metals											
Arsenic, Total	2.1	38.9	mg/kg	1.3 J	1.5	1.9	3.5	1 J	0.8 J	2.3	2.9
Barium, Total	120	164000	mg/kg	7.6	8.3	31	64	5	5.4	18	31
Cadmium, Total	82	729	mg/kg	1.3 U	1.2 U	0.8 J	2.2	0.3 J	0.3 J	0.8 J	0.4 J
Chromium, Total	210	27600	mg/kg	4.9	2.1	5.1	7.7	2.4	2.4	17	16
Lead, Total	400	NL *	mg/kg	18	10	120	160	4.2	7.5	57	42
Mercury, Total	3	20	mg/kg	0.052	0.013 J	0.083	0.135	0.012 J	0.015 J	0.036	0.031
Selenium, Total	440	4110	mg/kg	6.6 U	6.2 U	6.9 U	7.2 U	5.9 U	6.1 U	5.3 U	6.1 U
Silver, Total	410	4110	mg/kg	1.3 U	1.2 U	1.4 U	1.4 U	1.2 U	1.2 U	1.1 U	1.2 U

Notes:

RAL = Removal Action Level

FDEP = Florida Department of Environmental Protection

SCTL = Soil Cleanup Target Level

Bolded = Value exceeds the RAL but not the SCTL

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J = Analyte result is an estimate.

FD = Field duplicate

* = site specific RAL has not been established due to all of the samples coming back well below the Regional Screening Level value.

Table 2
American Electric
Laboratory Analytical Results - October 2009
PCB and Metals Analyses

Analyte	FDEP Residential SCTL	Residential RAL	Sample ID	D2A	D2B	D3A	D3B	E1A	E1B	E2A	E2B
			Sample Date	10/6/2009	10/6/2009	10/6/2009	10/6/2009	10/5/2009	10/5/2009	10/5/2009	10/5/2009
			Sample Depth (fbgs)	0.5	1.5	0.5	1.5	0.5	1.5	0.5	1.5
			Sample Type	SMPL	SMPL	SMPL	SMPL	SMPL	SMPL	SMPL	SMPL
PCBs											
Aroclor 1016	500 (Total)	39900	ug/kg	380 U	38 U	1100 U	42 U	360 U	38 U	37 U	37 U
Aroclor 1221		17200	ug/kg	380 U	38 U	1100 U	42 U	360 U	38 U	37 U	37 U
Aroclor 1232		17200	ug/kg	380 U	38 U	1100 U	42 U	360 U	38 U	37 U	37 U
Aroclor 1242		22100	ug/kg	380 U	38 U	1100 U	42 U	360 U	38 U	37 U	37 U
Aroclor 1248		22100	ug/kg	380 U	38 U	1100 U	42 U	360 U	38 U	37 U	37 U
Aroclor 1254		11400	ug/kg	380 U	38 U	4600 J	42 U	360 U	38 U	37 U	37 U
Aroclor 1260		22100	ug/kg	3400	440	21000	1900	9700	870	690	51
Total PCBs		24300	ug/kg	3400	440	25600	1900	9700	870	690	51
RCRA 8 Metals											
Arsenic, Total	2.1	38.9	mg/kg	1.9	0.6 J	2.2	0.8 J	1.5	1 J	0.7 J	0.6 J
Barium, Total	120	164000	mg/kg	25	3.5	15	4.4	13	7.5	9.2	3.2
Cadmium, Total	82	729	mg/kg	0.2 J	1.2 U	0.3 J	1.2 U	1.1 U	1.1 U	1.1 U	1.1 U
Chromium, Total	210	27600	mg/kg	53	5.6	6.1	2.7	7.8	5.7	5.2	3.6
Lead, Total	400	NL *	mg/kg	13	2.7	23	3.1	12	8.1	5.7	2.9
Mercury, Total	3	20	mg/kg	0.019 J	0.012 J	0.034	0.009 J	0.017 J	0.009 J	0.026 J	0.013 J
Selenium, Total	440	4110	mg/kg	5.7 U	5.8 U	6.3 U	6.2 U	5.3 U	5.6 U	5.5 U	5.5 U
Silver, Total	410	4110	mg/kg	1.1 U	1.2 U	1.3 U	1.2 U	1.1 U	1.1 U	1.1 U	1.1 U

Notes:

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Table 2
American Electric
Laboratory Analytical Results - October 2009
PCB and Metals Analyses

Analyte	FDEP Residential SCTL	Residential RAL	Sample ID	E3A	E3B	5541-A (Tyler)	5541-B (Tyler)	5526-A	5526-B	510-A
			Sample Date	10/6/2009	10/6/2009	10/6/2009	10/6/2009	10/7/2009	10/7/2009	10/7/2009
			Sample Depth (fbgs)	0.5	1.5	0.5	1.5	0.5	1.5	0.5
			Sample Type	SMPL	SMPL	SMPL	SMPL	SMPL	SMPL	SMPL
PCBs										
Aroclor 1016	500 (Total)	39900	ug/kg	37 U	2000 U	41 U	38 U	420 U	40 U	41 U
Aroclor 1221		17200	ug/kg	37 U	2000 U	41 U	38 U	420 U	40 U	41 U
Aroclor 1232		17200	ug/kg	37 U	2000 U	41 U	38 U	420 U	40 U	41 U
Aroclor 1242		22100	ug/kg	37 U	2000 U	41 U	38 U	420 U	40 U	41 U
Aroclor 1248		22100	ug/kg	37 U	2000 U	41 U	38 U	420 U	40 U	41 U
Aroclor 1254		11400	ug/kg	37 U	2000 U	41 U	38 U	420 U	40 U	41 U
Aroclor 1260		22100	ug/kg	2300	33000	55	38 U	200 J	4.9 J	25 J
Total PCBs		24300	ug/kg	2300	33000	55	38 U	200 J	4.9 J	25 J
RCRA 8 Metals										
Arsenic, Total	2.1	38.9	mg/kg	1.6	0.8 J	0.9 J	0.7 J	1 J	0.9 J	0.8 J
Barium, Total	120	164000	mg/kg	25	7.7	34	3.9	19	16	22
Cadmium, Total	82	729	mg/kg	1.1 U	1.2 U	1.8	1.1 U	0.2 J	1.2 U	0.1 J
Chromium, Total	210	27600	mg/kg	5.6	1.6	4.4	1.7	5.6	4.8	3.8
Lead, Total	400	NL *	mg/kg	15	10	56	2.8	31	36	25
Mercury, Total	3	20	mg/kg	0.027 J	0.015 J	0.073	0.013 J	0.034	0.028 J	0.025 J
Selenium, Total	440	4110	mg/kg	5.5 U	5.9 U	6 U	5.7 U	6.4 U	6 U	6.1 U
Silver, Total	410	4110	mg/kg	1.1 U	1.2 U	1.2 U	1.1 U	1.3 U	1.2 U	1.2 U

