Application No.: BN-2020-006

Exhibit "D"

Site Assessment for Folio 36-6009-006-0012 (Publix Super Markets, Inc. site)

Establishment of the
Cutler Bay Civic And Resiliency Enhancement (CARE) Zone

Brownfield Designation

A RESOLUTION OF THE MAYOR AND TOWN COUNCIL OF THE TOWN OF CUTLER BAY, FLORIDA, MAKING FINDINGS AND DESIGNATING REAL PROPERTY IDENTIFIED BY FOLIO NUMBERS 36-6009-005-0015, 36-6009-005-0010, 36-6009-006-0010, 36-6009-006-0012, and 36-6009-006-0011 AS A BROWNFIELD AREA PURSUANT TO SEC. 376.80(2)(A), FLORIDA STATUTES, FOR PURPOSES OF ENVIRONMENTAL REHABILITATION, JOB CREATION, AND ECONOMIC DEVELOPMENT; PROVIDING AUTHORIZATION; AND PROVIDING FOR AN EFFECTIVE DATE.

RECEIVED
9/18/19

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SITE ASSESSMENT REPORT
Conducted on

Proposed Publix Store No. 1465
Southeast Corner of Old Cutler Road and SW 208th Street
Cutler Bay, Miami-Dade County, Florida 33126
UES Project No. 2110.1900103.0000
UES DOCS No.

Report Date: September 17, 2019

Prepared for:

Publix Super Markets, Inc.
c/o KIC Real Estate Services
543 Islesworth Close
Tarpon Springs, Florida 34688
Attention: Mr. George Kidman

Prepared by:

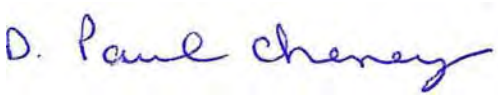
Universal Engineering Sciences, Inc.
9960 NW 116th Way, Suite 8
Miami, Florida 33178
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Prepared By:



Leigh P. Marshallsay, M.A.
Environmental Department Manager
Miami Office

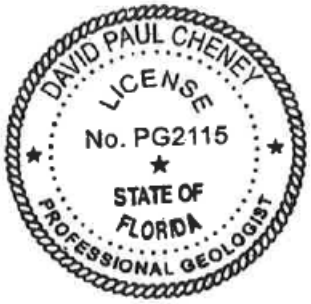
Reviewed By:



D. Paul Cheney, P.G.
Environmental Department Manager
Pensacola Office

CERTIFICATION
PROFESSIONAL ENGINEER LICENSED IN THE STATE OF FLORIDA

I, D. Paul Cheney, P.G. #2115, a full-time employee of Universal Engineering Sciences, Inc., certify that I currently hold an active license in the State of Florida and I am competent through education or experience to provide the site assessment services contained in this Site Assessment Report for the Proposed Publix Store No. 1465. As a registered professional geologist, as authorized by Chapters 492, Florida Statues, I certify that, to the best of my knowledge, the information and laboratory data summarized in this report (including the applicable attachments) are true, accurate, complete, and in my professional judgment, this report is in accordance with Florida Rules and Regulations and was prepared under my responsible charge. I certify that Universal Engineering Sciences, Inc. holds an active Board of Professional Geologists Certificate of Authorization No. GB33, to provide this service.



Consultant Name: Universal Engineering Sciences, Inc.
Certificate of Authorization No. GB33
D. Paul Cheney, P.G., for the firm

P.E. License #: 2115

Signature: D. Paul Cheney

Date: September 18, 2019

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- West Palm Beach

September 17, 2019

Mr. George Kidman
Publix Super Markets, Inc.
c/o KIC Real Estate Services
543 Islesworth Close
Tarpon Spring, Florida

Reference: **Site Assessment Report**
Proposed Publix Store No. 1465
Southeast Corner of Old Cutler Road and SW 208th Street
Cutler Bay, Miami-Dade County, Florida
UES Project No. 2110.1900103.0000
UES DOCS Number:

Dear Mr. Kidman:

On behalf of Publix Super Markets, Inc. and KIC Real Estate (the "client"), Universal Engineering Sciences, Inc. (UES) has completed this Site Assessment Report (SAR) for the above-referenced property (the "subject property"). The purpose of this assessment was to assess whether soil and groundwater has been impacted by the historical use of the subject property as an agricultural field.

Based on the soil laboratory analytical results, 20 of the 27 0.21 to 0.5-acre grids reported arsenic, lead and/or dieldrin above the applicable soil cleanup target levels (SCTLs) as established in Table 2 of Chapter 62-777 Florida Administrative Code (FAC).

Based on the shallow groundwater laboratory analytical results, it appears that the shallow aquifer is impacted by arsenic and/or iron above the applicable Groundwater Cleanup Target Levels (GCTLs) as established in Table I of Chapter 62-777 FAC or the Miami-Dade County Natural Background Concentrations (MDCNBC) for iron as defined in the Miami-Dade County Department of Environmental Resources Management Memorandum dated December 8, 2005. However, the intermediate groundwater laboratory analytical results did not report arsenic or iron above the applicable GCTLs or MDCNBC for iron.

Therefore, it is UES' opinion that the client and contractors comply with UES' Soil Management Plan dated August 19, 2019 and approved by DERM dated August 22, 2019. UES recommends that onsite drainage be discharged to a minimum depth of 20 feet below ground surface, due to the presence of iron and arsenic above applicable CTLs in the shallow aquifer.

UES appreciates this opportunity to provide environmental services to Publix Super Markets, Inc. and KIC Real Estate Services and we look forward to future endeavors. If you have any comments or questions regarding the information contained within this report or if we can be of further service, please contact the undersigned.

Respectfully submitted,
Universal Engineering Sciences, Inc.





Leigh P. Marshallsay, M.A.
Environmental Department Manager
Miami Office

D. Paul Cheney, P.G.
Environmental Department Manager
Pensacola Office

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1.0 INTRODUCTION

Universal Engineering Sciences, Inc. (UES) was retained by Publix Super Markets, Inc. and KIC Real Estate Services (the "Client") to conduct a Site Assessment Report (SAR) of the approximately 13.21-acre parcel of vacant land (the "subject property") located at the Southeast Corner of Old Cutler Road and SW 208th Street in Cutler Bay, Miami-Dade County, Florida. Please refer to the United States Geologic Survey (USGS) Topographic Map (Site Location Map) presented as Figure A-1 in **Appendix A** for further detail.

This assessment was initiated following the Miami-Dade County Department of Environmental Resources Management's (DERM's) July 3, 2019 correspondence letter. The DERM correspondence letter is included in **Appendix F.**

The field sampling activities were performed in general accordance with the Florida Department of Environmental Protection (FDEP) Standard Operating Procedures (SOPs) per Chapter 62-160 F.A.C.

2.0 LIMITING CONDITIONS AND RELIANCE

2.1 LIMITATIONS AND EXCEPTIONS

The findings of this report represent our professional judgment; UES offers or extends no warranty, expressed or implied. These findings are current with the dates of our site work and the information cited herein. The conclusions presented are based on the data provided, observations, and conditions that existed on the date of the on-site activities. This report should not be relied upon to represent property conditions on other dates or at locations other than those specifically cited within the report. UES can accept no responsibility for interpretations of these data made by other parties. This SAR was conducted in accordance with DERM's correspondence letter dated July 3, 2011, UES' Site Assessment Report Proposal dated July 11, 2019 and UES' Change Order dated August 23, 2019. The work performed was conducted in accordance with UES' General Conditions presented in **Appendix B** of this report.

In expressing the opinions stated in this report, UES has exercised the degree of skill and care ordinarily exercised by reputable and competent environmental professionals in the same area and time frame given the same facts and circumstances. Documentation and data provided by the Client or other interested parties, or from the public domain, and referred to in the preparation of this assessment, have

been used and referenced with the understanding that UES assumes no responsibility or liability for their accuracy. The information contained in this report, including its conclusions, is based on the information that was made available to UES during the investigation and upon the services described that were performed. Because the report is based on available information, some of its conclusions could be different if the information upon which it is based is determined to be false, inaccurate, or contradicted by additional information.

