INTERIM SOURCE REMOVAL PLAN
ORLANDO DOWNTOWN RECREATION COMPLEX
AND TENNIS CENTRE PARCEL
ORLANDO, ORANGE COUNTY, FLORIDA

Prepared for:

The City of Orlando
Public Works Division
5100 L.B. McLeod Road
Orlando, Florida, 32811
EPA Brownfields Cooperative Agreement 00-D10313

Prepared by:

ECT Environmental Consulting & Technology, Inc.
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ECT Project No. 150331

May 2015

PROFESSIONAL CERTIFICATION

Orlando Downtown Recreation Complex and Tennis Centre Parcel
649 Bentley Street
Orlando, Orange County, Florida 32801
Brownfield Cooperative Agreement BF-00-D10313

I hereby certify that in my professional judgment, the components of this Interim Source Removal Plan prepared for the above-referenced site satisfy the requirements set forth in Chapter 62-780, Florida Administrative Code (F.A.C.), and that the engineering design features incorporated in this Interim Source Removal Plan provide reasonable assurances of achieving the objectives stated in Chapter 62-780, F.A.C., for active remediation.

Prepared by:

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Senior Engineer
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6 May 2015
Date

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TABLE OF CONTENTS

LIST OF TABLES

LIST OF FIGURES

LIST OF ATTACHMENTS

1.0 INTRODUCTION

Environmental Consulting & Technology, Inc. (ECT) has been retained by the City of Orlando to prepare this Interim Source Removal Plan (ISRP) for the Orlando Downtown Recreation Complex and Tennis Centre (Site), which is located at the northeast corner of the intersection of North Parramore Avenue and Bentley Street, Orlando, Florida. The Site is currently in use and part of the Creative Digital Village Master Plan. This document was prepared using funding from Environmental Protection Agency (EPA) Brownfields Cooperative Agreement 00-D10313.

1.1 PURPOSES AND SCOPE

The purpose of this ISRP is to provide a plan to implement the recommended remedial action for excavation with off-site disposal of arsenic-impacted soils presented in the Analysis of Brownfields Cleanup Alternatives (ABCA) prepared by ECT, dated March 2015. Consistent with the findings of the Phase II Environmental Site Assessment (ESA) prepared by ECT, dated August 2014 and other previous environmental investigations, arsenic-impacted soils exceeding Soil Cleanup Target Levels – Direct Exposure Residential (SCTL-DER) criteria per Chapter 62-777 F.A.C. are known to be present at five separate locations in the southern half of the Site. The ISRP will provide the foundation to facilitate the removal and off-site disposal of arsenic-impacted soils.

Information on known Site conditions is based on the results of investigations completed for various redevelopment and/or cleanup projects within Creative Digital Village. These investigations, which are summarized in Section 3.0, include the following:

- July 2005, Phase I ESA, Professional Service Industries, Inc. (PSI)
- November 22, 2006, Phase II ESA, PSI
- November 4, 2011, Draft ABCA, Cardno TBE
- October, 2012, Phase I ESA, Cardno TBE
- November 27, 2013, Phase I ESA, ECT
- August 2014, Phase II ESA, ECT
- March 2015, Phase II ESA Addendum, ECT
- March 2015, ABCA, ECT

2.0 SITE BACKGROUND

The Site consists of three adjoining separate parcels totaling approximately 26.81 acres. The Site is bound by West Amelia Street to the north, North Parramore Avenue to the west, Bentley Street to the south, and vacant property (former Amway Center Parking lots) to the east. The Site consists of a main building with annex, several outbuildings that collectively comprise the multipurpose Orlando Downtown Recreation Complex, a detached maintenance building, and 16 tennis courts that collectively comprise the Orlando Tennis Centre. The Orange County Property Appraiser's Office information identifies the Site as parcel identification number 26-22-29-0000-00-007 located within Section 26 of Township 22 South, and Range 29 East in Orlando, Orange County, Florida. A Location Map is provided as **Figure 1**. A United States Geological Survey (USGS) Topographic Map, 1998, West Orlando, which includes the Site and the surrounding area, is provided as **Figure 2**. A Site Map depicting the location of the proposed Livingston Street Extension is provided as **Figure 3**.

Historically, the Site appears to have been developed as early as 1919, based on review of Sanborn Maps. Past uses of the Site have included: 1) Armory and Naval Training Center; 2) Orange County and Orlando Fair Grounds/Exposition Center; 3) a horse racing track and stables; 4) ball fields and various athletic fields; 5) residential (northern portion of the property); 6) United States Department of Agriculture (USDA) Bureau of Entomology and USDA Essential Oils Branch; 7) Orlando Police Training facility; and 8) refrigeration sales.

2.1 ADJACENT PROPERTY LAND USE

The Site is located in a developed area of Orlando, the Parramore Heritage District. Vacant land and parking areas that are part of the Creative Digital Village Master Plan are located to the north and east. Nap Ford Charter School is located to the south. Mixed commercial, residential and vacant properties are to the west (including a coin operated laundry, Hope of Salvation Church and a convenience store).

2.2 FUTURE SITE USE

The Orlando Recreation Complex (Site) is part of Creative Digital Village, a project that involves the replacement of aging and obsolete public infrastructure currently in place to support the 60-acre City-owned Orlando Centroplex venue. Future redevelopment of the Site and the entire Creative Digital Village is rejuvenation to include a live, work, learn and play mixed-use community built around a foundation of technology based employment and educational opportunities, mixed-income and attainable housing, neighborhood commercial and public open spaces. The technology-based employment and educational expansion opportunities at Creative Digital Village will help expand the regional Orlando economic cluster of tech-based, digital media production, modeling and simulation industries.

3.0 SUMMARY OF PREVIOUS ASSESSMENT ACTIVITIES

In July 2005, PSI conducted a Phase I ESA for the Centroplex Site located at 600 Amelia Avenue, Orlando, FL. The results of that Phase I ESA identified several recognized environmental concerns (RECs) in connection with the Centroplex Site which includes the subject Site of this ABCA. The July 2005 Phase I ESA identified that an armory, USDA automobile storage facility, and various USDA laboratories were historically located at the subject Site. Furthermore, review of Sanborn maps showed that an underground storage tank (UST) was on the property from at least 1950 to 1965.

Based on the RECs identified during the July 2005 Phase I ESA for the Centroplex Site, PSI conducted a Phase II ESA and the results of the investigation are described in a report dated November 23, 2006. The assessment identified benzo(a)pyrene in the soil exceeding SCTLs near the former UST, arsenic in the soil above SCTL-DER at three locations across the site, and dieldrin in the groundwater above groundwater cleanup target levels (GCTLs) in one temporary monitoring well. PSI recommended further soil and groundwater assessments in the area of the former Armory/USDA laboratories to determine the vertical and horizontal extent of petroleum-related compounds, metals and pesticides in the soil and groundwater beneath the Site.

Additionally, Cardno TBE identified RECs at the adjacent east property in a Phase I ESA for the New North Terry Avenue and West Livingston Street Alignments dated October 2012.

Based on information presented in the assessments discussed above, the City of Orlando requested ECT conduct a Phase I ESA for the Site to evaluate the presence/absence of RECs in anticipation of future redevelopment activities. The Phase I ESA dated November 2013, identified the following RECs associated with the Site: 1) former USDA facility, former USDA field laboratory (northeast portion of Site); 2) former USDA facility (west-central portion of Site); 3) former armory facility; and 4) the former Orlando Gasification Plant as benzene impacts were present on the southeastern portion of the Site.

Based on the opinions presented in the November 2013 Phase I ESA, ECT recommended a Phase II ESA be completed. The objective of the Phase II ESA was to determine the presence, magnitude, and distribution of soil and groundwater impacts, associated with the RECs identified during the previous investigations. The Phase II ESA was completed in August 2014. The assessment identified arsenic-impacted soils in five area and dieldrin impacts in the groundwater in three monitor wells. There were no petroleum impacts identified in groundwater or soil in the vicinity of the former UST area. The Phase II ESA recommended that an ABCA be prepared for the Site to evaluate remedial costs. In addition, the Phase II ESA recommended supplemental horizontal and vertical delineation of soil in select areas to facilitate preparation of a remedial strategy for the

removal of arsenic impacted soils. The March 2015 Phase II ESA addendum identified four source areas to be further delineated.

The purpose of the ABCA was to evaluate appropriate remedial alternatives to address the arsenic exceedances in the soil and to evaluate design testing alternatives to address the dieldrin concentrations in the groundwater. Based on the evaluations presented in the March 2015 ABCA, ECT recommended excavation with off-site disposal as the soil remedy best suited to achieve the goals of protecting human health and the environment at the Site. Additionally, ECT recommended that the groundwater remedy for the Site, and potentially other sites within the Creative Digital Village, be determined at a later date, but design testing will consist of pump and treat and EHC® injection. The ABCA identified five locations in the southern half of the Site for excavation and off-site disposal of arsenic impacted soils, as depicted on **Figure 4**. Analytical results from the Phase II ESA soil borings showing the arsenic impacts are shown on Figure 4-1 (1-3 FT BLS), Figure 4-2 (3-5 FT BLS) and Figure 4-3 (5-3 FT BLS).

4.0 SOURCE REMOVAL

Based on the evaluation of previous assessment findings and conservative assumptions of future site use for residential/mixed-use development, various alternatives were considered in the March 2015 ABCA for managing the identified arsenic impacted soil. Excavation and off-site disposal of impacted soils was recommended as the best remedial strategy to achieve the goals of protecting human health and the environment at the Site. Removal of contaminated material from a site is typically the most effective remediation technology that can be implemented, as it does not rely on chemical processes, dispersion and contact with reagents or binders, or soil conditions and is effective regardless of contaminant type (i.e. volatile organic compound (VOCs), semi-volatile organic compound (SVOCs), metals, etc.).