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**Table 2
American Electric
Laboratory Analytical Results - October 2009
PCB and Metals Analyses**

Analyte	FDEP Residential SCTL	Residential RAL	Sample ID	510-B	5567-A	5567-B	5555-A	5555-B	523-1A	523-1B	523-2A
			Sample Date	10/7/2009	10/6/2009	10/6/2009	10/6/2009	10/6/2009	10/7/2009	10/7/2009	10/7/2009
			Sample Depth (fbgs)	1.5	0.5	1.5	0.5	1.5	0.5	1.5	0.5
			Sample Type	SMPL							
PCBs											
Aroclor 1016	500 (Total)	39900	ug/kg	39 U	39 U	400 U	48 U	40 U	370 U	39 U	380 U
Aroclor 1221		17200	ug/kg	39 U	39 U	400 U	48 U	40 U	370 U	39 U	380 U
Aroclor 1232		17200	ug/kg	39 U	39 U	400 U	48 U	40 U	370 U	39 U	380 U
Aroclor 1242		22100	ug/kg	39 U	39 U	400 U	48 U	40 U	370 U	39 U	380 U
Aroclor 1248		22100	ug/kg	39 U	39 U	400 U	48 U	40 U	370 U	39 U	380 U
Aroclor 1254		11400	ug/kg	39 U	39 U	400 U	48 U	40 U	370 U	39 U	380 U
Aroclor 1260		22100	ug/kg	6 J	24 J	260 J	41 J	12 J	66 J	240	250 J
Total PCBs		24300	ug/kg	6 J	24 J	260 J	41 J	12 J	66 J	240	250 J
RCRA 8 Metals											
Arsenic, Total	2.1	38.9	mg/kg	0.7 J	1.9	0.9 J	1.7	1 J	1.4	0.7 J	1.7
Barium, Total	120	164000	mg/kg	5.8	9.1	11	20	14	11	7.8	42
Cadmium, Total	82	729	mg/kg	1.1 U	1.2 U	1.2 U	0.4 J	0.3 J	1.1 U	1.2 U	0.2 J
Chromium, Total	210	27600	mg/kg	1.9	4.5	3.4	5	4.3	7.1	5	37
Lead, Total	400	NL *	mg/kg	3.7	14	14	19	11	6.4	4.1	13
Mercury, Total	3	20	mg/kg	0.008 J	0.055	0.213	0.603	0.027 J	0.011 J	0.013 J	0.010 J
Selenium, Total	440	4110	mg/kg	5.7 U	5.8 U	5.9 U	7.4 U	6.1 U	5.5 U	6 U	5.5 U
Silver, Total	410	4110	mg/kg	1.1 U	1.2 U	1.2 U	1.5 U	1.2 U	1.1 U	1.2 U	1.1 U

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Table 2
American Electric
Laboratory Analytical Results - October 2009
PCB and Metals Analyses

Analyte	FDEP Residential SCTL	Residential RAL	Sample ID	523-2B	523-3A	523-3B	523-4A	523-4B	5546-A	5546-B	5535-A	
			Sample Date	10/7/2009	10/7/2009	10/7/2009	10/7/2009	10/7/2009	10/7/2009	10/7/2009	10/7/2009	10/7/2009
			Sample Depth (fbgs)	1.5	0.5	1.5	0.5	1.5	0.5	1.5	0.5	0.5
			Sample Type	SMPL								
PCBs												
Aroclor 1016	500 (Total)	39900	ug/kg	38 U	38 U	42 U	370 U	39 U	42 U	42 U	39 U	
Aroclor 1221		17200	ug/kg	38 U	38 U	42 U	370 U	39 U	42 U	42 U	39 U	
Aroclor 1232		17200	ug/kg	38 U	38 U	42 U	370 U	39 U	42 U	42 U	39 U	
Aroclor 1242		22100	ug/kg	38 U	38 U	42 U	370 U	39 U	42 U	42 U	39 U	
Aroclor 1248		22100	ug/kg	38 U	38 U	42 U	370 U	39 U	42 U	42 U	39 U	
Aroclor 1254		11400	ug/kg	38 U	38 U	42 U	370 U	39 U	42 U	42 U	39 U	
Aroclor 1260		22100	ug/kg	280	20 J	220	38 J	590	180	300	39 U	
Total PCBs		24300	ug/kg	280	20 J	220	38 J	590	180	300	39 U	
RCRA 8 Metals												
Arsenic, Total	2.1	38.9	mg/kg	0.6 J	1.8	1.2 J	1.4	0.6 J	1.3 J	0.8 J	2.7	
Barium, Total	120	164000	mg/kg	3.4	43	17	16	12	28	24	34	
Cadmium, Total	82	729	mg/kg	1.1 U	1.1 U	1.3 U	1.1 U	1.2 U	0.8 J	1.3 U	0.2 J	
Chromium, Total	210	27600	mg/kg	3.2	120	9.4	5.8	11	4.6	4.8	19	
Lead, Total	400	NL *	mg/kg	2.4	16	7.8	6	5.9	59	9.6	88	
Mercury, Total	3	20	mg/kg	0.011 J	0.039	0.023 J	0.01 J	0.04	0.031 J	0.017 J	1.33	
Selenium, Total	440	4110	mg/kg	5.7 U	5.6 U	6.3 U	5.4 U	5.9 U	6.3 U	6.3 U	5.7 U	
Silver, Total	410	4110	mg/kg	1.1 U	1.1 U	1.3 U	1.1 U	1.2 U	1.3 U	1.3 U	1.1 U	

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Table 2
American Electric
Laboratory Analytical Results - October 2009
PCB and Metals Analyses