2.2 USER RELIANCE

This report is intended for the sole use of Publix Super Markets, Inc. and KIC Real Estate Services. Its contents may not be relied upon by other parties for any purpose without the express written consent of UES. UES is not responsible for conclusions drawn by others upon review of the enclosed report. This is not a statement of suitability of the property for any use or purpose.

3.0 SOIL QUALITY ASSESSMENT

3.1 SOIL SAMPLING AND COLLECTION METHODOLOGY

On July 29 and 30, 2019, UES supervised the advancement of 135 soil borings designated CS-1-1 to CS-1-5 through CS-27-1 to CS-27-5, utilizing direct push technology (DPT) via a truck-mounted Geoprobe® rig equipped with a Macro-Core continuous-core sampler. The Geoprobe® uses both static and dynamic percussion forces to advance sampling apparatus to retrieve core samples. The Macro-Core sampler is a solid barrel, open steel tube that is five feet long, has a diameter of 2¼-inches, and is equipped with a five-foot plastic liner for soil sample collection.

The subject property was divided into 26 0.5-acre grids and a 0.21-acre grid for the purpose of advancing soil borings at locations that would be representative of soil conditions. Five soil borings were advanced within each grid. Two composite samples consisting of soil from the five borings were collected from each grid from the 0 to 6” and 6” to 24” below ground surface (bgs) intervals, for a total of 54 composite samples. The soil borings were advanced as follows:

- Grid 1 (0.5-acre): Soil borings CS-1-1 through CS-1-5.
- Grid 2 (0.5-acre): Soil borings CS-2-1 through CS-2-5.
- Grid 3 (0.5-acre): Soil borings CS-3-1 through CS-3-5.
- Grid 4 (0.5-acre): Soil borings CS-4-1 through CS-4-5.
- Grid 5 (0.5-acre): Soil borings CS-5-1 through CS-5-5.

- Grid 6 (0.5-acre): Soil borings CS-6-1 through CS-6-5.
- Grid 7 (0.5-acre): Soil borings CS-7-1 through CS-7-5.
- Grid 8 (0.5-acre): Soil borings CS-8-1 through CS-8-5.
- Grid 9 (0.5-acre): Soil borings CS-9-1 through CS-9-5.
- Grid 10 (0.5-acre): Soil borings CS-10-1 through CS-10-5.
- Grid 11 (0.5-acre): Soil borings CS-11-1 through CS-11-5.
- Grid 12 (0.5-acre): Soil borings CS-12-1 through CS-12-5.
- Grid 13 (0.5-acre): Sol borings CS-13-1 through CS-13-5.
- Grid 14 (0.5-acre): Sol borings CS-14-1 through CS-14-5.
- Grid 15 (0.5-acre): Sol borings CS-15-1 through CS-15-5.
- Grid 16 (0.5-acre): Sol borings CS-16-1 through CS-16-5.
- Grid 17 (0.5-acre): Soil borings CS-17-1 through CS-17-5.
- Grid 18 (0.5-acre): Sol borings CS-18-1 through CS-18-5
- Grid 19 (0.5-acre): Sol borings CS-19-1 through CS-19-5.
- Grid 20 (0.5-acre): Sol borings CS-20-1 through CS-20-5.
- Grid 21 (0.5-acre): Sol borings CS-21-1 through CS-21-5.
- Grid 22 (0.5-acre): Sol borings CS-22-1 through CS-22-5.
- Grid 23 (0.5-acre): Sol borings CS-23-1 through CS-23-5.
- Grid 24 (0.5-acre): Sol borings CS-24-1 through CS-24-5.
- Grid 25 (0.5-acre): Sol borings CS-25-1 through CS-25-5.
- Grid 26 (0.5-acre): Sol borings CS-26-1 through CS-26-5.
- Grid 27 (0.21-acre): Sol borings CS-27-1 through CS-27-5.

The soils collected were classified in the field and observed for visual/olfactory impacts. The subsurface geology on the subject property was generally homogenous and example soil boring logs are included in **Appendix C** detailing UES' observations.

The soil samples were submitted to Xenco Laboratories (Xenco) in Dallas and Houston, Texas, both National Environmental Laboratory Accreditation Program (NELAP) certified laboratories, for analysis of the constituents of concern (COCs). The collected soil samples were analyzed for the following parameters:

- Arsenic, chromium, copper, iron, lead, and manganese (EPA Method 6010);
- Organochlorine pesticides (EPA Method 8081);
- Organophosphorous pesticides (EPA Method 8141); and,
- Ammonia and Nitrates (via SPLP Method).

The soil cuttings generated during the installation of the soil borings were returned to their respective borehole and generally restored to original site conditions. Sampling was performed in general accordance with FDEP's SOPs for Field Activities (DEP-SOP-001/01).

3.2 SOIL LABORATORY ANALYTICAL RESULTS

The soil laboratory analytical report did not identify the tested parameters above the laboratory method detection limits (MDLs) and/or the lower of the Leachability Based on Groundwater Criteria or Residential Direct Exposure Soil Cleanup Target Levels (SCTLs) as established in Table II of Chapter 62-777 Florida Administrative Code (F.A.C.) except for the following:

- Arsenic was reported above the residential direct exposure SCTL of 2.1 milligrams per kilogram (mg/kg) but below the commercial/industrial direct exposure SCTL of 12 mg/kg in CS-1 (6"-24"), CS-2 (0-6"), CS-4 (0-6"), CS-6 (0-6"), CS-14 (0-6"), CS-17 (6-24"), CS-18 (0-6"), CS-19 (0-6"), CS-19 (6-24"), CS-20 (0-6"), CS-20 (6-24"), CS-21 (0-6"), CS-21 (6-24"), CS-22 (6-24"), CS-23 (0-6"), CS-23 (6-24") and CS-27 (6-24").
- Arsenic was reported above the commercial/industrial direct exposure SCTL in CS-2 (6-24"), CS-3 (6-24"), CS-5 (0-6"), CS-15 (0-6"), CS-16 (0-6"), CS-17 (0-6"), CS-22 (0-6"), CS-24(0-6"), CS-24 (6-24"), CS-25 (0-6"), CS-25 (6-24"), CS-26 (0-6"), CS-26 (6-24") and CS-27 (0-6")
- Lead was reported above the residential direct exposure SCTL of 400 mg/kg but below the commercial/industrial direct exposure SCTL of 1,400 mg/kg in CS-20 (0-6").
- Lead was reported above the residential direct exposure SCTLs in CS-20 (6-24").
- Dieldrin was reported below the residential (0.06 mg/kg) and the commercial/industrial direct exposure SCTL (0.3 mg/kg) but above the leachability based on groundwater criteria (0.002 mg/kg) in CS-18 (0-6"), CS-20 (0-6"), CS-20 (6-24") and CS-27 (0-6").

A summary of the soil analytical results is presented in Table 1 in **Appendix D**. The laboratory analytical report and chain-of-custody documentation is presented in **Appendix E.**

4.0 GROUNDWATER ASSESSMENT

4.1 SHALLOW GROUNDWATER MONITORING WELL INSTALLATION

On July 30 and 31, 2019 UES supervised the installation of 12 shallow monitoring wells designated MW-1 through MW-12. The monitoring wells were installed by Earth Nurse Environmental; a Florida Licensed Water Well Contractor using DPT. Groundwater was encountered during the completion of the soil borings at approximately 3 feet bgs. The monitoring wells designated MW-1 through MW-12 were installed to a depth of 12 feet bgs. The monitoring wells consisted of 10 feet of 1-inch diameter Schedule 40 PVC, 0.010-inch slotted screen with five feet of solid PVC riser including three feet of stickup. The annulus between the well screen and the borehole sidewalls were backfilled with 20/30 quartz sand from the bottom of the well to one foot above the well screen. The filter pack seal material was 30/65 sand and was placed from one foot above the well screen to six inches bgs. The annular space above the filter pack seal was sealed with Portland cement from the top of filter pack seal to the surface.