4.1 SITE LITHOLOGY

Soil encountered during the course of assessment activities from land surface to approximately 20 feet (ft) below land surface (bls) can be generally classified as poorly graded fine grained sands to silty/clayey sand mixtures of various shades of brown, light brown, tan, yellowish orange to orange or grey. This is consistent with Smyrna fine sand as indicated in the National Resource Conservation Service (NRCS) Soil Survey of Orange County, Florida.

4.2 AQUIFER CHARACTERISTICS

The surficial aquifer is considered a Class G-II groundwater per Chapter 62-520, F.A.C. Typically, the depth to water is between 12 and 16 ft bls. The general direction of groundwater flow is northeast. Dewatering at the Site will not be necessary as the maximum vertical extent of excavation is approximately 7 ft bls.

4.3 EXCAVATION AND OFF-SITE DISPOSAL

Consistent with criteria specific in Rule 62-777, F.A.C., the SCTL-DER criteria will be the remediation standard for this project. Based on previous assessment data, arsenic exceeded the referenced target level of 2.1 mg/kg at five locations at the Site. The arsenic-impacted soils to be excavated are identified as Source Areas 1-5 on **Figure 4**. Additional detail is provided in the following subsections.

4.3.1 SOURCE AREA 1

Source Area 1 is within a grassed area located in the southeastern portion of the Site in close proximity of the eastern wall of the racquetball courts just south of the southeastern most tennis court as shown on **Figure 4**. A schematic of Source Area 1 is provided as **Figure 5**. The average arsenic concentration in the soil to be excavated within Source Area 1 is 2.67 mg/kg. The area to be excavated is approximately 16.5 ft west to east and 10 ft north to south. The proposed depth of excavation is 3 ft bls. The approximate

volume of arsenic-impacted soil to be excavated is 18.33 cubic yards (yd^3) which equates to approximately 25.67 tons of soil. Refer to **Table 1** for source area soil excavation estimates. The northern boundary of the excavation will commence approximately 4 ft south of the tennis court fence and the western boundary of the excavation will commence approximately 3.5 ft east of the racquetball court fence. Brick pavers are present along the racquetball fence. To facilitate excavation, it may be necessary to remove and replace the brick pavers. Excavated soils may be stockpiled just south of the excavation area in the grass on visquene or placed directly into a roll-off container or dump truck prior to transport / disposal. Access along the north / south parking lot access road will be maintained for facility patrons with an appropriate maintenance of traffic (MOT) plan. Care shall be exercised when excavating in proximity of the tennis court and racquetball court as not to undermine either the court foundation or cause damage to the fencing. Upon the completion of excavation, Source Area 1 will be restored with clean imported fill and completed with 4 inches of topsoil and Bahia sod. Confirmatory sampling will be conducted at the limits of the excavation and the samples will be delivered to Accutest Laboratories Southeast (Accutest) for analysis by EPA method 6010 for arsenic. The arsenic-impacted soils will be transported off-site to Omni Landfill in St. Cloud, FL for disposal at a Class I Subtitle D Landfill. Photos of Source Area 1 are provided in **Attachment A**.

4.3.2 SOURCE AREA 2

Source Area 2 is within a paved area located in the southeastern portion of the Site in east lane of the north/south parking lot access road just southeast of the southeastern most tennis court as shown on **Figure 4**. A schematic of Source Area 2 is provided as **Figure 6**. The average arsenic concentration in the soil to be excavated within Source Area 2 is 23.15 mg/kg. The area to be excavated is approximately 16.5 ft north to south and 10.5 ft east to west. The proposed depth of excavation is 3 ft bls. The approximate volume of arsenic-impacted soil to be excavated is 19.25 yd^3 which equates to approximately 26.95 tons of soil. Refer to **Table 1** for source area soil excavation estimates. The eastern boundary of the excavation will commence at the western edge of the parking lot curb and the northern boundary of the excavation will commence approximately 1.0 ft south of the curb island adjacent to MW-7. Excavated soils may be stockpiled just south of the excavation area in the parking lot on visquene or placed directly into a roll-off container or dump truck prior to transport / disposal. Access along the north / south parking lot access road will be maintained for facility patrons with an appropriate MOT plan. It is anticipated that the excavation area will take up two parking places as well as a portion of the east lane of the access road and staging area will take up an additional three parking places. In the event the area cannot be restored at a minimum to the limerock base (lacking only asphalt completion), the excavated roadway will be covered with a suitable material such as sub-base or gravel until the roadway can be completed. Care shall be exercised when excavating in proximity of curbing as not to cause undermining, and around MW-7 as not to cause damage to the monitor well. Upon the completion of excavation, the area shall be restored with clean imported fill and completed with limerock base and asphalt paving to its previous condition to include asphalt markings.

Confirmatory sampling will be conducted at the limits of the excavation and the samples will be delivered to Accutest for analysis by EPA Method 6010 for arsenic. The arsenic-impacted soils will be transported off-site to Omni Landfill in St. Cloud, FL for disposal at a Class I Subtitle D Landfill. Photos of Source Area 2 are provided in **Attachment A**.

4.3.3 SOURCE AREA 3

Source Area 3 is within a mulched area located in the southern portion of the Site just east of the administrative building and centered on MW-8 as shown on **Figure 4**. A schematic of Source Area 3 is provided as **Figure 7**. The average arsenic concentration in the soil to be excavated within Source Area 2 is 3.70 mg/kg. The area to be excavated is approximately 15 ft north to south and 10 ft east to west. The proposed depth of excavation is 3 ft bls. The approximate volume of arsenic-impacted soil to be excavated is 16.67 yd^3 which equates to approximately 23.33 tons of soil. Refer to **Table 1** for source area soil excavation estimates. The boundaries of the proposed excavation area are 10 ft north and 5 ft south, east and west of MW-8. Excavated soils may be stockpiled just east of the excavation area in the mulch on visquene or placed directly into a roll-off container or dump truck prior to transport / disposal. Access along the West Livingston Street entrance and east parking lot in front to the administrative building will be maintained for facility patrons with an appropriate MOT plan. Care shall be taken when excavating in this area, as not to cause damage to MW-8. Due to the large oak trees within the area, excavation will be accomplished by hand shovel or vacuum extraction. Extra care shall be taken as not to damage the oak tree roots and water will be applied to the exposed roots if the excavation is left open longer than 8 hours. Additionally, excavated soils will not be stockpiled within limits of the tree canopy as excessive weight may cause root damage. Upon the completion of excavation, the area will be restored with clean imported fill and completed with mulch. Confirmatory sampling will be conducted at the limits of the excavation and the samples will be delivered to Accutest for analysis by EPA Method 6010 for arsenic. The arsenic-impacted soils will be transported off-site to Omni Landfill in St. Cloud, FL for disposal at a Class I Subtitle D Landfill. Photos of Source Area 3 are provided in **Attachment A**.

4.3.4 SOURCE AREA 4

Source Area 4 is within a partially grassed picnic area completed with brick pavers and located in the southern portion of the Site between the kiln building and racquetball courts just south of the tennis courts as shown on **Figure 4**. A schematic of Source Area 4 is provided as **Figures 8, 8-1** and **8-2**. To access Source Area 4 the Contractor shall remove 11 feet of fencing between the northeastern corner of the kiln building and the tennis courts. The average arsenic concentration in the soil to be excavated within Source Area 4 is 66.48 mg/kg. The area to be excavated is approximately 23.5 ft east to west and 8.5 ft north to south. The proposed depth of excavation is 7 ft bls. The approximate volume of arsenic-impacted soil to be excavated is 51.79 yd^3 which equates to approximately 72.50 tons of soil. Refer to **Table 1** for source area soil excavation estimates. The northern boundary of the excavation will commence approximately 2 ft

south of the tennis court fence and shoring or benching, depending on the soils, may be necessary along the tennis courts to prevent undermining of the tennis court foundation. The east and west boundaries of the excavation area are just inside two rectangular concert pedestals. To facilitate excavation, the pedestals may be temporarily relocated to provide additional stabilization for the pedestals during excavation. Brick pavers within the limits of excavation will be removed and stockpiled in the picnic area. MW-10 is located within the proposed limits of excavation. It is anticipated that MW-10 will be properly abandoned as a result of excavation and replaced at a later date. Additionally, it may be necessary to remove two large and two small sable palm trees located along the tennis court fence. In the event the palm trees are removed as a result of excavation, they will not be replaced. Excavated soils may be stockpiled just south or west of the excavation area in the brick paved area on visquene or placed directly into a roll-off container or dump truck prior to transport / disposal. Access along the North Parramore Avenue entrance and west parking lot near the kiln building receiving area will be maintained for facility patrons with an appropriate MOT plan. Upon the completion of excavation, the area will be restored with clean imported fill, the grassed area will be with completed with 4 inches of topsoil and Bahia sod and the remaining area will be completed with stockpiled brick pavers. The fencing removed for construction access will be replaced. Confirmatory sampling will be conducted at the limits of the excavation and the samples will be delivered to Accutest for analysis by EPA method 6010 for arsenic. The arsenic impacted soils will be transported off-site to Omni landfill in St. Cloud, FL for disposal at a Class I Subtitle D Landfill. Photos of Source Area 4 are provided in **Attachment A**.