Analyte	FDEP Residential SCTL	Residential RAL	Sample ID	5535-B	453-A	453-B	5515-A	5515-B	5527-A	AE-FD-106	5527-B	
			Sample Date	10/7/2009	10/7/2009	10/7/2009	10/8/2009	10/8/2009	10/8/2009	10/8/2009	10/8/2009	10/8/2009
			Sample Depth (fbgs)	1.5	0.5	1.5	0.5	1.5	0.5	0.5	0.5	1.5
			Sample Type	SMPL	FD	SMPL						
PCBs												
Aroclor 1016	500 (Total)	39900	ug/kg	41 U	38 U	38 U	40 U	45 U	42 U	41 U	39 U	
Aroclor 1221		17200	ug/kg	41 U	38 U	38 U	40 U	45 U	42 U	41 U	39 U	
Aroclor 1232		17200	ug/kg	41 U	38 U	38 U	40 U	45 U	42 U	41 U	39 U	
Aroclor 1242		22100	ug/kg	41 U	38 U	38 U	40 U	45 U	42 U	41 U	39 U	
Aroclor 1248		22100	ug/kg	41 U	38 U	38 U	40 U	45 U	42 U	41 U	39 U	
Aroclor 1254		11400	ug/kg	41 U	38 U	38 U	40 U	45 U	42 U	41 U	39 U	
Aroclor 1260		22100	ug/kg	41 U	38 U	38 U	40 U	45 U	19 J	41 U	39 U	
Total PCBs		24300	ug/kg	41 U	38 U	38 U	40 U	45 U	19 J	41 U	39 U	
RCRA 8 Metals												
Arsenic, Total	2.1	38.9	mg/kg	1.5	0.8 J	0.6 J	0.6 J	1.4	0.8 J	0.9 J	0.6 J	
Barium, Total	120	164000	mg/kg	23	12	11	12	27	27	93	3.4	
Cadmium, Total	82	729	mg/kg	1.2 U	1.2 U	1.1 U	1.2 U	0.4 J	0.7 J	1.1 J	1.2 U	
Chromium, Total	210	27600	mg/kg	18	3.4	3.3	4.2	4.6	4.4	3.9	0.7 J	
Lead, Total	400	NL *	mg/kg	47	25	5.4	16	19	53	54	1.4	
Mercury, Total	3	20	mg/kg	0.322	0.021 J	0.029	0.023 J	0.030 J	0.035	0.038	0.008 J	
Selenium, Total	440	4110	mg/kg	6.2 U	5.8 U	5.7 U	6.1 U	6.8 U	6.1 U	6.2 U	5.9 U	
Silver, Total	410	4110	mg/kg	1.2 U	1.2 U	1.1 U	1.2 U	1.4 U	1.2 U	1.2 U	1.2 U	

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American Electric
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PCB and Metals Analyses

Analyte	FDEP Residential SCTL	Residential RAL	Sample ID	5520-A	5520-B	Leaming-A	AE-FD-104	Leaming-B	AE-FD-105	5547-A	5547-B	
			Sample Date	10/8/2009	10/8/2009	10/8/2009	10/8/2009	10/8/2009	10/8/2009	10/8/2009	10/8/2009	10/8/2009
			Sample Depth (fbgs)	0.5	1.5	0.5	0.5	1.5	1.5	0.5	1.5	
			Sample Type	SMPL	SMPL	SMPL	FD	SMPL	FD	SMPL	SMPL	
PCBs												
Aroclor 1016	500 (Total)	39900	ug/kg	42 U	39 U	38 U	37 U	400 U	390 U	410 U	41 U	
Aroclor 1221		17200	ug/kg	42 U	39 U	38 U	37 U	400 U	390 U	410 U	41 U	
Aroclor 1232		17200	ug/kg	42 U	39 U	38 U	37 U	400 U	390 U	410 U	41 U	
Aroclor 1242		22100	ug/kg	42 U	39 U	38 U	37 U	400 U	390 U	410 U	41 U	
Aroclor 1248		22100	ug/kg	42 U	39 U	38 U	37 U	400 U	390 U	410 U	41 U	
Aroclor 1254		11400	ug/kg	42 U	39 U	38 U	37 U	400 U	390 U	410 U	41 U	
Aroclor 1260		22100	ug/kg	42 U	39 U	38 U	37 U	400 U	390 U	410 U	41 U	
Total PCBs		24300	ug/kg	42 U	39 U	38 U	37 U	400 U	390 U	410 U	41 U	
RCRA 8 Metals												
Arsenic, Total	2.1	38.9	mg/kg	1.7	0.7 J	1 J	0.8 J	0.9 J	1.6	1.9	0.8 J	
Barium, Total	120	164000	mg/kg	28	3.3	15	16	31	23	50	6	
Cadmium, Total	82	729	mg/kg	0.2 J	1.2 U	1.1 U	1.1 U	0.2 J	0.4 J	0.3 J	1.2 U	
Chromium, Total	210	27600	mg/kg	4	1.2 J	6.6	6.1	9.1	6.5	5.1	2.5	
Lead, Total	400	NL *	mg/kg	42	2.1	19	19	29	29	47	76	
Mercury, Total	3	20	mg/kg	0.04	0.029 U	0.018 J	0.023 J	0.054	0.057	0.025 J	0.026 J	
Selenium, Total	440	4110	mg/kg	6.4 U	5.9 U	5.6 U	5.6 U	5.9 U	5.8 U	6.1 U	6.1 U	
Silver, Total	410	4110	mg/kg	1.3 U	1.2 U	1.1 U	1.1 U	1.2 U	1.2 U	1.2 U	1.2 U	