Development to ensure adequate hydraulic connection with the aquifer was achieved by over purging the wells with a centrifugal pump until the effluent ran clear and free of suspended sediments. The monitoring well construction diagrams are included in **Appendix C**. The monitoring wells were installed in select areas agreed upon by UES and DERM via email dated July 10, 2019. The email correspondence is included in **Appendix F.** The purpose of the groundwater assessment is to ensure that storm water does not discharge to contaminated groundwater. The monitoring well locations are illustrated on the Sample Location Map provided as **Figure A-4.**

Shallow Monitoring Well Construction Details & GPS Coordinates

Boring/Well ID	Date Installed	Depth of Well/Boring (Feet BGS)	Stickup (Feet Above Grade)	Screen Interval (Feet)	Latitude	Longitude
MW-1	7/30/19	12	3	2-12	25.573458	-80.342160
MW-2	7/30/19	12	3	2-12	25.573051	-80.342805
MW-3	7/31/19	12	3	2-12	25.573096	-80.343544
MW-4	7/31/19	12	3	2-12	25.572817	-80.343313
MW-5	7/31/19	12	3	2-12	25.572941	-80.343924
MW-6*	7/31/19	12	3	2-12	25.572263	-80.343310
MW-7	7/31/19	12	3	2-12	25.572107	-80.343762
MW-8	7/31/19	12	3	2-12	25.571706	-80.344097
MW-9	7/31/19	12	3	2-12	25.571695	-80.343244
MW-10*	7/31/19	12	3	2-12	25.571685	-80.342324
MW-11	7/30/19	12	3	2-12	25.572908	-80.342345
MW-12	7/31/19	12	3	2-12	25.572555	-80.344048

*These wells were moved from their proposed location due to site conditions including muck and dense vegetation. These wells were in the general vicinity of the proposed locations.

4.2 SHALLOW GROUNDWATER SAMPLING AND COLLECTION METHODOLOGY

On August 6, 2019, UES collected groundwater samples from shallow monitoring wells MW-1 through MW-12. Prior to groundwater sampling acquisition, depth to water measurements were gauged in the wells with an electronic water level meter to determine the appropriate purge volumes for each monitoring well. Well purging was accomplished using a peristaltic pump fitted with high-density polyethylene (HDPE) tubing. The monitoring wells were purged at a low flow rate (less than 0.2 gallon per minute) while temperature, pH, conductivity, dissolved oxygen and turbidity readings were collected to ensure stabilization of groundwater chemistry prior to sample collection. Groundwater samples were

collected in accordance with FDEP's Standard Operating Procedures for Field Activities. Groundwater Sampling Logs are presented in **Appendix C**.

The groundwater samples were collected into laboratory supplied containers and placed into an ice-packed cooler and transported under proper chain-of-custody documentation to Xenco for laboratory analysis of the following parameters:

- Arsenic, chromium, copper, iron, lead and manganese by EPA Method 6010;
- Organophosphorus pesticides by EPA Method 8081;
- Organochlorine pesticides by EPA Method 8141;
- Ammonia as Nitrogen by EPA Method 350.1; and,
- Ammonia as Nitrate-Nitrite by EPA Method 353.2.

4.3 SHALLOW GROUNDWATER MONITORING WELL RESULTS

Review of the laboratory analytical report documented the tested parameters below the laboratory MDLs, the Groundwater Cleanup Target Levels (GCTLs) as defined in Chapter 62-777, F.A.C or the Miami-Dade County Background Concentration (MDCBC) for iron as described in the DERM Memorandum dated December 8, 2005 except for arsenic and iron. Arsenic was reported above the GCTL of 10 micrograms per liter (µg/L) in MW-3 (12.2 µg/L), MW-4 (17.4 µg/L), MW-9 (28.4 µg/L) and MW-10 (27.2 µg/L). Iron was reported above the MDCBC of 706 µg/L in MW-1 (751 µg/L), MW-2 (724 µg/L) and MW-4 (1,580 µg/L).

The Shallow Groundwater Quality Map is presented as **Figure A-6** (Groundwater Quality Map) and the shallow groundwater laboratory analytical results are summarized in **Table 2** presented in **Appendix D.** The groundwater laboratory analytical reports and chain-of-custody documentation is presented in **Appendix E**.

4.4 INTERMEDIATE GROUNDWATER MONITORING WELL INSTALLATION

On August 28 and 30 and September 5, 2019 UES supervised the installation of 6 intermediate depth monitoring wells designated MW-1I through MW-4I, MW-9I and MW-10I. The monitoring wells were installed by Earth Nurse Environmental using DPT. The monitoring wells ranged from a depth of 20 feet bgs to 25 feet bgs depending on site conditions (i.e. refusal). The monitoring wells consisted of 5 feet of 1-inch diameter Schedule 40 PVC, 0.010-inch slotted screen with 18 to 23 feet of solid PVC riser including three feet of stickup. The annulus between the well screen and the borehole sidewalls were backfilled with 20/30 quartz sand from the bottom of the well to one foot above the well screen. One foot of filter

pack seal material consisting of 30/65 sand was placed above the 20/30 quartz sand. The annular space above the filter pack seal was sealed with Portland cement from the top of filter pack seal to the surface.

Development was achieved by over purging the wells with a centrifugal pump until the effluent ran clear, free of sediments and to ensure adequate hydraulic connection with the aquifer. The monitoring well diagrams are included in **Appendix C**. The monitoring wells were installed within approximately 10 feet of the shallow monitoring wells that reported exceedances of arsenic and/or iron (MW-1 through MW-4, MW-9 and MW-10).

Intermediate Monitoring Well Construction Details & GPS Coordinates

Boring/Well ID	Date Installed	Depth of Well/Boring (Feet BGS)	Stickup (Feet Above Grade)	Screen Interval (Feet)	Latitude	Longitude
MW-1I	8/28/19	20	3	15-20	25.573454	-80.342195
MW-2I	8/28/19	25	3	20-25	25.573045	-80.342838
MW-3I	8/28/19	25	3	20-25	25.573094	-80.343571
MW-4I	8/30/19	23	3	18-23	25.572815	-80.343346
MW-9I	9/5/19	21	3	16-21	25.571697	-80.343273
MW-10I	8/30/19	23	3	18-23	25.571716	-80.342353

4.5 INTERMEDIATE GROUNDWATER SAMPLING AND COLLECTION METHODOLOGY

On September 6, 2019, UES collected groundwater samples from MW-1I through MW-4I, MW-9I and MW-10I. Prior to groundwater sampling acquisition, depth to water measurements were gauged in the wells with an electronic water level meter to determine the appropriate purge volumes for each monitoring well. Well purging was accomplished using a peristaltic pump fitted with HDPE tubing. The monitoring wells were purged at a low flow rate (less than 0.2 gallon per minute) while temperature, pH, conductivity, dissolved oxygen and turbidity readings were collected to ensure stabilization of groundwater chemistry prior to sample collection. Groundwater samples were collected in accordance with FDEP's SOPs for Field Activities. Groundwater Sampling Logs are presented in **Appendix C**.

The groundwater samples were collected into laboratory supplied containers and placed into an ice-packed cooler and transported under proper chain-of-custody documentation to Xenco for laboratory analysis for arsenic and iron.

4.6 INTERMEDIATE GROUNDWATER MONITORING WELL RESULTS

Review of the laboratory analytical report documented the tested parameters below the laboratory MDLs and/or GCTLs for arsenic, and the GCTL and/or MDCBC for iron.