4.3.5 SOURCE AREA 5

Source Area 5 is within a grassed area located in the southwestern portion of the Site in close proximity of eastern wall of the racquetball courts just south of the tennis courts as shown on **Figure 4**. A schematic of Source Area 5 is provided as **Figures 9, 9-1** and **9-2**. The average arsenic concentration in the soil to be excavated within Source Area 5 is 23.90 mg/kg. The area to be excavated is approximately 20 ft north to south and 12 ft east to west. The proposed depth of excavation is 5 ft bls. The approximate volume of arsenic-impacted soil to be excavated is 44.44 cubic yards (yd^3) which equates to approximately 62.22 tons of soil. Refer to **Table 1** for source area soil excavation estimates. The northern boundary of the excavation will commence approximately 1.5 ft south of the tennis court fence and the eastern boundary of the excavation will commence approximately 1.0 ft west of the kiln building. Contractor shall determine if shoring or stabilization will necessary to prevent undermining of the northwest corner of the kiln building. Care shall be taken when excavating in proximity of the tennis court as not to undermine the court foundation or cause damage to fencing. Additionally, it may be necessary to provide shoring or stabilization along the tennis court to prevent undermining of the tennis court foundation. MW-1 is located within the proposed limits of excavation. Caution will be exercised when excavation around MW-1 as not to damage it. In the event it is necessary to remove MW-1 to facilitate excavation, it will replaced at a later date. Excavated soils may be stockpiled just west of the excavation

area in the grass on visquene or placed directly into a roll-off container or dump truck prior to transport / disposal. Access along the North Parramore Avenue entrance and west parking lot near the kiln building receiving area will be maintained for facility patrons with an appropriate MOT plan. Upon the completion of excavation the area shall be restored with clean imported fill and completed with 3 inches of topsoil and Bahia sod. Confirmatory sampling will be conducted at the limits of the excavation and the samples will be delivered to Accutest for analysis by EPA Method 6010 for arsenic. The arsenic-impacted soils will be transported off-site to Omni Landfill in St. Cloud, FL for disposal at a Class I Subtitle D Landfill. Photos of Source Area 5 are provided in **Attachment A**.

4.4 PROJECT OVERSIGHT

Daily direct oversight of remediation activities will be performed by a State of Florida licensed professional engineer, competent through education and experience to provide direction and oversight throughout the process. Additional review and regulatory oversight will be provided by the EPA Project Officer administering the grant activities. Copies of reports generated throughout the process will be submitted to both the FDEP and EPA for review and comment.

4.5 CONFIRMATION SOIL SAMPLING

Confirmation soil sampling will occur at each source area and consist of at least 1 sample per sidewall and 1 bottom sample. Confirmation soil samples will be collected and analyzed according to EPA Method 6010 for arsenic.

4.6 COST

Limited areas of subsurface impacts have been documented at the Site. **Table 2** estimates quantities and unit costs for soil excavation and source removal activities for the five areas identified on **Figure 4**. Cost estimates include the City's in-kind services cost share. The cost of source removal by excavation can vary based on unforeseen conditions such as, utility conflicts and additional impacts discovered during excavation. Additionally, transportation and off-site disposal costs can vary substantially based on the method of treatment or disposal, fuel costs, and the distance to the final disposal facility. For these reasons, a 25% contingency has been added to the cost estimate.

4.7 SCHEDULE

Once the ISRP is approved by the City of Orlando, the ISRP will be sent to the EPA for review. It is anticipated that review of the ISRP will take approximately 2-3 weeks.

Field work will be scheduled to begin the third or fourth week of May 2015. The City of Orlando Public Works division will provide in-kind services related to the excavation activities, and ECT will provide construction oversight and reporting. Field activities are expected to take 1-2 weeks. An Interim Source Removal Report can be delivered within 4 weeks after the completion of field activities.

5.0 CONCLUSION

Based on the evaluations presented in this ISRP, excavation with off-site disposal is chosen as the soil remedy best suited to achieve the goals of protecting human health and the environment at the Site. Approximately 150 yd^3 (211 tons) of arsenic-impacted soil will be removed from the site and disposed. Upon the completion of remedial activities, an Interim Source Removal Report will be prepared to summarize the source removal and restoration activities at the Site.

TABLES

Orlando Downtown Recreation Complex and Tennis Centre
EPA Brownfield Cooperative Agreement 00-D10313
Source Area Excavation
5/6/2015

TABLE 1
ESTIMATES OF PROPOSED EXCAVATED SOILS

Source Area	Description	Approx. Area (FT^2)	Depth (FT)	Excavated Volume (YD^3)	Approx. Weigth (TN)
Source Area 1	Excavated Soil	165	3	18.33	25.67
Source Area 2	Excavated Soil	173.25	3	19.25	26.95
Source Area 3	Excavated Soil	150	3	16.67	23.33
Source Area 4	Excavated Soil	199.75	7	51.79	72.50
Source Area 5	Excavated Soil	240	5	44.44	62.22
TOTAL VOLUME / WEIGHT		**928**		**150**	**211**

Orlando Downtown Recreation Complex and Tennis Centre
EPA Brownfield Cooperative Agreement 00-D10313
Opinion of Probable Cost
5/6/2015

TABLE 2 OPINION OF PROBABLE COST
SOURCE AREA 1

Description	Units	Quantity	Est. Unit Cost	Est. Contractor Cost	Est. City Cost Share	Est. Total Costs
Mobilization (ECT)	Lump Sum	1	$500.00	$500.00		$500.00
Maintenance of Traffic (ECT)	Lump Sum	1	$500.00	$500.00		$500.00
Site Supervisior (City)	Hour	8	$40.00		$320.00	$320.00
Technicians (City)	Hour	16	$15.00		$240.00	$240.00
Construction Vehicles (City)	Day	2	$46.00		$92.00	$92.00
Backhoe (City)	Hour	8	$58.00		$464.00	$464.00
Equipment Operator (City)	Hour	8	$58.00		$464.00	$464.00
Dump Truck (City)	Hour	8	$72.00		$576.00	$576.00
Dump Truck Driver (City)	Hour	8	$20.00		$160.00	$160.00
Imported Fill (City)	Cubic Yard	20	$6.00		$120.00	$120.00
Imported Topsoil (3") (City)	Square Yard	18	$6.00		$108.00	$108.00
Sodding (Bahia) (City)	Square Yard	18	$3.00		$54.00	$54.00
Plate Compactor (City)	Hour	4	$101.00		$404.00	$404.00
Soil Disposal Fee (ECT)	Ton	26	$17.00	$442.00		$442.00
Principal Scientist (ECT & BFA)	Hour	8	$166.15	$1,329.20		$1,329.20
Professional Engineer (ECT)	Hour	8	$146.32	$1,170.56		$1,170.56
Environmental Technician (ECT & BFA)	Hour	24	$66.31	$1,591.44		$1,591.44
Support Vehicles (ECT & BFA)	Day	2	$125.00	$250.00		$250.00
Level D PPE (ECT & BFA)	Each	3	$60.00	$180.00		$180.00
Soil Sampling Supplies (ECT)	Day	1	$50.00	$50.00		$50.00
Sub-Total Source Area 1				**$6,013.20**	**$3,002.00**	**$9,015.20**
25% Contingency				**$1,503.30**	**$750.50**	**$2,253.80**
Laboratory Analyses				**$500.00**	**$0.00**	**$500.00**
TOTAL				**$8,016.50**	**$3,752.50**	**$11,769.00**

Orlando Downtown Recreation Complex and Tennis Centre
EPA Brownfield Cooperative Agreement 00-D10313
Opinion of Probable Cost
5/6/2015

TABLE 2 OPINION OF PROBABLE COST
SOURCE AREA 2

Description	Units	Quantity	Est. Unit Cost	Est. Contractor Cost	Est. City Cost Share	Est. Total Costs
Mobilization (ECT)	Lump Sum	1	$1,000.00	$1,000.00		$1,000.00
Maintenance of Traffic (ECT)	Lump Sum	1	$500.00	$500.00		$500.00
Site Supervisior (City)	Hour	16	$40.00		$640.00	$640.00
Technicians (City)	Hour	32	$15.00		$480.00	$480.00
Construction Vehicles (City)	Day	4	$46.00		$184.00	$184.00
Backhoe (City)	Hour	16	$58.00		$928.00	$928.00
Equipment Operator (City)	Hour	16	$58.00		$928.00	$928.00
Dump Truck (City)	Hour	16	$72.00		$1,152.00	$1,152.00
Truck Driver (City)	Hour	8	$20.00		$160.00	$160.00
Imported Fill (City)	Cubic Yard	21	$6.00		$127.05	$127.05
Asphalt (2") (City)	Square Yard	19	$15.00		$288.75	$288.75
Concrete Saw (City)	Hour	4	$20.00		$80.00	$80.00
Plate Compactor (City)	Hour	4	$101.00		$404.00	$404.00
Soil Disposal Fee (ECT)	Ton	27	$17.00	$458.15		$458.15
Principal Scientist (ECT & BFA)	Hour	8	$166.15	$1,329.20		$1,329.20
Professional Engineer (ECT)	Hour	16	$146.32	$2,341.12		$2,341.12
Environmental Technician (ECT & BFA)	Hour	24	$66.31	$1,591.44		$1,591.44
Support Vehicles (ECT & BFA)	Day	4	$125.00	$500.00		$500.00
Level D PPE (ECT & BFA)	Each	6	$60.00	$360.00		$360.00
Soil Sampling Supplies (ECT)	Day	2	$50.00	$100.00		$100.00
Sub-Total Source Area 2				**$8,179.91**	**$5,371.80**	**$13,551.71**
25% Contingency				**$2,044.98**	**$1,342.95**	**$3,387.93**
Laboratory Analyses				**$500.00**	**$0.00**	**$500.00**
TOTAL				**$10,724.89**	**$6,714.75**	**$17,439.64**

Orlando Downtown Recreation Complex and Tennis Centre
EPA Brownfield Cooperative Agreement 00-D10313
Opinion of Probable Cost
5/6/2015

