

**PHASE II
ENVIRONMENTAL SITE ASSESSMENT
PARRAMORE COMMUNITY GARDEN
654 WEST ROBINSON STREET
ORLANDO, FLORIDA**

Prepared for:



**The City of Orlando
Economic Development Department
400 S. Orange Avenue
Orlando, Florida 32802-4990
EPA Brownfield Cooperative Agreement BF-95498212**

Prepared by:

***ECT* Environmental
Consulting &
Technology, Inc.**
*3660 Maguire Boulevard, Suite 107
Orlando, FL 32803*

**ECT No. 140451.0001
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1.0 SUMMARY

Environmental Consulting & Technology, Inc. (ECT) has completed this Phase II Environmental Site Assessment (ESA) for the Parramore Community Garden (Site), located at 654 West Robinson Street, Orlando, Orange County, Florida, 32801. This Phase II ESA was conducted in conformance with the scope and limitations of American Society for Testing and Materials (ASTM) Practice E1903-11.

The objective of this Phase II ESA was to address the environmental concerns identified in a Phase I ESA completed by ECT dated June 2014. The former Burkes Paint Manufacturing and Morris Paint Varnish Co. operated on the adjoining parcel east of the Site between the years 1939 to 1953. Due to close proximity of the Site and nature of these businesses, this Phase II ESA was conducted to investigate the potential presence of soil impacts along the eastern border of the Site. The presence of impacted soil could pose an unacceptable risk to human health and the environment if there are direct exposure routes.

Elements completed for this Phase II ESA consisted of a site eligibility determination outline, a site-specific quality assurance project plan (SSQAPP), a health and safety plan (HASP), soil boring installation, field-screening for soil organic vapors, soil sampling, laboratory analyses for metals commonly associated with paint pigments (target analytes), and data evaluation.

2.0 INTRODUCTION

The City of Orlando is the recipient of a Brownfields Assessment Grant, EPA Cooperative Agreement BF-95498212. This grant was awarded in September 2012 and is a community-wide assessment grant, with emphasis on the Parramore area. Funds from the hazardous substance and petroleum products grants were utilized for this Phase II ESA.

The EPA Region 4 Project Manager approved a Phase II site eligibility determination outline prior to initiating Phase II ESA activities. A copy of this approved site eligibility determination outline is provided in **Appendix A**.

Prior to performing Phase II ESA field activities, a SSQAPP was prepared in accordance with the requirements of EPA Region 4 Brownfields Program. The SSQAPP documented the necessary quality assurance (QA) and quality control (QC) criteria, and other technical activities that were implemented to ensure that the results of the Phase II ESA would satisfy the required performance criteria. A copy of the approved SSQAPP is provided in **Appendix B**.

This Phase II ESA was completed in conformance with the scope and limitations of ASTM Practice E1903-11 for Phase II ESAs.

2.1 Detailed Scope of Services

The Phase II ESA activities completed by ECT included, but was not limited to, the following services:

- Installation of two soil borings along the eastern border of the Site.
- Field-screening for soil organic vapors;
- Laboratory analyses of the soil samples;
- Data evaluation, and;
- Preparation of a written report documenting our activities and recommendations.

2.2 Limitations and Exceptions

The opinions presented in this report are based upon the scope of services, information obtained through the performance of the services, and the schedule as agreed upon by ECT and the party for whom this report was originally prepared. This report is an instrument of professional service and was prepared in accordance with the generally accepted standards and level of skill and care under similar conditions and circumstances established by the environmental consulting industry. No representation, warranty, or guarantee, expressed or implied, is intended or given. To the extent that ECT relied upon information prepared by other parties not under contract to ECT, ECT makes no representation as to the accuracy or completeness of such information. This report is expressly for the sole and exclusive use of the party for whom this report was originally prepared, and for a particular purpose. Only the party for whom this report was originally prepared and/or other specifically named parties have the right to make use of and rely upon this report. Reuse of this report or any portion thereof for other than its intended purpose, or if modified, or if used by third parties, shall be at the user's sole risk.

The findings presented in this report apply solely to the Site conditions existing at the time when the field activities were performed. Conditions in other parts of the Site may vary from those at the locations where data were collected. ECT's ability to interpret investigation results is related to the availability of the data and the extent of the investigation activities. ECT does not provide any guarantees, certifications, or warranties that a property is free from environmental contamination. Furthermore, nothing contained in this document shall relieve any other party of its responsibility to abide by contract documents and applicable laws, codes, regulations, or standards.

2.3 User Reliance

This Phase II ESA Report was conducted for the use and reliance of the City of Orlando. No use of the information contained in this report by others is permissible without receiving prior written authorization to do so from ECT. ECT is not responsible for independent conclusions, opinions, or recommendations made by others or otherwise based on the findings presented in this report.

3.0 SITE DESCRIPTION

This section presents a general overview of the Site, onsite improvements, and surrounding properties.

3.1 Site Description and Features

The Site is located on an approximately 0.15-acre parcel of land within the Parramore Community in Orlando, Florida. A location map and aerial photograph of the Site are presented as **Figures 1** and **2**, respectively.

3.2 Physical Setting

The Site is located in Section 26 of Township 22 South, and Range 29 East in Orlando, Orange County, Florida. The Orange County Property Appraiser’s Office information identifies the Site under the following parcel identification number, address, name, and legal description:

Parcel ID No.	Address	Owner	Acres
26-22-29-6716-04-011	654 W. Robinson St.	City of Orlando	0.15

3.3 Site History and Land Use

Site history and land use was reported in the Phase I ESA prepared by ECT in June 2014 and summarized below:

1908 – Sanborn Fire Insurance Map – a residential structure is present on the western portion of the Site.

1925 – Sanborn Fire Insurance Map – a residential structure is present on the western portion of the Site. Lincoln Avenue is adjoining the Site to the east. Mexican Petroleum Company appears on the property north of the Site across West Robinson Avenue and a storage facility appears on the property northwest of the Site across West Robinson Avenue.

1947 – Aerial Photograph – a residential structure is present at the Site. The adjoining properties are developed with residential buildings to the south, east and west. The property adjoining to the north has unknown structures which appear to be of commercial or industrial use.

1950 – Sanborn Fire Insurance Map – a residential structure is present at the Site. American Oil Company appears to have replaced Mexican Oil Company north of the Site across West Robinson Avenue, and a fruit packing company appears to be present on the

property northwest of the Site across West Robinson Avenue. Residential dwellings and vacant property exists to the west, south and east. Also located east of the Site across Lincoln Avenue is a paint factory (manufacturing).

1965 – Sanborn Fire Insurance Map – a residential structure is present at the Site. The property located north of the Site across West Robinson Avenue consists of a building material yard and the property located to the east of the Site across Lincoln Avenue now appears vacant. Residential dwellings and vacant property exists to the west, south and east.

1973 – Sanborn Fire Insurance Map – a residential structure is present at the Site. The property located northwest of the Site across West Robinson Avenue appears to consist of vacant residential dwellings, and vacant property exists to the west, south and east.

1994 – Aerial Photograph – the Site appears to be vacant, as the residential structure is no longer present. Residential dwellings adjoin the Site to the north, and vacant property exists to the west, south and east.

1999 – Aerial Photograph – the Site appears to be vacant. Lincoln Avenue is no longer present, formerly adjoining the Site to the east. Residential dwellings adjoin the Site to the north, and vacant property exists to the west, south and east.

2010 – Aerial Photograph – it appears the Parramore Community Garden was constructed on the Site. Residential dwellings adjoin the Site to the north, and vacant property exists to the west, south and east.

Historical aerial photographs were obtained for the Site to assist with the Phase I ESA completed by ECT. Copies of the historical aerial photographs and Sanborn fire insurance maps issued by Environmental Data Resources, Inc. (EDR) are provided in **Appendix C**.

3.4 Adjacent Property Land Use

The Site is surrounded by residential, commercial and industrial properties. Access to the Site is provided by West Robinson Street adjoining the Site to the north.

3.5 Summary of Previous Assessment

A Phase I ESA was completed by ECT in June 2014. The 1950 Sanborn Map identified the adjoining property to the east of the Site as a Paint Factory. The 1939-1948 City Directory identified the adjoining property to the east as Burkes Tropical Paint Co. Inc. Mfrs. The 1953 City Directory identified the adjoining property to the east as Morris Paint and Varnish Co. Due to the proximity of this former business, the business type, and the unknown business practices associated with it, Burkes Paint Manufacturing and Morris Paint and Varnish Co. were considered environmental concerns for the Site.

4.0 WORK PERFORMED AND RATIONALE

The objective of this Phase II ESA was to determine if soil impacts exist along the eastern border of the Site. Two soil borings to five feet below land surface (ft. bls) were deemed sufficient for assessment purposes based upon the previous use of the adjoining property and the current use of the Site. Soil screening for VOCs was completed to detect remnant varnish or paint thinner chemicals. Laboratory analyses for metals commonly associated with paint pigments were also completed.

4.1 Scope of Assessment

The scope of the assessment activities included:

- Installation of two soil borings along the eastern border of the Site.
- Field-screening for soil organic vapors;
- Laboratory analyses of the soil samples, and;
- Data evaluation

4.2 Exploration, Sampling, and Analytical Test Methods

On August 20, 2014, ECT mobilized to the site to advance two soil borings via hand-auger (HA) techniques. Soil samples were collected at one-foot intervals at each soil boring location and field-screened with an organic vapor analyzer with a flame-ionization detector (OVA/FID).

Upon completion of soil screening activities, soil samples were collected via HA techniques for laboratory analyses from depth intervals 0-0.5 feet below land surface (ft. bls), 1.0 - 3.0 ft. bls, and 3.0 - 5.0 ft. bls. The soil samples were obtained in accordance with the current FDEP Standard Operating Procedures (DEP-SOP-001/01/FS3000), placed on ice, and transported under chain of custody to Accutest Laboratories Southeast (Accutest) in Orlando, Florida for laboratory analyses.

Instrument calibration logs and soil boring logs are included in **Appendix D**.

The soil samples were submitted for laboratory analyses by EPA Method 6010C for metals (antimony, arsenic, cadmium, chromium, cobalt, copper, lead, lithium, manganese, nickel and tungsten). Field activities were completed under modified safety level D personal protective equipment (PPE) by environmental personnel trained in OSHA 1910.120.

4.3 Field Investigation Chronology

Soil boring installation, soil screening, and soil sampling activities were completed on August 20, 2014.

5.0 PRESENTATION AND EVALUATION OF RESULTS

5.1 Tables

Tables 1 and **2** present and summarize the field-screening data and laboratory analytical results obtained during this Phase II ESA. Soil laboratory analytical reports are provided in **Appendix E**.

5.2 Figures

Figure 3 depicts the results of the field data and **Figures 4, 5, and 6** depict soil testing data obtained during this Phase II ESA.

5.3 Soil Quality

No organic vapors were detected in the soils screened with the OVA/FID. No target constituents were detected in excess of applicable FDEP direct exposure residential soil cleanup target levels (SCTLs) in the soil samples collected from SB-1 and SB-2.

6.0 INTERPRETATION AND CONCLUSIONS

6.1 Recognized Environmental Condition / Potential Release Area

This Phase II ESA investigated the environmental concern identified in the Phase I ESA report issued by ECT in June 2014. This environmental concern was identified as the adjoining property to the east, Burkes Tropical Paint Co. Inc. Mfrs. and Morris Paint and Varnish Co.

6.2 Conceptual Model Validation / Adequacy of Investigations

The conceptual model targeted the eastern border of the Site, adjacent to the parcel adjoining to the east. The current investigation consisted of soil boring installation, soil screening, soil sampling, laboratory analyses and data evaluation to determine soil quality on the eastern border of the Site. Two soil borings were advanced and soil samples were collected and analyzed to determine soil quality.

The data set compiled was adequate to determine there are no soil impacts at eastern border of the Site originating from the former Burkes Tropical Paint Co. Inc. Mfrs., and Morris Paint Varnish Co.

6.3 Absence, Presence, Degree, Extent of Target Analytes

No organic vapors were detected in the soils screened with the OVA/FID. No target constituents were detected in excess of applicable FDEP direct exposure residential SCTLs in the soil samples collected from SB-1 and SB-2.

6.4 Conclusions / Objectives Met

The objective of this Phase II ESA was to address environmental concerns identified in a Phase I ESA completed by ECT dated June 2014. The former Burkes Paint Manufacturing and Morris Paint Varnish Co. operated on the adjoining parcel east of the Site between the years 1939 to 1953. Due to close proximity of the Site and nature of these businesses, this Phase II ESA was completed to determine the presence of soil impacts along the eastern border of the Site. The presence of impacted soil could pose an unacceptable risk to human health and the environment if there are direct exposure routes.

From the data collected from this Phase II ESA, it is concluded that:

- No organic vapors were detected in the soils screened with the OVA/FID;
- No target constituents were detected in excess of applicable FDEP direct exposure residential SCTLs in the soil samples collected from SB-1 and SB-2;
- The objectives of this Phase II ESA have been met.

7.0 RECOMMENDATIONS

No additional assessment activities are recommended at this time regarding the former Burkes Paint Manufacturing and Morris Paint Varnish Co., which previously operated on the adjoining parcel east of the Site.

8.0 REFERENCES

Environmental Data Resources, Inc. The EDR Aerial Photo Decade Package: 654 West Robinson Street, Orlando, FL 32801. April 28, 2014.

Environmental Data Resources, Inc. Certified Sanborn Map Report: 654 West Robinson Street, Orlando, FL 32801. April 28, 2014.

FDEP Contaminant Cleanup Target Levels, Chapter 62-777, Florida Administrative Code.

Google Maps, 2014 Aerial photography review.

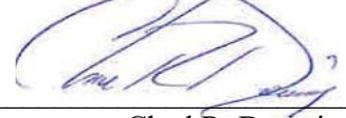
Orange County Property Appraisers Website.

9.0 SIGNATURE(S) OF ENVIRONMENTAL PROFESSIONAL(S)

ECT has completed this Phase II ESA for the Parramore Community Garden, located at 654 West Robinson Street, Orlando, Orange County, Florida, 32801. This Phase II ESA was conducted in conformance with the scope and limitations of American Society for Testing and Materials (ASTM) Practice E1903-11.

The Phase II ESA consisted of a site reconnaissance, soil sampling, laboratory analyses, and data evaluation, to determine soil quality at the site.

Report Prepared By:



Chad R. Downing
Senior Associate Scientist I

Report Reviewed By:



Peters, P.G., Principal Scientist
Florida Registered Professional
License Number 1593

ENVIRONMENTAL CONSULTING & TECHNOLOGY, INC. (ECT)
3660 Maguire Boulevard, Suite 107
Orlando, FL 32803

Geology Business Authorization No. 42

TABLES

TABLE 1: SOIL SCREENING SUMMARY

Site Name: Parramore Community Garden

Site Location: 654 West Robinson Street, Orlando, Orange County, Florida

SAMPLE			OVA SCREENING RESULTS			COMMENTS
BORING NO.	DATE	DEPTH (ft bls)	TOTAL READING (ppm)	CARBON FILTERED (ppm)	NET READING (ppm)	
SB-1	08/20/14	0.0-1.0	0	--	0	None
		1.0-2.0	0	--	0	None
		2.0-3.0	0	--	0	None
		3.0-4.0	0	--	0	None
		4.0-5.0	0	--	0	None
SB-2	08/20/14	0.0-1.0	0	--	0	None
		1.0-2.0	0	--	0	None
		2.0-3.0	0	--	0	None
		3.0-4.0	0	--	0	None
		4.0-5.0	0	--	0	None

ft bls = feet below land surface

ppm = parts per million

TABLE 2: SOIL ANALYTICAL SUMMARY

Site Name: Parramore Community Garden

Site Location: 654 West Robinson Street, Orlando, Orange County, Florida

Location	Sample		Antimony mg/Kg	Arsenic mg/Kg	Cadmium mg/Kg	Chromium mg/Kg	Cobalt mg/Kg	Copper mg/Kg	Lead mg/Kg	Lithium mg/Kg	Manganese mg/Kg	Nickel mg/Kg	Tungsten mg/Kg
	Depth ft/bis	Date											
SCTL - Residential			27	2.1	82	210	1700	150**	400	1700	3500	340**	****
SCTL - Industrial			370	12	1700	470	42000	89000	1400	44000	43000	35000	****
SCTL - Leachability			5.4	***	7.5	38	***	***	***	***	***	130	****
SB1-1-082014	0.5-1.0	08/20/14	0.22 I	1.0	0.16 I	8.4	0.32 I	9.7	54.6	2.4	15.8	3.9	4.5 U
SB1-3-082014	1.0-3.0	08/20/14	0.10 I	0.20 I	0.025 U	1.5	0.050 I	0.32 I	2.0	0.64 I	1.3	0.91 I	4.7 U
SB1-5-082014	3.0-5.0	08/20/14	0.083 U	0.083 U	0.021 U	0.79	0.025 I	0.12 I	0.84	0.41 I	0.75	0.32 I	4.7 U
SB2-1-082014	0.5-1.0	08/20/14	0.094 U	0.16 I	0.023 U	1.8	0.028 I	0.63 I	3.1	1.5 I	1.8	0.76 I	4.9 U
SB2-3-082014	1.0-3.0	08/20/14	0.072 U	0.072 U	0.018 U	0.67	0.018 U	0.10 I	0.87	0.77 I	0.61	0.23 I	5.2 U
SB2-5-082014	3.0-5.0	08/20/14	0.095 U	0.11 I	0.024 U	1.4	0.033 I	0.26 I	1.9	0.97 I	0.87	0.56 I	4.4 U

Notes:

Criteria taken from Chapter 62-777.

SCTL = Soil cleanup target level.

Residential = Residential land use direct exposure.

Industrial = Industrial/commercial land use direct exposure.

mg/kg = milligrams per kilogram

U = the analyte was not detected above the method detection limit

I = the reported value is between the method detection limit and the practical quantitation limit

** Direct exposure value based on acute toxicity consideration.

*** Leachability values may be derived using the SPLP Test to calculate site-specific SCTLs or may be determined using TCLP in the event city wastes are present.

**** No soil cleanup criteria established

FIGURES

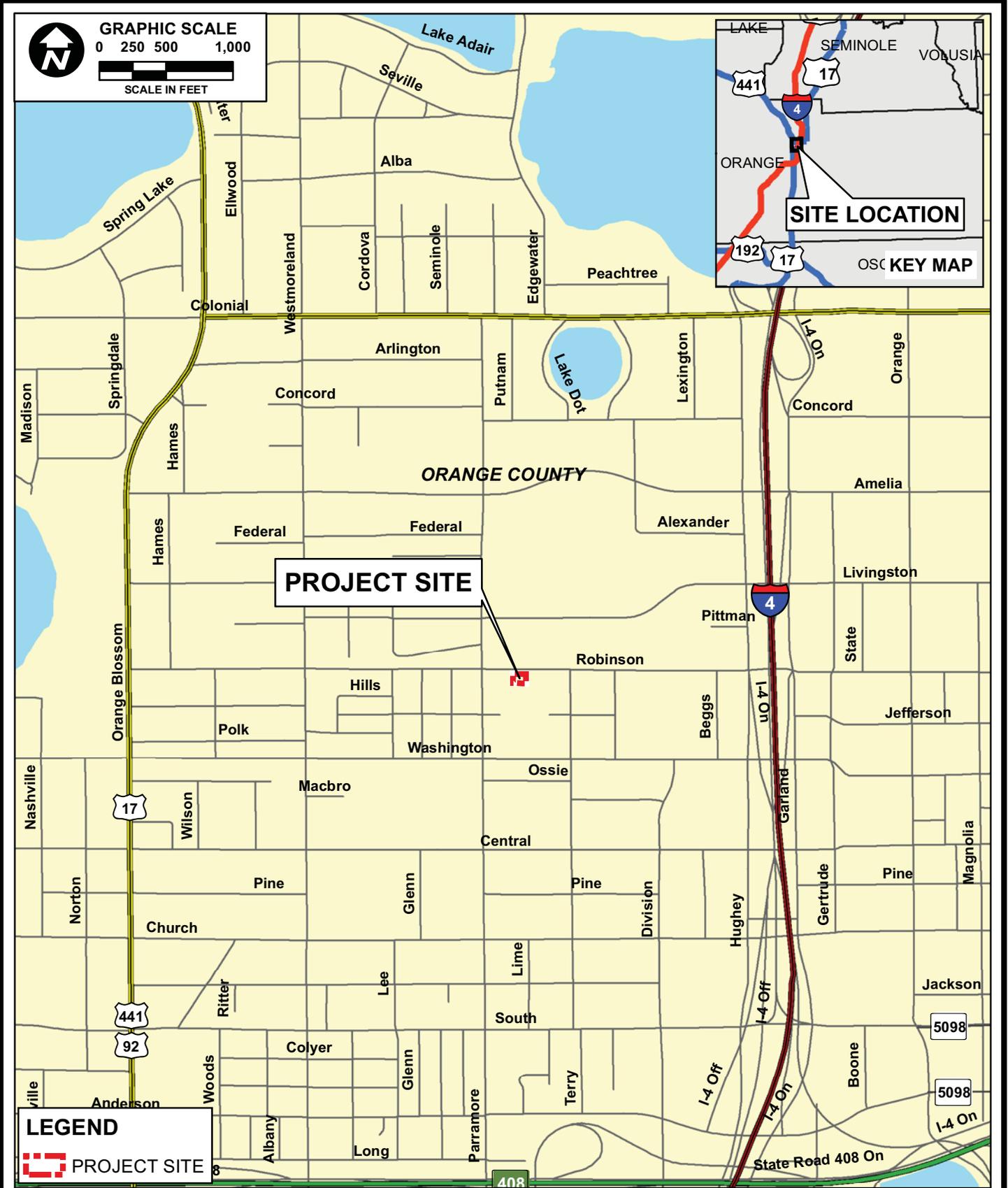


FIGURE 1.
LOCATION MAP
 654 W ROBINSON STREET
 ORLANDO, ORANGE COUNTY, FLORIDA
 SECTION 26, TOWNSHIP 22S, RANGE 29E
 Background Source: Various FGDL Sources; ECT, 2014.