The Intermediate Groundwater Quality Map is presented as **Figure A-7** (Groundwater Quality Map) and the intermediate groundwater laboratory analytical results are summarized in **Table 3** presented in **Appendix D.** The groundwater laboratory analytical reports and chain-of-custody documentation is presented in **Appendix E**.

4.7 GROUNDWATER ELEVATION AND FLOW DIRECTION

Water levels from monitoring wells MW-1 through MW-5 and MW-11 were used to determine the direction of groundwater movement at the top of the water table aquifer. The monitoring well top-of-casings were surveyed on August 21, 2019 to the nearest 0.01 foot. Monitoring wells MW-6 through MW-10 and MW-12 were not included in the top of casing survey due to obstructions encountered in the field including dense vegetation. The top of casings was surveyed relative to an arbitrary benchmark with an assigned elevation of 20 feet in absence of a known benchmark relative to the National Geodetic Vertical Datum (NGVD). Depth to water measurements was gauged on August 6, 2019 during groundwater sample collection using a decontaminated electric water level tape with graduations in hundredths of feet. Based upon the data collected, the groundwater gradient at the site appears to be trending to the south. Groundwater elevations and direction are illustrated on **Figure A-8.**

5.0 CONCLUSIONS

The purpose of this assessment was to determine the presence or absence of agrichemicals in onsite soils and groundwater associated with the former use of the subject property as an agricultural field.

Based on the review of the soil analytical report from this SAR, the analyzed parameters were not reported above the SCTLs except for arsenic, lead and dieldrin. Twenty (20) of the twenty-seven (27) grids were reported to exceed at least one of the residential, commercial SCTLs and/or leachability based on groundwater criteria.

Based on the review of the shallow groundwater analytical report, the analyzed parameters were not reported above the GCTLs or the MDCBC for iron except for arsenic and iron in MW-1 through MW-4, MW-9 and MW-10. Groundwater samples collected from the intermediate depth wells designated MW-1I through MW-4I, MW-9I and MW-10I did not report arsenic or iron above the applicable GCTLs or MDCBC for iron.

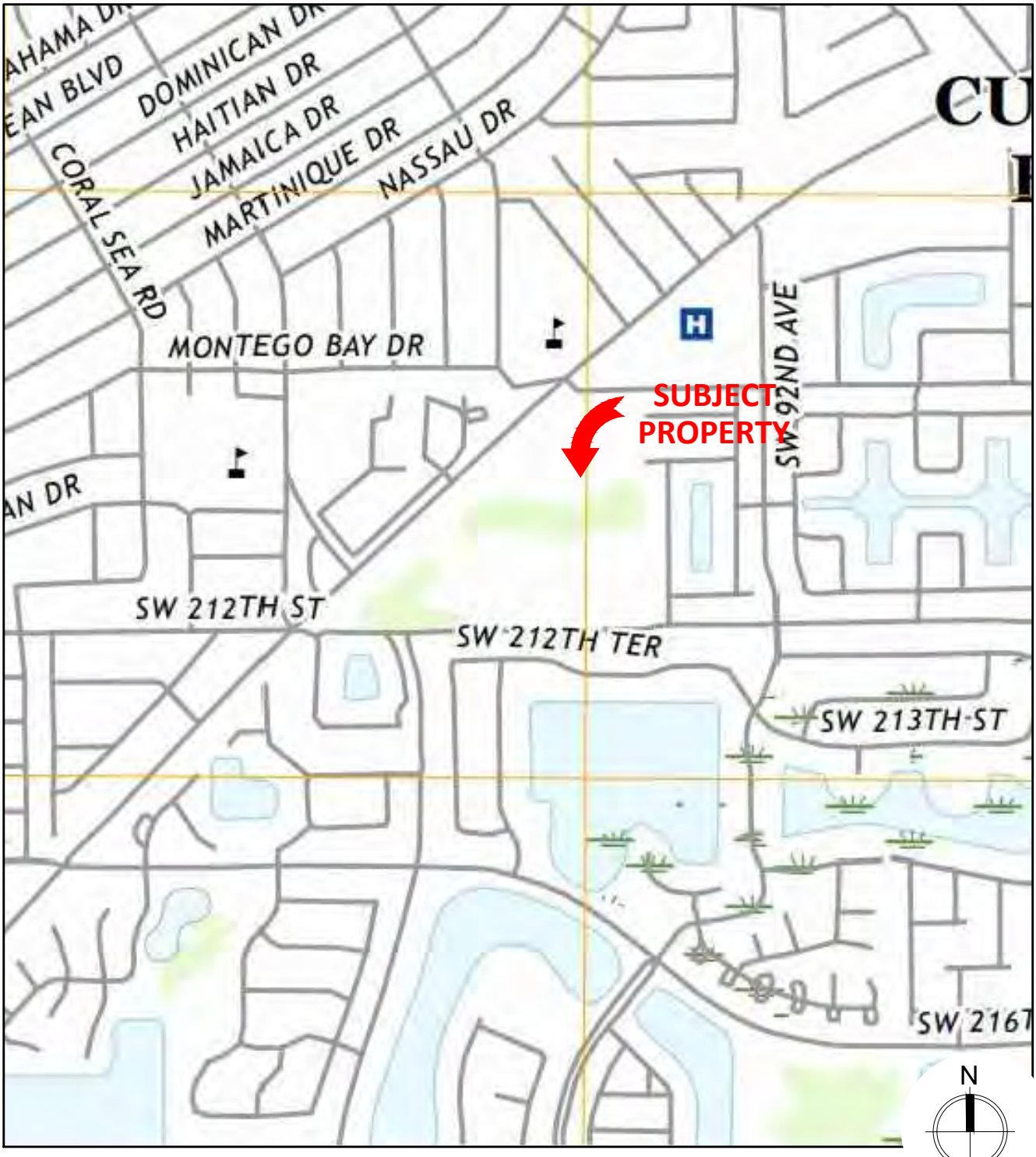
5.0 RECOMMENDATIONS

Based on the soil laboratory analytical results, it appears that select areas of the subject property has been impacted by the former agricultural use. UES recommends that the client and contractors working on the subject property comply with UES' Soil Management Plan dated August 19, 2019 and approved with Conditions by DERM dated August 22, 2019.

Based on the exceedances of iron and arsenic in six of 12 shallow monitoring wells and the lack of exceedances of iron and arsenic in the six intermediate depth monitoring wells, UES recommends that the onsite storm water be discharged to a minimum depth of 20 feet bgs. In addition, UES recommends that the shallow monitoring wells designated MW-1 through MW-4, MW-9 and MW-10 be monitored on a quarterly-basis for a year for arsenic and iron by EPA Method 6010.

APPENDIX A

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SOURCE: UNITED STATES GEOLOGICAL SURVEY, DATED 2018

UNIVERSAL ENGINEERING SCIENCES

PROPOSED PUBLIX STORE NO. 1465
SEC OF OLD CUTLER ROAD AND SW 208TH STREET CUTLER BAY
MIAMI-DADE COUNTY, FLORIDA 33189

USGS TOPOGRAPHIC MAP / SITE LOCATION MAP

DRAWN BY:	P. Saneaux	DATE:	08/19/2019	CHECKED BY:	L.Marshallsay	DATE:	08/19/2019
SCALE:	1:24,000	PROJECT NO.	2110.1900103.0000	DOCS NO.	1703503	FIGURE NO.	A-1