TABLE 2 OPINION OF PROBABLE COST
SOURCE AREA 3

Description	Units	Quantity	Est. Unit Cost	Est. Contractor Cost	Est. City Cost Share	Est. Total Costs
Mobilization (ECT)	Lump Sum	1	$500.00	$500.00		$500.00
Maintenance of Traffic (ECT)	Lump Sum	1	$500.00	$500.00		$500.00
Site Supervisior (City)	Hour	8	$40.00		$320.00	$320.00
Technicians (City)	Hour	16	$15.00		$240.00	$240.00
Construction Vehicles (City)	Day	2	$46.00		$92.00	$92.00
Vac-Truck (City)	Hour	8	$140.00		$1,120.00	$1,120.00
Equipment Operator (City)	Hour	8	$58.00		$464.00	$464.00
Backhoe (City)	Hour	8	$58.00		$464.00	$464.00
Equipment Operator (City)	Hour	8	$20.00		$160.00	$160.00
Dump Truck (City)	Hour	8	$72.00		$576.00	$576.00
Truck Driver (City)	Hour	8	$20.00		$160.00	$160.00
Imported Fill (City)	Cubic Yard	18	$6.00		$110.02	$110.02
Mulch (3") (City)	Square Yard	17	$6.00		$100.02	$100.02
Plate Compactor (City)	Day	1	$101.00		$101.00	$101.00
Soil Disposal Fee (ECT)	Ton	23	$17.00	$396.61		$396.61
Principal Scientist (ECT & BFA)	Hour	8	$166.15	$1,329.20		$1,329.20
Professional Engineer (ECT)	Hour	8	$146.32	$1,170.56		$1,170.56
Environmental Technician (ECT & BFA)	Hour	24	$66.31	$1,591.44		$1,591.44
Support Vehicles (ECT & BFA)	Day	2	$125.00	$250.00		$250.00
Level D PPE (ECT & BFA)	Each	3	$60.00	$180.00		$180.00
Soil Sampling Supplies (ECT)	Day	1	$50.00	$50.00		$50.00
Sub-Total Source Area 3				**$5,967.81**	**$3,907.04**	**$9,874.85**
25% Contingency				**$1,491.95**	**$976.76**	**$2,468.71**
Laboratory Analyses				**$500.00**	**$0.00**	**$500.00**
TOTAL				**$7,959.76**	**$4,883.80**	**$12,843.57**

Orlando Downtown Recreation Complex and Tennis Centre
EPA Brownfield Cooperative Agreement 00-D10313
Opinion of Probable Cost
5/6/2015

TABLE 2 OPINION OF PROBABLE COST
SOURCE AREA 4

Description	Units	Quantity	Est. Unit Cost	Est. Contractor Cost	Est. City Cost Share	Est. Total Costs
Mobilization (ECT)	Lump Sum	1	$1,000.00	$1,000.00		$1,000.00
Maintenance of Traffic (ECT)	Lump Sum	1	$500.00	$500.00		$500.00
Site Supervisior (City)	Hour	16	$40.00		$640.00	$640.00
Technicians (City)	Hour	32	$15.00		$480.00	$480.00
Construction Vehicles (City)	Day	4	$46.00		$184.00	$184.00
Backhoe (City)	Hour	16	$58.00		$928.00	$928.00
Equipment Operator (City)	Hour	16	$20.00		$320.00	$320.00
Dump Truck (City)	Hour	16	$72.00		$1,152.00	$1,152.00
Truck Driver (City)	Hour	8	$20.00		$160.00	$160.00
Imported Fill (City)	Cubic Yard	57	$6.00		$341.81	$341.81
Remove and Replace Brick Pavers (City)	Square Yard	15	$10.00		$150.00	$150.00
Remove and Replace Concrete Pedestals	Each	2	$250.00		$500.00	$500.00
Remove and Replace Fence (City)	Feet	11	$25.00		$275.00	$275.00
Plate Compactor (City)	Day	1	$101.00		$101.00	$101.00
Soil Disposal Fee (ECT)	Ton	73	$17.00	$1,232.50		$1,232.50
Principal Scientist (ECT & BFA)	Hours	16	$166.15	$2,658.40		$2,658.40
Professional Engineer (ECT)	Day	16	$146.32	$2,341.12		$2,341.12
Environmental Technician (ECT & BFA)	Hours	24	$66.31	$1,591.44		$1,591.44
Support Vehicles (ECT & BFA)	Day	4	$125.00	$500.00		$500.00
Level D PPE (ECT & BFA)	Each	6	$60.00	$360.00		$360.00
Soil Sampling Supplies (ECT)	Day	2	$50.00	$100.00		$100.00
Sub-Total Source Area 4				**$10,283.46**	**$5,231.81**	**$15,515.27**
25% Contingency				**$2,570.87**	**$1,307.95**	**$3,878.82**
Laboratory Analyses				**$500.00**	**$0.00**	**$500.00**
TOTAL				**$13,354.33**	**$6,539.77**	**$19,894.09**

Orlando Downtown Recreation Complex and Tennis Centre
EPA Brownfield Cooperative Agreement 00-D10313
Opinion of Probable Cost
5/6/2015

TABLE 2 OPINION OF PROBABLE COST
SOURCE AREA 5

Description	Units	Quantity	Est. Unit Cost	Est. Contractor Cost	Est. City Cost Share	Est. Total Costs
Mobilization (ECT)	Lump Sum	1	$500.00	$500.00		$500.00
Maintenance of Traffic (ECT)	Lump Sum	1	$500.00	$500.00		$500.00
Site Supervisior (City)	Hour	8	$40.00		$320.00	$320.00
Technicians (City)	Hour	16	$15.00		$240.00	$240.00
Construction Vehicles (City)	Day	2	$46.00		$92.00	$92.00
Backhoe (City)	Hour	8	$58.00		$464.00	$464.00
Equipment Operator (City)	Hour	8	$58.00		$464.00	$464.00
Dump Truck (City)	Hour	8	$72.00		$576.00	$576.00
Truck Driver (City)	Hour	8	$20.00		$160.00	$160.00
Imported Fill (City)	Cubic Yard	49	$6.00		$294.00	$294.00
Imported Topsoil (3") (City)	Square Yard	27	$6.00		$159.96	$159.96
Sodding (Bahia) (City)	Square Yard	27	$3.00		$79.98	$79.98
Plate Compactor (City)	Day	1	$101.00		$101.00	$101.00
Soil Disposal Fee (ECT)	Ton	62	$17.00	$1,054.00		$1,054.00
Principal Scientist (ECT & BFA)	Hours	8	$166.15	$1,329.20		$1,329.20
Professional Engineer (ECT)	Day	8	$146.32	$1,170.56		$1,170.56
Environmental Technician (ECT & BFA)	Hours	24	$66.31	$1,591.44		$1,591.44
Support Vehicles (ECT & BFA)	Hours	2	$125.00	$250.00		$250.00
Level D PPE (ECT & BFA)	Each	3	$60.00	$180.00		$180.00
Soil Sampling Supplies (ECT)	Day	1	$50.00	$50.00		$50.00
Sub-Total Source Area 5				**$6,625.20**	**$2,950.94**	**$9,576.14**
25% Contingency				**$1,656.30**	**$737.74**	**$2,394.04**
Laboratory Analyses				**$500.00**	**$0.00**	**$500.00**
TOTAL				**$8,781.50**	**$3,688.68**	**$12,470.18**

	Est. Contractor Cost	Est. City Cost Share	Est. Total Costs
Total Estimated Costs	**$48,836.98**	**$25,579.50**	**$74,416.47**

FIGURES

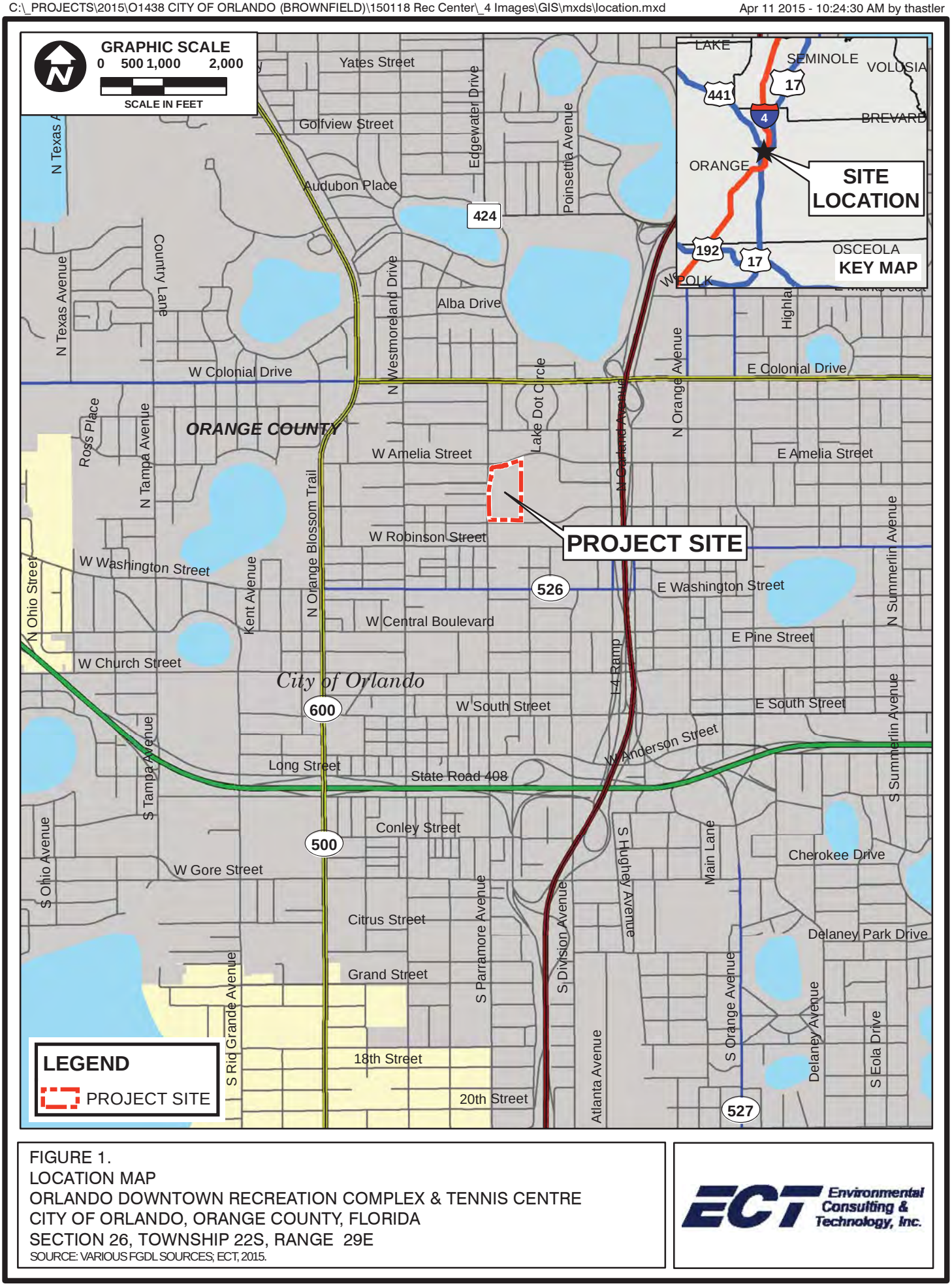

FIGURE 1.
LOCATION MAP
ORLANDO DOWNTOWN RECREATION COMPLEX & TENNIS CENTRE
CITY OF ORLANDO, ORANGE COUNTY, FLORIDA
SECTION 26, TOWNSHIP 22S, RANGE 29E
SOURCE: VARIOUS FGDL SOURCES; ECT, 2015.