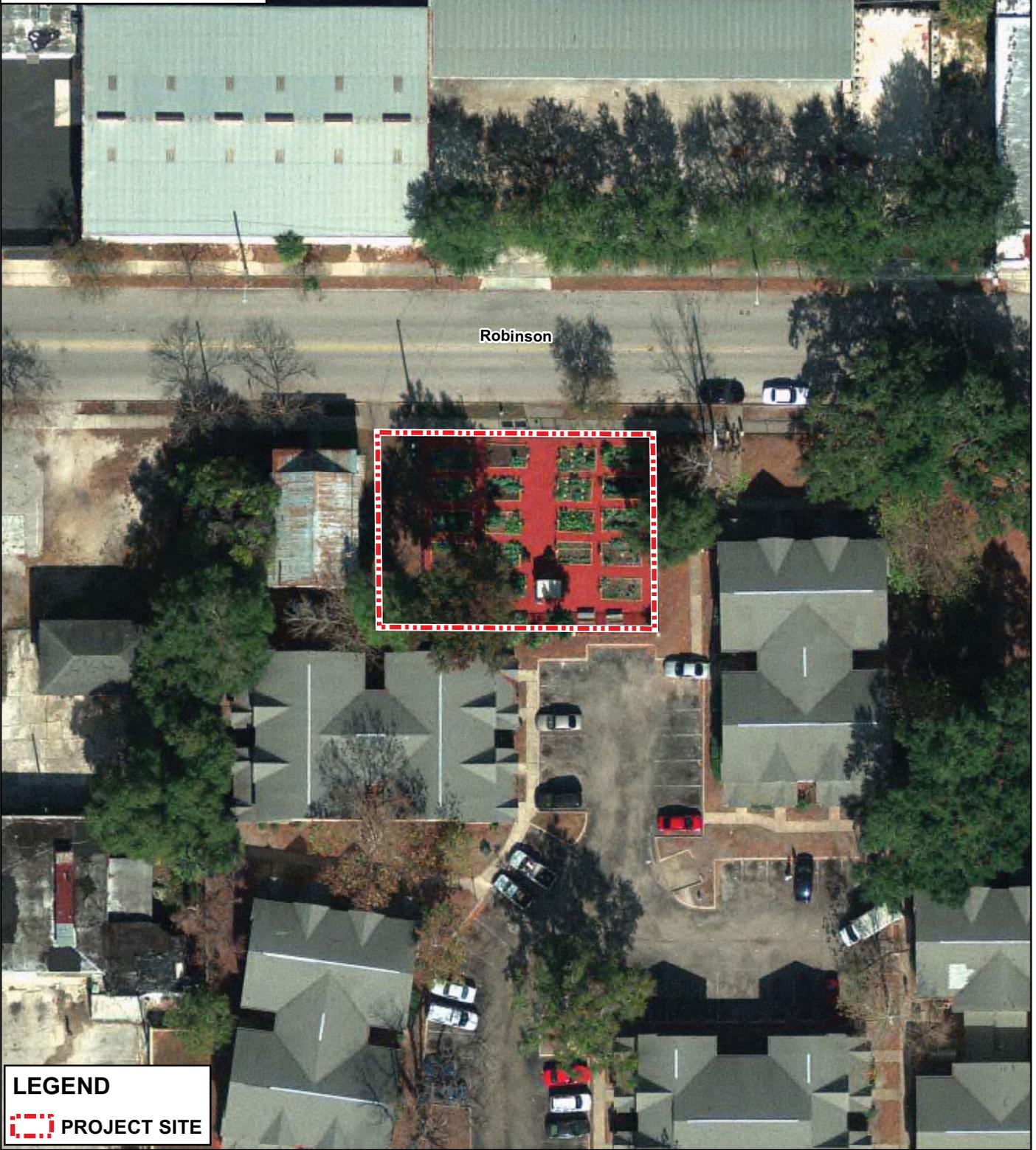


GRAPHIC SCALE

0 12.5 25 50



SCALE IN FEET



LEGEND

 PROJECT SITE

FIGURE 2.
2012 AERIAL PHOTOGRAPH
654 W ROBINSON STREET
ORLANDO, ORANGE COUNTY, FLORIDA
SECTION 26, TOWNSHIP 22S, RANGE 29E
Background Source: FDOT, 2012; ECT, 2014.



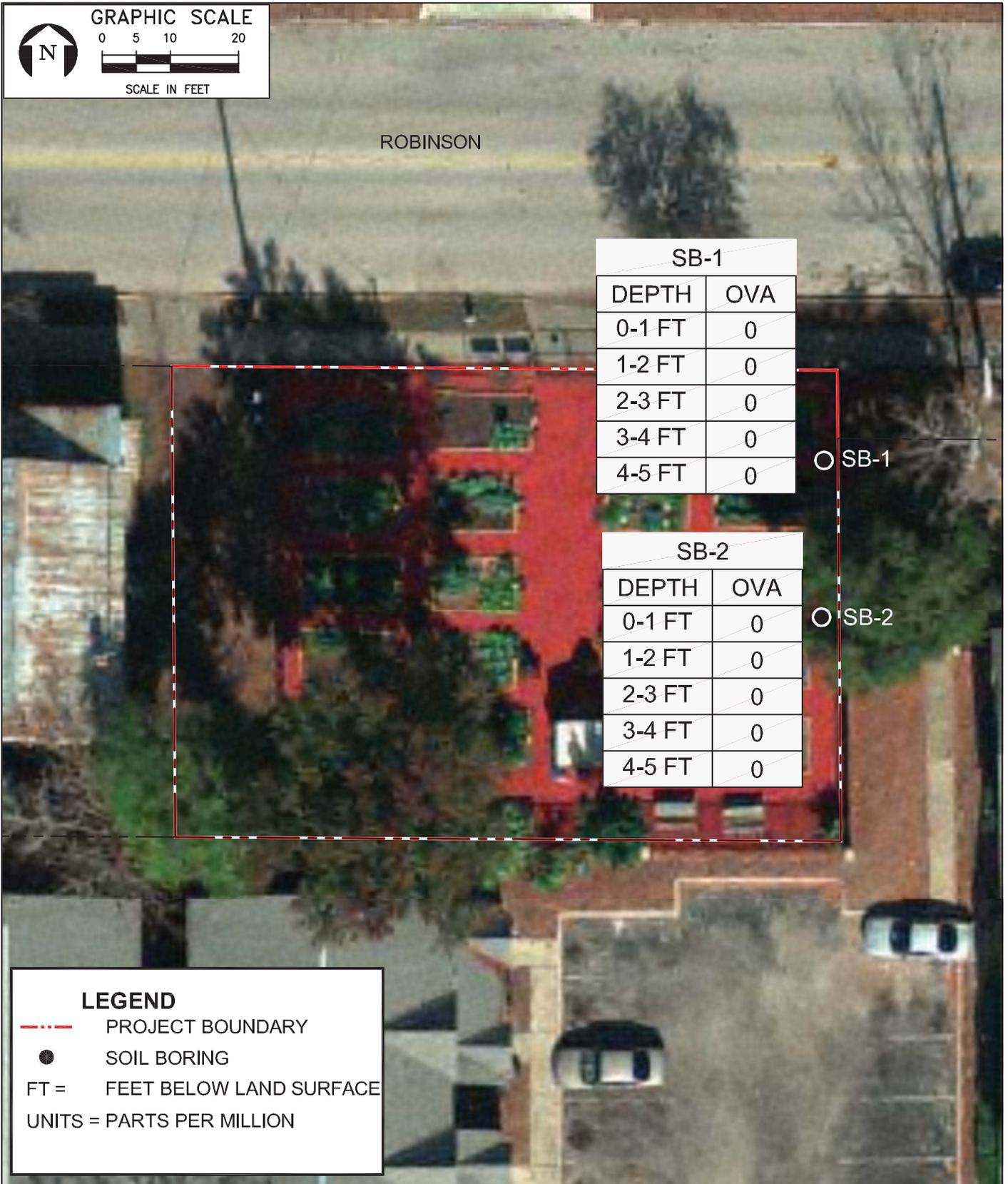


FIGURE 3.
 SOIL SCREENING SUMMARY - AUGUST 20, 2014
 654 W ROBINSON STREET
 ORLANDO, ORANGE COUNTY, FLORIDA
 SECTION 26, TOWNSHIP 22S, RANGE 29E
 SOURCE: ECT, 2014.



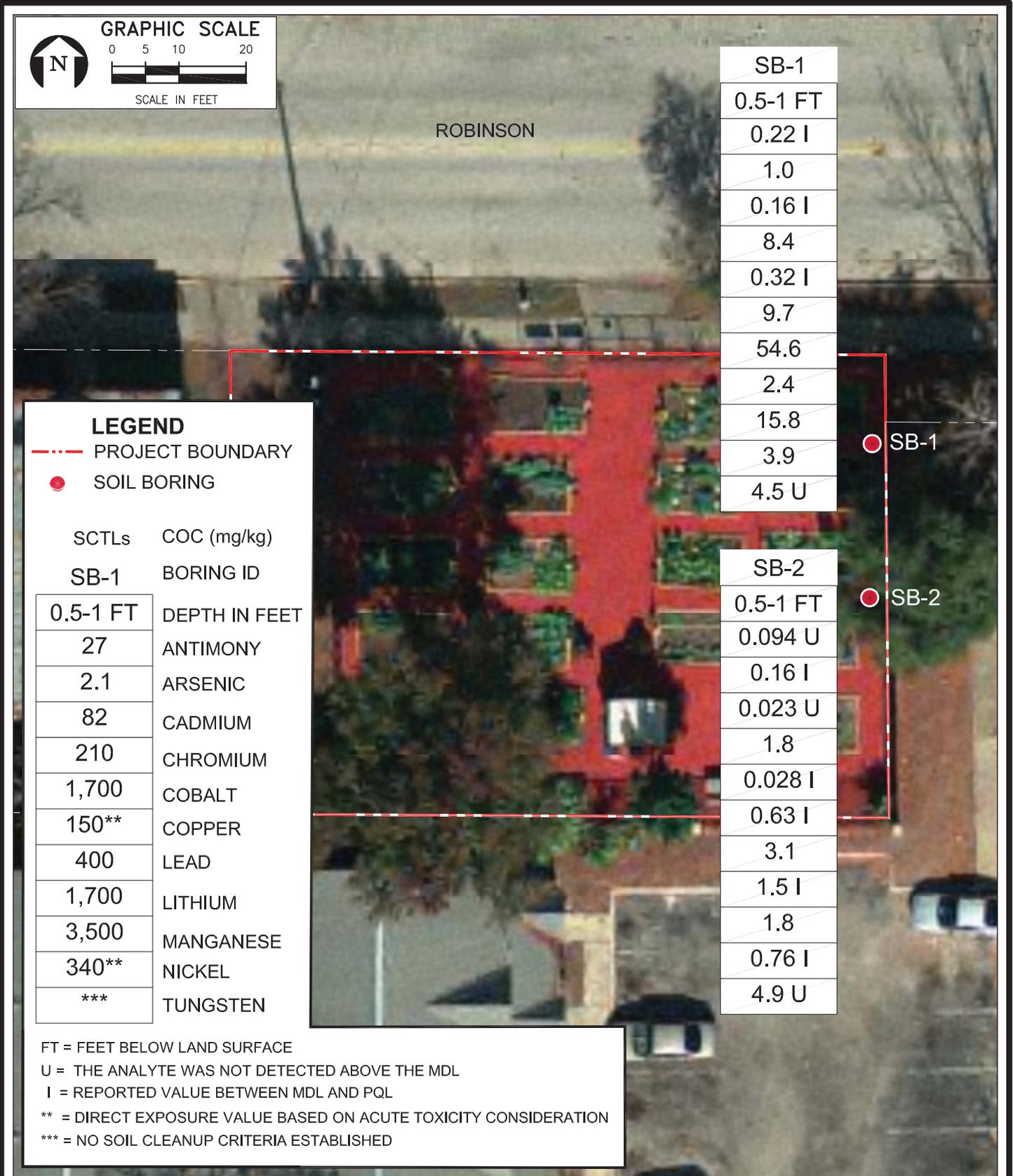


FIGURE 4.
 SOIL ANALYTICAL SUMMARY 0.5-1 FT - AUGUST 20, 2014
 654 W ROBINSON STREET
 ORLANDO, ORANGE COUNTY, FLORIDA
 SECTION 26, TOWNSHIP 22S, RANGE 29E
 SOURCE: ECT, 2014.



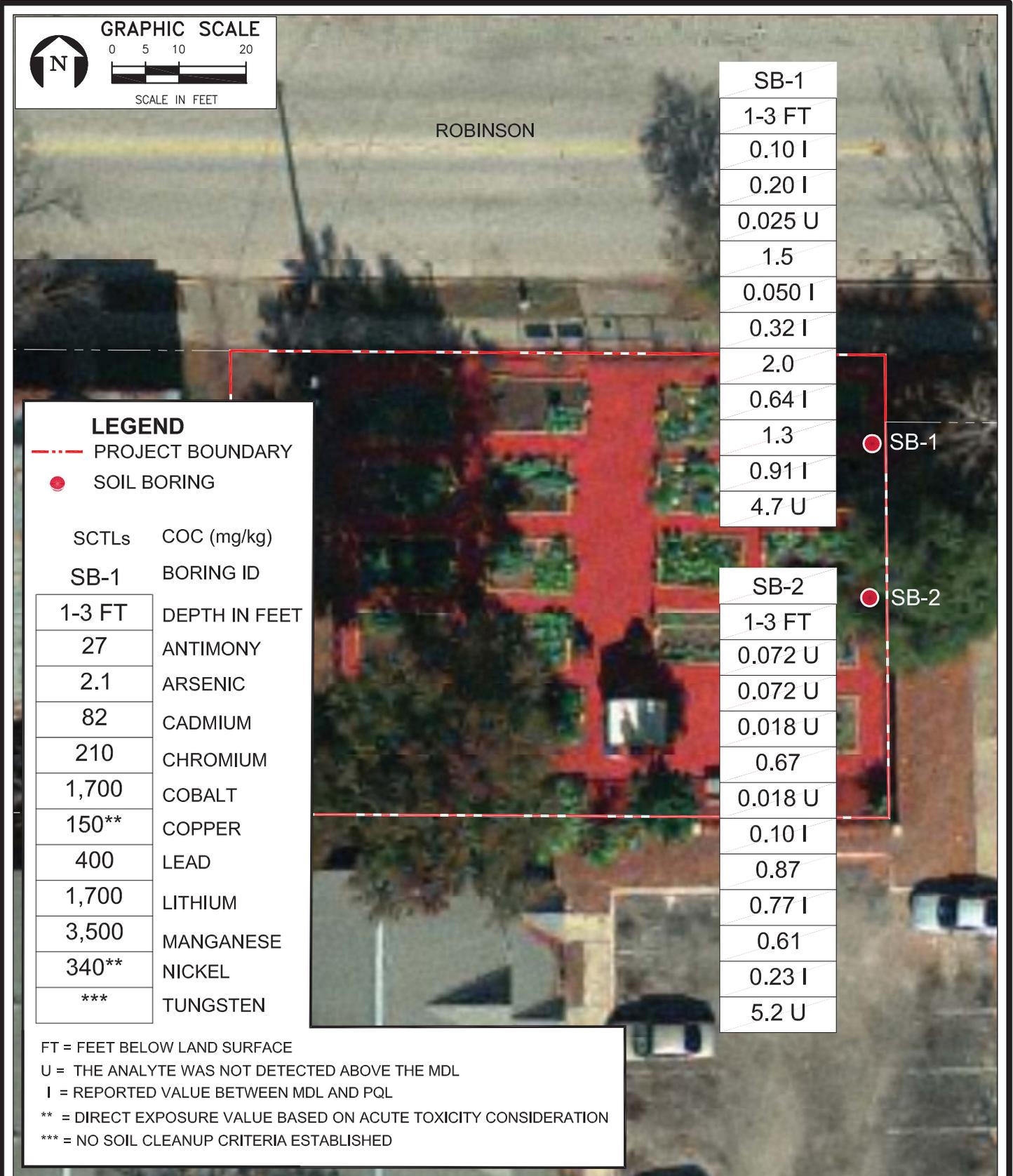


FIGURE 5.
 SOIL ANALYTICAL SUMMARY 1-3 FT - AUGUST 20, 2014
 654 W ROBINSON STREET
 ORLANDO, ORANGE COUNTY, FLORIDA
 SECTION 26, TOWNSHIP 22S, RANGE 29E
 SOURCE: ECT, 2014.



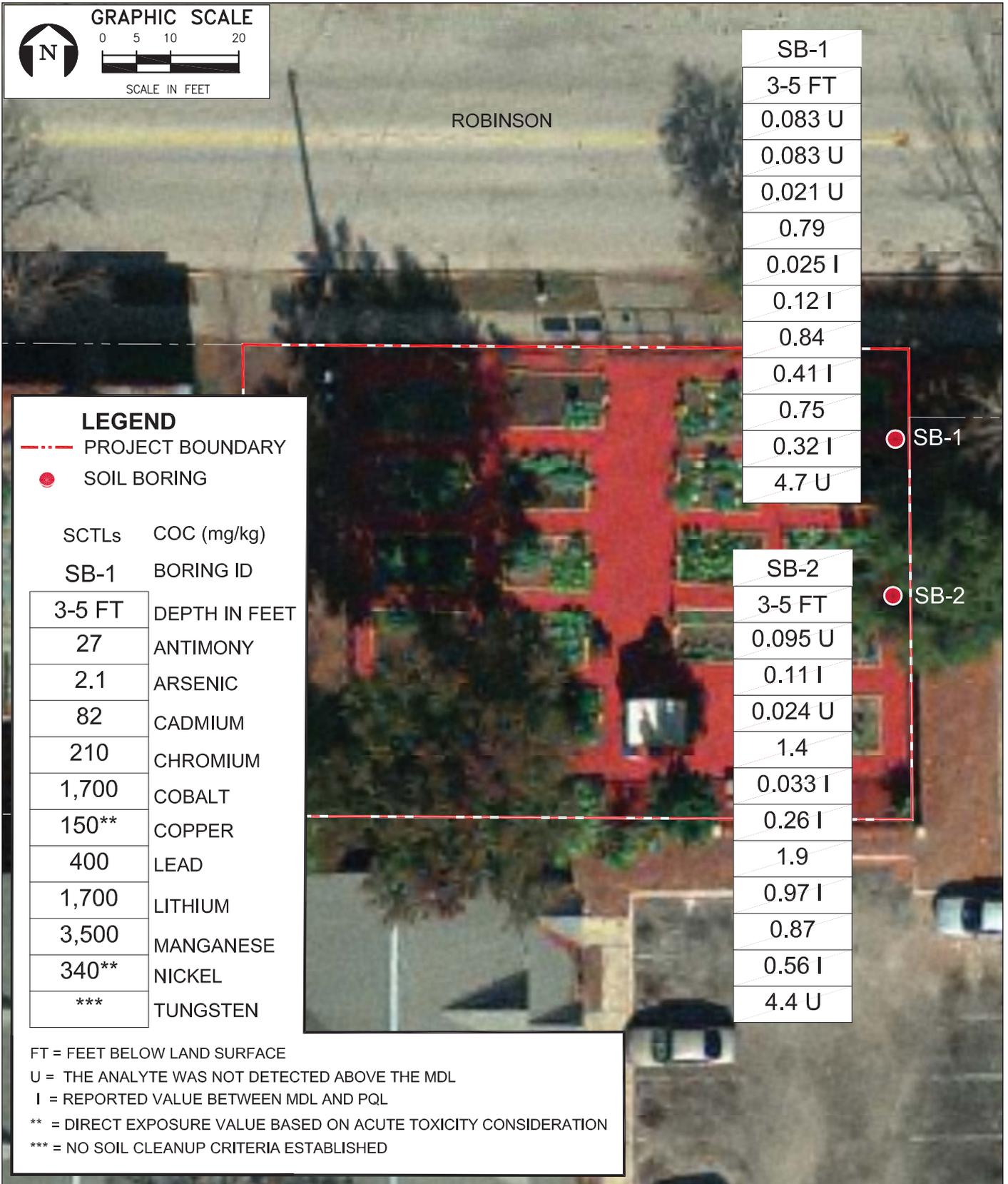


FIGURE 6.
 SOIL ANALYTICAL SUMMARY 3-5 FT - AUGUST 20, 2014
 654 W ROBINSON STREET
 ORLANDO, ORANGE COUNTY, FLORIDA
 SECTION 26, TOWNSHIP 22S, RANGE 29E
 SOURCE: ECT, 2014.