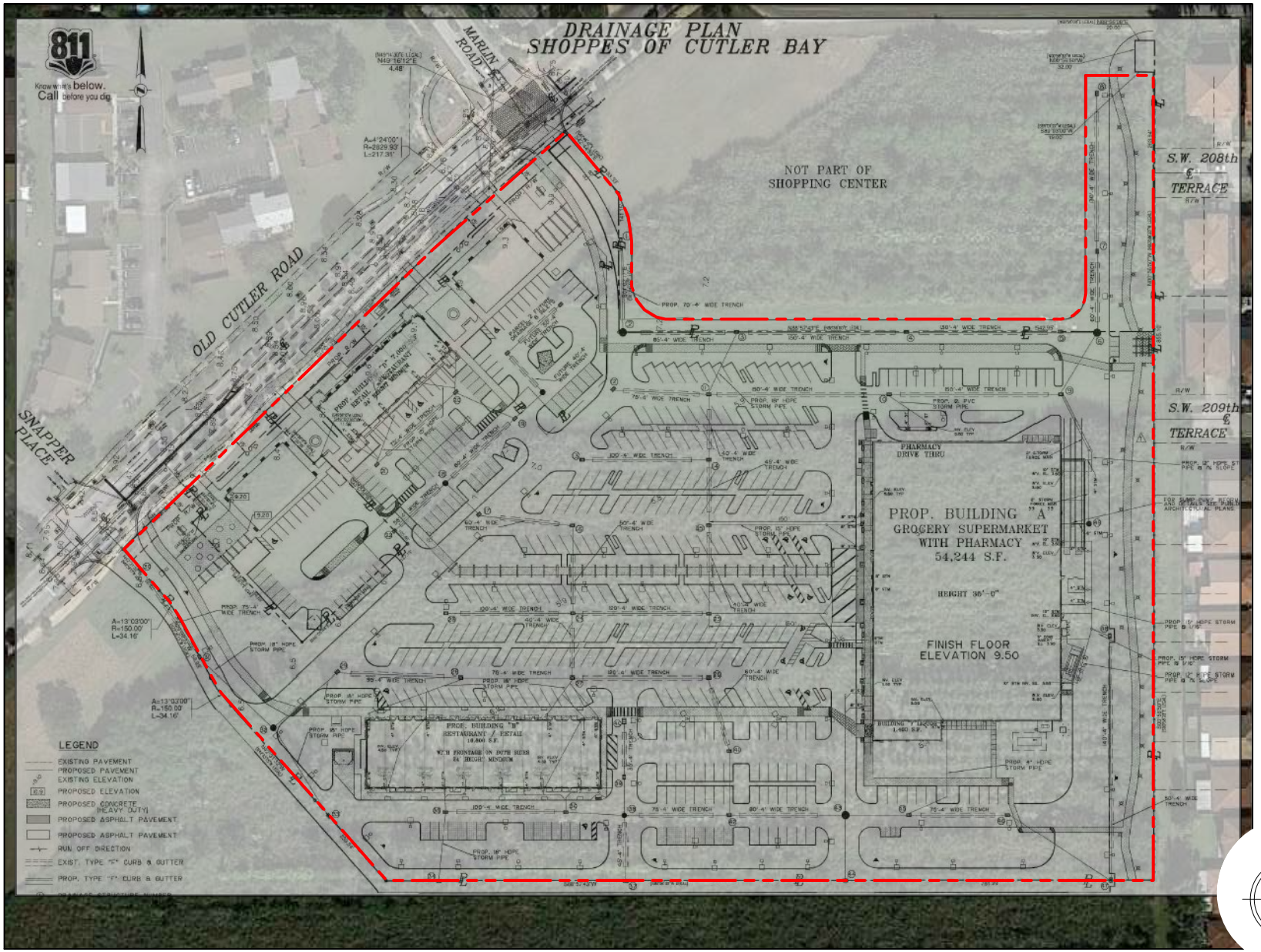


UNIVERSAL ENGINEERING SCIENCES

PROPOSED PUBLIX STORE NO. 1465
SEC OF OLD CUTLER ROAD & SW 208 STREET
CUTLER BAY, MIAMI-DADE COUNTY, FL 33189

2018 AERIAL PHOTOGRAPH / SITE LOCATION MAP

DRAWN BY:	P. SANEAUX	DATE:	8/19/2019	CHECKED BY:	L. Marshallsay	DATE:	8/19/2019
SCALE:	1" = 140'	PROJECT NO.	2110.1900103.0000	DOCs NO.	1703503	FIGURE NO.	A-2

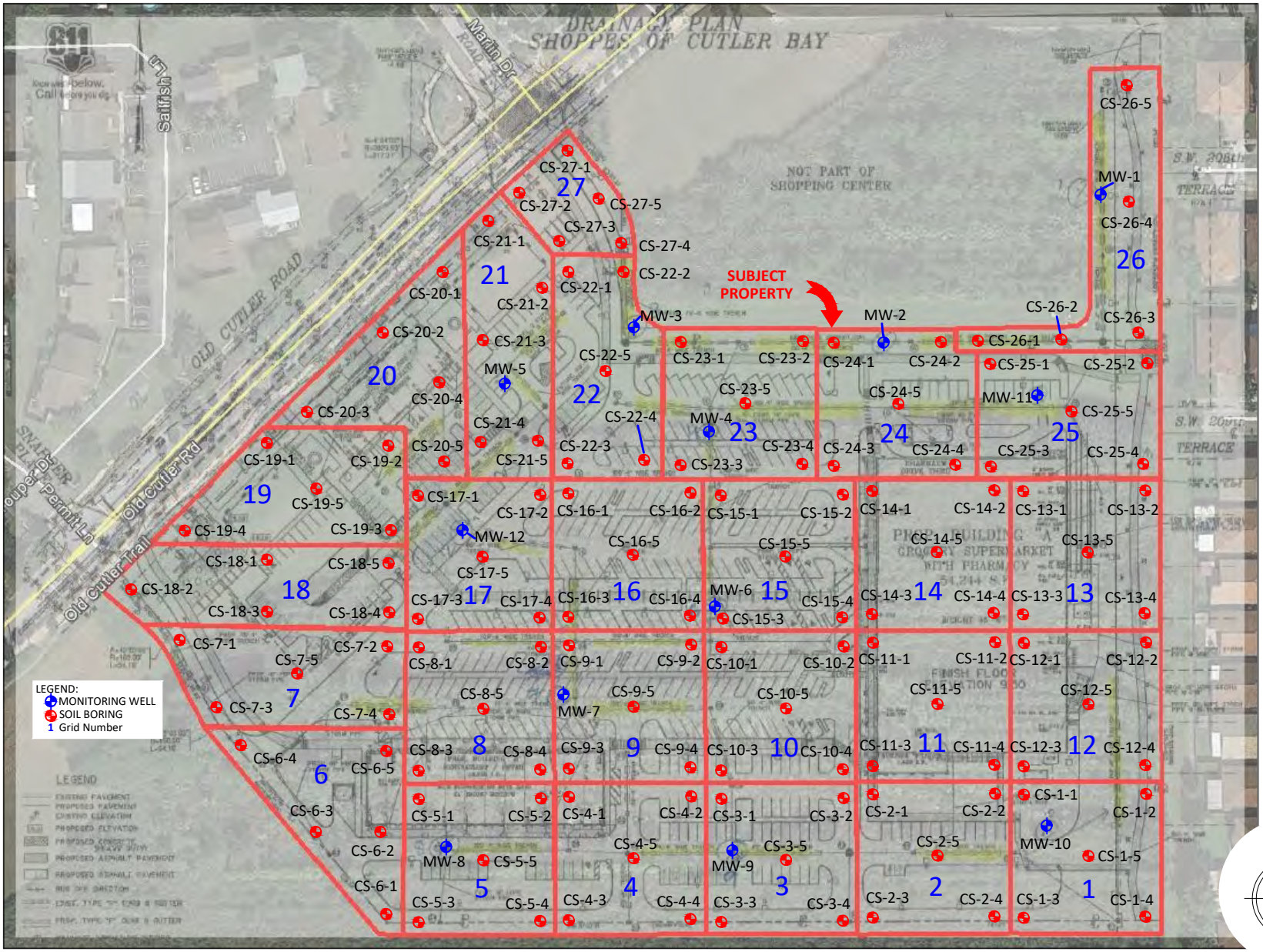


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PROPOSED PUBLIX STORE NO. 1465
SEC OF OLD CUTLER ROAD & SW 208 STREET
CUTLER BAY, MIAMI-DADE COUNTY, FL 33189