ECT Environmental Consulting & Technology, Inc.

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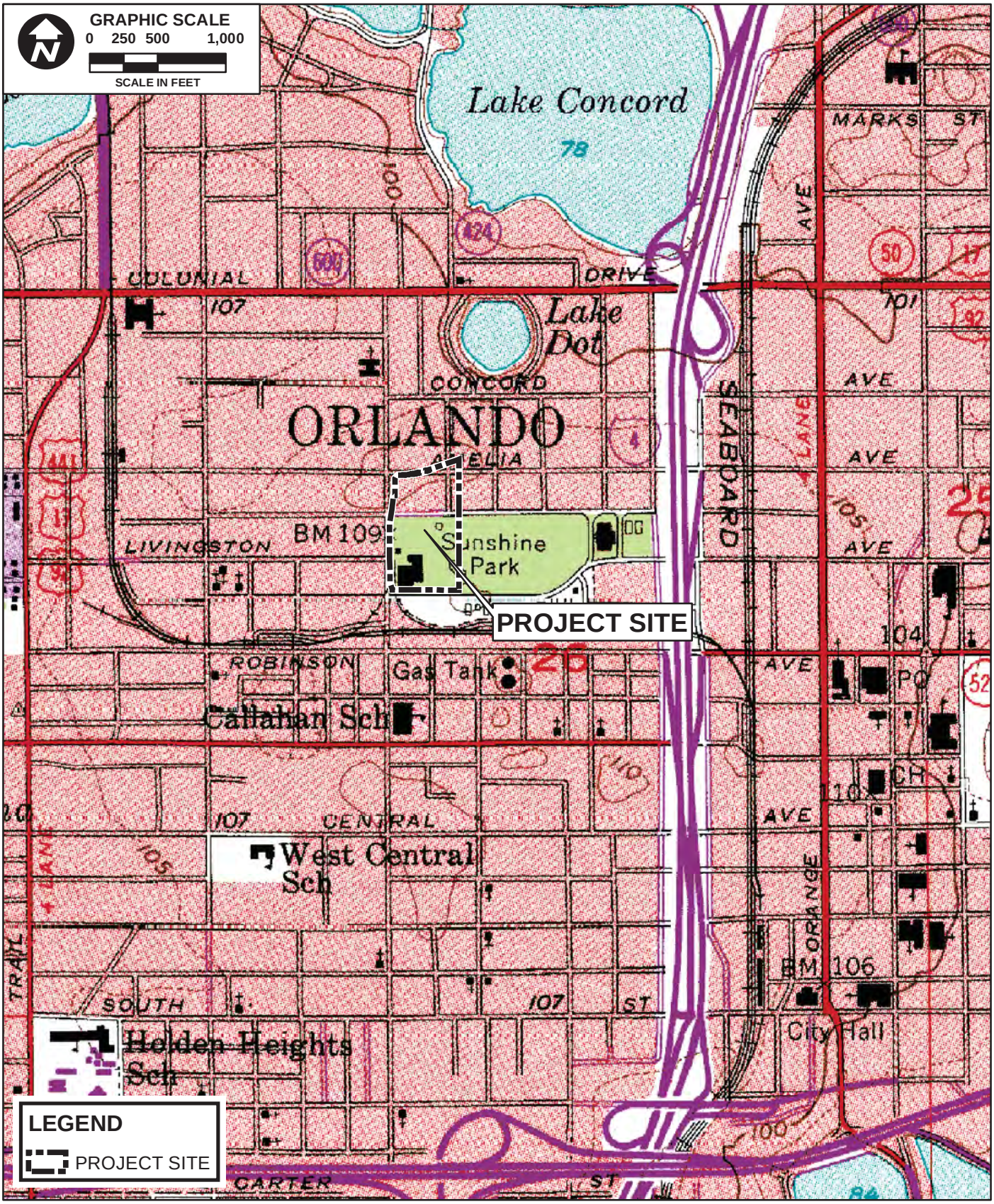

FIGURE 2.
USGS TOPOGRAPHIC MAP
ORLANDO DOWNTOWN RECREATION COMPLEX & TENNIS CENTRE
CITY OF ORLANDO, ORANGE COUNTY, FLORIDA
SECTION 26, TOWNSHIP 22S, RANGE 29E
SOURCE: USGS QUAD ORLANDO WEST, 3712 1980; ECT, 2015.

ECT Environmental Consulting & Technology, Inc.

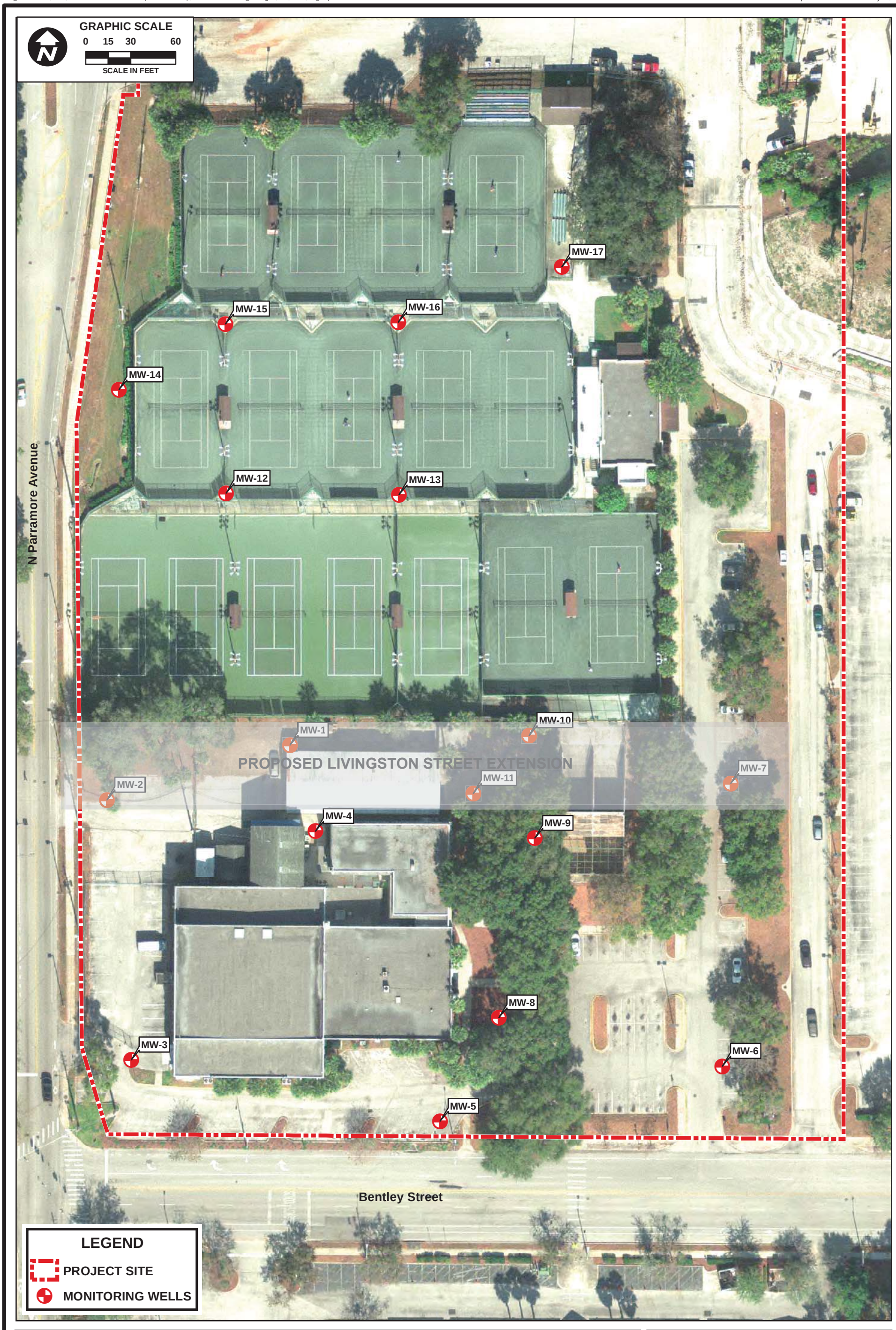

FIGURE 3.
SITE MAP
ORLANDO DOWNTOWN RECREATION COMPLEX & TENNIS CENTRE
CITY OF ORLANDO, ORANGE COUNTY, FLORIDA
SECTION 26, TOWNSHIP 22S, RANGE 29E

SOURCE: FDOT Aerial, 2012; ECT, 2015.