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PCB and Metals Analyses

Analyte	FDEP Residential SCTL	Residential RAL	Sample ID	5537-A	5537-B	536-A	536-B	AE-SD-01	AE-SD-02	AE-SD-03	AE-SD-04	
			Sample Date	10/8/2009	10/8/2009	10/8/2009	10/8/2009	10/8/2009	10/8/2009	10/8/2009	10/8/2009	10/8/2009
			Sample Depth (fbgs)	0.5	1.5	0.5	1.5	0.125	0.125	0.125	0.125	0.125
			Sample Type	SMPL								
PCBs												
Aroclor 1016	500 (Total)	39900	ug/kg	36 U	37 U	36 U	37 U	440 U	48 U	50 U	48 U	
Aroclor 1221		17200	ug/kg	36 U	37 U	36 U	37 U	440 U	48 U	50 U	48 U	
Aroclor 1232		17200	ug/kg	36 U	37 U	36 U	37 U	440 U	48 U	50 U	48 U	
Aroclor 1242		22100	ug/kg	36 U	37 U	36 U	37 U	440 U	48 U	50 U	48 U	
Aroclor 1248		22100	ug/kg	36 U	37 U	36 U	37 U	440 U	48 U	50 U	48 U	
Aroclor 1254		11400	ug/kg	36 U	37 U	36 U	37 U	440 U	48 U	50 U	48 U	
Aroclor 1260		22100	ug/kg	15 J	37 U	24 J	3.4 J	2000	1300	66	750	
Total PCBs		24300	ug/kg	15 J	37 U	24 J	3.4 J	2000	1300	66	750	
RCRA 8 Metals												
Arsenic, Total	2.1	38.9	mg/kg	0.8 J	0.5 J	0.6 J	2	1.1 J	1.2 J	1.1 J	3.7	
Barium, Total	120	164000	mg/kg	16	11	48	10	10	11	13	26	
Cadmium, Total	82	729	mg/kg	0.1 J	1.1 U	1 J	0.1 J	0.2 J	0.2 J	0.1 J	0.1 J	
Chromium, Total	210	27600	mg/kg	3	1.3	3.7	2.8	5.9	5.3	4.5	18	
Lead, Total	400	NL *	mg/kg	37	17	96	15	10	17	15	14	
Mercury, Total	3	20	mg/kg	0.025 J	0.016 J	0.046	0.025 J	0.022 J	0.037	0.030 J	0.029 J	
Selenium, Total	440	4110	mg/kg	5.4 U	5.5 U	5.3 U	5.5 U	6.7 U	7.5 U	7.5 U	7.1 U	
Silver, Total	410	4110	mg/kg	1.1 U	1.1 U	1.1 U	1.1 U	1.3 U	1.5 U	1.5 U	1.4 U	

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American Electric
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PCB and Metals Analyses**

Analyte	FDEP Residential SCTL	Residential RAL	Sample ID	AE-SD-13	AE-SD-05	AE-SD-06	AE-SD-07	AE-SD-08	AE-SD-09	AE-SD-10	AE-SD-11	
			Sample Date	10/8/2009	10/8/2009	10/8/2009	10/8/2009	10/8/2009	10/8/2009	10/8/2009	10/8/2009	10/8/2009
			Sample Depth (fbgs)	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125
			Sample Type	FD	SMPL							
PCBs												
Aroclor 1016	500 (Total)	39900	ug/kg	49 U	57 U	49 U	50 U	59 U	48 U	43 U	48 U	
Aroclor 1221		17200	ug/kg	49 U	57 U	49 U	50 U	59 U	48 U	43 U	48 U	
Aroclor 1232		17200	ug/kg	49 U	57 U	49 U	50 U	59 U	48 U	43 U	48 U	
Aroclor 1242		22100	ug/kg	49 U	57 U	49 U	50 U	59 U	48 U	43 U	48 U	
Aroclor 1248		22100	ug/kg	49 U	57 U	49 U	50 U	59 U	48 U	43 U	48 U	
Aroclor 1254		11400	ug/kg	49 U	57 U	49 U	50 U	59 U	48 U	43 U	48 U	
Aroclor 1260		22100	ug/kg	530	1400	370	840	2300	180	70 J	370	
Total PCBs		24300	ug/kg	530	1400	370	840	2300	180	70 J	370	
RCRA 8 Metals												
Arsenic, Total	2.1	38.9	mg/kg	2.2	3.6	2.2	1.6	1.4 J	1 J	0.9 J	0.9 J	
Barium, Total	120	164000	mg/kg	19	47	27	23	23	10	17	19	
Cadmium, Total	82	729	mg/kg	0.1 J	0.4 J	0.2 J	0.6 J	0.7 J	0.2 J	1.3 U	0.2 J	
Chromium, Total	210	27600	mg/kg	11	18	11	8.2	8.9	4.6	7.6	6.9	
Lead, Total	400	NL *	mg/kg	14	22	13	130	100	33	11	13	
Mercury, Total	3	20	mg/kg	0.029 J	0.061	0.038	0.066	0.065	0.022 J	0.016 J	0.028 J	
Selenium, Total	440	4110	mg/kg	7.4 U	8.5 U	7.4 U	7.6 U	8.8 U	7 U	6.4 U	7.3 U	
Silver, Total	410	4110	mg/kg	1.5 U	1.7 U	1.5 U	1.5 U	1.8 U	1.4 U	1.3 U	1.5 U	

Notes:

RAL = Removal Action Level

FDEP = Florida Department of Environmental Protection

SCTL = Soil Cleanup Target Level

Bolded = Value exceeds the RAL but not the SCTL

Shaded = Value exceeds the SCTL but not the RAL

Bold and shaded = Value exceeds both the SCTL and the RAL

fbgs = Feet below ground surface

mg/kg = Milligrams per kilogram

ug/kg = Micrograms per kilogram

U = Analyte was not detected above the associated value

J = Analyte result is an estimate.

FD = Field duplicate

* = site specific RAL has not been established due to all of the samples coming back well below the Regional Screening Level value.

Table 2
American Electric
Laboratory Analytical Results - October 2009
PCB and Metals Analyses

Analyte	FDEP Residential SCTL	Residential RAL	Sample ID	AE-SD-12
			Sample Date	10/8/2009
			Sample Depth (fbgs)	0.125
			Sample Type	SMPL
PCBs				
Aroclor 1016	500 (Total)	39900	ug/kg	56 U
Aroclor 1221		17200	ug/kg	56 U
Aroclor 1232		17200	ug/kg	56 U
Aroclor 1242		22100	ug/kg	56 U
Aroclor 1248		22100	ug/kg	56 U
Aroclor 1254		11400	ug/kg	56 U
Aroclor 1260		22100	ug/kg	59
Total PCBs		24300	ug/kg	59
RCRA 8 Metals				
Arsenic, Total	2.1	38.9	mg/kg	2
Barium, Total	120	164000	mg/kg	23
Cadmium, Total	82	729	mg/kg	0.2 J
Chromium, Total	210	27600	mg/kg	9.8
Lead, Total	400	NL *	mg/kg	40
Mercury, Total	3	20	mg/kg	0.112
Selenium, Total	440	4110	mg/kg	8.3 U
Silver, Total	410	4110	mg/kg	1.7 U

Notes:

RAL = Removal Action Level

FDEP = Florida Department of Environmental Protection

SCTL = Soil Cleanup Target Level

Bolded = Value exceeds the RAL but not the SCTL

Shaded = Value exceeds the SCTL but not the RAL

Bold and shaded = Value exceeds both the SCTL and the RAL

fbgs = Feet below ground surface

mg/kg = Milligrams per kilogram

ug/kg = Micrograms per kilogram

U = Analyte was not detected above the associated value

J = Analyte result is an estimate.