APPENDIX A

**EPA R4 BROWNFIELDS GRANT
SITE ELIGIBILITY DETERMINATION OUTLINE**

To be used for determining site eligibility for Phase II Environmental Site Assessments and Cleanups.

A. GENERAL INFORMATION

1. Grantee/Applicant Name: CITY OF ORLANDO, FLORIDA

2. If Grant:

Grant Number: BF95498212

Grant Type (104(k) Assessment, 104(k) RLF): ASSESSMENT

3. Work to be conducted (Phase II Assessment, Phase III Assessment, Cleanup): PHASE II ASSESSMENT

4. How much funding do you anticipate spending on the site? \$7,000. Please note that there are funding limitations for site-specific activities. For assessments, no more than \$200,000 per site, with the possibility of a waiver for up to \$350,000. For cleanups, no more than \$200,000 per site.

5. Date of proposed work: August 2014

6. Date of this document: August 12, 2014

B. BASIC SITE INFORMATION

1. Site Name: PARRAMORE COMMUNITY GARDEN

2. Site Address (and County): 654 WEST ROBINSON, ORLANDO, FL

3. Who is the current owner of the site? CITY OF ORLANDO

4. Describe grantee's or applicants relationship with the owner, and the owner's role in the work to be performed:

THE CITY OF ORLANDO OWNS THE SITE. A SYNOPSIS OF ECT'S PHASE I ESA REPORT THAT INCLUDES THE RECOGNIZED ENVIRONMENTAL CONDITIONS IDENTIFIED, ALONG WITH A SITE MAP OF THE PROPOSED PHASE II ESA ACTIVITIES, IS PROVIDED IN APPENDIX A.

5. Known or Suspected Contaminant(s) (check one):

Hazardous Substances

Mine Scarred Lands

- Controlled Substances
- Hazardous Substances Commingled with Petroleum
- Petroleum Only

6. Identify when and how the site became contaminated; describe previous known uses. If the land has been vacant for many years, why does the grantee think that it is contaminated?

THE PHASE I ESA INVESTIGATION REVEALED NO EVIDENCE OF RECOGNIZED ENVIRONMENTAL CONDITIONS (RECS) ASSOCIATED WITH THE SITE; HOWEVER, THE FOLLOWING WAS IDENTIFIED AS A POTENTIAL CONCERN FOR THE SITE:

1. THE 1950 SANBORN MAP IDENTIFIED THE ADJOINING PROPERTY TO THE EAST OF THE PARRAMORE COMMUNITY GARDEN AS A PAINT FACTORY (MFG.). THE 1939-1948 CITY DIRECTORY IDENTIFIED THE ADJOINING PROPERTY TO THE EAST AS BURKES TROPICAL PAINT CO. INC. MFRS. THE 1953 CITY DIRECTORY IDENTIFIED THE ADJOINING PROPERTY TO THE EAST AS MORRIS PAINT AND VARNISH CO. DUE TO THE PROXIMITY OF THIS FORMER BUSINESS, THE BUSINESS TYPE, AND THE UNKNOWN BUSINESS PRACTICES ASSOCIATED WITH IT, BURKES PAINT MANUFACTURING AND MORRIS PAINT AND VARNISH CO. ARE CONSIDERED A POTENTIAL CONCERN FOR THE PARRAMORE COMMUNITY GARDEN.

7. Does the site meet the definition of a Brownfields Site? (Is the site “real property, the expansion, redevelopment or reuse of which is complicated by the presence or potential presence of hazardous substances, pollutants or contaminants”?)

YES NO

C. SITES NOT ELIGIBLE FOR FUNDING BY STATUTE

The grantee must supply the following information to the best of their knowledge:

1. Is the facility listed (or proposed for listing) on the National Priorities List? YES NO
2. Is the facility subject to unilateral administrative orders, court orders, administrative orders on consent, or judicial consent decrees issued to or entered into by parties under CERCLA?
 YES NO
3. Is the facility subject to the jurisdiction, custody, or control of the US government. (Land held in trust by the US government for an Indian tribe is eligible.) YES NO

*Note: If the answer is YES to any of the above (C.1-3) the property is **not** eligible.*

D. SITES ONLY ELIGIBLE FOR FUNDING WITH A PROPERTY SPECIFIC DETERMINATION BY EPA:

Certain properties can only be approved with a Property Specific Determination by EPA. The grantee must provide answers to the following questions to the best of their knowledge:

1. Is the site/facility subject to a planned or ongoing CERCLA removal action? YES NO

2. Has the site/facility been the subject of a unilateral administrative order, court order, an administrative order on consent or judicial consent decree that has been issued to or entered into by the parties, or been issued a permit by the U.S. or an authorized state under the Solid Waste Disposal Act (as amended by the Resource Conservation and Recovery Act (RCRA)), the Federal Water Pollution Control Act (FWPCA), the Toxic Substances Control Act (TSCA), or the Safe Drinking Water Act (SWDA)? YES NO

3. Is the site/facility subject to corrective action orders under RCRA (sections 3004(u) or 3008(h)) and has there been a corrective action permit or order issued or modified to require corrective measures? YES NO

4. Is the site/facility a land disposal unit that has submitted a RCRA closure notification under subtitle C of RCRA and is subject to closure requirements specified in a closure plan or permit? YES NO

5. Has the site/facility had a release of polychlorinated biphenyls (PCBs) that is subject to remediation under TSCA? YES NO

6. Has the site/facility received funding for remediation from the leaking Underground Storage Tank (LUST) Trust Fund? YES NO

Note: If the answer is YES to any of the above (D. 1-6), a property specific determination is required. The grantee or TBA applicant must complete the remaining applicable portions of this outline and submit additional information, as outlined in Appendix A to this document.

E. HAZARDOUS SUBSTANCE/COMMINGLED CONTAMINATION SITES (for Petroleum only sites, skip to F.)

1. Does the grantee own the site? YES NO

2. Answer the following if the grantee *is the current site owner*. (If the grantee is not the current site owner, skip to 3) :
 - a. Is the owner a Unit of State or Local Government **or** Other

 - b. If the owner is a governmental unit, how was the property acquired?
 Tax Foreclosure Donation Eminent Domain Bought it outright

X Other (Explain): QUIT CLAIM DEED

Date acquired: 10/29/2001

c. Do they have a defense to CERCLA liability? (see FY12 ARC Guidelines)

YES – Involuntary Acquisition

Bankruptcy, tax delinquency, abandonment, or other similar circumstances.

YES – Bona Fide Prospective Purchaser (BFPP)

Did the owner conduct Pre-purchase Inquiry (EPA All Appropriate Inquiry, ASTM standards, or other) prior to acquiring property?

YES X NO

Did the owner take reasonable steps with regards to the contamination at the site?

X YES NO

XYES – Contiguous Property Owner

YES – Third Party or Innocent Land Owner

YES – Indian Tribe

NO

d. Are they liable at the site as an Operator, Arranger, **or** Transporter

OR X None Applicable

e. Did all disposal of hazardous substances at the site occur before they acquired the property? YES X NO

f. Did they cause or contribute to any release of hazardous substances at the site?

YES X NO

3. Answer the following if the grantee *is not the site owner*:

a. Is the grantee potentially liable at the site as an Operator, Arranger, Transporter

b. Is the grantee affiliated with the site owner (familial, contractual, financial)

OR None Applicable

F. PETROLEUM ONLY CONTAMINATION SITES

Petroleum sites need a written site eligibility determination by the state or EPA.

1. If the state *has made* the petroleum eligibility determination, the grantee must provide EPA with the letter from the state.

2. If the state *was unable to make* the determination, EPA must make the determination consistent with the Guidelines (note that EPA staff will need to refer to the most recent ARC Guidelines to conduct the petroleum determination). The grantee must provide information regarding the following:

a. Whether the site is of “relatively low risk” compared with other “petroleum-only” sites in the state. Two key questions for this determination follow:

1. Have Leaking Underground Storage Tank funds been expended at this site?
 YES NO

2. Have Federal Oil Pollution Act response funds been expended at this site?
 YES NO

b. Whether there is a viable responsible party at the site. Key questions for this determination follow:

1. Was the site last acquired through tax foreclosure, abandonment or equivalent government proceedings? YES NO

2. Has a responsible party been identified through:

a) a judgment rendered in a court of law or an administrative order that would require any party to assess, investigate, or cleanup the site; YES NO or

b) a filed enforcement action brought by federal or state authorities that would require any party to assess, investigate, or cleanup the site; YES NO or

c) a citizen suit, contribution action or other third party claim against the current or immediate past owner, that would, if successful, require that party to assess, investigate, or clean up the site. YES NO;

Skip to “b.5” if the site was acquired through tax foreclosure, abandonment or equivalent government proceedings; if not, answer question b.3 and 5.4.

3. The current owner is: _____ [fill in the blank] Has the current owner:

a) dispensed or disposed of petroleum or petroleum product at the site?
 YES NO

b) owned the property during the dispensing or disposal of petroleum product at the site? YES NO

e) exacerbated the contamination at the site? YES NO

d) taken reasonable steps with regard to contamination at the site,
 YES NO.

4. The immediate past owner is: _____ [fill in the blank]
Has the immediate past owner:

a) dispensed or disposed of petroleum or petroleum product at the site?
YES NO

b) owned the property during the dispensing or disposal of petroleum product at the site? YES NO

c) exacerbated the contamination at the site? YES NO

d) taken reasonable steps with regard to contamination at the site,
 YES NO

5. Based on the above, for purposes of Brownfields funding, is there a responsible party? YES NO If "YES" go on to #6, if "NO" proceed directly to F.2.C.

6. If there is a responsible party, is that party viable (has adequate financial resources to pay for assessment of the site). YES NO If "NO", explain the basis for that conclusion:

If there is a viable responsible party, the petroleum site is ineligible. If there is no responsible party, or if there is a responsible party who is not viable, continue. NOTE: States may apply their own laws and regulations to make the petroleum site determination instead of the previous questions; if they do so, the grantee must submit their determination and rationale.

c. Whether the grantee is potentially liable for cleaning up the site. Key questions for this determination follow:

1. Has the grantee ever:

a) dispensed or disposed of petroleum or petroleum product at the site, or owned the property during the dispensing or disposing of petroleum?

YES NO

b) exacerbated the contamination at the site? YES NO

d. Is the site subject to any order issued under Sec. 9003(h) of the Solid Waste Disposal Act? YES NO

G. ACCESS

Does grantee have access or an access agreement for this property? YES NO

H. SITE ELIGIBILITY DETERMINATION BY EPA PROJECT OFFICER

Please Note: If there are any questions on eligibility, OR if the grantee owns the site it wishes to work on, the P.O. should consult with the Regional Brownfields Coordinator, and as necessary EPA legal counsel.

Site is / is not eligible for site assessment activities using EPA Brownfields Funds
-- OR --

Site is eligible but requires an EPA Property-Specific Determination, for which additional information was provided.

EPA Project Officer

Date:

I. EPA NOTIFICATION TO APPLICANT OF SITE ELIGIBILITY

Date Sent : _____

Copy of Notification Attached: YES NO

APPENDIX A: [IF REQUIRED] INFORMATION TO SUPPORT PROPERTY SPECIFIC DETERMINATION by EPA

Grantee must explain why Brownfields financial assistance is needed and how it will protect human health and the environment and either promote economic development or enable the creation of, preservation of, or addition to parks, greenways undeveloped property, other recreational property, or other property used for nonprofit purposes.

The 1950 Sanborn Map identifies the adjoin property to the east of the target property (TP) as a Paint Factory (MFG.). The 1939-1948 City Directory identifies the adjoin property to the east as Burkes Tropical Paint Co. Inc. Mfrs. The 1953 City Directory identifies the adjoining property to the east as Morris Paint and Varnish Co. Due to the proximity of this former business, the business type, and the unknown business practices associated with it, BURKES PAINT MANUFACTURING and MORRIS PAINT AND VARNISH CO. are considered a potential concern for the TP.



GRAPHIC SCALE

0 12.5 25 50



SCALE IN FEET



LEGEND

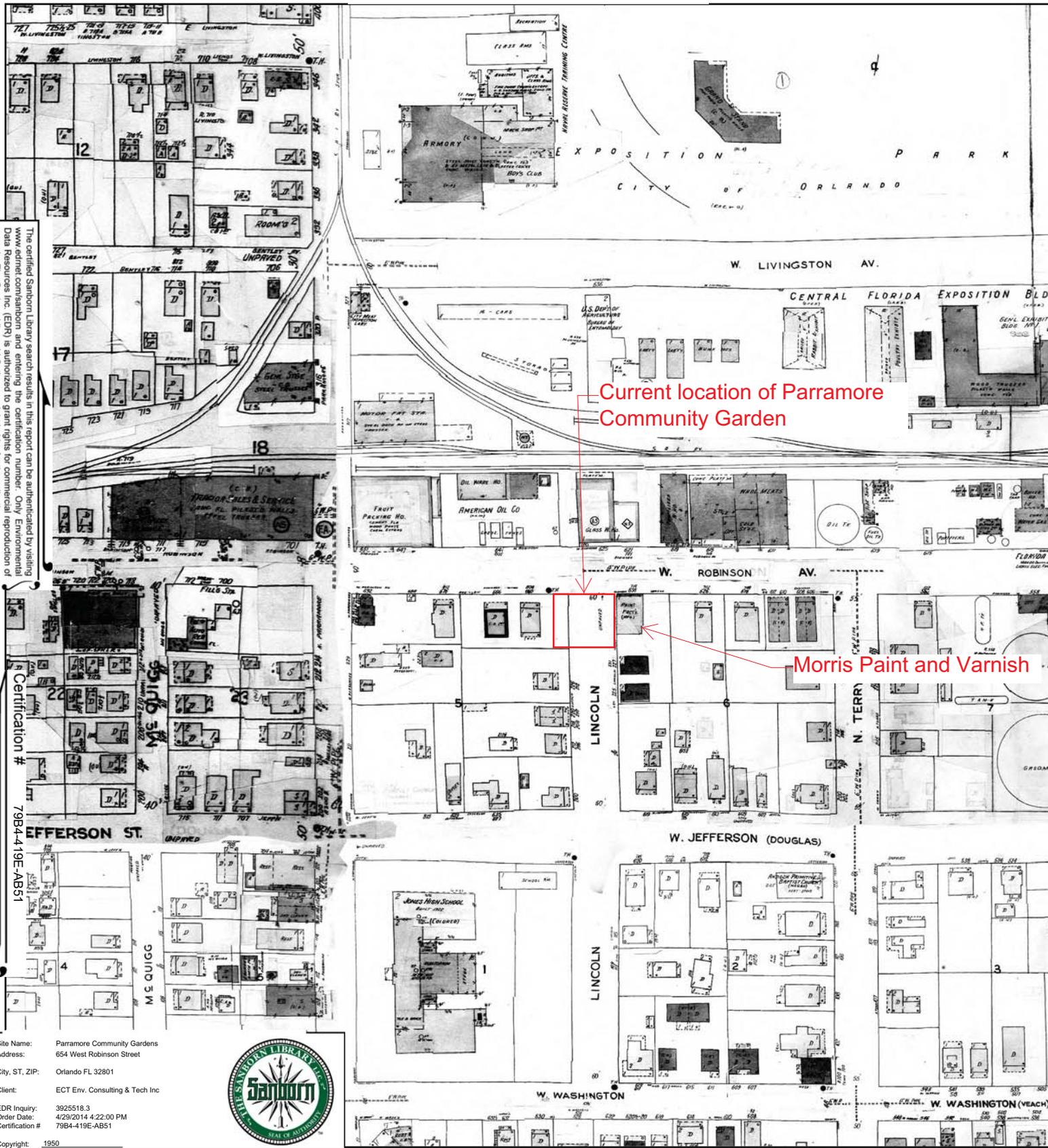
 PROJECT SITE

FIGURE 2.
2012 AERIAL PHOTOGRAPH
654 W ROBINSON STREET
ORLANDO, ORANGE COUNTY, FLORIDA
SECTION 26, TOWNSHIP 22S, RANGE 29E
Background Source: FDOT, 2012; ECT, 2014.

*** proposed soil sampling locations**



1950 Certified Sanborn Map



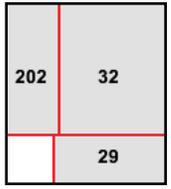
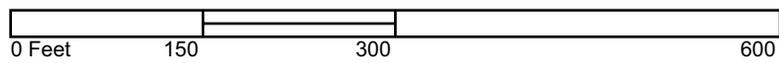
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Certification # 79B4-419E-AB51

Site Name: Parramore Community Gardens
 Address: 654 West Robinson Street
 City, ST, ZIP: Orlando FL 32801
 Client: ECT Env. Consulting & Tech Inc
 EDR Inquiry: 3925518.3
 Order Date: 4/29/2014 4:22:00 PM
 Certification #: 79B4-419E-AB51



This Certified Sanborn Map combines the following sheets.
 Outlined areas indicate map sheets within the collection.



Volume 2, Sheet 202
 Volume 1, Sheet 29
 Volume 1, Sheet 32



Prepared By and Return to:
JOYCE SAVAGE-GASTON, ESQUIRE
SAVAGE-GASTON, HOGAN & HARGROVE, P.A.
801 N. Magnolia, Suite 402
Orlando, Florida 32801-1956
(407) 648-8882
Parcel No. 26-22-29-6716-04-011

QUIT-CLAIM DEED

THIS QUIT-CLAIM DEED, Executed this 29th day of October, 2001, by and between **NATHANIEL NEWTON and MARGARET L. NEWTON, HUSBAND AND WIFE**, whose address is 4104 Kirkland Blvd., Orlando, Florida 32811, hereinafter referred to as Grantors, to the CITY OF ORLANDO, hereinafter referred to as Grantee, whose post office address is P.O. Box 4990, 400 S. Orange Avenue, Orlando, Florida 32802.

(Whenever used herein, the terms "Grantors" and "Grantees" shall include singular and plural, heirs, legal representatives, and assigns of individuals, and the successors and assigns of corporations, wherever the context so admits or requires.)

WITNESSETH, that the said Grantors, for and in consideration of the sum of \$10.00 in hand paid by the said Grantee, the receipt of which is hereby acknowledged, do hereby remise, release and quit-claim unto the said Grantee forever, all the right, title, interest, claim and demand which the said Grantors have in and to the following described property: **654 W. Robinson Street, a/k/a 660 W. Robinson Street, Orlando, FL**, more fully described as:

NE 1/4 of Lot 1, Block "D", PLAN OF JAMES B. PARRAMORE'S ADDITION TO THE TOWN OF ORLANDO, according to the plat thereof as recorded in Plat Book "C", Page 66, of the Public Records of Orange County, Florida.

TOGETHER with all tenements, hereditaments and appurtenances thereto belonging or any anywise appertaining.

TO HAVE AND TO HOLD the same together with all and singular the appurtenances thereunto belonging or in anywise appertaining,

and all the estate, title, interest, lien equity and claim whatsoever of said first party, either in law or equity, to the only proper use, benefit and behalf of the said Grantee forever.

IN WITNESS WHEREOF, the said Grantors have signed and sealed these presents the day and year first above written.

Signed, sealed and delivered
in the presence of:

Monique M. Edwards
Witness

Nathaniel Newton
NATHANIEL NEWTON, Grantor
4104 Kirkland Blvd.
Orlando, FL 32811

Veronica Vally
Witness

Margaret L. Newton
MARGARET L. NEWTON, Grantor
4104 Kirkland Blvd.
Orlando, FL 323811

STATE OF FLORIDA
COUNTY OF ORANGE

I HEREBY CERTIFY that on this day, before me, an officer duly authorized in the State and County aforesaid to take acknowledgements, personally appeared NATHANIEL NEWTON, who produced Drivers License no. N350-620-39-459-0, who is the person described in and who executed the foregoing Quit-Claim Deed and who did take an oath and acknowledged before me that he executed the same.

WITNESS my hand and official seal in the County and State last aforesaid this 29th day of October, 2001.



Semonia M. Davis
NOTARY PUBLIC
My Commission Expires

STATE OF FLORIDA
COUNTY OF ORANGE

I HEREBY CERTIFY that on this day, before me, an officer duly authorized in the State and County aforesaid to take acknowledgements, personally appeared MARGARET L. NEWTON, who produced Drivers License no. N350-570-43-839-0, who is the person described in and who executed the foregoing Quit-Claim Deed and who did take an oath and acknowledged before me that he executed the

same.

WITNESS my hand and official seal in the County and State last
aforesaid this 30th day of October, 2001.



APRIL S. R. CURINGTON
MY COMMISSION EXPIRES
Aug. 17, 2005
BONDED THRU TROY FARM INSURANCE, INC.