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GRAPHIC SCALE

0 15 30 60

SCALE IN FEET

MW-17
MW-15
MW-16
MW-14
MW-12
MW-13
REMOVE AND REPLACE 11' OF FENCE FOR CONSTRUCTION ACCESS
SOURCE AREA 5
SOURCE AREA 4
SOURCE AREA 1
MW-1
MW-10
MW-2
MW-11
MW-7
MW-4
MW-9
SOURCE AREA 2
SOURCE AREA 3
MW-8
MW-3
MW-6
MW-5
N Parramore Avenue
Bentley Street

LEGEND

PROJECT SITE

SOURCE AREAS

MONITORING WELLS

FIGURE 4.
ARSENIC IMPACTS
ORLANDO DOWNTOWN RECREATION COMPLEX & TENNIS CENTRE
CITY OF ORLANDO, ORANGE COUNTY, FLORIDA
SECTION 26, TOWNSHIP 22S, RANGE 29E

SOURCE: FDOT Aerial, 2012; ECT, 2015.

ECT Environmental Consulting & Technology, Inc.

GRAPHIC SCALE

0 15 30 60

SCALE IN FEET

N Parramore Avenue

Bentley Street

SB-54 0.87
SB-53 1.3
SB-47 2.6
SB-48 1.2
SB-49 1.2
SB-50 5.1
SB-51 2.2
SB-52 0.87
SB-46 2.1
SB-45 1.7
SB-39 1.8
SB-40 3.0
SB-42 1.5
SB-43 10.4
SB-44 3.5
SB-31 1.4
SB-21N 111
SB-27N 2.4
SB-27E 3.1
SB-9N 53.3
SB-21W(2) 110
SB-21E 51.8
SB-4 0.31 I
SB-9W 18.3
SB-9 6.9
SB-16 0.46
SB-32N 0.7
SB-35 1.1
SB-9E 0.80
SB-27W 1.2
SB-9W(2) 1.0
SB-21W 83.0
SB-21 49.7
SB-27S 1.4
SB-32 40.7
SB-1 0.27 I
SB-9S 13.6
SB-27 2.5
SB-21S 1.4
SB-32W 0.98
SB-9S(2) 115
SB-18 0.60
SB-22 0.49 I
SB-28 0.90
SB-32E 1.1
SB-8 0.18 I
SB-32S 5.6
SB-5 0.19 I
SB-36 0.15 I
SB-19 0.97
SB-25 0.48
SB-2 0.23 I
SB-33 0.44 I
SB-20N 3.7
SB-20N(2) 0.90
SB-6 0.31 I
SB-23 0.31 I
SB-29 1.4
SB-37 0.44 I
SB-20W 1.1
SB-20E(2) 0.84
SB-26 1.1
SB-3 0.20 I
SB-20 3.6
SB-34 0.60
SB-20E 3.8
SB-20S 0.82
SB-30 1.5
SB-7 1.5
SB-15 0.10 I
SB-17 0.22 I
SB-24 1.5
SB-38 1.9

LEGEND

APPROXIMATE PROJECT BOUNDARY

ARSENIC < RSCTL (2.1 mg/kg)

ARSENIC > RSCTL (2.1 mg/kg)

RSCTL - RESIDENTAL SOIL CLEANUP TARGET LEVEL
FT BLS - FEET BELOW LAND SURFACE
ALL RESULTS IN MILIGRAMS PER KILOGRAM (mg/kg)

FIGURE 4-1.
ARSENIC 1-3 FT BLS
ORLANDO DOWNTOWN RECREATION COMPLEX & TENNIS CENTRE
CITY OF ORLANDO, ORANGE COUNTY, FLORIDA
SECTION 26, TOWNSHIP 22S, RANGE 29E

SOURCE: FDOT Aerial, 2012; ECT, 2015.

ECT Environmental Consulting & Technology, Inc.

FIGURE 4-2.
ARSENIC 3-5 FT BLS
ORLANDO DOWNTOWN RECREATION COMPLEX & TENNIS CENTRE
CITY OF ORLANDO, ORANGE COUNTY, FLORIDA
SECTION 26, TOWNSHIP 22S, RANGE 29E

SOURCE: FDOT Aerial, 2012; ECT, 2015.

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GRAPHIC SCALE

0 15 30 60

SCALE IN FEET

Otey Place

N Parramore Avenue

SB-9W(2) 0.84

SB-9N 11.0

SB-9W 4.6

SB-21W(2) 3.4

SB-21N 15.5

SB-21W 3.7

Bentley Street

LEGEND

APPROXIMATE PROJECT BOUNDARY

ARSENIC < RSCTL (2.1 mg/kg)

ARSENIC > RSCTL (2.1 mg/kg)

RSCTL - RESIDENTIAL SOIL CLEANUP TARGET LEVEL
FT BLS - FEET BELOW LAND SURFACE
ALL RESULTS IN MILIGRAMS PER KILOGRAM (mg/kg)

FIGURE 4-3.
ARSENIC 5-7 FT BLS
ORLANDO DOWNTOWN RECREATION COMPLEX & TENNIS CENTRE
CITY OF ORLANDO, ORANGE COUNTY, FLORIDA
SECTION 26, TOWNSHIP 22S, RANGE 29E

SOURCE: FDOT Aerial, 2012; ECT, 2015.

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FIGURE 5.
SOURCE AREA 1
ORLANDO DOWNTOWN RECREATION COMPLEX & TENNIS CENTRE
CITY OF ORLANDO, ORANGE COUNTY, FLORIDA
SECTION 26, TOWNSHIP 22S, RANGE 29E
SOURCE: FDOT Aerial, 2012; ECT, 2015.

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FIGURE 6.
SOURCE AREA 2
ORLANDO DOWNTOWN RECREATION COMPLEX & TENNIS CENTRE
CITY OF ORLANDO, ORANGE COUNTY, FLORIDA
SECTION 26, TOWNSHIP 22S, RANGE 29E
SOURCE: FDOT Aerial, 2012; ECT, 2015.

ECT Environmental Consulting & Technology, Inc.

FIGURE 7.
SOURCE AREA 3
ORLANDO DOWNTOWN RECREATION COMPLEX & TENNIS CENTRE
CITY OF ORLANDO, ORANGE COUNTY, FLORIDA
SECTION 26, TOWNSHIP 22S, RANGE 29E
SOURCE: FDOT Aerial, 2012; ECT, 2015.

ECT Environmental Consulting & Technology, Inc.

FIGURE 8.
SOURCE AREA 4
ORLANDO DOWNTOWN RECREATION COMPLEX & TENNIS CENTRE
CITY OF ORLANDO, ORANGE COUNTY, FLORIDA
SECTION 26, TOWNSHIP 22S, RANGE 29E
SOURCE: FDOT Aerial, 2012; ECT, 2015.

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FIGURE 8-1.
SOURCE AREA 4
ORLANDO DOWNTOWN RECREATION COMPLEX & TENNIS CENTRE
CITY OF ORLANDO, ORANGE COUNTY, FL
SECTION 26, TOWNSHIP 22S, RANGE 29E
SOURCE: FDOT Aerial, 2012; ECT, 2015.

ECT Environmental Consulting & Technology, Inc.

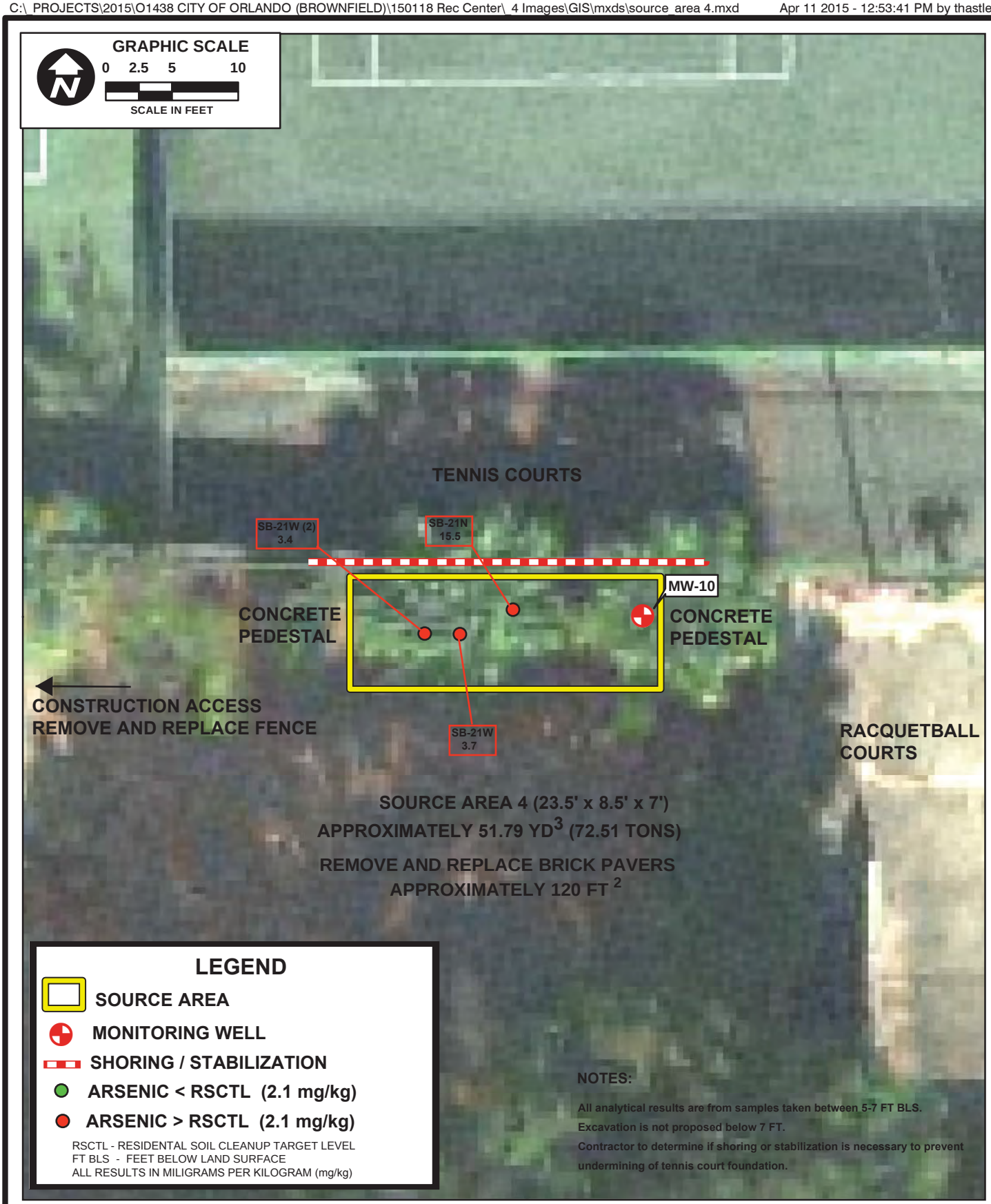

FIGURE 8-2.
SOURCE AREA 4
ORLANDO DOWNTOWN RECREATION COMPLEX & TENNIS CENTRE
CITY OF ORLANDO, ORANGE COUNTY, FL
SECTION 26, TOWNSHIP 22S, RANGE 29E
SOURCE: FDOT Aerial, 2012; ECT, 2015.