FD = Field duplicate

* = site specific RAL has not been established due to all of the samples coming back well below the Regional Screening Level value.

Table 3
American Electric
Laboratory Analytical Results - October 2009
Dioxin Analysis

Analyte	FDEP Residential SCTL	Residential RAL	EPA PRG	Sample ID	475-Dioxin-A	523-2-Dioxin	523-3-Dioxin	523-4-Dioxin
				Sample Date	10/7/2009	10/7/2009	10/7/2009	10/7/2009
				Sample Depth (fbgs)	0.5	0.5	0.5	0.5
				Sample Type	SMPL	SMPL	SMPL	SMPL
Dioxins								
2,3,7,8-TCDD	7	449	NL	ng/kg	2.34	0.0325 U	0.0286 U	0.0353 U
1,2,3,7,8-PeCDD	NL	NL	NL	ng/kg	22.2	0.596	0.743	0.0371 U
1,2,3,4,7,8-HxCDD	NL	NL	NL	ng/kg	44.3	0.629	2.18	0.138
1,2,3,6,7,8-HxCDD	NL	NL	NL	ng/kg	28.7	1.31	9.35	0.392
1,2,3,7,8,9-HxCDD	NL	NL	NL	ng/kg	24.9	1.46	5.84	0.158
1,2,3,4,6,7,8-HpCDD	NL	NL	NL	ng/kg	597	34.9	236	14.8
OCDD	NL	1500000	NL	ng/kg	3150	238	1470	200
2,3,7,8-TCDF	NL	3730	NL	ng/kg	217	2.25	1.06	0.154 U
1,2,3,7,8-PeCDF	NL	12400	NL	ng/kg	127	1.2	1.48	0.225 U
2,3,4,7,8-PeCDF	NL	1240	NL	ng/kg	700	6.05	2.62	0.868
1,2,3,4,7,8-HxCDF	NL	NL	NL	ng/kg	2200	16.5	8.97	2.72
1,2,3,6,7,8-HxCDF	NL	NL	NL	ng/kg	1840	18.5	4.51	1.11
1,2,3,7,8,9-HxCDF	NL	NL	NL	ng/kg	53	0.394	0.904 U	0.207 U
2,3,4,6,7,8-HxCDF	NL	NL	NL	ng/kg	9570	65.6	10.6	2.73
1,2,3,4,6,7,8-HpCDF	NL	NL	NL	ng/kg	13800	84.5	38.3	6.84
1,2,3,4,7,8,9-HpCDF	NL	NL	NL	ng/kg	729	6.21	2.74	1.08
OCDF	NL	NL	NL	ng/kg	3320	36.2	61.3	15.8
TEQ (WHO-2005)	7*	NL	1000**	ng/kg	1790	14.5	9.05	1.28

Notes:

FDEP = Florida Department of Environmental Protection

PRG = Preliminary Remediation Goal

RAL = Removal Action Level

SCTL = Soil Cleanup Target Level

TEQ = Toxicity Equivalence Quotient

Shaded = Value exceeds either the SCTL, RAL, or the PRG

Bold and shaded = Value exceeds two or more regulatory limits (SCTL, RAL, PRG)

fbgs = feet below ground surface

ng/kg = nanograms per kilogram

U = Analyte was not detected above the associated value

NL = Not listed

* The TEQ limit is based on regulatory limits for 2,3,7,8-TCDD

** The TEQ limit is based on the EPA PRG for dioxins

Table 3
American Electric
Laboratory Analytical Results - October 2009
Dioxin Analysis

Analyte	FDEP Residential SCTL	Residential RAL	EPA PRG	Sample ID	5546-Dioxin	475-Dioxin-B	5567-Dioxin	5554-Dioxin
				Sample Date	10/7/2009	10/7/2009	10/6/2009	10/7/2009
				Sample Depth (fbgs)	0.5	0.5	0.5	0.5
				Sample Type	SMPL	SMPL	SMPL	SMPL
Dioxins								
2,3,7,8-TCDD	7	449	NL	ng/kg	0.0640 U	0.0101 U	0.0692 U	0.0427 U
1,2,3,7,8-PeCDD	NL	NL	NL	ng/kg	0.837	1.59	0.0582 U	0.32
1,2,3,4,7,8-HxCDD	NL	NL	NL	ng/kg	1.6	2.83	0.0368 U	0.778
1,2,3,6,7,8-HxCDD	NL	NL	NL	ng/kg	4.39	4.3	0.526	2.25
1,2,3,7,8,9-HxCDD	NL	NL	NL	ng/kg	4.11	4.74	0.284	1.06
1,2,3,4,6,7,8-HpCDD	NL	NL	NL	ng/kg	77.6	98.8	10.2	55
OCDD	NL	1500000	NL	ng/kg	503	739	121	374
2,3,7,8-TCDF	NL	3730	NL	ng/kg	5.45	18.8	0.0879 U	2.19
1,2,3,7,8-PeCDF	NL	12400	NL	ng/kg	2.77	11.6	0.233 U	1.71
2,3,4,7,8-PeCDF	NL	1240	NL	ng/kg	6.7	30.1	0.209 U	6.98
1,2,3,4,7,8-HxCDF	NL	NL	NL	ng/kg	14.7	124	0.407 U	5.44
1,2,3,6,7,8-HxCDF	NL	NL	NL	ng/kg	7.61	60.3	0.390 U	5.65
1,2,3,7,8,9-HxCDF	NL	NL	NL	ng/kg	2.06 U	6.65	0.495 U	0.772 U
2,3,4,6,7,8-HxCDF	NL	NL	NL	ng/kg	20.1	179	1.63	16.7
1,2,3,4,6,7,8-HpCDF	NL	NL	NL	ng/kg	43.4	210	4.33	34.9
1,2,3,4,7,8,9-HpCDF	NL	NL	NL	ng/kg	4.25	46	0.170 U	2.2
OCDF	NL	NL	NL	ng/kg	60.5	155	6.22	34.6
TEQ (WHO-2005)	7*	NL	1000**	ng/kg	10.1	54.8	0.427	6.91