April S. R. Curington

NOTARY PUBLIC
My Commission Expires

c:\...\Newton\Robinson Street\qcd

APPENDIX B

A1. TITLE/APPROVAL AND INTRODUCTION

**Site Specific Quality Assurance Project Plan
Addendum 2A**

Brownfields Phase II Environmental Site Assessment
Parramore Community Garden
654 West Robinson Street
Orlando, Orange County, Florida
A companion document to

Generic Quality Assurance Project Plan

for
EPA Brownfields Cooperative Agreement **BF-95498212**

prepared for:

City of Orlando, Florida
Public Works Division
5100 L.B. McLeod Road
Orlando, FL 32811

prepared by:

ECT Environmental
Consulting &
Technology, Inc
3660 Maguire Boulevard, Suite 107
Orlando, Florida 32803
407/903-0005 (t)
www.ectinc.com

ECT Project No. 140451-0001

August 2014

	<i>Jeffrey J. Peters</i>	Approval:
Project Manager/Director:	Jeffrey J. Peters, P.G.	Printed Name/Date
ECT Quality Assurance/Quality Control Officer:	<i>Dave Kraus</i>	Printed Name/Date
	Dave Kraus, P.G.	Printed Name/Date
U.S. EPA Project Manager:	<i>Brian Gross</i>	8-14-14 Printed Name/Date
	Brian Gross	Printed Name/Date
U.S. EPA Designated Approving Office:	<i>Brian Gross</i>	8-14-14 Printed Name/Date
	Brian Gross	Printed Name/Date
City of Orlando Brownfield Coordinator	Dan Dashtaki	Printed Name/Date

INTRODUCTION

The City of Orlando, Florida is the recipient of a Brownfields Assessment Grant, EPA Cooperative Agreement BF-95498212. This grant was awarded in September 2012 and is a community-wide grant, with emphasis on the Parramore Community. Developing these areas will boost the core of the community's economy and provide a greater connectivity with other economically depressed communities.

As part of the Brownfields Assessment Grant, a Generic Quality Assurance Project Plan (QAPP) was prepared in September 2013. The plan was prepared in accordance with the requirements of EPA Region 4 Brownfields Program. The Generic QAPP was approved by EPA on September 18, 2013.

The Parramore Community Garden (Site) is proposed for continued gardening activities and is owned by the City of Orlando. A Phase I Environmental Site Assessment (ESA) was conducted in June 2014. The Phase I ESA was funded by the Brownfields Assessment Grant and conducted in accordance with the scope and limitations of ASTM E1527-13 and All Appropriate Inquiry (AAI) for Phase I ESAs. The Phase I ESA investigation revealed no evidence of recognized environmental conditions (RECs) associated with the Site; however, the following was identified as a potential concern for the Site:

1. The 1950 Sanborn Map identified the adjoining property to the east of the Parramore Community Garden as a Paint Factory (MFG.). The 1939-1948 City Directory identified the adjoining property to the east as Burkes Tropical Paint Co. Inc. Mfrs. The 1953 City Directory identified the adjoining property to the east as Morris Paint and Varnish Co. Due to the proximity of this former business, the business type, and the unknown business practices associated with it, BURKES PAINT MANUFACTURING and MORRIS PAINT AND VARNISH CO. are considered a potential concern for the Parramore Community Garden.

A proposal for a Phase II ESA has been prepared to investigate the potential concern (listed above) that was identified in the Phase I ESA. The Phase II ESA for this site shall be conducted in general accordance with the scope and limitations of ASTM E1903-11.

This Site Specific Quality Assurance Project Plan (SSQAPP) was prepared in accordance with the requirements of EPA Region 4 Brownfields Program and is intended to document the necessary quality assurance (QA) and quality control (QC) criteria, and other technical activities that are implemented to ensure that the results of the Phase II ESA will satisfy the required performance criteria. This SSQAPP is the initial SSQAPP prepared for this site. Therefore, the addendum reference for this document is Addendum 1A. The work described in this SSQAPP will be conducted in accordance with the processes described in the Generic QAPP.

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FIGURES

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- Figure 2: USGS Topographic Map
- Figure 3: 2012 Aerial Photograph
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ATTACHMENT A

Quality Assurance Project Organization Chart

A3. DISTRIBUTION LIST

The following individuals will receive copies of the approved Generic Quality Assurance Project Plan (QAPP) and subsequent revisions:

- Brian Gross, Brownfields Project Officer/Manager, United States Environmental Protection Agency (EPA) Region 4, Atlanta Federal Building, 61 Forsyth Street S.W., Atlanta, Georgia 30303; Phone (404) 562-8604, email: gross.brian@epamail.epa.gov
- George Houston II, P.G., Brownfields Coordinator, FDEP, Central District, 3319 Maguire Boulevard, Suite 232, Orlando, Florida 32803; Phone (407) 893-3331; fax (407)893-3599; email: George.houston@dep.state.fl.us
- Dan Dashtaki, Brownfields Coordinator, 5100 L.B. McLeod Road, Orlando, FL 32811; Phone (407) 246-2664; fax (407) 24-2886; email: dan.dashtaki@cityoforlando.net

ECT Distribution List

- Jeffrey Peters, P.G., Project Manager/Director, ECT, 3660 Maguire Boulevard, Suite 107, Orlando, Florida 32803; Phone (407) 903-0005, email: jpeters@ectinc.com
- Dave Kraus, P.G., Quality Assurance/Quality Control (QA/QC) Officer, ECT, 3660 Maguire Boulevard, Suite 107, Orlando, Florida 32803; Phone (407) 903-0005, email: dkraus@ectinc.com
- Adam Earl, Field Team Technician, ECT, 3660 Maguire Boulevard, Suite 107, Orlando, Florida 32803; Phone (407) 903-0005. aearl@ectinc.com

A4. PROJECT/TASK ORGANIZATION

The project/task organization for this project follows the description provided in the Generic QAPP. The **Quality Assurance Project Organization Chart** included **Attachment A** shows the project organization structure for this Phase II ESA.

A5. PROBLEM DEFINITION/BACKGROUND

The City of Orlando is the current property owner of the Site located at 654 West Robinson Street, Orlando, FL (**Figures 1-3**). The purpose of this Phase II ESA is to address the following issues and/or questions:

- To determine if the historical uses of the adjoining property to the east, consisting of paint and varnish manufacturing, had any impacts on the soil quality at the Site. Soil samples obtained from multiple depth intervals will determine the presence and magnitude of soil contaminants, associated with pigments of paint, compared to Florida Soil Cleanup Target Levels (SCTLs).
- If present, are the levels of the contaminants associated with pigments of paint above SCTLs that may require further assessment or remediation at the site?

ECT completed a Phase I ESA in June 2014. The Phase I ESA was conducted as a part of the Brownfields Assessment Grant, Cooperative Agreement BF-95498212 and in general conformance with the scope and limitations of ASTM E1527-013 and AAI for Phase I ESAs. The Site is approximately 0.15 acres in total area and consists of a community garden.

Current Conceptual Site Model

The United States Geological Survey (USGS) 7.5-Minute Series of the Orlando West, Florida quadrangle map dated 1997 indicates the Site has an approximate elevation of 109 feet above mean sea level (ft-msl). The surrounding properties are typically at the same elevation or lower than the Site.

According to the United States Department of Agriculture (USDA), Natural Resources Conservation Service (NRCS) Soil Survey of Orange County, Florida (1989), the majority of the subject property is underlain by Millhopper fine sands. Below is a brief description of this soil type:

Millhopper fine sand: This soil type is nearly level to gently sloping and moderately well drained and is found on low ridges and knolls on the uplands and on the flatwoods. The slopes are nearly smooth to slightly convex. A seasonal high water table in Tavares soil is at a depth of 40 to 72 inches for more than 6 months, and it recedes to a depth of more than 80 inches during extended dry periods. A seasonal high water table in Millhopper soil is at a depth of 40 to 60 inches for 1 to 4 months, and it recedes to a depth of 60 to 72 inches for 2 to 4 months. During periods of high rainfall, the water table is at a depth of 30 to 40 inches for cumulative periods of 1 to 3 weeks. The permeability of Tavares soil is very rapid. The permeability of Millhopper soil is rapid in the surface and subsurface layers and moderately

rapid of moderate in the subsoil. The available water capacity of Tavares soil is very low. The available water capacity of Millhopper soil is low in the surface and subsurface layers and medium in the subsoil. Natural fertility is very low in Tavares soil and low in Millhopper soil. Organic matter content is very low in Tavares soil and low or moderately low in Millhopper soil. In most areas, the soils in this map unit are used for citrus crops and/or for homesite development.

ECT personnel also reviewed the soil survey of Orange County, dated 1957 (issued 1960). According to the Soil Survey, Orange County is underlain by marine deposited beds of sand, silt, clay, limestone, dolomite, and shale to about 6,500 feet below land surface (bls). The uppermost unit is Pleistocene to Recent in age and generally composed of unconsolidated, very fine to medium-grained quartz sand with some clays. The Pleistocene and Recent age sediments are underlain by the Hawthorn Group of Miocene age (about 25 million years old). In general, the Hawthorn Group is highly variable and diverse, including inter-bedded and inter-fingered sand, clayey sand, sandy-clayey phosphatic sediments, dolomite, and limestone. The Miocene age sediments are underlain by a thick sequence of late Eocene age limestone formations known as the Ocala Group. It is described as gray clay and gravel to white, soft limestone. The Ocala Group Limestone is underlain by the Avon Park Limestone, which is also of Eocene age. This formation is composed of similar materials, but distinguished from overlying units by the occurrence of sand-sized, cone-shaped foraminifera. The formation is usually tan in color, but can range from chalky white to light brown or ashen gray. The Lake City Limestone of middle Eocene age underlies the Avon Park Limestone. It is similar in lithology and water-bearing properties to the Avon Park Limestone and makes up the bottom portion of the Floridan aquifer.

According to the Soil Survey, ground water occurs in both artesian and non-artesian conditions in the Orange County. The non-artesian aquifer is composed mainly of sand and shell with varying amounts of clay and provides limited amounts of water. Water from this aquifer is used mainly for livestock and limited domestic use. Water quality in this aquifer varies depending on the chemical composition of the aquifer and the content of the calcium carbonate in the area. The secondary artesian aquifer and the Floridan Aquifer are the two types of artesian aquifers in Orange County. The secondary artesian aquifer generally yields less water than the Floridan Aquifer, but yields more than the non-artesian aquifers. The secondary artesian aquifers contain undifferentiated sediments and are more extensive in the Hawthorn Group. The quality of the secondary artesian aquifer varies with depth, location, and local geologic and hydrologic conditions.

The Floridan Aquifer underlies all of Florida. In Orange County, the Floridan Aquifer includes the Lake City Limestone, the Avon Park Limestone, the Ocala Group, and parts of the Hawthorn Group. The aquifer consists of alternating layers of limestone and dolomite or dolomitic limestone. This aquifer is one of the most productive in the world. Ground water recharge in Orange County of the Floridan Aquifer comes from annual rainfall. Water also enters the Floridan Aquifer by underground flow from outside the region. Discharge of ground water from the Floridan Aquifer occurs by spring outflow, seepage into the St. Johns River system, by outflows to other areas, and by localized pumping in the area.

A6. PROJECT/TASK DESCRIPTION AND SCHEDULE

The objectives of this Phase II ESA will be to evaluate whether or not petroleum-based or hazardous substances associated with pigments or paint exist in the subsurface, and if contaminants of concern present within the soils may warrant further assessment and/or remediation. A site map depicting the locations of the proposed soil borings is presented as **Figure 4**.

The tasks to be completed that comprise this Phase II ESA include:

Site-Specific Quality Assurance Project Plan

Prior to implementing the scope of work outlined below, this SSQAPP was prepared and submitted to the City of Orlando and to EPA for approval. This plan was prepared in general accordance with the Brownfield grant requirements.

Site-Specific Health and Safety Plan

ECT will prepare and complete a Site-Specific Health & Safety Plan in accordance with 29 CFR 1910.120 and EPA requirements which shall be submitted to the City of Orlando and EPA for review and approval.

Soil Investigation – On-Site

ECT proposes to complete 2 soil borings (SBs) to better address the potential concern of the former BURKES PAINT MANUFACTURING and MORRIS PAINT AND VARNISH CO. has to the Parramore Community Garden. The 2 SBs will be completed to a depth of five feet below land surface (5 ft bls). One soil sample will be obtained from a depth of 0.5-1 ft bls, 1-3 ft bls, and 3-5 ft bls and analyzed according to EPA Method 6010C for the following metals commonly associated with paint pigments: Antimony, Arsenic, Cadmium, Chromium, Cobalt, Copper, Lead, Lithium, Manganese, Nickel, and Tungsten. The soil samples will be field screened with an Organic Vapor Analyzer (OVA) and if OVA responses > 10 ppm are recorded, a soil sample will be collected for laboratory analysis using EPA Method 8260 for Volatile Aromatic Hydrocarbons (VOAs). Upon completion of the soil borings, the extracted soil will be placed back into the borehole and surface finished to match original conditions.

Laboratory Analyses

Soil samples will be delivered under a chain of custody on wetted ice to Accutest Laboratories for the analyses outlined in Section B.2.

Phase II ESA Report

Based on the information obtained from the tasks above, a report will be prepared that presents the Phase II ESA findings with figures, tables, and appendices, as appropriate. Recommendations for further assessment or corrective actions, if applicable, will be included in the report.

Schedule

Once the SSQAPP is complete and approved by the City of Orlando, the SSQAPP will be sent to the EPA for review. It is anticipated that review of the SSQAPP will take approximately 1-3 weeks.

Field work will be scheduled to begin within one week of approval from the EPA of the SSQAPP. Field activities are expected to take 1 day. It is anticipated that the laboratory analyses report will be received within 10 business days after the completion of the soil sampling event. A final report can be delivered within 30 calendar days of receipt of laboratory analytical data.

The objectives of the Brownfields Phase II ESA for the Parramore Community Garden will be to evaluate whether petroleum-based or hazardous substances are present in the subsurface. FDEP Chapter 62-780, F.A.C will provide guidance to whether further assessment is warranted based upon applicable criteria. The scope of work has been designed to assess the presence or absence of petroleum-based or hazardous substances and/or contaminants of concern associated with pigments or paint resulting from historical use of the property adjoining the Site to the east; not to delineate impacts or to design a remediation strategy.

A7. SPECIAL TRAINING REQUIREMENTS/CERTIFICATION

General procedures and requirements for special training requirements/certification are provided in the Generic QAPP.

A8. DOCUMENTS AND RECORDS

General procedures and requirements for documents and records are provided in the Generic QAPP.

B1. PROJECT/TASK ORGANIZATION

The site specific Project/Task Organization chart is included as **Attachment A**.

B2. SAMPLING DESIGN PROCESS

General procedures and requirements regarding the sampling design process are provided in the Generic QAPP. FDEP SOP-001/01 provides procedures for routine field sampling and measurement; the procedures presented in FDEP SOP-001/01 will be followed during field sampling events as applicable.

FDEP soil boring logs will be used to record soil boring data. In general, the following minimum information shall be recorded at each soil boring location as seen in the example table below:

Boring ID	Station No.	GPS Coordinates	Date / Time	Sample Depth	OVA Non-Filtered	OVA Filtered	Net OVA	Lithology
				Ft (bls)	ppm	ppm	ppm	

A summary table for soil sampling containers, methods of analysis, number of containers for each analytical analysis and QA sampling requirements is provided below:

Matrix	Parameter	Number of Samples	Method	Container	Preservative	Hold Time	Container
Soil	Metals	6	EPA 6010C	Glass	Ice	180 days	1 – 8 oz. glass jar
Soil	VOAs	3	EPA 8260 BTEX/MTBE	Glass	2-HNO/1-MeOH	48 hours	3-40 ml glass vials

Note: Additional samples may be warranted based on field conditions at the time of sampling.

Equipment Needs

The following is a list of equipment anticipated for use during the implementation of this Phase II ESA:

Soil Sampling

Stainless Steel Auger	Stainless Steel Sample Spoon
Auger Extensions (36")	Stainless Steel Sample Tray
Organic Vapor Analyzer	Stainless Steel Spray Canisters
OVA Calibration Kit	Plastic Spray Canister
Mason Jars	Decontamination Buckets
Global Positioning Satellite System	Stainless Steel Spoons and Buckets

Consumable Equipment

Nitrile Gloves	Non-phosphate detergent
Paper Towels	Trash Bags
Aluminum Foil	Ice
En Core [®] Samplers	Tubing

Other information for the Sampling Design Process is provided in the Generic QAPP.

B3. SAMPLE HANDLING AND CUSTODY REQUIREMENTS

General procedures and requirements for sample handling and custody requirements are provided in the Generic QAPP.

B4. ANALYTICAL METHODS AND REQUIREMENTS

General procedures for analytical methods and requirements are provided in the Generic QAPP. A listing of the site specific analytical methodologies and required instrumentation is as follows:

- RCRA Metals (antimony, arsenic, cadmium, chromium, cobalt, copper, lead, lithium, manganese, nickel, and tungsten): U.S. EPA Method 6010
- Volatile Aromatic Hydrocarbons (Table A): U.S. EPA Method 8260 (contingent upon soil screening results recorded during the soil sampling field event.)

It is anticipated that laboratory analytical reports will be delivered within 10 business days after field activities are complete.

B5. FIELD QUALITY CONTROL REQUIREMENTS

General procedures for Field Quality Control Requirements are provided in the Generic QAPP. Field personnel shall take special care when handling soils; soil screening and sampling shall be conducted in general accordance with FDEP SOPs.

The site specific numbers of duplicate and blank samples to be collected for soil analyses are as follows:

- One split sample shall be collected for every 20 soil samples (5%) for each of the analyses listed above in **Section B4** and submitted to the laboratory for analyses.
- Equipment Rinse Blanks will be collected whenever field decontamination of equipment to be re-used in sampling activities is performed. At least one Equipment Rinse Blank shall be collected for each of the soil sample analyses listed above in **Section B4**.
- One Temperature Blank shall accompany each shipping container (cooler) per trip. Waste samples do not require a temperature blank since they do not require ice for preservation.
- One Matrix Spike / Matrix Spike Duplicate (MS/MDS) shall be collected for every 20 soil samples (5%) for each of the analyses listed above in **Section B4** and submitted to the laboratory for analyses. Soil samples collected for inorganic analyses normally have sufficient sample volume to perform matrix spike analyses without collection extra volume.

B6. LABORATORY QUALITY CONTROL REQUIREMENTS

General procedures for laboratory quality control requirements are provided in the Generic QAPP. Additional requirements regarding laboratory quality control requirements are specifically addressed in Accutest's QA Manual provided in Attachment D of the Generic QAPP.

B7. FIELD EQUIPMENT AND CORRECTIVE ACTION

General requirements on field equipment and corrective action are provided in the Generic QAPP.

Soil screening for this Phase II ESA will be conducted using an OVA. The OVA will be calibrated per manufacturer's instructions and FDEP SOP guidance.

B8. LAB EQUIPMENT AND CORRECTIVE ACTION

General procedures for laboratory equipment and corrective action are provided in the Generic QAPP. Additional requirements regarding laboratory equipment and corrective action are specifically addressed in Accutest's QA Manual provided in Attachment D of the Generic QAPP.

B9. ANALYTICAL SENSITIVITY AND PROJECT CRITERIA

Details regarding Analytical Sensitivity and Project Criteria are provided in the Generic QAPP. The site specific information is addressed by the Accutest's QA Manual in Attachment D of the Generic QAPP. In addition, project criteria are based on Chapter 62-777, F.A.C.

B10. DATA MANAGEMENT AND DOCUMENTS

General requirements for data management and documents are provided in the Generic QAPP.

It is anticipated that laboratory analytical reports for this Phase II ESA will be received within 10 working days following field activities as discussed in Section A6., above. Final reports shall be issued within 30 calendar days after receipt of the above specified analytical reports and data.

C1. ASSESSMENT AND RESPONSE ACTIONS

General requirements for assessment and response actions are provided in the Generic QAPP.

C2. PROJECT REPORTS

General requirements for project reports are provided in the Generic QAPP.

It is anticipated that laboratory analytical reports for this Phase II ESA will be received within 10 working days following field activities as discussed in Section A6., above. Final reports shall be issued with 30 calendar days after receipt of the above specified analytical reports and data.

D1. FIELD DATA EVALUATION

General requirements for field data evaluation are provided in the Generic QAPP.

D2. LABORATORY DATA EVALUATION

General requirements for laboratory data evaluation are provided in the Generic QAPP. Additional requirements regarding laboratory data evaluation are specifically addressed in Accutest's QA Manual provided in Attachment D of the Generic QAPP.

D3. DATA USABILITY AND PROJECT VERIFICATION

General requirements for data usability and project verification are provided in the Generic QAPP. Additional requirements regarding laboratory data evaluation are specifically addressed in Accutest's QA Manual provided in Attachment D of the Generic QAPP.

REFERENCES

- American Society for Testing and Materials. ASTM E1527 – 13. Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process.
- American Society for Testing and Materials. ASTM E1903 – 11. Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process.
- Chapter 62-160 Florida Administrative Code, Quality Assurance.
- Chapter 62-780 Florida Administrative Code, Contaminated Site Cleanup Criteria.
- Department of Environmental Protection Standard Operating Procedures for Field activities DEP-SOP-001/01 December 3, 2008 (DEP Field SOPs).
- Department of Environmental Protection Standard Operating Procedures for Laboratory Activities DEP-SOP-002/01 February 1, 2004 (DEP Lab SOPs).
- U.S. Code of Federal Regulations CFR Title 40 – Protection of Environment.
- U.S. Environmental Protection Agency, Region 4, Generic QAPP Appendix A Checklist.
- U.S. Environmental Protection Agency. Quality Assurance Guidance for Conducting Brownfields Site Assessments. EPA 540-R-98-038. September 1998.
- U.S. Environmental Protection Agency. EPA Guidance for Quality Assurance Project Plans. EPA QA/G-5. EPA 2401R-02/009. December 2002.
- U.S. Environmental Protection Agency. EPA Requirements for Quality Assurance Project Plans. EPA QA/R-5. EPA 240-B-01-003. March 2001 (Reissued May 2006).
- U.S. Environmental Protection Agency. Data Quality Assessment: Statistical Tools for Practitioners. EPA QA/G-9S. EPA 240-B-06-003. February 2006.
- U.S. Environmental Protection Agency. EPA Guidance on Systematic Planning Using the Data Quality Objectives Process. EPA QA/G-4. EPA 240/B-06/00 I. February 2006.
- U.S. Environmental Protection Agency, Region 4, SESD, Field Branches Quality System and Technical Procedures, February 2008.
- U.S. Environmental Protection Agency, Region 4, SESD, Operating Procedure, Field Sampling Quality Control, SESDPROC-011-R4, February 2013.