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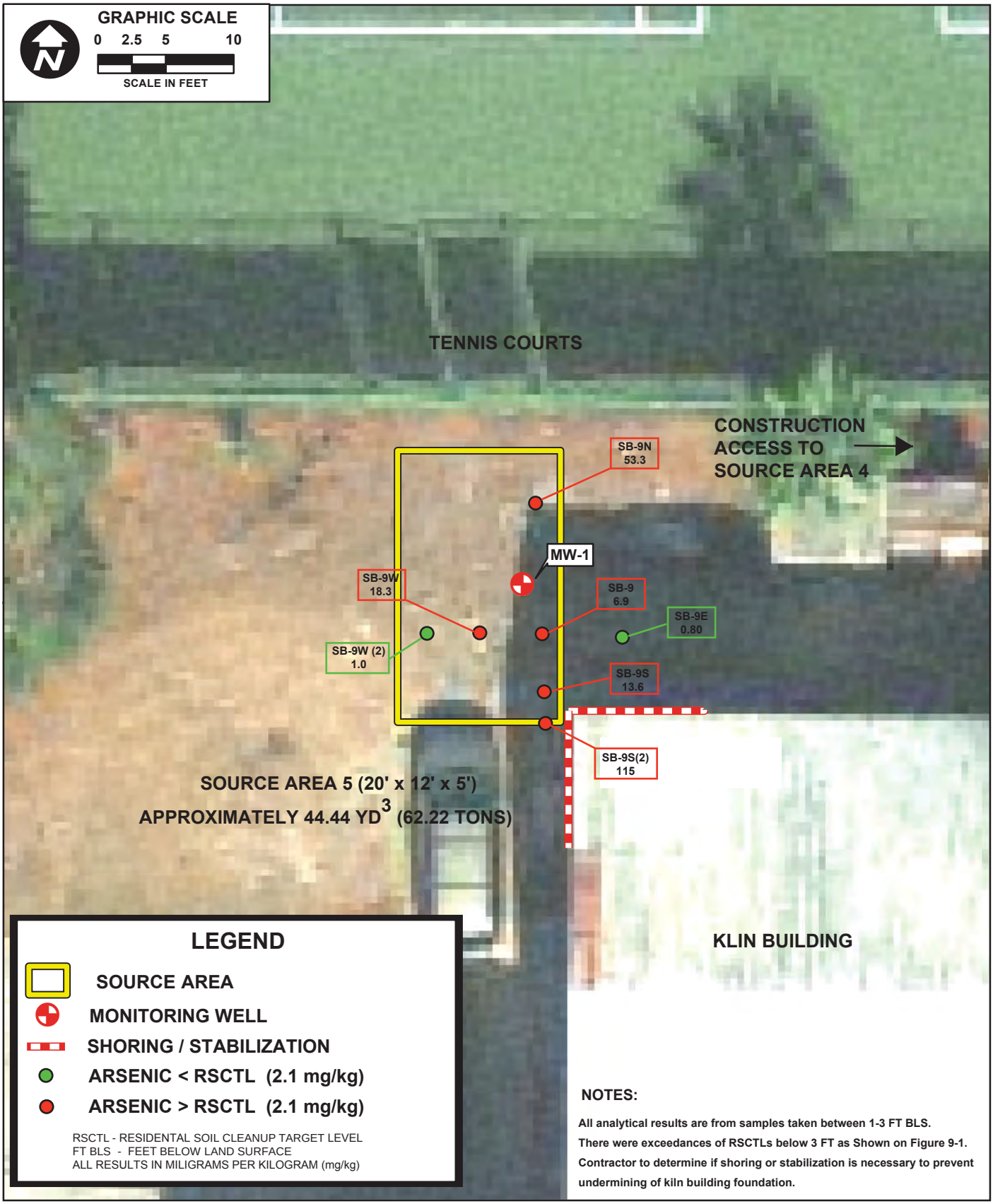

FIGURE 9.
SOURCE AREA 5
ORLANDO DOWNTOWN RECREATION COMPLEX & TENNIS CENTRE
CITY OF ORLANDO, ORANGE COUNTY, FLORIDA
SECTION 26, TOWNSHIP 22S, RANGE 29E
SOURCE: FDOT Aerial, 2012; ECT, 2015.

ECT Environmental Consulting & Technology, Inc.

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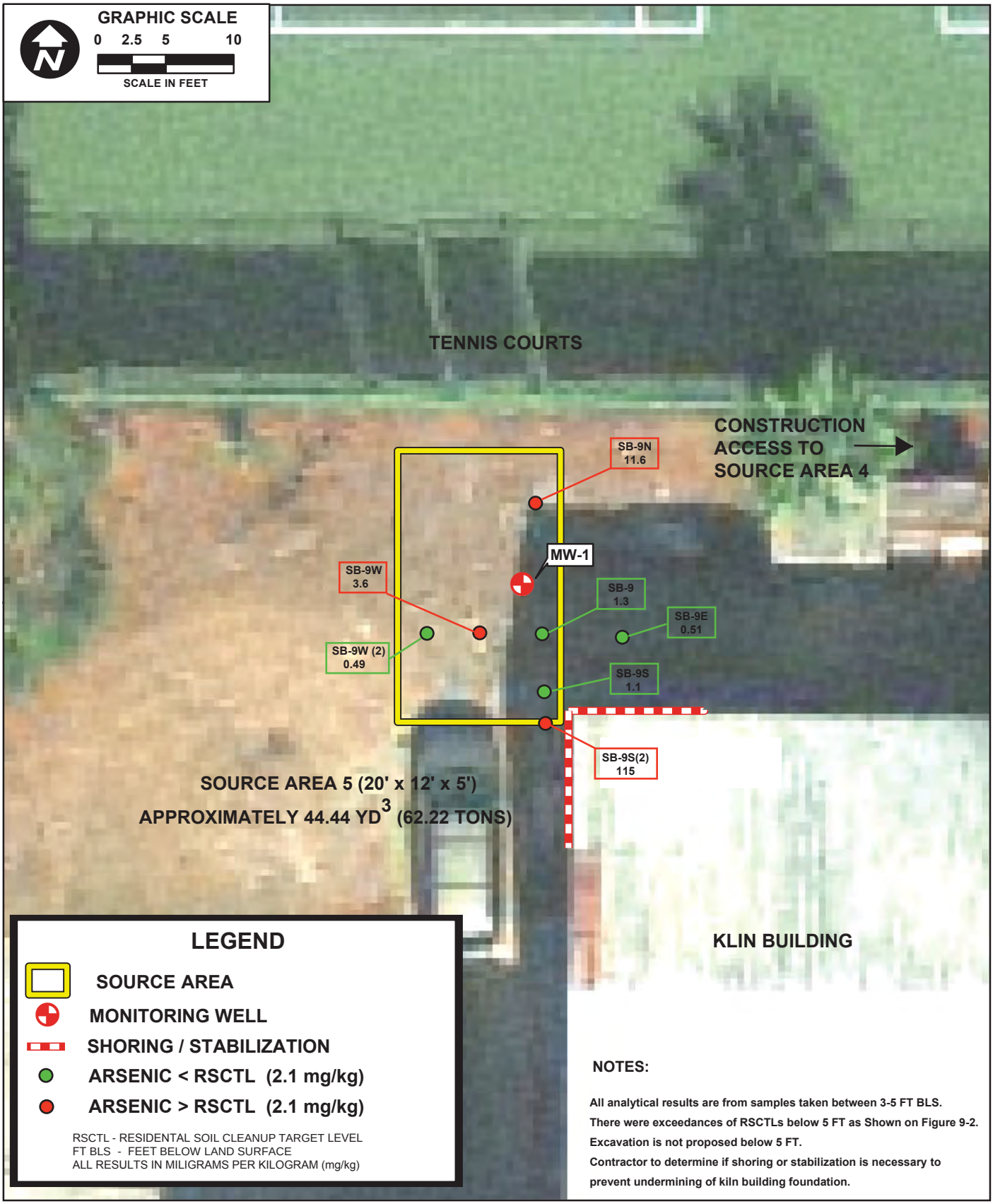

FIGURE 9-1.
SOURCE AREA 5
ORLANDO DOWNTOWN RECREATION COMPLEX & TENNIS CENTRE
CITY OF ORLANDO, ORANGE COUNTY, FL
SECTION 26, TOWNSHIP 22S, RANGE 29E
SOURCE: FDOT Aerial, 2012; ECT, 2015.