Notes:

FDEP = Florida Department of Environmental Protection

PRG = Preliminary Remediation Goal

RAL = Removal Action Level

SCTL = Soil Cleanup Target Level

TEQ = Toxicity Equivalence Quotient

Shaded = Value exceeds either the SCTL, RAL, or the PRG

Bold and shaded = Value exceeds two or more regulatory limits (SCTL, RAL, PRG)

fbgs = feet below ground surface

ng/kg = nanograms per kilogram

U = Analyte was not detected above the associated value

NL = Not listed

* The TEQ limit is based on regulatory limits for 2,3,7,8-TCDD

** The TEQ limit is based on the EPA PRG for dioxins

APPENDIX C
PHOTOGRAPHIC LOG



Official Photograph No. 1

Site Name:	American Electric	Date:	October 8, 2009
Location:	Jacksonville, Duval County, Florida	TDD No:	TNA-05-003-0095
Subject:	Augering location of a 5 point composite	Photographer:	A. Miolen



Official Photograph No. 2

Site Name:	American Electric	Date:	October 8, 2009
Location:	Jacksonville, Duval County, Florida	TDD No:	TNA-05-003-0095
Subject:	Collecting aliquot for 5 point composite	Photographer:	A. Miolen



Official Photograph No. 3

Site Name: American Electric
Location: Jacksonville, Duval County, Florida
Subject: Collecting a sediment sample

Date: October 8, 2009
TDD No: TNA-05-003-0095
Photographer: R. Stubbs



Official Photograph No. 4

Site Name: American Electric
Location: Jacksonville, Duval County, Florida
Subject: Collecting a sediment sample

Date: October 8, 2009
TDD No: TNA-05-003-0095
Photographer: R. Stubbs

APPENDIX D
FIELD LOGBOOK NOTES

American Electric



"Rite in the Rain"®

ALL-WEATHER

UNIVERSAL

No. 371

Volume I

- American Electric 10/05/09
- 0600 START Stubbs + Moilen arrived at OTIE office to load up for Atlanta airport. _____ RS
- 0930 START Stubbs, Patten + Moilen + Polk arrived at Jacksonville, FL airport + obtained rental vehicle. _____ RS
- 1030 START obtained coolers + equipment at Country Inn Hotel + checked in at Comfort Suites and off loaded bags.
- 1130 START met EPA OSC Chris Russel on site and went over game plan for sampling. _____ RS
- 1430 START Stubbs + Moilen collect composite AE-D1. A. bin sample.
- 1440 START Stubbs + Moilen collect composite AE-D1B bin.
- 1445 collect composite AE-D1C bin.

Scale: 1 square = _____

10/05/09

- 1450 Collect composite AE-D1D bin.
- 1455 Break due to rain storm.
- * Late note: At the request of OSC - Russell START will only collect samples using the set grid system for the industrial properties: 495 + 523 South Ellis Road. The residential properties will not be collected based on a grid system but rather by property address.
- 1525 Collect composite AE-D1E bin.
- 1533 Collected composite AE-D1A
- 1543 Began collecting samples at AE-D1B. _____ RS
- 1605 Completed collecting composite AE-D1B.
- 1620 Leaving site for Home Depot.
- 1640 Leave Home Depot for Wal-Mart. Arrive at 1650.
- 1730 Leave Wal-Mart for FedEx - START Matt Polk picking up business cell phone (current phone disfunctional).

Scale: 1 square = _____

10/06/09

1800 Leave FedEx for hotel. —
 Oct. 6, 2009 American Electric / EPA
 75°F foggy
 720 Arrive on site, set up decon.
 730 Safety meeting begins—discuss
 wearing sunscreen, staying hydrated,
 Decon materials.
 740 Begin hand augering @ D2 bin.
 813 Collect composite D2 A (6in.)
 817 Collect composite D2 B (18in.)
 840 Decon equipment used for D2.
 850 Stopped work due to rain storm.
 915 Began augering @ D3 18in.
 925 Collect composite D3 B 18in.
 935 Decon equipment used for D3.
 1000 Begin augering @ 5531 A 6in.
 1020 Collect composite 5531 A 6in.
 1035 Begin augering @ 5531 B 18in.
 1035 Collect composite 5531 B 18in.
 1040 Decon equipment used for 5531.
 1100 Leave site for lunch.
 1215 Hotel to change wet clothing.
 1245 Return to site.
 1300 Begin augering 492 A 6in.

Scale: 1 square=_____

10/06/09

1317 Collect composite 492A 6in.
 1318 Begin augering 492B 18in.
 1321 Collect Composite 492B.
 1345 Completed decon of equipment
 used on 492.
 1355 Begin augering at 488 A 6in.
 1405 Completed collecting composite
 488A 6in.
 1413 begin augering at 488 B 18in.
 1425 collected Composite 488B 18in.
 1430 decon equipment used on 488.
 1440 Called Jerry at CAS Lab to
 discuss pick up.
 1512 Begin augering 5529 A 6in.
 5529 B 18in. (with EPA Chris Russell)
 1525 Collected Composites 5529 A and
 5529 B.
 1533 decon equipment used on 5529.
 1621 START Miolen and Patten begin
 augering at 5541
 1643 Collected Composites 5541 A + 5541 B
 1703 Decon equipment used on 5541.
 1715 Begin augering at 5555.
 1730 Collected Composites 5555 A + B.

Scale: 1 square=_____

10/07/09

1743 Decon equipment used at 5555.
1800 Leave site for hotel.

Oct. 7, 2009 77°F cloudy

0740 Arrive at site, set up Decon.

0811 Begin augering at 523-2 A+B

Used rotary hammer donated by Colonial Electric to penetrate gravel area to obtain soil sample.

Soil collected at 523-2 ^{locale} a. 12 in. depth had sulfur-like odor.

Collected only at 4-8 in depth at 523-2 locale ^{A depth} C - too many

rocks to achieve a good sample.

At B depth, only got two inches of soil after removing 1ft - 1.5ft

rocks. At locale 523-2 ^e, had to go 4 in. through layer of ^{broken pieces} roofing shingles and rock until soil was found.