- U.S. Environmental Protection Agency, Region 4, SESD, Operating Procedure, Field Equipment Cleaning and Decontamination, SESDPROC-205-R2, December 2011.
- U.S. Environmental Protection Agency, Region 4, SESD, Soil Sampling, SESDPROC-300-R2, December 2011.
- U.S. Environmental Protection Agency, Region 4, SESD, Waste Sampling, SESDPROC-302-R2, January 2013.
- U.S. Environmental Protection Agency, Region 4, SESD, Operating Procedure, Packing, Marking, Labeling and Shipping of Environmental and waste Samples, SESDPROC-209-R2, April 2011.

LIST OF ABBREVIATIONS

AAI	All Appropriate Inquiry
ASTM	American Society for Testing and Materials
ATI	Ambient Technologies, Inc.
bls	Below Land Surface
ECT	Environmental Consulting & Technology, Inc.
ESA	Environmental Site Assessment
EUL	Electronic Utility Locating
FL	Florida
GPR	Ground Penetrating Radar
GPS	Global Positioning Satellite
OVA	Organic Vapor Analyzer
P.E.	Professional Engineer
P.G.	Professional Geologist
QA	Quality Assurance
QAPP	Quality Assurance Project Plan
QC	Quality Control
REC	Recognized Environmental Condition
RQAO	Regional Quality Assurance Designated Approving Official
ROW	Right-Of-Way
SOP	Standard Operating Procedure
SPT	Standard Penetrating Test
SSQAPP	Site Specific Quality Assurance Project Plan
TDEM	Time Delayed Electromagnetic
USC	Unified Soil Classification
U.S. EPA	United States Environmental Protection Agency
USGS	United States Geological Survey

Figures

- Figure 1: Location Map**
- Figure 2: USGS Topographic Map**
- Figure 3: 2012 Aerial Photograph**
- Figure 4: Proposed Boring Locations**

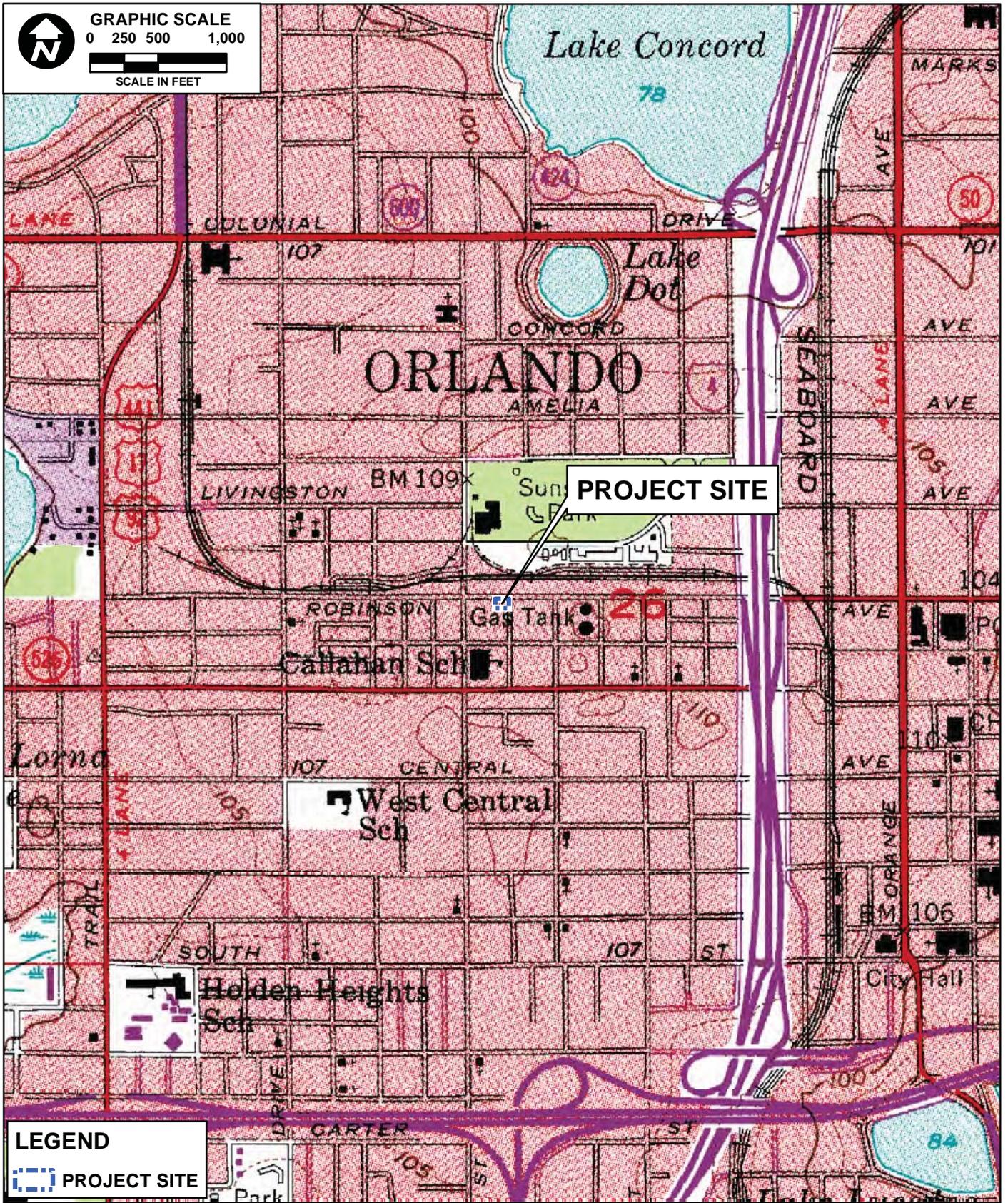
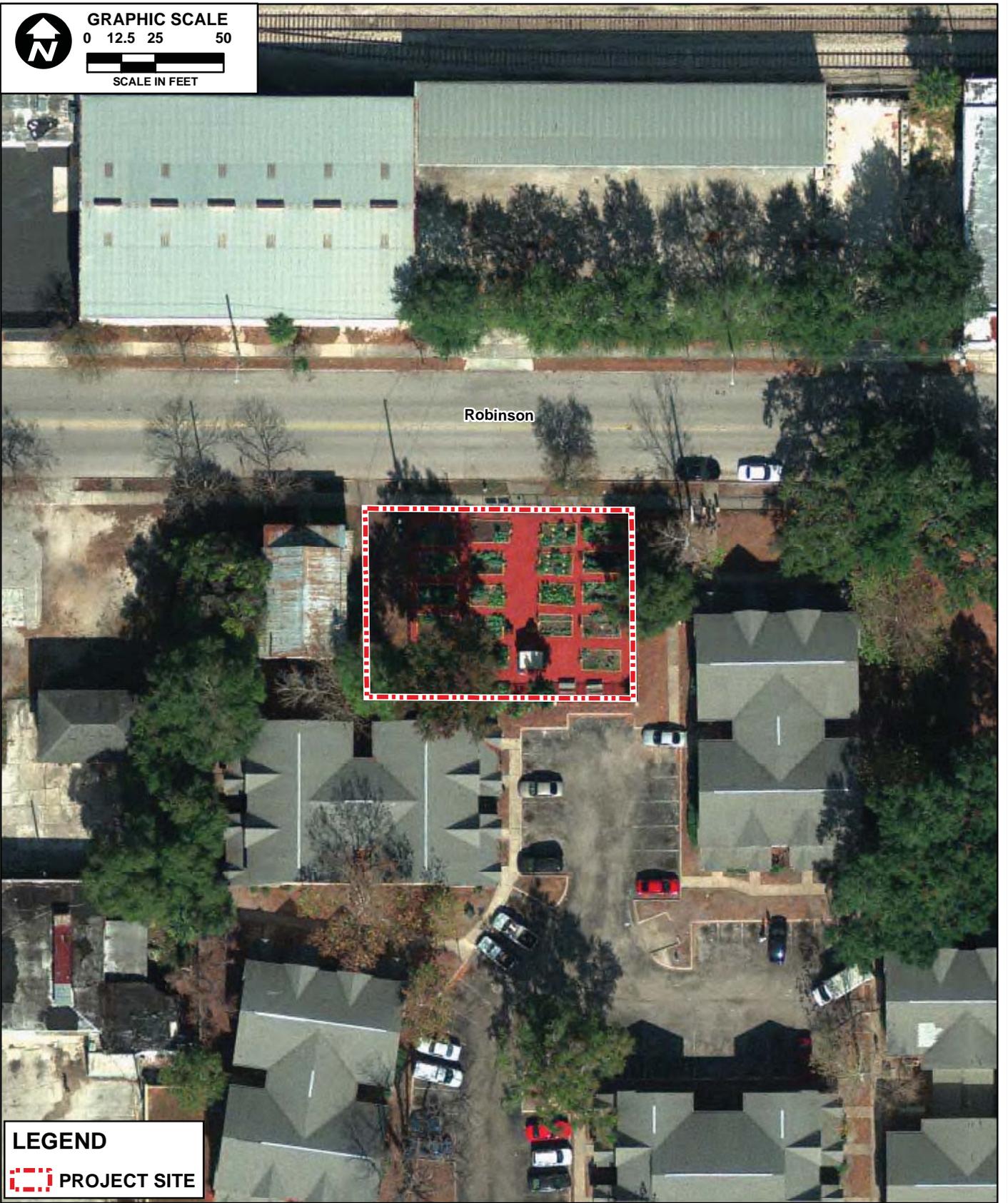


FIGURE 2.
USGS TOPOGRAPHIC MAP
654 W ROBINSON STREET
ORLANDO, ORANGE COUNTY, FLORIDA
SECTION 26, TOWNSHIP 22S, RANGE 29E
Background Source: LABINS, USGS QUAD ORLANDO EAST, 3712 Scanned 1998; ECT, 2014.





LEGEND
[Red dashed box symbol] PROJECT SITE

FIGURE 2.
2012 AERIAL PHOTOGRAPH
654 W ROBINSON STREET
ORLANDO, ORANGE COUNTY, FLORIDA
SECTION 26, TOWNSHIP 22S, RANGE 29E
Background Source: FDOT, 2012; ECT, 2014.





GRAPHIC SCALE

0 12.5 25 50



SCALE IN FEET



LEGEND

 PROJECT SITE

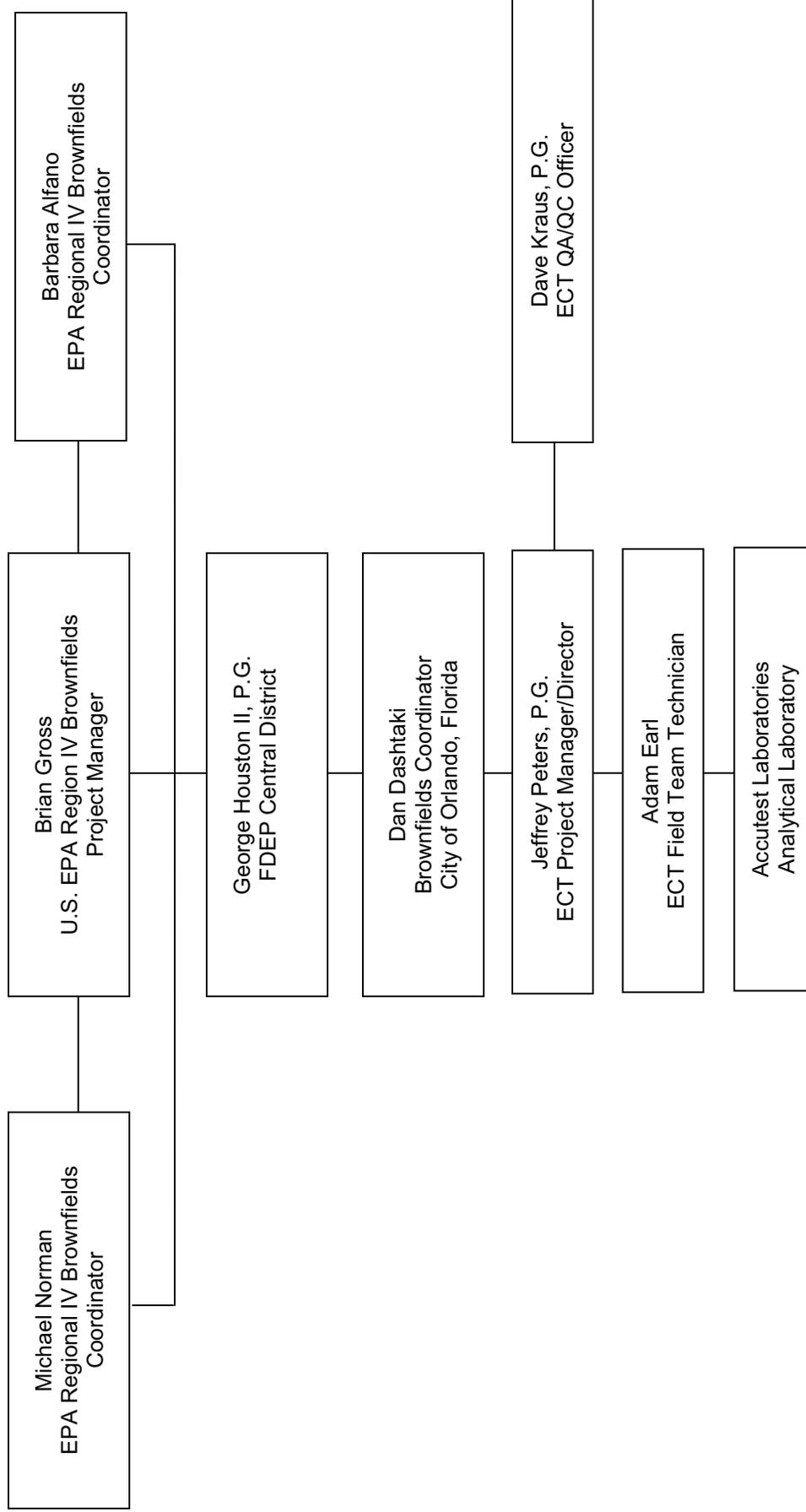
FIGURE 2.
2012 AERIAL PHOTOGRAPH
654 W ROBINSON STREET
ORLANDO, ORANGE COUNTY, FLORIDA
SECTION 26, TOWNSHIP 22S, RANGE 29E
Background Source: FDOT, 2012; ECT, 2014.

*** proposed soil sampling locations**



Attachment A
Quality Assurance Project Organization Chart

City of Orlando, Florida Quality Assurance Project Organization Chart



APPENDIX C



Parramore Community Gardens

654 West Robinson Street

Orlando, FL 32801

Inquiry Number: 3925518.9

April 29, 2014

The EDR Aerial Photo Decade Package



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

EDR Aerial Photo Decade Package

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Date EDR Searched Historical Sources:

Aerial Photography April 29, 2014

Target Property:

654 West Robinson Street

Orlando, FL 32801

<u><i>Year</i></u>	<u><i>Scale</i></u>	<u><i>Details</i></u>	<u><i>Source</i></u>
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1952	Aerial Photograph. Scale: 1"=500'	Panel #: 28081-E4, Orlando West, FL;/Flight Date: April 15, 1952	EDR
1969	Aerial Photograph. Scale: 1"=500'	Panel #: 28081-E4, Orlando West, FL;/Flight Date: January 01, 1969	EDR
1974	Aerial Photograph. Scale: 1"=500'	Panel #: 28081-E4, Orlando West, FL;/Flight Date: January 01, 1974	EDR
1978	Aerial Photograph. Scale: 1"=500'	Panel #: 28081-E4, Orlando West, FL;/Flight Date: January 01, 1978	EDR
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2006	Aerial Photograph. Scale: 1"=500'	Panel #: 28081-E4, Orlando West, FL;/Flight Year: 2006	EDR
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2010	Aerial Photograph. Scale: 1"=500'	Panel #: 28081-E4, Orlando West, FL;/Flight Year: 2010	EDR



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YEAR: 1952

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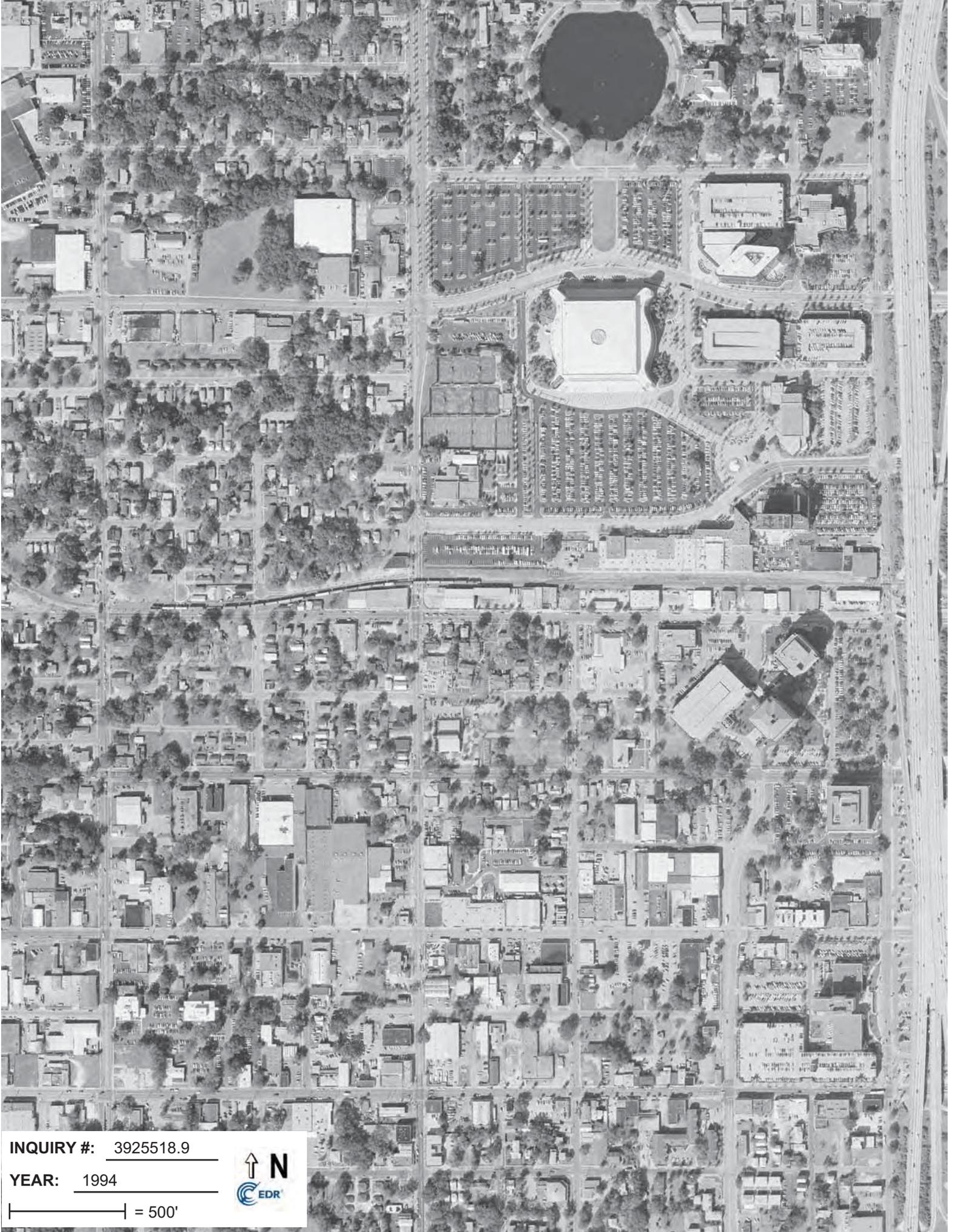