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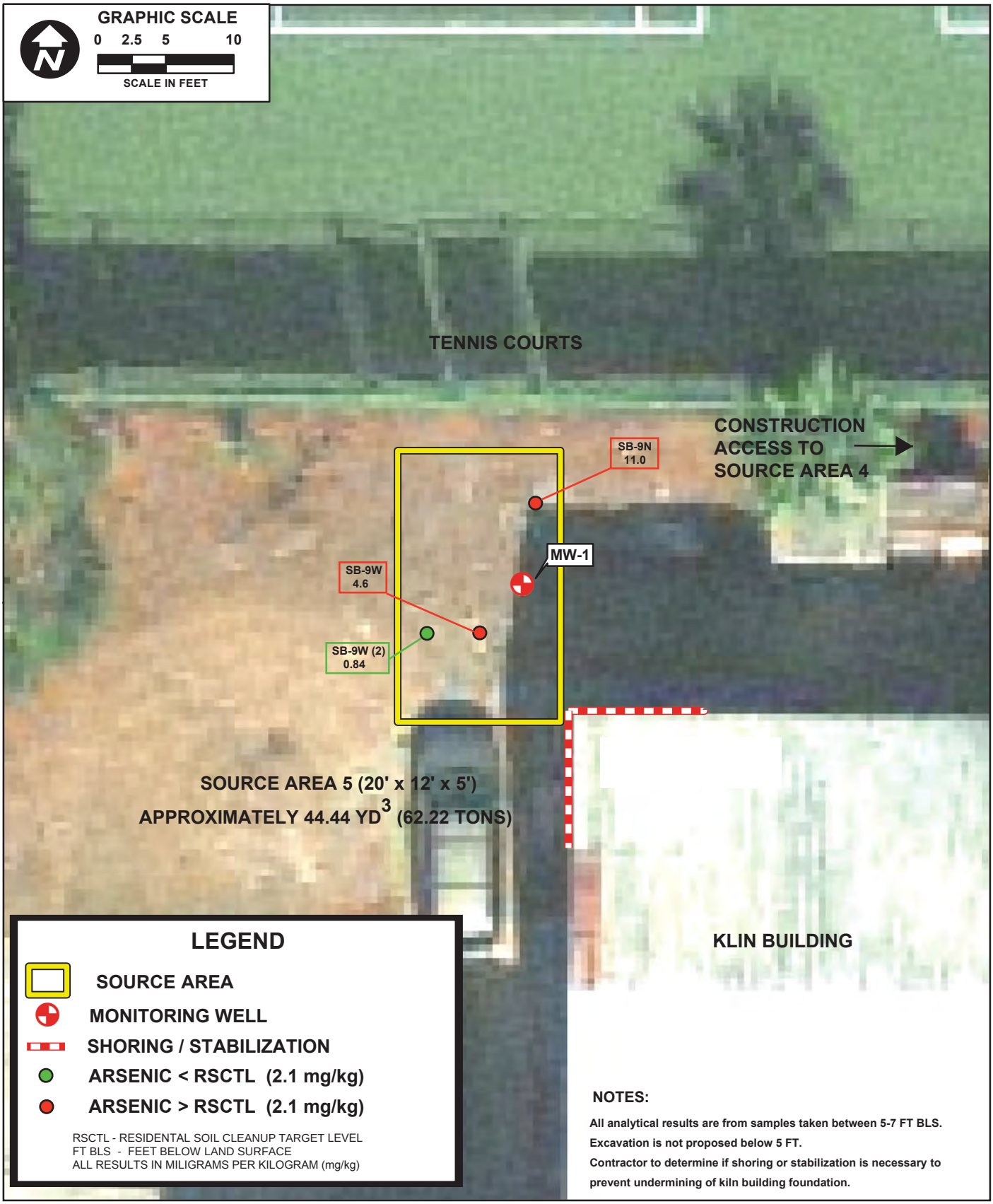

FIGURE 9-2.
SOURCE AREA 5
ORLANDO DOWNTOWN RECREATION COMPLEX & TENNIS CENTRE
CITY OF ORLANDO, ORANGE COUNTY, FL
SECTION 26, TOWNSHIP 22S, RANGE 29E
SOURCE: FDOT Aerial, 2012; ECT, 2015.

ECT Environmental Consulting & Technology, Inc.

ATTACHMENT A

Site Name: Orlando Recreation Center ISRP	Site Location: 649 Bentley Street, Orlando, FL 32801

Photo No.: 1

Date: 3/31/2015

Direction Photo Taken: West

Description: Source Area 1, grassed area just east of the racquetball court and south of the tennis courts.

Site Name: Orlando Recreation Center ISRP	Site Location: 649 Bentley Street, Orlando, FL 32801

Photo No.: 2

Date: 3/31/2015

Direction Photo Taken: North

Description:

Source Area 1, grassed area just east of the racquetball court and south of the tennis courts.

Sidewalk and parking lot located to the east.

Site Name: Orlando Recreation Center ISRP	Site Location: 649 Bentley Street, Orlando, FL 32801
Photo No.: 3 **Date: 3/31/2015** **Direction Photo Taken: Northeast** **Description: Source Area 1, grassed area located southeast of the tennis courts.**	

Site Name: Orlando Recreation Center ISRP	Site Location: 649 Bentley Street, Orlando, FL 32801
Photo No.: 4 **Date: 3/31/2015** **Direction Photo Taken: East** **Description: Source Area 2, access road and east parking lot of recreation center.**	

Site Name: Orlando Recreation Center ISRP	Site Location: 649 Bentley Street, Orlando, FL 32801
Photo No.: 5 **Date: 3/31/2015** **Direction Photo Taken: East** **Description: Source Area 2, north boundary of excavation in parking lot. MW-7 located at the edge of the limits of excavation.**	

Site Name: Orlando Recreation Center ISRP	Site Location: 649 Bentley Street, Orlando, FL 32801
Photo No.: 6 **Date: 3/31/2015** **Direction Photo Taken: Northeast** **Description: Source Area 2, parking lot of recreation center.**	

Site Name: Orlando Recreation Center ISRP	Site Location:

Photo No.: 7

Date: 3/31/2015

Direction Photo Taken: East

Description: Source Area 2, south boundary of excavation in parking lot.

Site Name: Orlando Recreation Center ISRP	Site Location: 649 Bentley Street, Orlando, FL 32801

Photo No.: 8

Date: 3/31/2015

Direction Photo Taken: East

Description:
Source Area 3, mulched area just west of the parking lot in front of the recreation center administration building. Large oak trees in the source area.

Site Name: Orlando Recreation Center ISRP	Site Location: 649 Bentley Street, Orlando, FL 32801
Photo No.: 9 **Date: 3/31/2015** **Direction Photo Taken: Northeast** **Description: Source Area 3, mulched area southwest of racquetball courts. MW-8 located in the middle of Source Area 3.**	

Site Name: Orlando Recreation Center ISRP	Site Location: 649 Bentley Street, Orlando, FL 32801
Photo No.: 10 **Date: 3/31/2015** **Direction Photo Taken: Northwest** **Description: Source Area 3, mulched area east of recreation center administration building.**	

Site Name: Orlando Recreation Center ISRP	Site Location: 649 Bentley Street, Orlando, FL 32801
Photo No.: 11 **Date: 3/31/2015** **Direction Photo Taken: Southwest** **Description: Source Area 3, mulched area east of recreation center administration building.**	

Site Name: Orlando Recreation Center ISRP	Site Location: 649 Bentley Street, Orlando, FL 32801
Photo No.: 12 **Date: 3/31/2015** **Direction Photo Taken: East** **Description: Source Area 4, partially grassed picnic area with brick pavers.**	

Site Name: Orlando Recreation Center ISRP	Site Location: 649 Bentley Street, Orlando, FL 32801
Photo No.: 13 **Date: 3/31/2015** **Direction Photo Taken: North** **Description: Source Area 4, partially grassed picnic area with brick pavers. Tennis courts are located just north of the source area.**	

Site Name: Orlando Recreation Center ISRP	Site Location: 649 Bentley Street, Orlando, FL 32801
Photo No.: 14 **Date: 3/31/2015** **Direction Photo Taken: Northwest** **Description: Source Area 4, partially grassed picnic area with brick pavers. Tennis courts are located just north of the source area. Sable palm trees are located along the fenceline.**	

Site Name: Orlando Recreation Center ISRP	Site Location: 649 Bentley Street, Orlando, FL 32801

Photo No.: 15

Date: 3/31/2015

Direction Photo Taken: West

Description:
Source Area 4, partially grassed picnic area with brick pavers. MW-10 located between two concrete pedestals.

Site Name: Orlando Recreation Center ISRP	Site Location: 649 Bentley Street, Orlando, FL 32801

Photo No.: 16

Date: 3/31/2015

Direction Photo Taken: East

Description:
Source Area 4, fence between Source Area 4 and Source Area 5. Fencing to be removed for construction access and replaced following construction.

Site Name: Orlando Recreation Center ISRP	Site Location: 649 Bentley Street, Orlando, FL 32801

Photo No.: 17

Date: 3/31/2015

Direction Photo Taken: East

Description: Source Area 5, grassy area south of the tennis courts. Fence between Source Area 4 and Source Area 5 to be removed and replaced for construction access.

Site Name: Orlando Recreation Center ISRP	Site Location: 649 Bentley Street, Orlando, FL 32801

Photo No.: 18

Date: 3/31/2015

Direction Photo Taken: North

Description: Source Area 5, grassy area south of the tennis court.

Site Name: Orlando Recreation Center ISRP	Site Location: 649 Bentley Street, Orlando, FL 32801
Photo No.: 19 **Date: 3/31/2015** **Direction Photo Taken: Northeast** **Description: Source Area 5, grassy area south of the tennis courts.**	

Site Name: Orlando Recreation Center ISRP	Site Location: 649 Bentley Street, Orlando, FL 32801
Photo No.: 20 **Date: 3/31/2015** **Direction Photo Taken: Southwest** **Description: Source Area 5, grassy area south of the tennis courts.**	

Site Name: Orlando Recreation Center ISRP	Site Location: 649 Bentley Street, Orlando, FL 32801
Photo No.: 21 **Date: 3/31/2015** **Direction Photo Taken: Southeast** **Description: Source Area 5, northwest corner of Kiln Building, grassy area and MW-1.**	

Site Name: Orlando Recreation Center ISRP	Site Location: 649 Bentley Street, Orlando, FL 32801
Photo No.: 22 **Date: 3/31/2015** **Direction Photo Taken: West** **Description: Source Area 5, north boundary, grassy area south of the tennis courts.**