PROPOSED PUBLIX STORE NO. 1465 SITE PLAN

DRAWN BY:	P. SANEAUX	DATE:	8/19/2019	CHECKED BY:	L. Marshallsay	DATE:	8/19/2019
SCALE:	1" = 140'	PROJECT NO.	2110.1900103.0000	DOCs NO.	1703503	FIGURE NO.	A-3

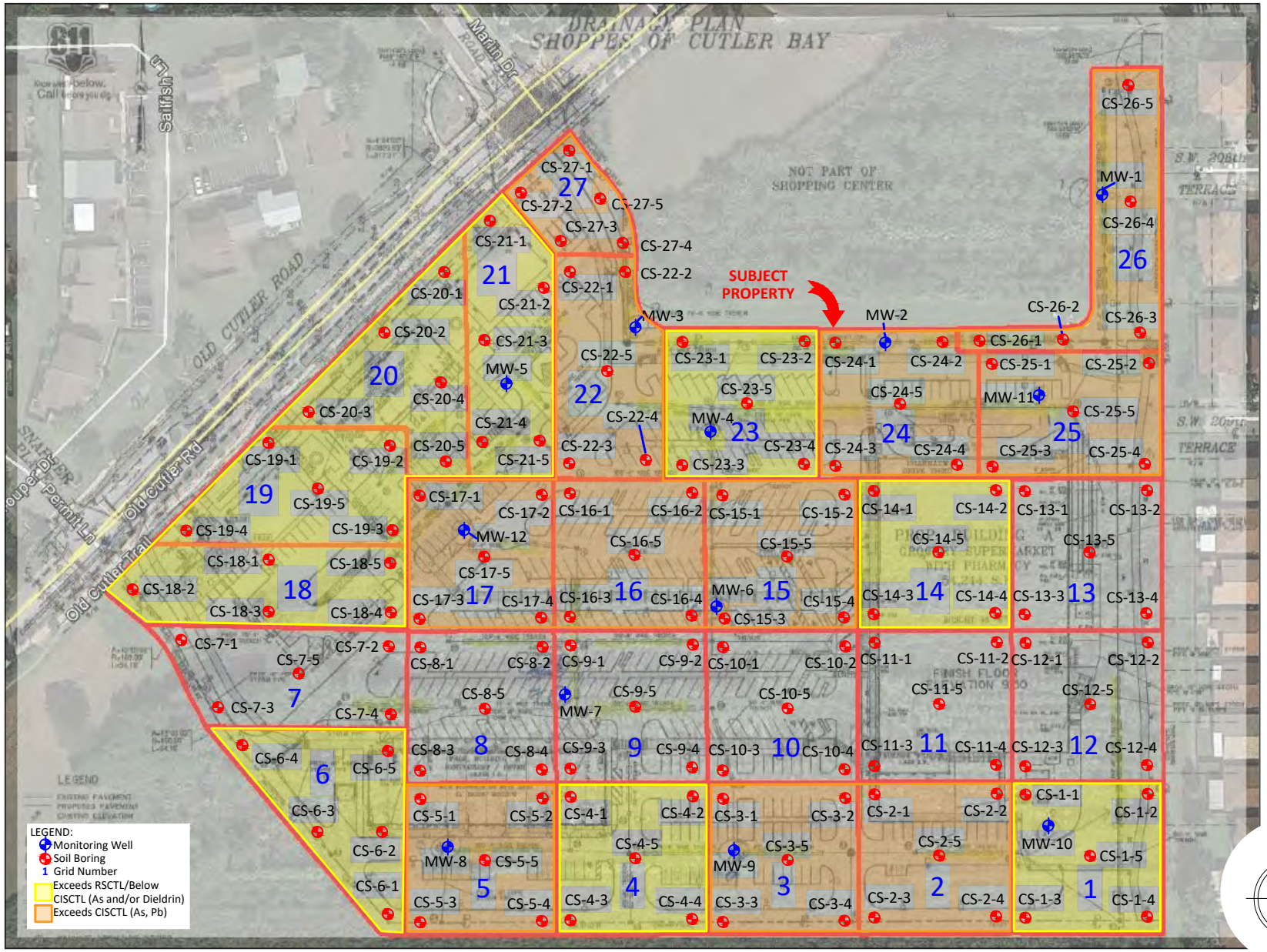


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PROPOSED PUBLIX STORE NO. 1465
SEC OF OLD CUTLER ROAD & SW 208 STREET
CUTLER BAY, MIAMI-DADE COUNTY, FL 33189

SAMPLE LOCATION MAP / SITE ASSESSMENT REPORT

DRAWN BY:	P. SANEAUX	DATE:	8/19/2019	CHECKED BY:	L. Marshallsay	DATE:	8/19/2019
SCALE:	1" = 140'	PROJECT NO.	2110.1900103.0000	DOCs NO.	1703503	FIGURE NO.	A-4