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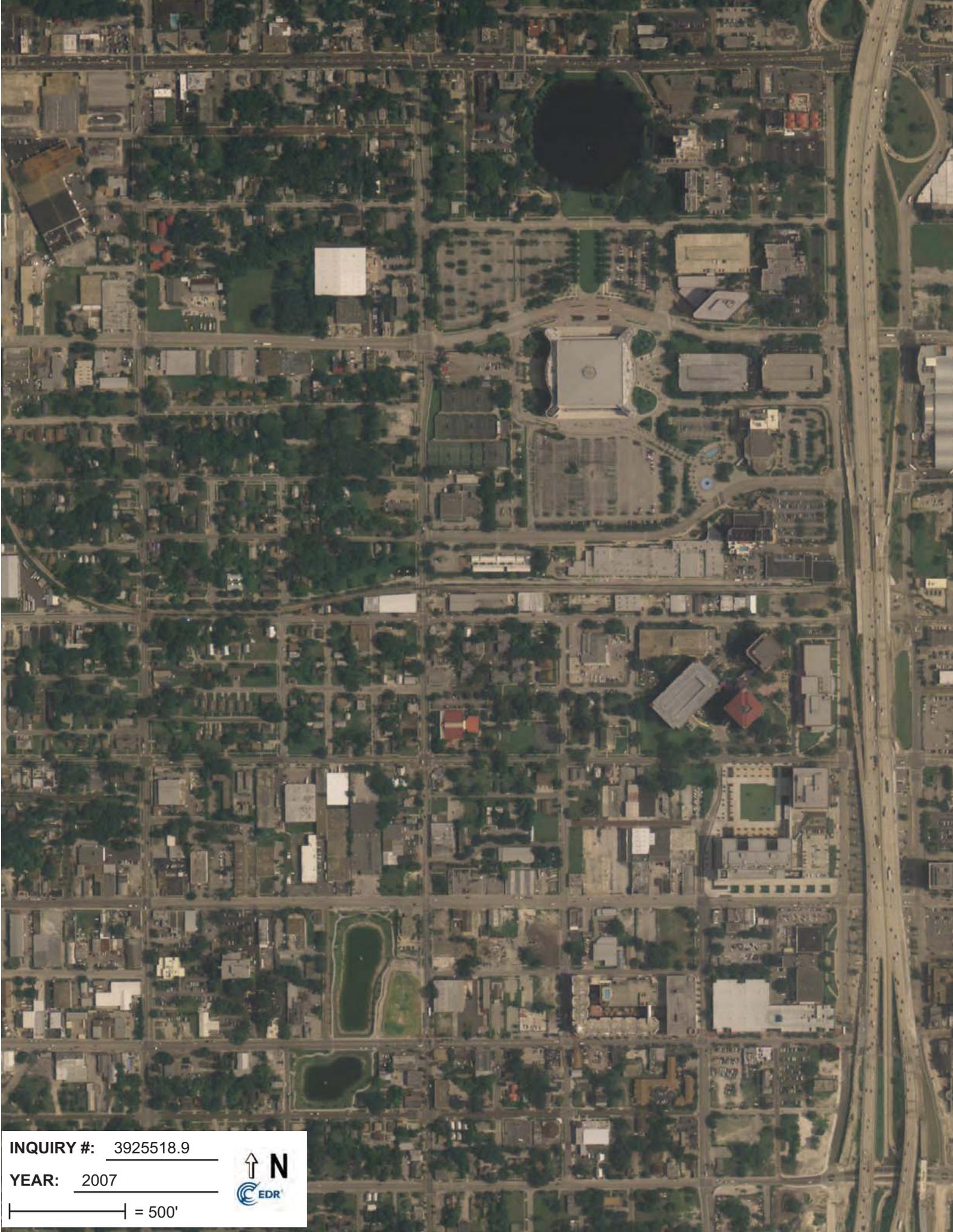


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— = 500'





Parramore Community Gardens

654 West Robinson Street

Orlando, FL 32801

Inquiry Number: 3925518.3

April 29, 2014

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4/29/14

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654 West Robinson Street
Orlando, FL 32801

Client Name:

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Project: Parramore Community Garden
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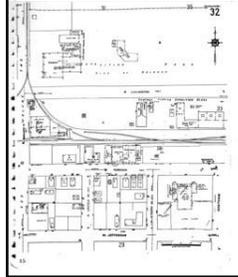
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Volume 1, Sheet 29



Volume 1, Sheet 32

1965 Source Sheets



Volume 1, Sheet 29



Volume 1, Sheet 32



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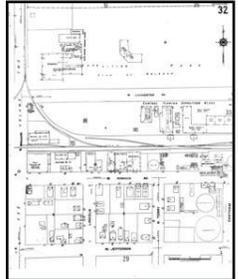
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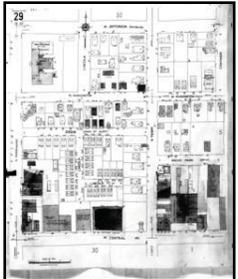


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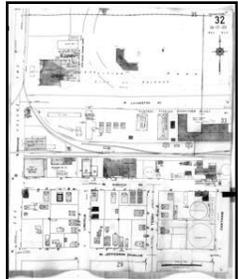
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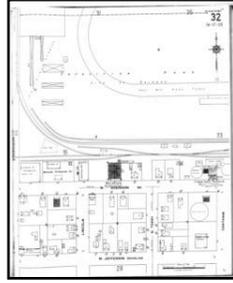
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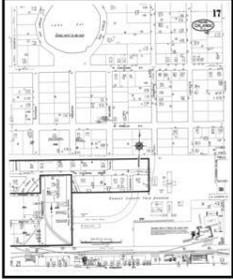


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Volume 1 & 2, Sheet 32

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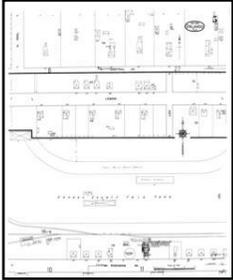


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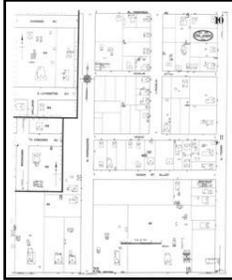


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1913 Source Sheets



Volume 1, Sheet 5



Volume 1, Sheet 10

1908 Source Sheets



Volume 1, Sheet 4

1973 Certified Sanborn Map



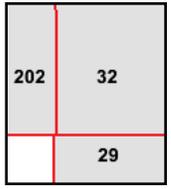
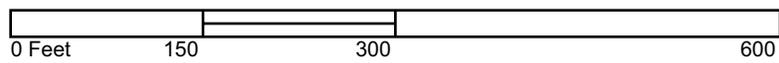
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1956 Certified Sanborn Map



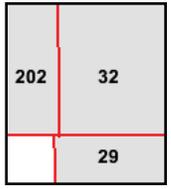
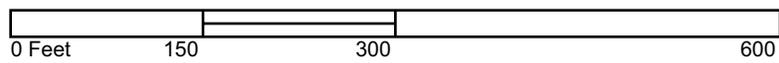
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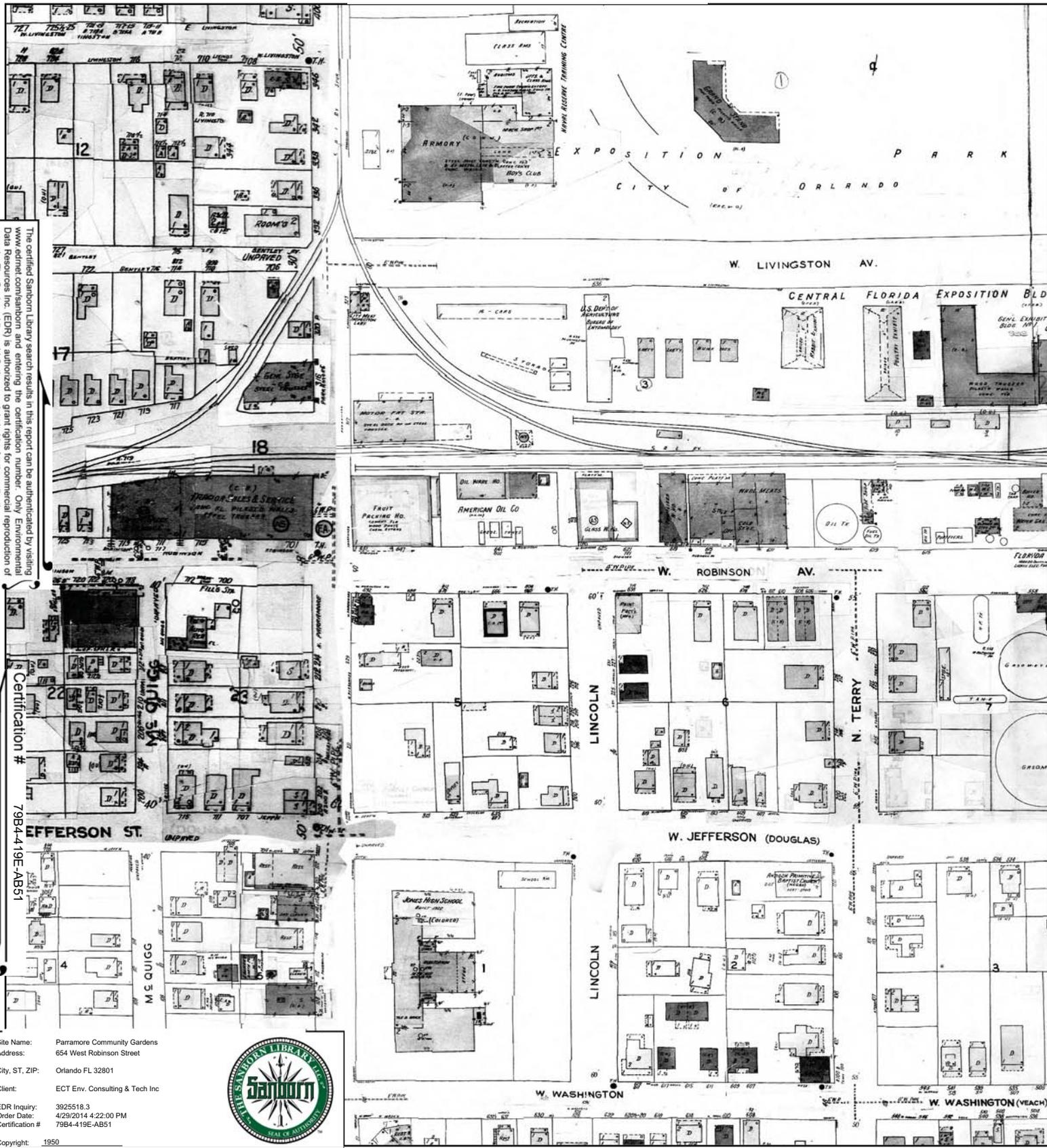
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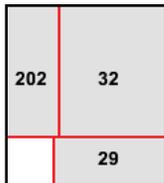
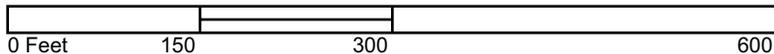
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1950 Certified Sanborn Map



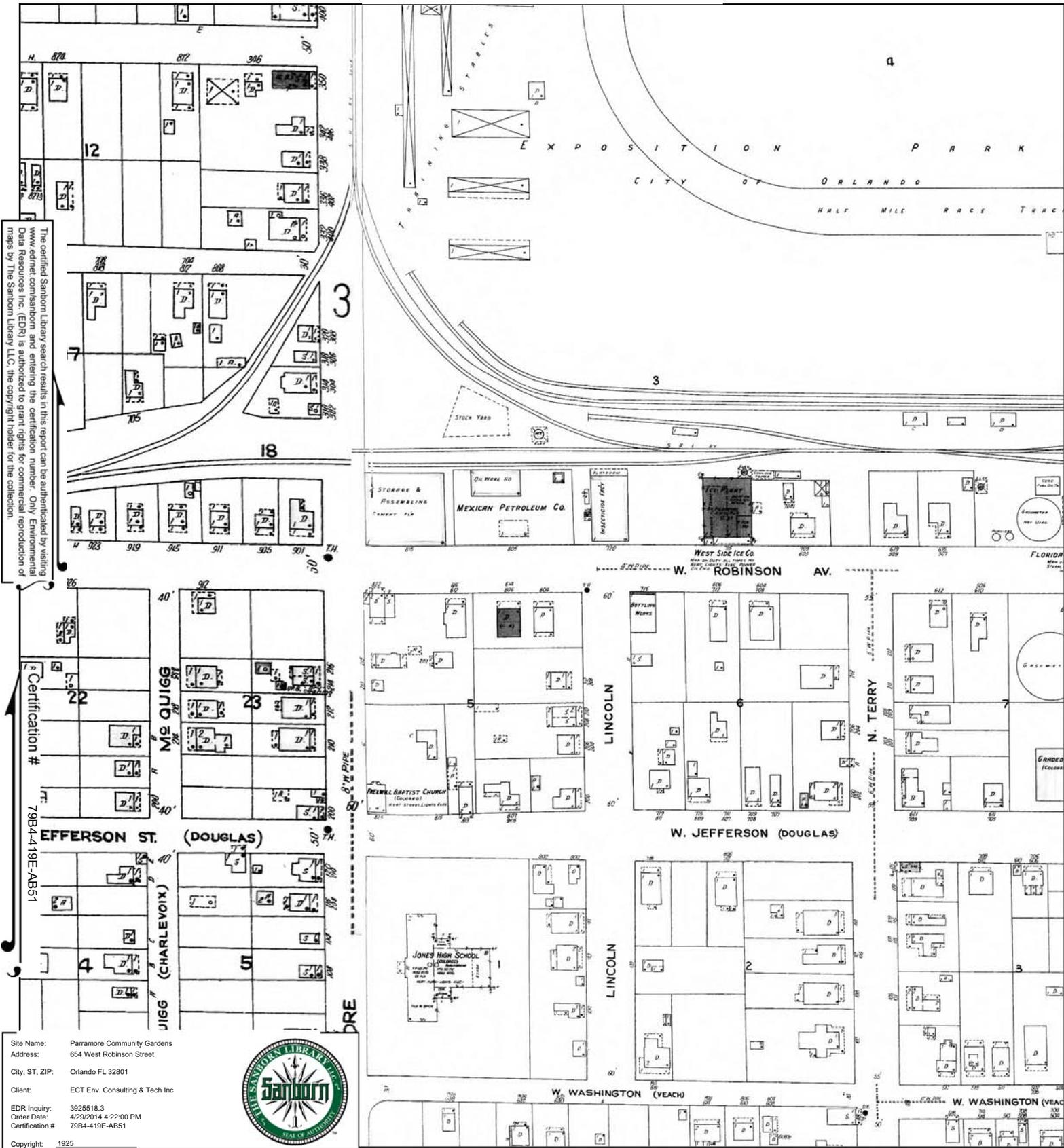
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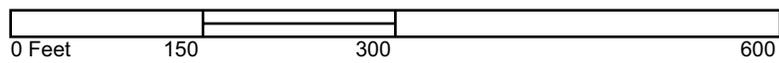
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 Volume 1, Sheet 32



1925 Certified Sanborn Map



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- Volume 1 & 2, Sheet 202
- Volume 1 & 2, Sheet 203
- Volume 1 & 2, Sheet 29
- Volume 1 & 2, Sheet 32



1919 Certified Sanborn Map

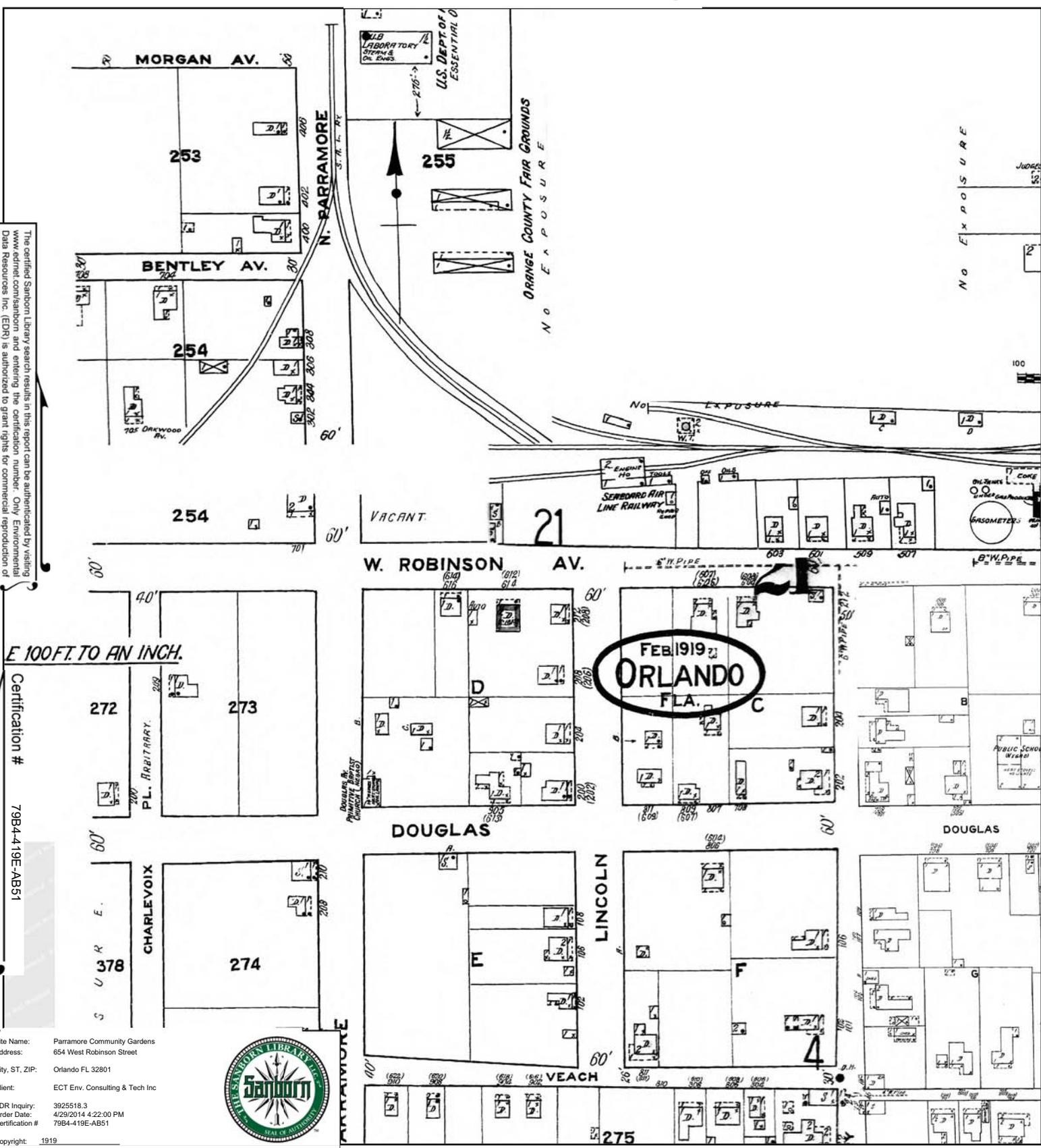
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 Copyright: 1919

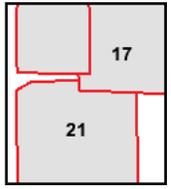
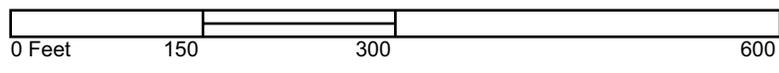


E 100 FT. TO AN INCH.



FEB 1919
ORLANDO
 FLA.

This Certified Sanborn Map combines the following sheets. Outlined areas indicate map sheets within the collection.



Volume 1, Sheet 17
 Volume 1, Sheet 21



1913 Certified Sanborn Map

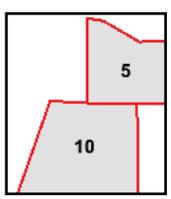
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Certification # 79B4-419E-AB51

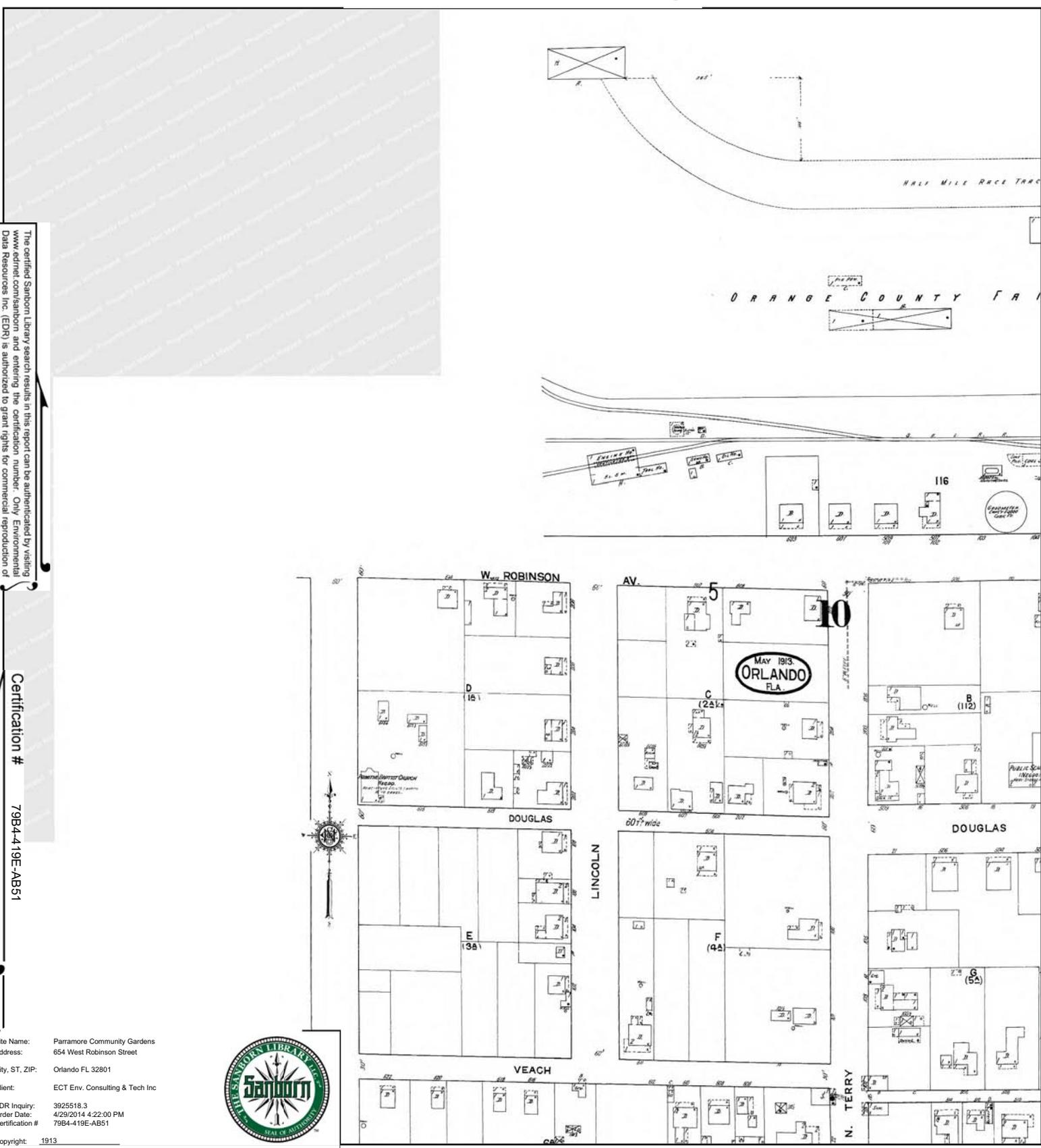
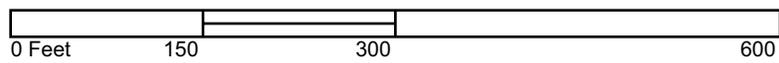
Site Name: Parramore Community Gardens
 Address: 654 West Robinson Street
 City, ST, ZIP: Orlando FL 32801
 Client: ECT Env. Consulting & Tech Inc
 EDR Inquiry: 3925518.3
 Order Date: 4/29/2014 4:22:00 PM
 Certification #: 79B4-419E-AB51
 Copyright: 1913



This Certified Sanborn Map combines the following sheets. Outlined areas indicate map sheets within the collection.