0915 Collected composite for 523-2 A+B.

0920 Decon equipment used at 523-2.

0935 Begin augering at 523-2-DIOXIN.

0940 Collect composite 523-2-DIOXIN.

0943 Decon equipment used on 523-2-DIOXIN.

Scale: 1 square = _____

10/07/09

0952 Begin augering 523-4. At locale 523-4B, took soil for level A at 4-8 in. depth due to many rocks close to surface. Went 1ft - 1.5ft further down to get past layer of rock to obtain level B soil. Collected soil level A at 4-8 in depth due to rocky surface at locale 523-4c. Removed ~ 1ft of rocks to collect level B soil sample.

1055 Collect composite 523-4A.

1100 Collect composite 523-4B.

1103 Decon equipment used on 523-4.

1105 Chris Russell (EPA) arrives on site.

1115 Begin augering 523-4-DIOXIN.

1120 Collect composite for 523-4-DIOXIN.

1123 Decon equipment used at 523-4-DIOXIN.

1210 START Miten began augering at 453 A (6 in.) + 453 B (18 in.)

1255 START Miten collected composite sample 453A.

1300 START Miten collected comp. sample 453B.

*Late note: Lunch 1130 to 1200.

Scale: 1 square = _____

10/08/09

to sample. We will discuss the site with Chris Russell when he arrives on site.

Called Ed to set up a sampling time at 5547, but got no answer. Did not sample the site.

1351 Leaving site for hotel.

1400 START processing remaining samples. RS

1630 Sample processing complete and START Stubbs relinquished samples to Columbia Analytical Services courier.

1645 START packing up equipment to ship back to the OTIE office.

1715 START delivered packages at FedEx and headed back to recollect GPS data as some data was lost due to a corrupted file.

1800 GPS data recollecting and START site activities are

Scale: 1 square = _____

R. Stubbs - complete.

Demobe

10/09/09

11

0745 START Stubbs, Patten, Polk + Molen departed for airport (Tax). RS

0900 START on stand by for 09:59 flight to Atlanta.

10:00 Flight departed Jacksonville, FL. RS

11:00 Flight arrived in Atlanta, GA. RS

1200 START arrived back at the OTIE office in Marietta, GA. RS

~~10/09/09~~

Scale: 1 square = _____

10/13/09

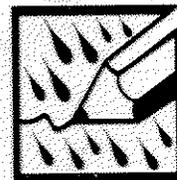
* Latenote: Field team members for the sampling event during the week of October 5, 2009 were: Kelly Patten, Amanda Miolen, Matt Polk and Ryan Stubbs.

R. Stubbs
10/13/09

Scale: 1 square=_____

Scale: 1 square=_____

American Electric



"Rite in the Rain"

ALL-WEATHER

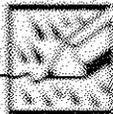
UNIVERSAL

No. 371

Volume II

"Rite in the Rain"

ALL-WEATHER WRITING PAPER



- AMER. ELECT.
 - PRINT HASP
 - DATA SHEET FOR 2 TRENCHES
 - CONT. STATION FOR METALS (FOR 8)
 - AUGER 0-1' (SAMPLE @ 0.5') ^{SAMPLE} _{MISSE +}
 - " 1-2' (" @ 20") ^{4 CTS} _{MISSE}
 - DRY DECON (EUGEN ROBERTS, HARRIS)
 - 12 DUP 6 MS/MSB (12 SAMPLES) TOTAL
 - 12 SEX. INCL. (BTW C-E-H, OR. 67000)
 * 1 MS/MSB 1 DUP
 - 8 BULKY SAMP. SET BY CLIENT (OUTSIDE FEE
 OF FEE BOX 1 MS/MSB, 1 DUP)

CONTENTS

PAGE REFERENCE DATE

AMERICAN ELECTRIC - JACKSONVILLE FL

10/5/09

1400 BEGAN HAND AUGERING COMPOSITE SOIL SAMPLE
AT E1 UNPAVED 4th ELLIS RD, JAK, FL

1430 COLLECTED SAMPLE @ 6" E1A

1435 BEGAN H.A. COMP. SS @ E1B (2')

1500 SAMPLE SET FOR E1B (~18")

1535 BEGAN H.A. COMP. SS @ 6" E2A

1545 SAMP. SET FOR E2A (~6")

1550 BEGAN H.A. COMP. SS @ 2' E2B

1600 SAMP. SET FOR E2B (~18")

1630 PACKED EQUIP. IN VAN - DEPARTED SITE FOR
HOME DEPOT FOR ICE & SUPPLIES

1700 ARRIVED AT HOTEL

10/6/09

0715 ARRIVED ONSITE (KELLY P., RYAN S., AMANDA M., MATT?)
FOR HBS MEETING - WATER CONSUMPTION, HEAT STRESS

0720 PREPWORK FOR FIELD SAMPLING (DECON, ETC.)

0735 BEGAN HAND A. COMP. SS @ E3A (6")

0805 SAMP. SET FOR E3A (6")

0810 BEGAN H.A. COMP. SS @ E3B (18")

0845 SAMP. SET FOR E3B (18")

0918 BEGAN H.A. COMP. SS @ D3A (6")

0945 SAMP. SET FOR D3A (6")

0930 BEGAN H.A. COMP. SS @ D3B (18")

0945 SAMP. SET FOR D3B (18")

Scale: 1 square =

10/6/09

1010 BEGAN H.A. COMP. SAMP. SET @ 554A (6")

1050 SAMP. SET 554A (6") DUPLICATE (REFS 105)

~~1055~~ BEGAN H.A. COMP. SS @ 554B (18")