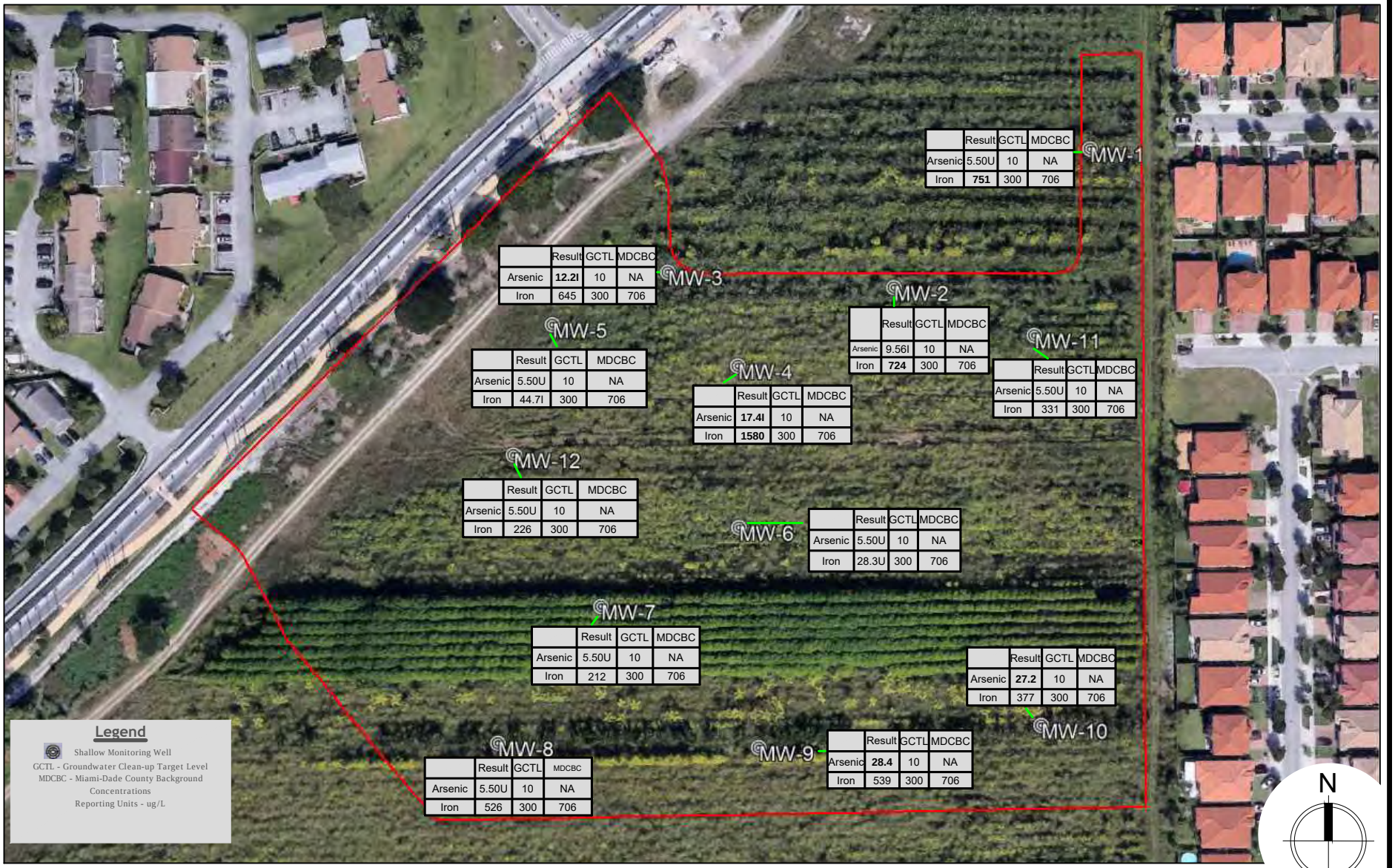


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PROPOSED PUBLIX STORE NO. 1465
SOUTHEAST SIDE OF OLD CUTLER ROAD & SW 208 STREET
CUTLER BAY, MIAMI-DADE COUNTY, FL

Sample Quality Map / Site Assessment Report

DRAWN BY:	P. Saneaux	DATE:	8/19/2019	CHECKED BY:	L. Marshallsay	DATE:	8/19/2019
SCALE:	1" = 140'	PROJECT NO.	2140.1900103.0000	DOCs NO.	1703503	FIGURE NO.	A-5

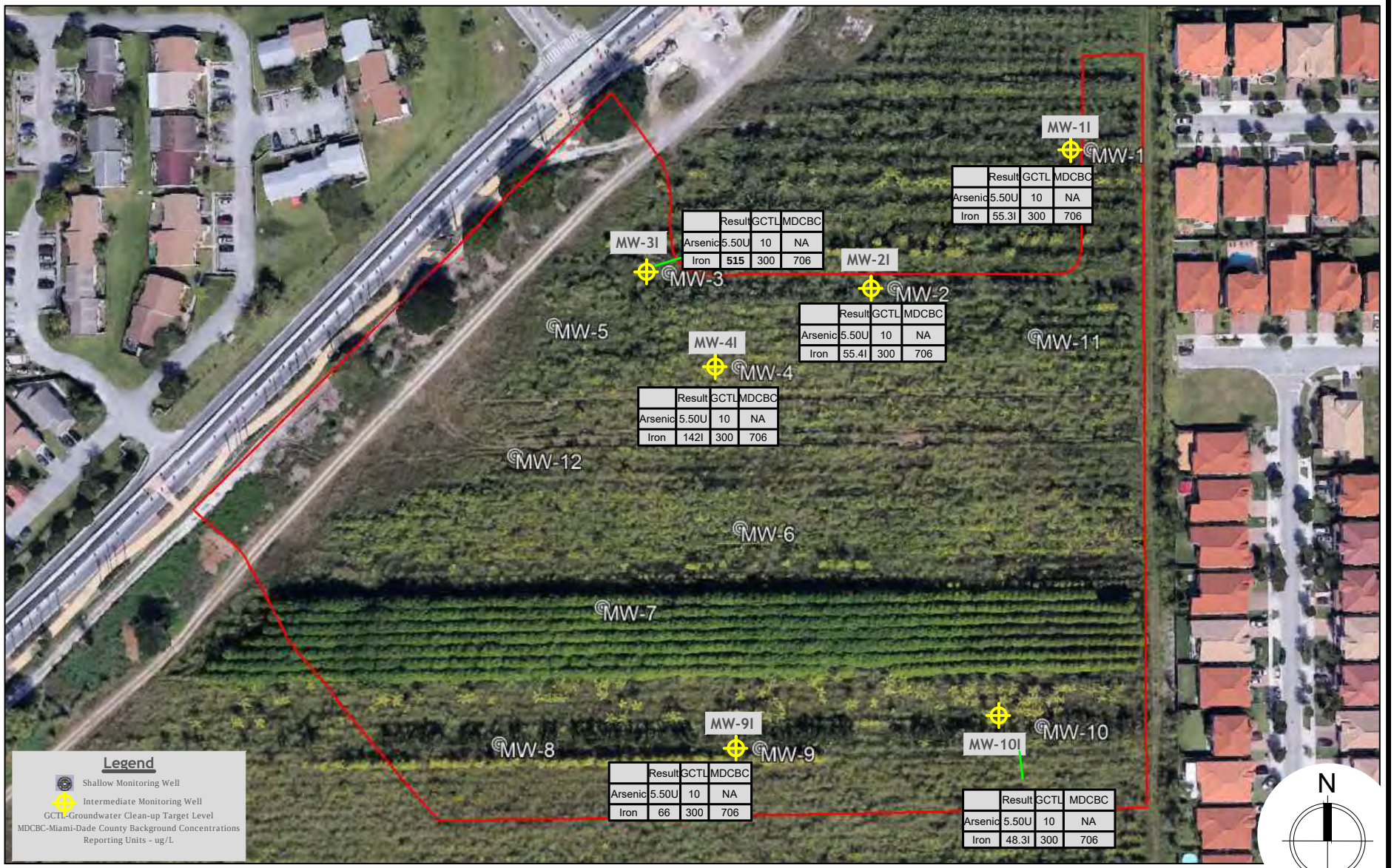


UNIVERSAL ENGINEERING SCIENCES

PROPOSED PUBLIX - CUTLER BAY
SOUTH SIDE OF OLD CUTLER ROAD & SW 208 STREET
CUTLER BAY, MIAMI-DADE COUNTY, FL

SHALLOW GROUNDWATER QUALITY MAP/2018 AERIAL PHOTOGRAPH

DRAWN BY:	D. Infante	DATE:	09/16/2019	CHECKED BY:	L. Marshallsay	DATE:	09/16/2019
SCALE:	1" = 160'	PROJECT NO.	2110.1900103.0000	DOCs NO.		FIGURE NO.	A-6