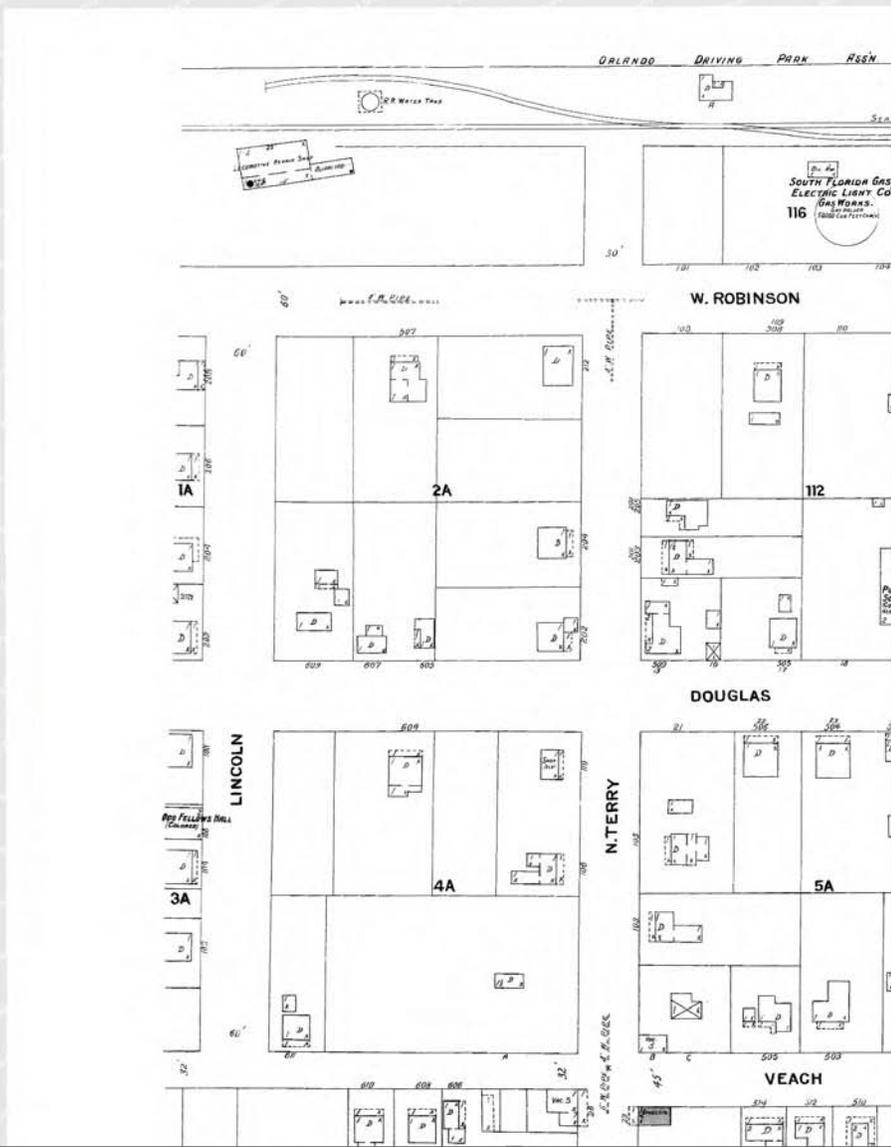
Volume 1, Sheet 5
 Volume 1, Sheet 10



1908 Certified Sanborn Map

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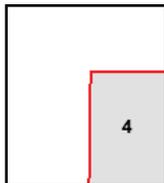
Certification # 79B4-419E-AB51



Site Name: Parramore Community Gardens
 Address: 654 West Robinson Street
 City, ST, ZIP: Orlando FL 32801
 Client: ECT Env. Consulting & Tech Inc
 EDR Inquiry: 3925518.3
 Order Date: 4/29/2014 4:22:00 PM
 Certification #: 79B4-419E-AB51



This Certified Sanborn Map combines the following sheets. Outlined areas indicate map sheets within the collection.



Volume 1, Sheet 4

APPENDIX D

BORING LOG

Boring/Well Number: SB-1		Permit Number: _____		FDEP Facility Identification Number: _____	
Site Name: PARTMANE COMMUNITY		Borehole Start Date: 8/20/14	Borehole Start Time: 0935 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM		
		End Date: 8/20/14	End Time: 0945 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM		
Environmental Contractor: ECT		Geologist's Name: CHRIS DOWNING		Environmental Technician's Name: ADAM EARL	
Drilling Company: _____		Pavement Thickness (inches): _____	Borehole Diameter (inches): 2"		Borehole Depth (feet): 5 FT
Drilling Method(s): HAND AUGER		Apparent Borehole DTW (in feet from soil moisture content): _____	Measured Well DTW (in feet after water recharges in well): _____		OVA (list model and check type): MICROFID <input checked="" type="checkbox"/> FID <input type="checkbox"/> PID
Disposition of Drill Cuttings [check method(s)]: <input type="checkbox"/> Drum <input type="checkbox"/> Spread <input checked="" type="checkbox"/> Backfill <input type="checkbox"/> Stockpile <input type="checkbox"/> Other (describe if other or multiple items are checked):					
Borehole Completion (check one): <input type="checkbox"/> Well <input type="checkbox"/> Grout <input type="checkbox"/> Bentonite <input checked="" type="checkbox"/> Backfill <input type="checkbox"/> Other (describe)					

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA	1	12	-	0	-	0	1	DARK BROWN POORLY GRADED SAND	SP	D	SB1-1-082014
HA	2	24	-	0	-	0	2	TAN POORLY GRADED SAND	SA	D	SB1-3-082014
				0	-	0	3				
HA	2	24	-	0	-	0	4				
				0	-	0	5	↓		M	SB1-5-082014
							6	EOB			
							7				
							8				
							9				
							10				
							11				
							12				

Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cuttings
 Moisture Content Codes: D = Dry; M = Moist; W = Wet; S = Saturated

BORING LOG

Boring/Well Number: SB-2		Permit Number: _____		FDEP Facility Identification Number: _____	
Site Name: PARROTWOOD COMMUNITY GARDEN		Borehole Start Date: 8/20/14	Borehole Start Time: 1015 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM		
		End Date: 8/20/14	End Time: 1023 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM		
Environmental Contractor: ECT		Geologist's Name: CURTIS DEWANN		Environmental Technician's Name: ADAM ETRC	
Drilling Company: _____		Pavement Thickness (inches): _____	Borehole Diameter (inches): 2		Borehole Depth (feet): 5
Drilling Method(s): HAND AUGER	Apparent Borehole DTW (in feet from soil moisture content): _____		Measured Well DTW (in feet after water recharges in well): _____		OVA (list model and check type): MICRO PID <input checked="" type="checkbox"/> FID <input type="checkbox"/> PID
Disposition of Drill Cuttings [check method(s)]: <input type="checkbox"/> Drum <input type="checkbox"/> Spread <input checked="" type="checkbox"/> Backfill <input type="checkbox"/> Stockpile <input type="checkbox"/> Other (describe if other or multiple items are checked):					
Borehole Completion (check one): <input type="checkbox"/> Well <input type="checkbox"/> Grout <input type="checkbox"/> Bentonite <input checked="" type="checkbox"/> Backfill <input type="checkbox"/> Other (describe)					

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA	1	12	—	0	—	0	1	THE POORLY GRAINED SANDS	SP	D	
HA	2	24	—	0	—	0	2				
HA	3			0	—	0	3				
HA	4	24	—	0	—	0	4	THE POORLY GRAINED SANDS	SP	M	
HA	5	24	—	0	—	0	5	CLAYED SANDS, ~30% SAND, MEDIUM PLASTICITY	SC	M	
							6	EOB			
							7				
							8				
							9				
							10				
							11				
							12				

Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cuttings
 Moisture Content Codes: D = Dry; M = Moist; W = Wet; S = Saturated

Parramore Comm Garden

FIELD INSTRUMENT CALIBRATION RECORDS

Instrument (Make/Model #) MicroFID

Instrument # Micco #1

Parameter: *[check all that apply]*

TEMPERATURE CONDUCTIVITY SALINITY Ph ORP
 TURBIDITY RESIDUAL CHLORINE DO OTHER VOCs

STANDARDS VOCs: *[Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased.]*

Standard A 0 ppm
 Standard B 100 ppm Methane
 Standard C 500 ppm Methane

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
14/8/20	930	A	0	0		Y	INIT	ACE
↓	↓	B	100	100		Y	INIT	↓
↓	↓	C	500	498		N	INIT	↓
↓	1050	A	0	0		N	Cont	↓
↓	↓	B	100	99.6		N	Cont	↓



LEGEND
 PROJECT SITE

FIGURE 2.
 2012 AERIAL PHOTOGRAPH
 654 W ROBINSON STREET
 ORLANDO, ORANGE COUNTY, FLORIDA
 SECTION 26, TOWNSHIP 22S, RANGE 29E
 Background Source: FDOT, 2012; ECT, 2014.

* proposed soil sampling locations

GATE CODE
 1744 (ABOVE LINE)



APPENDIX E

Technical Report for

ECT

Parramore Community Garden; FL

Accutest Job Number: FA17558

Sampling Date: 08/20/14

Report to:

ECT
3660 Maguire Blvd Suite 107
Orlando, FL 32803
jpeters@ectinc.com

ATTN: Jeff Peters

Total number of pages in report: **16**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.



Norm Farmer
Technical Director

Client Service contact: **Andrea Colby 407-425-6700**

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001)
DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), PA (68-03573), VA (460177),
AK, AR, GA, KY, MA, NV, OK, UT, WA

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.

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-1-

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Section 3: Sample Results	5
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3.2: FA17558-2: SB1-3-082014	7
3.3: FA17558-3: SB1-5-082014	8
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Sample Summary

ECT

Job No: FA17558

Parramore Community Garden; FL

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
FA17558-1	08/20/14	10:00 CDAE	08/20/14	SO	Soil	SB1-1-082014
FA17558-2	08/20/14	10:08 CDAE	08/20/14	SO	Soil	SB1-3-082014
FA17558-3	08/20/14	10:11 CDAE	08/20/14	SO	Soil	SB1-5-082014
FA17558-4	08/20/14	10:30 CDAE	08/20/14	SO	Soil	SB2-1-082014
FA17558-5	08/20/14	10:35 CDAE	08/20/14	SO	Soil	SB2-3-082014
FA17558-6	08/20/14	10:40 CDAE	08/20/14	SO	Soil	SB2-5-082014

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Summary of Hits

Job Number: FA17558
Account: ECT
Project: Parramore Community Garden; FL
Collected: 08/20/14

Lab Sample ID	Client Sample ID	Result/ Qual	PQL	MDL	Units	Method
FA17558-1	SB1-1-082014					
Lithium ^a		2.4	2.0	0.20	mg/kg	SW846 6010C
FA17558-2	SB1-3-082014					
Lithium ^a		0.64 I	2.1	0.21	mg/kg	SW846 6010C
FA17558-3	SB1-5-082014					
Lithium ^a		0.41 I	2.1	0.21	mg/kg	SW846 6010C
FA17558-4	SB2-1-082014					
Lithium ^a		1.5 I	2.2	0.22	mg/kg	SW846 6010C
FA17558-5	SB2-3-082014					
Lithium ^a		0.77 I	2.3	0.23	mg/kg	SW846 6010C
FA17558-6	SB2-5-082014					
Lithium ^a		0.97 I	2.0	0.20	mg/kg	SW846 6010C

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.



Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: SB1-1-082014	Date Sampled: 08/20/14
Lab Sample ID: FA17558-1	Date Received: 08/20/14
Matrix: SO - Soil	Percent Solids: 75.1
Project: Parramore Community Garden; FL	

Metals Analysis

Analyte	Result	PQL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lithium ^a	2.4	2.0	0.20	mg/kg	1	08/27/14	08/27/14 ANJ	SW846 6010C ¹	SW846 3050B ²
Tungsten ^a	4.5 U	5.0	4.5	mg/kg	1	08/27/14	08/27/14 ANJ	SW846 6010C ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA34786

(2) Prep QC Batch: N:MP81463

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

PQL = Practical Quantitation Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 I = Indicates a result > = MDL but < PQL

Report of Analysis

Client Sample ID: SB1-3-082014	Date Sampled: 08/20/14
Lab Sample ID: FA17558-2	Date Received: 08/20/14
Matrix: SO - Soil	Percent Solids: 96.6
Project: Parramore Community Garden; FL	

Metals Analysis

Analyte	Result	PQL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lithium ^a	0.64 I	2.1	0.21	mg/kg	1	08/27/14	08/27/14 ANJ	SW846 6010C ¹	SW846 3050B ²
Tungsten ^a	4.7 U	5.3	4.7	mg/kg	1	08/27/14	08/27/14 ANJ	SW846 6010C ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA34786

(2) Prep QC Batch: N:MP81463

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

PQL = Practical Quantitation Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL

Report of Analysis



Client Sample ID: SB1-5-082014	Date Sampled: 08/20/14
Lab Sample ID: FA17558-3	Date Received: 08/20/14
Matrix: SO - Soil	Percent Solids: 95.7
Project: Parramore Community Garden; FL	

Metals Analysis

Analyte	Result	PQL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lithium ^a	0.41 I	2.1	0.21	mg/kg	1	08/27/14	08/27/14 ANJ	SW846 6010C ¹	SW846 3050B ²
Tungsten ^a	4.7 U	5.3	4.7	mg/kg	1	08/27/14	08/27/14 ANJ	SW846 6010C ¹	SW846 3050B ²

- (1) Instrument QC Batch: N:MA34786
- (2) Prep QC Batch: N:MP81463

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

PQL = Practical Quantitation Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 I = Indicates a result > = MDL but < PQL

Report of Analysis

Client Sample ID: SB2-1-082014	Date Sampled: 08/20/14
Lab Sample ID: FA17558-4	Date Received: 08/20/14
Matrix: SO - Soil	Percent Solids: 94.1
Project: Parramore Community Garden; FL	

Metals Analysis

Analyte	Result	PQL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lithium ^a	1.5 I	2.2	0.22	mg/kg	1	08/27/14	08/27/14 ANJ	SW846 6010C ¹	SW846 3050B ²
Tungsten ^a	4.9 U	5.5	4.9	mg/kg	1	08/27/14	08/27/14 ANJ	SW846 6010C ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA34786

(2) Prep QC Batch: N:MP81463

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

PQL = Practical Quantitation Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL

Report of Analysis

Client Sample ID: SB2-3-082014	Date Sampled: 08/20/14
Lab Sample ID: FA17558-5	Date Received: 08/20/14
Matrix: SO - Soil	Percent Solids: 90.6
Project: Parramore Community Garden; FL	

Metals Analysis

Analyte	Result	PQL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lithium ^a	0.77 I	2.3	0.23	mg/kg	1	08/27/14	08/27/14 ANJ	SW846 6010C ¹	SW846 3050B ²
Tungsten ^a	5.2 U	5.8	5.2	mg/kg	1	08/27/14	08/27/14 ANJ	SW846 6010C ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA34786

(2) Prep QC Batch: N:MP81463

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

PQL = Practical Quantitation Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL

Report of Analysis

Client Sample ID: SB2-5-082014	Date Sampled: 08/20/14
Lab Sample ID: FA17558-6	Date Received: 08/20/14
Matrix: SO - Soil	Percent Solids: 76.6
Project: Parramore Community Garden; FL	

Metals Analysis

Analyte	Result	PQL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lithium ^a	0.97 I	2.0	0.20	mg/kg	1	08/27/14	08/27/14 ANJ	SW846 6010C ¹	SW846 3050B ²
Tungsten ^a	4.4 U	5.0	4.4	mg/kg	1	08/27/14	08/27/14 ANJ	SW846 6010C ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA34786

(2) Prep QC Batch: N:MP81463

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

PQL = Practical Quantitation Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Chain of Custody (Accutest New Jersey)

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA 17 558 CLIENT: ECT PROJECT: PARA MORE
 DATE/TIME RECEIVED: 8-20-14 12:03 [MM/DD/YY 24:00] NUMBER OF COOLERS RECEIVED: 1
 METHOD OF DELIVERY: FEDEX UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER
 AIRBILL NUMBERS: _____

COOLER INFORMATION

- CUSTODY SEAL NOT PRESENT OR NOT INTACT
- CHAIN OF CUSTODY NOT RECEIVED (COC)
- ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- TEMPERATURE CRITERIA NOT MET

TRIP BLANK INFORMATION

- TRIP BLANK PROVIDED
- TRIP BLANK NOT PROVIDED
- TRIP BLANK NOT ON COC
- TRIP BLANK INTACT
- TRIP BLANK NOT INTACT
- RECEIVED WATER TRIP BLANK
- RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM _____ 5-GRAM _____
 NUMBER OF 5035 FIELD KITS ? _____
 NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

IR THERM ID: 1 CORR. FACTOR 10.4
 OBSERVED TEMPS: 3.2
 CORRECTED TEMPS: 3.6

SAMPLE INFORMATION

- INCORRECT NUMBER OF CONTAINERS USED
- SAMPLE RECEIVED IMPROPERLY PRESERVED
- INSUFFICIENT VOLUME FOR ANALYSIS
- DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- ID'S ON COC DO NOT MATCH LABEL
- VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- SAMPLE CONTAINER(S) RECEIVED BROKEN
- 5035 FIELD KITS NOT RECEIVED WITHIN 48 HOURS
- BULK VOA SOIL JARS NOT RECEIVED WITHIN 48 HOURS
- % SOLIDS JAR NOT RECEIVED
- RESIDUAL CHLORINE PRESENT

[APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS]

SUMMARY OF COMMENTS: _____

TECHNICIAN SIGNATURE/DATE: [Signature] 8-20-14 REVIEWER SIGNATURE/DATE: [Signature] 08-20-14

RS 04/14

receipt confirmation 041514.xls

4.1
4

4405 Vineland Rd, Suite C-15, Orlando, FL 32811
TEL 407-425-6700 FAX 407-425-0707
www.accutest.com

FED-EX Tracking # **6132 2749 6702** Bottle Order Control #
Accutest Quote # _____ Accutest Job # **FA17558**