1030 SAMP. SET 554B (18") DUPLICATE (REFS 103)

1100 BREAK FOR LUNCH

1245 BEGAN H.A. COMP. SS @ 5519A (6")

1305 SAMP. SET 5519A (6")

1310 BEGAN H.A. COMP. SS @ 5519B (18")

1315 SAMP. SET 5519B (18")

1325 BEGAN H.A. COMP. SS @ 484A (6")

1335 SAMP. SET 484A (6")

1340 BEGAN H.A. COMP. SS @ 484B (18")

1345 SAMP. SET 484B (18")

1405 BEGAN H.A. COMP. SS @ 5540A (6")

1415 SAMP. SET 5540A (6")

1420 BEGAN H.A. COMP. SS @ 5540B (18")

1425 SAMP. SET 5540B (18") ~~1425~~ 10/6/09

1450 BEGAN H.A. COMP. SS @ 448A 456A

1505 SAMP. SET ~~448A~~ DUPLICATE (REFS 105)

1510 BEGAN H.A. COMP. SS @ 448B 456B ~~1510~~ 10/6/09

1515 SAMP. SET ~~448B~~ DUPLICATE (REFS 105)

1640 BEGAN H.A. COMP. SS @ 5567A

1650 SAMP. SET 5567A

1655 BEGAN H.A. COMP. SS @ 5567B

1700 SAMP. SET 5567B

Scale: 1 square =

10/6/09

1705 SAMPLE SET FOR DIOXIN @ 5567
 - GPS LAT/LONG = THAT OF 5567A
 1730 PACKED UP VAN W/ EQUIP. & SUPPLIES
 1800 ALL OFFSITE TO HOTEL

10/7/09

0730 ALL ON SITE FOR HQS BRIEFING
 0800 BEGAN HA. COMP. SS. @ 523-1A (6")
 0935 SAMPLE SET 523-1A (6")
 0930 BEGAN HA. COMP. SS. @ 523-1B (18")
 0935 SAMPLE SET 523-1B (18")
 0950 BEGAN HA. COMP. SS. @ 523-3A (6")
 1105 SAMPLE SET 523-3A (6")
 1110 BEGAN HA. COMP. SS. @ 523-3B (18")
 1115 SAMPLE SET 523-3B (18") & 523-3 DIOXIN
 1225 BEGAN HA. COMP. S.S. @ 475A (6") DIOXIN
 1230 SAMPLE SET 475A DIOXIN
 1240 SAMPLE BEGAN @ 475B (18") DIOXIN
 1245 SAMPLE SET 475B DIOXIN
 1320 BEGAN HA. COMP. SS. @ 5554 DIOXIN
 1325 SAMPLE SET 5554 DIOXIN
 1400 BEGAN HA. COMP. SS. @ 5535A (6")
 1435 SAMPLE SET 5535A (6")
 1435 BEGAN HA. COMP. SS. @ 5535B (18")
 1535 SAMPLE SET 5535B (18")

1515 BEGAN HA. COMP. SS. @ 5526A (6")
 1540 SAMPLE SET 5526 (6")
 1542 BEGAN HA. COMP. SS. @ 5526B (18")
 1545 SAMPLE SET 5526 (18")
 * FOR OSC CHICES, WE ARE JOINING 5526 AND
 PROPERTY IMMEDIATELY ADJACENT TO WEST
 AS ONE SAMPLING LOCATION; ALSO, 5520
 AND PROPERTIES IMMEDIATELY TO WEST/2
 AS ONE SAMPLING LOCATION; ALSO, PROPERTY
 AT SOUTHWEST CORNER OF INTERSECTION OF LEANING
 ELLS (2 PROPERTIES) WILL BE JOINED AS ONE
 SAMPLING LOCATION NUMBER
 PROPERTIES 5547 AND 5545 WILL BE JOINED
 TO MAKE ONE PROPERTY NUMBERED 5547;
 PROPERTY 523 ORIGINALLY WAS DEMARCATED
 INTO 9 GRIDS, THESE WERE COMBINED INTO
 4 QUADRANTS (523-1, 523-2, 523-3 & 523-4)
 1645 DEPARTED SITE FOR HOME DEPOT
 1715 RETURNED TO SITE TO MARK SEDIMENT
 SAMPLING LOCATIONS
 1730 ALL OFFSITE TO PICK UP SAMPLE CONTAINERS
 FROM LAB
 1800 RETURNED TO HOTEL

10/8/09

0730 ALL ON SITE FOR HRS BRIEFING
 0755 BEGAN HA COMP. SS. @ LEAMING A
 0830 SAMPLE SET LEAMING A (FID @ AESD 104) SUP
 0855 BEGAN HA COMP. SS. @ LEAMING B
 0840 SAMPLE SET LEAMING B (REFID. 105) SUP
 0920 BEGAN HA COMP. SS. @ 5527A
 0905 SAMPLE SET 5527A
 0910 BEGAN HA COMP. SS. @ 5527B
 0915 SAMPLE SET 5527B
 0950 BEGAN HA COMP. SS. @ 5537A
 1005 SAMPLE SET 5537A
 1010 BEGAN H.F. COMP. SS. @ 5537B
 1015 SAMPLE SET 5537B
 1025 BEGAN HA COMP. SS. @ 5547A
 1040 SAMPLE SET 5547A
 1045 BEGAN HA COMP. SS. @ 5547B
 1050 SAMPLE SET 5547B
 1100 BROKE FOR LUNCH
 1205 COLLECTED ^{sediment} AESD-01 (SEDIMENT)
 1215 COLLECTED AESD-02 (SED.)
 1230 COLLECTED AESD-03 (SED.)
 1525 COLLECTED AESD-04 (SED. w/ SUP AESD-3)
 1630 COLL AESD-05 (SED. w/ MS/MS AESD-5 MS)
 1635 COLL AESD-06 (SED.)

Scale: 1 square=

10/8/09

1240 COLL AESD-07 (SED.)
 1245 COLL AESD-08 (SED.)
 1250 COLL AESD-09 (SED.)
 1300 COLL AESD-10 (SED.) * USING YOUNG PATTEN
 1310 COLL AESD-11 (SED.) USING YOUNG PATTEN
 1320 COLL AESD-12 (SED.) AND ANOTHER 2-PT. PIPE
 CONTACT KEVIN PATTEN AND A PLASTIC BAG
 FOR MORE DETAILS THE INNER PIPE IS
 INFO REGARDING YOUNG/ PLACED IN A PLASTIC
 PATTEN SED. SAMP. METHOD BAG AND PUSHES IN
 AT (1078) T87-5775 BAG INSIDE THE
 OUTER PIPE. THE
 INNER PIPE IS
 PUSHED THROUGH
 LEAVING WATER BEHIND
 FOR A "DRY" SAMPLE.

1345 ALL OFF SITE TO PACK COVERS W/ SAMPLES
 COURIER RETRIEVES SAMPLES
 DROPPED OFF EQUIPMENT @ SUP @ FEDEX
 1400 Reference Volume I for
 remaining notes on this day.

10/8/09

Scale: 1 square=

APPENDIX E
ANALYTICAL RESULTS