Client / Reporting Information			Project Information										Requested Analysis (see TEST CODE sheet)										Matrix Codes
Company Name: Accutest Laboratories			Project Name: Parramore Community Garden; FL																				DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank
Street Address: 4405 Vineland Rd, Suite C-15			Street: _____																				
City State Zip: Orlando FL 32811			Billing Information (if different from Report to): City State Company Name																				
Project Contact E-mail: andrea andrea@accutest.com			Project # Street Address																				
Phone # Fax #: 407-425-6700			Client Purchase Order # City State Zip																				
Sampler(s) Name(s) Phone Project Manager Attention:																							
CDAE																							
Accutest Sample #	Field ID / Point of Collection	MEOH/DI Val #	Collection				Number of preserved Bottles										LAB USE ONLY						
			Date	Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NO3E	DI Water	MEDH	ENCORE	% SOL LI W							
1	SB1-1-082014		8/20/14	10:00:00 AM	CDAE	SO	1											X					
2	SB1-3-082014		8/20/14	10:08:00 AM	CDAE	SO	1											X					
3	SB1-5-082014		8/20/14	10:11:00 AM	CDAE	SO	1											X					
4	SB2-1-082014		8/20/14	10:30:00 AM	CDAE	SO	1											X					
5	SB2-3-082014		8/20/14	10:35:00 AM	CDAE	SO	1											X					
6	SB2-5-082014		8/20/14	10:40:00 AM	CDAE	SO	1											X					
Turnaround Time (Business days)			Data Deliverable Information										Comments / Special Instructions										
<input type="checkbox"/> 10 Day (business) <input type="checkbox"/> 5-7 Day <input type="checkbox"/> 3 Day RUSH <input type="checkbox"/> 2 Day RUSH <input type="checkbox"/> 1 Day RUSH <input checked="" type="checkbox"/> other Due 8/27/2014 <small>Rush T/A data available VIA Lablink</small>			Approved By (Accutest PM) / Date: _____ <input type="checkbox"/> Commercial "A" (Level 1, Results Only) <input type="checkbox"/> Commercial "B" (Level 2, Results + QC summary) <input type="checkbox"/> REDT1 (Level 3) <input type="checkbox"/> FULT1 (Level 4) <input type="checkbox"/> DOD FULT1 (Level 4) <input checked="" type="checkbox"/> Other COMMA <input type="checkbox"/> EDD Format										ALNJ 204										
Sample Custody must be documented below each time samples change possession, including courier delivery.																							
Relinquished by Sampler: 1			Date Time: 08/20/14 17:00			Received By: FP			Relinquished By: 2			Date Time: 8/22 10:15			Received By: [Signature]								
Relinquished by Sampler: 3			Date Time:			Received By: 3			Relinquished By: 4			Date Time:			Received By: 4								
Relinquished by: 5			Date Time:			Received By: 5			Custody Seal #			<input type="checkbox"/> Intact <input type="checkbox"/> Not intact			Preserved where applicable <input type="checkbox"/> On Ice <input checked="" type="checkbox"/> Cooler Temp. 21.4								

4.2
4

2BNS



Accutest Laboratories Sample Receipt Summary

Accutest Job Number: FA17558 Client: _____ Project: _____

Date / Time Received: 8/22/2014 Delivery Method: _____ Airbill #s: _____

Cooler Temps (Initial/Adjusted): #1: (2.1/2.1); 0

<u>Cooler Security</u>		<u>Y</u>	<u>or</u>	<u>N</u>			<u>Y</u>	<u>or</u>	<u>N</u>
1. Custody Seals Present:	<input checked="" type="checkbox"/>		<input type="checkbox"/>		3. COC Present:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
2. Custody Seals Intact:	<input checked="" type="checkbox"/>		<input type="checkbox"/>		4. Smpl Dates/Time OK	<input checked="" type="checkbox"/>		<input type="checkbox"/>	

<u>Cooler Temperature</u>		<u>Y</u>	<u>or</u>	<u>N</u>
1. Temp criteria achieved:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
2. Cooler temp verification:	_____			
3. Cooler media:	Ice (Bag)			
4. No. Coolers:	1			

<u>Quality Control Preservatio</u>	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Trip Blank present / cooler:	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Trip Blank listed on COC:	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Samples preserved properly:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
4. VOCs headspace free:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

<u>Sample Integrity - Documentation</u>		<u>Y</u>	<u>or</u>	<u>N</u>
1. Sample labels present on bottles:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
2. Container labeling complete:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
3. Sample container label / COC agree:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	

<u>Sample Integrity - Condition</u>		<u>Y</u>	<u>or</u>	<u>N</u>
1. Sample recvd within HT:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
2. All containers accounted for:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
3. Condition of sample:	Intact			

<u>Sample Integrity - Instructions</u>	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Analysis requested is clear:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
2. Bottles received for unspecified tests	<input type="checkbox"/>		<input checked="" type="checkbox"/>	
3. Sufficient volume recvd for analysis:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
4. Compositing instructions clear:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Filtering instructions clear:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments

4.2
4

Technical Report for

ECT

Parramore Community Garden; FL

Accutest Job Number: FA17559

Sampling Date: 08/20/14

Report to:

ECT
3660 Maguire Blvd Suite 107
Orlando, FL 32803
jpeters@ectinc.com

ATTN: Jeff Peters

Total number of pages in report: **15**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.



Norm Farmer
Technical Director

Client Service contact: Andrea Colby 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001)
DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), PA (68-03573), VA (460177),
AK, AR, GA, KY, MA, NV, OK, UT, WA

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Test results relate only to samples analyzed.

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Sample Summary

ECT

Job No: FA17559

Parramore Community Garden; FL

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
FA17559-1	08/20/14	10:00 CD	08/20/14	SO	Soil	SB1-1-082014
FA17559-2	08/20/14	10:08 CD	08/20/14	SO	Soil	SB1-3-082014
FA17559-3	08/20/14	10:11 CD	08/20/14	SO	Soil	SB1-5-082014
FA17559-4	08/20/14	10:30 CD	08/20/14	SO	Soil	SB2-1-082014
FA17559-5	08/20/14	10:35 CD	08/20/14	SO	Soil	SB2-3-082014
FA17559-6	08/20/14	10:40 CD	08/20/14	SO	Soil	SB2-5-082014

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Summary of Hits

Job Number: FA17559
Account: ECT
Project: Parramore Community Garden; FL
Collected: 08/20/14

Lab Sample ID	Client Sample ID	Result/ Qual	PQL	MDL	Units	Method
FA17559-1	SB1-1-082014					
Antimony		0.22 I	1.0	0.10	mg/kg	SW846 6010C
Arsenic		1.0	0.51	0.10	mg/kg	SW846 6010C
Cadmium		0.16 I	0.20	0.025	mg/kg	SW846 6010C
Chromium		8.4	0.51	0.051	mg/kg	SW846 6010C
Cobalt		0.32 I	2.5	0.025	mg/kg	SW846 6010C
Copper		9.7	1.3	0.051	mg/kg	SW846 6010C
Lead		54.6	1.0	0.081	mg/kg	SW846 6010C
Manganese		15.8	0.76	0.025	mg/kg	SW846 6010C
Nickel		3.9	2.0	0.025	mg/kg	SW846 6010C
FA17559-2	SB1-3-082014					
Antimony		0.10 I	0.99	0.099	mg/kg	SW846 6010C
Arsenic		0.20 I	0.50	0.099	mg/kg	SW846 6010C
Chromium		1.5	0.50	0.050	mg/kg	SW846 6010C
Cobalt		0.050 I	2.5	0.025	mg/kg	SW846 6010C
Copper		0.32 I	1.2	0.050	mg/kg	SW846 6010C
Lead		2.0	0.99	0.079	mg/kg	SW846 6010C
Manganese		1.3	0.74	0.025	mg/kg	SW846 6010C
Nickel		0.91 I	2.0	0.025	mg/kg	SW846 6010C
FA17559-3	SB1-5-082014					
Chromium		0.79	0.41	0.041	mg/kg	SW846 6010C
Cobalt		0.025 I	2.1	0.021	mg/kg	SW846 6010C
Copper		0.12 I	1.0	0.041	mg/kg	SW846 6010C
Lead		0.84	0.83	0.066	mg/kg	SW846 6010C
Manganese		0.75	0.62	0.021	mg/kg	SW846 6010C
Nickel		0.32 I	1.7	0.021	mg/kg	SW846 6010C
FA17559-4	SB2-1-082014					
Arsenic		0.16 I	0.47	0.094	mg/kg	SW846 6010C
Chromium		1.8	0.47	0.047	mg/kg	SW846 6010C
Cobalt		0.028 I	2.3	0.023	mg/kg	SW846 6010C
Copper		0.63 I	1.2	0.047	mg/kg	SW846 6010C
Lead		3.1	0.94	0.075	mg/kg	SW846 6010C
Manganese		1.8	0.70	0.023	mg/kg	SW846 6010C
Nickel		0.76 I	1.9	0.023	mg/kg	SW846 6010C
FA17559-5	SB2-3-082014					
Chromium		0.67	0.36	0.036	mg/kg	SW846 6010C

Summary of Hits

Job Number: FA17559
Account: ECT
Project: Parramore Community Garden; FL
Collected: 08/20/14

Lab Sample ID	Client Sample ID	Result/ Qual	PQL	MDL	Units	Method
Copper		0.10 I	0.90	0.036	mg/kg	SW846 6010C
Lead		0.87	0.72	0.058	mg/kg	SW846 6010C
Manganese		0.61	0.54	0.018	mg/kg	SW846 6010C
Nickel		0.23 I	1.4	0.018	mg/kg	SW846 6010C
FA17559-6	SB2-5-082014					
Arsenic		0.11 I	0.47	0.095	mg/kg	SW846 6010C
Chromium		1.4	0.47	0.047	mg/kg	SW846 6010C
Cobalt		0.033 I	2.4	0.024	mg/kg	SW846 6010C
Copper		0.26 I	1.2	0.047	mg/kg	SW846 6010C
Lead		1.9	0.95	0.076	mg/kg	SW846 6010C
Manganese		0.87	0.71	0.024	mg/kg	SW846 6010C
Nickel		0.56 I	1.9	0.024	mg/kg	SW846 6010C



Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: SB1-1-082014	Date Sampled: 08/20/14
Lab Sample ID: FA17559-1	Date Received: 08/20/14
Matrix: SO - Soil	Percent Solids: 88.2
Project: Parramore Community Garden; FL	

Metals Analysis

Analyte	Result	PQL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	0.22 I	1.0	0.10	mg/kg	1	08/22/14	08/22/14 LM	SW846 6010C ¹	SW846 3050B ²
Arsenic	1.0	0.51	0.10	mg/kg	1	08/22/14	08/22/14 LM	SW846 6010C ¹	SW846 3050B ²
Cadmium	0.16 I	0.20	0.025	mg/kg	1	08/22/14	08/22/14 LM	SW846 6010C ¹	SW846 3050B ²
Chromium	8.4	0.51	0.051	mg/kg	1	08/22/14	08/22/14 LM	SW846 6010C ¹	SW846 3050B ²
Cobalt	0.32 I	2.5	0.025	mg/kg	1	08/22/14	08/22/14 LM	SW846 6010C ¹	SW846 3050B ²
Copper	9.7	1.3	0.051	mg/kg	1	08/22/14	08/22/14 LM	SW846 6010C ¹	SW846 3050B ²
Lead	54.6	1.0	0.081	mg/kg	1	08/22/14	08/22/14 LM	SW846 6010C ¹	SW846 3050B ²
Manganese	15.8	0.76	0.025	mg/kg	1	08/22/14	08/22/14 LM	SW846 6010C ¹	SW846 3050B ²
Nickel	3.9	2.0	0.025	mg/kg	1	08/22/14	08/22/14 LM	SW846 6010C ¹	SW846 3050B ²

(1) Instrument QC Batch: MA11834

(2) Prep QC Batch: MP27745

PQL = Practical Quantitation Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL

Report of Analysis

Client Sample ID: SB1-3-082014	Date Sampled: 08/20/14
Lab Sample ID: FA17559-2	Date Received: 08/20/14
Matrix: SO - Soil	Percent Solids: 94.3
Project: Parramore Community Garden; FL	

Metals Analysis

Analyte	Result	PQL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	0.10 I	0.99	0.099	mg/kg	1	08/22/14	08/22/14 LM	SW846 6010C ¹	SW846 3050B ²
Arsenic	0.20 I	0.50	0.099	mg/kg	1	08/22/14	08/22/14 LM	SW846 6010C ¹	SW846 3050B ²
Cadmium	0.025 U	0.20	0.025	mg/kg	1	08/22/14	08/22/14 LM	SW846 6010C ¹	SW846 3050B ²
Chromium	1.5	0.50	0.050	mg/kg	1	08/22/14	08/22/14 LM	SW846 6010C ¹	SW846 3050B ²
Cobalt	0.050 I	2.5	0.025	mg/kg	1	08/22/14	08/22/14 LM	SW846 6010C ¹	SW846 3050B ²
Copper	0.32 I	1.2	0.050	mg/kg	1	08/22/14	08/22/14 LM	SW846 6010C ¹	SW846 3050B ²
Lead	2.0	0.99	0.079	mg/kg	1	08/22/14	08/22/14 LM	SW846 6010C ¹	SW846 3050B ²
Manganese	1.3	0.74	0.025	mg/kg	1	08/22/14	08/22/14 LM	SW846 6010C ¹	SW846 3050B ²
Nickel	0.91 I	2.0	0.025	mg/kg	1	08/22/14	08/22/14 LM	SW846 6010C ¹	SW846 3050B ²

(1) Instrument QC Batch: MA11834

(2) Prep QC Batch: MP27745

PQL = Practical Quantitation Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL

Report of Analysis

Client Sample ID: SB1-5-082014	Date Sampled: 08/20/14
Lab Sample ID: FA17559-3	Date Received: 08/20/14
Matrix: SO - Soil	Percent Solids: 96.0
Project: Parramore Community Garden; FL	

Metals Analysis

Analyte	Result	PQL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	0.083 U	0.83	0.083	mg/kg	1	08/22/14	08/22/14 LM	SW846 6010C ¹	SW846 3050B ²
Arsenic	0.083 U	0.41	0.083	mg/kg	1	08/22/14	08/22/14 LM	SW846 6010C ¹	SW846 3050B ²
Cadmium	0.021 U	0.17	0.021	mg/kg	1	08/22/14	08/22/14 LM	SW846 6010C ¹	SW846 3050B ²
Chromium	0.79	0.41	0.041	mg/kg	1	08/22/14	08/22/14 LM	SW846 6010C ¹	SW846 3050B ²
Cobalt	0.025 I	2.1	0.021	mg/kg	1	08/22/14	08/22/14 LM	SW846 6010C ¹	SW846 3050B ²
Copper	0.12 I	1.0	0.041	mg/kg	1	08/22/14	08/22/14 LM	SW846 6010C ¹	SW846 3050B ²
Lead	0.84	0.83	0.066	mg/kg	1	08/22/14	08/22/14 LM	SW846 6010C ¹	SW846 3050B ²
Manganese	0.75	0.62	0.021	mg/kg	1	08/22/14	08/22/14 LM	SW846 6010C ¹	SW846 3050B ²
Nickel	0.32 I	1.7	0.021	mg/kg	1	08/22/14	08/22/14 LM	SW846 6010C ¹	SW846 3050B ²

(1) Instrument QC Batch: MA11834

(2) Prep QC Batch: MP27745

PQL = Practical Quantitation Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 I = Indicates a result > = MDL but < PQL

Report of Analysis

Client Sample ID: SB2-1-082014	Date Sampled: 08/20/14
Lab Sample ID: FA17559-4	Date Received: 08/20/14
Matrix: SO - Soil	Percent Solids: 93.5
Project: Parramore Community Garden; FL	

Metals Analysis

Analyte	Result	PQL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	0.094 U	0.94	0.094	mg/kg	1	08/22/14	08/22/14 LM	SW846 6010C ¹	SW846 3050B ²
Arsenic	0.16 I	0.47	0.094	mg/kg	1	08/22/14	08/22/14 LM	SW846 6010C ¹	SW846 3050B ²
Cadmium	0.023 U	0.19	0.023	mg/kg	1	08/22/14	08/22/14 LM	SW846 6010C ¹	SW846 3050B ²
Chromium	1.8	0.47	0.047	mg/kg	1	08/22/14	08/22/14 LM	SW846 6010C ¹	SW846 3050B ²
Cobalt	0.028 I	2.3	0.023	mg/kg	1	08/22/14	08/22/14 LM	SW846 6010C ¹	SW846 3050B ²
Copper	0.63 I	1.2	0.047	mg/kg	1	08/22/14	08/22/14 LM	SW846 6010C ¹	SW846 3050B ²
Lead	3.1	0.94	0.075	mg/kg	1	08/22/14	08/22/14 LM	SW846 6010C ¹	SW846 3050B ²
Manganese	1.8	0.70	0.023	mg/kg	1	08/22/14	08/22/14 LM	SW846 6010C ¹	SW846 3050B ²
Nickel	0.76 I	1.9	0.023	mg/kg	1	08/22/14	08/22/14 LM	SW846 6010C ¹	SW846 3050B ²

(1) Instrument QC Batch: MA11834

(2) Prep QC Batch: MP27745

PQL = Practical Quantitation Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL

Report of Analysis

Client Sample ID: SB2-3-082014	Date Sampled: 08/20/14
Lab Sample ID: FA17559-5	Date Received: 08/20/14
Matrix: SO - Soil	Percent Solids: 94.4
Project: Parramore Community Garden; FL	

Metals Analysis

Analyte	Result	PQL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	0.072 U	0.72	0.072	mg/kg	1	08/22/14	08/22/14 LM	SW846 6010C ¹	SW846 3050B ²
Arsenic	0.072 U	0.36	0.072	mg/kg	1	08/22/14	08/22/14 LM	SW846 6010C ¹	SW846 3050B ²
Cadmium	0.018 U	0.14	0.018	mg/kg	1	08/22/14	08/22/14 LM	SW846 6010C ¹	SW846 3050B ²
Chromium	0.67	0.36	0.036	mg/kg	1	08/22/14	08/22/14 LM	SW846 6010C ¹	SW846 3050B ²
Cobalt	0.018 U	1.8	0.018	mg/kg	1	08/22/14	08/22/14 LM	SW846 6010C ¹	SW846 3050B ²
Copper	0.10 I	0.90	0.036	mg/kg	1	08/22/14	08/22/14 LM	SW846 6010C ¹	SW846 3050B ²
Lead	0.87	0.72	0.058	mg/kg	1	08/22/14	08/22/14 LM	SW846 6010C ¹	SW846 3050B ²
Manganese	0.61	0.54	0.018	mg/kg	1	08/22/14	08/22/14 LM	SW846 6010C ¹	SW846 3050B ²
Nickel	0.23 I	1.4	0.018	mg/kg	1	08/22/14	08/22/14 LM	SW846 6010C ¹	SW846 3050B ²

(1) Instrument QC Batch: MA11834

(2) Prep QC Batch: MP27745

PQL = Practical Quantitation Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL

Report of Analysis

Client Sample ID: SB2-5-082014	Date Sampled: 08/20/14
Lab Sample ID: FA17559-6	Date Received: 08/20/14
Matrix: SO - Soil	Percent Solids: 93.4
Project: Parramore Community Garden; FL	

Metals Analysis

Analyte	Result	PQL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	0.095 U	0.95	0.095	mg/kg	1	08/22/14	08/22/14 LM	SW846 6010C ¹	SW846 3050B ²
Arsenic	0.11 I	0.47	0.095	mg/kg	1	08/22/14	08/22/14 LM	SW846 6010C ¹	SW846 3050B ²
Cadmium	0.024 U	0.19	0.024	mg/kg	1	08/22/14	08/22/14 LM	SW846 6010C ¹	SW846 3050B ²
Chromium	1.4	0.47	0.047	mg/kg	1	08/22/14	08/22/14 LM	SW846 6010C ¹	SW846 3050B ²
Cobalt	0.033 I	2.4	0.024	mg/kg	1	08/22/14	08/22/14 LM	SW846 6010C ¹	SW846 3050B ²
Copper	0.26 I	1.2	0.047	mg/kg	1	08/22/14	08/22/14 LM	SW846 6010C ¹	SW846 3050B ²
Lead	1.9	0.95	0.076	mg/kg	1	08/22/14	08/22/14 LM	SW846 6010C ¹	SW846 3050B ²
Manganese	0.87	0.71	0.024	mg/kg	1	08/22/14	08/22/14 LM	SW846 6010C ¹	SW846 3050B ²
Nickel	0.56 I	1.9	0.024	mg/kg	1	08/22/14	08/22/14 LM	SW846 6010C ¹	SW846 3050B ²

(1) Instrument QC Batch: MA11834

(2) Prep QC Batch: MP27745

PQL = Practical Quantitation Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA17559 CLIENT: ECT PROJECT: PALCOA MOORE
 DATE/TIME RECEIVED: 8-20-14 12:05 (MM/DD/YY 24:00) NUMBER OF COOLERS RECEIVED: 1
 METHOD OF DELIVERY: FEDEX UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER
 AIRBILL NUMBERS: _____

COOLER INFORMATION

- CUSTODY SEAL NOT PRESENT OR NOT INTACT
- CHAIN OF CUSTODY NOT RECEIVED (COC)
- ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- TEMPERATURE CRITERIA NOT MET

TRIP BLANK INFORMATION

- TRIP BLANK PROVIDED
- TRIP BLANK NOT PROVIDED
- TRIP BLANK NOT ON COC
- TRIP BLANK INTACT
- TRIP BLANK NOT INTACT
- RECEIVED WATER TRIP BLANK
- RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM _____ 5-GRAM _____
 NUMBER OF 5035 FIELD KITS ? _____
 NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

IR THERM ID 1 CORR. FACTOR ±0.4
 OBSERVED TEMPS: 3.2
 CORRECTED TEMPS: 3.6

SAMPLE INFORMATION

- INCORRECT NUMBER OF CONTAINERS USED
- SAMPLE RECEIVED IMPROPERLY PRESERVED
- INSUFFICIENT VOLUME FOR ANALYSIS
- DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- ID'S ON COC DO NOT MATCH LABEL
- VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- SAMPLE CONTAINER(S) RECEIVED BROKEN
- 5035 FIELD KITS NOT RECEIVED WITHIN 48 HOURS
- BULK VOA SOIL JARS NOT RECEIVED WITHIN 48 HOURS
- % SOLIDS JAR NOT RECEIVED
- RESIDUAL CHLORINE PRESENT

[APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS]

SUMMARY OF COMMENTS: _____

TECHNICIAN SIGNATURE/DATE EB-20-14 REVIEWER SIGNATURE/DATE RW-08-20-14
 RS 04/14 receipt confirmation 041514.xls

4.1
4