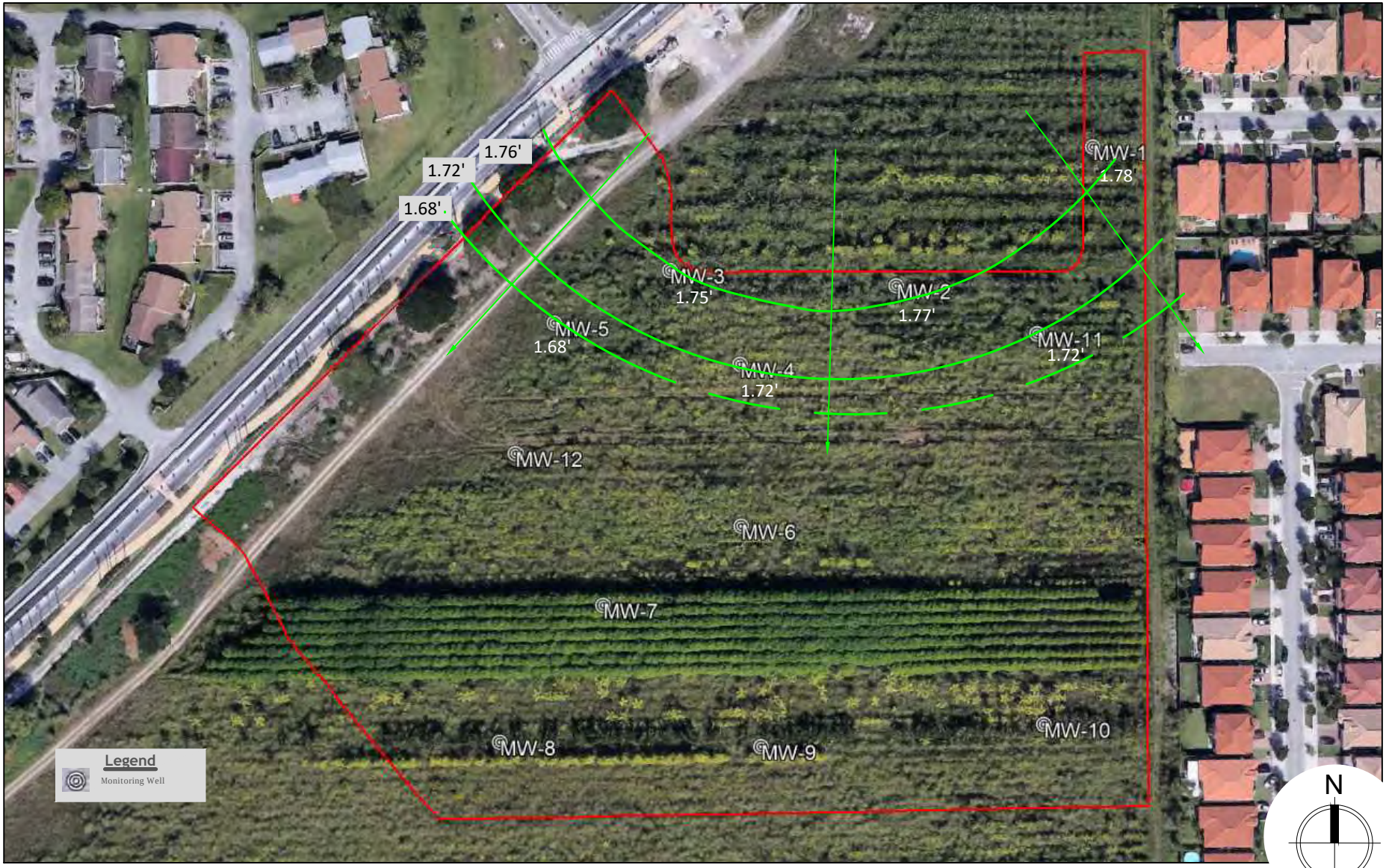


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PROPOSED PUBLIX - CUTLER BAY
SOUTH SIDE OF OLD CUTLER ROAD & SW 208 STREET
CUTLER BAY, MIAMI-DADE COUNTY, FL

INTERMEDIATE GROUNDWATER QUALITY MAP/2018 AERIAL PHOTOGRAPH

DRAWN BY:	D. Infante	DATE:	09/16/2019	CHECKED BY:	L. Marshallsay	DATE:	09/16/2019
SCALE:	1" = 160'	PROJECT NO.	2110.1900103.0000	DOCs NO.		FIGURE NO.	A-7



UNIVERSAL ENGINEERING SCIENCES

PROPOSED PUBLIX - CUTLER BAY
SOUTH SIDE OF OLD CUTLER ROAD & SW 208 STREET
CUTLER BAY, MIAMI-DADE COUNTY, FL

SHALLOW GROUNDWATER ELEVATION MAP/2018 AERIAL

DRAWN BY:	D. Infante	DATE:	09/16/2019	CHECKED BY:	L. Marshallsay	DATE:	09/16/2019
SCALE:	1" = 160'	PROJECT NO.	2110.1900103.0000	DOCs NO.		FIGURE NO.	A-8

APPENDIX B

UNIVERSAL
ENGINEERING SCIENCES

Universal Engineering Sciences, Inc.
GENERAL CONDITIONS

SECTION 1: RESPONSIBILITIES

1.1 *Universal Engineering Sciences, Inc.*, ("UES"), has the responsibility for providing the services described under the Scope of Services section. The work is to be performed according to accepted standards of care and is to be completed in a timely manner. The term "UES" as used herein includes all of *Universal Engineering Sciences, Inc's* agents, employees, professional staff, and subcontractors.

1.2 The Client or a duly authorized representative is responsible for providing UES with a clear understanding of the project nature and scope. The Client shall supply UES with sufficient and adequate information, including, but not limited to, maps, site plans, reports, surveys and designs, to allow UES to properly complete the specified services. The Client shall also communicate changes in the nature and scope of the project as soon as possible during performance of the work so that the changes can be incorporated into the work product.

1.3 The Client acknowledges that UES's responsibilities in providing the services described under the Scope of Services section is limited to those services described therein, and the Client hereby assumes any collateral or affiliated duties necessitated by or for those services. Such duties may include, but are not limited to, reporting requirements imposed by any third party such as federal, state, or local entities, the provision of any required notices to any third party, or the securing of necessary permits or permissions from any third parties required for UES's provision of the services so described, unless otherwise agreed upon by both parties.

1.4 Universal will not be responsible for scheduling our services and will not be responsible for tests or inspections that are not performed due to a failure to schedule our services on the project or any resulting damages.

1.5 **PURSUANT TO FLORIDA STATUTES §558.0035, ANY INDIVIDUAL EMPLOYEE OR AGENT OF UES MAY NOT BE HELD INDIVIDUALLY LIABLE FOR NEGLIGENCE.**

SECTION 2: STANDARD OF CARE

2.1 Services performed by UES under this Agreement will be conducted in a manner consistent with the level of care and skill ordinarily exercised by members of UES's profession practicing contemporaneously under similar conditions in the locality of the project. No other warranty, express or implied, is made.

2.2 The Client recognizes that subsurface conditions may vary from those observed at locations where borings, surveys, or other explorations are made, and that site conditions may change with time. Data, interpretations, and recommendations by UES will be based solely on information available to UES at the time of service. UES is responsible for those data, interpretations, and recommendations, but will not be responsible for other parties' interpretations or use of the information developed.

2.3 Execution of this document by UES is not a representation that UES has visited the site, become generally familiar with local conditions under which the services are to be performed, or correlated personal observations with the requirements of the Scope of Services. It is the Client's responsibility to provide UES with all information necessary for UES to provide the services described under the Scope of Services, and the Client assumes all liability for information not provided to UES that may affect the quality or sufficiency of the services so described.

2.4 Should UES be retained to provide threshold inspection services under Florida Statutes §553.79, Client acknowledges that UES's services thereunder do not constitute a guarantee that the construction in question has been properly designed or constructed, and UES's services do not replace any of the obligations or liabilities associated with any architect, contractor, or structural engineer. Therefore it is explicitly agreed that the Client will not hold UES responsible for the proper performance of service by any architect, contractor, structural engineer or any other entity associated with the project.

SECTION 3: SITE ACCESS AND SITE CONDITIONS

3.1 Client will grant or obtain free access to the site for all equipment and personnel necessary for UES to perform the work set forth in this Agreement. The Client will notify any and all possessors of the project site that Client has granted UES free access to the site. UES will take reasonable precautions to minimize damage to the site, but it is understood by Client that, in the normal course of work, some damage may occur, and the correction of such damage is not part of this Agreement unless so specified in the Proposal.

3.2 The Client is responsible for the accuracy of locations for all subterranean structures and utilities. UES will take reasonable precautions to avoid known subterranean structures, and the Client waives any claim against UES, and agrees to defend, indemnify, and hold UES harmless from any claim or liability for injury or loss, including costs of defense, arising from damage done to subterranean structures and utilities not identified or accurately located. In addition, Client agrees to compensate UES for any time spent or expenses incurred by UES in defense of any such claim with compensation to be based upon UES's prevailing fee schedule and expense reimbursement policy.

SECTION 4: SAMPLE OWNERSHIP AND DISPOSAL

4.1 Soil or water samples obtained from the project during performance of the work shall remain the property of the Client.

4.2 UES will dispose of or return to Client all remaining soils and rock samples 60 days after submission of report covering those samples. Further storage or transfer of samples can be made at Client's expense upon Client's prior written request.

4.3 Samples which are contaminated by petroleum products or other chemical waste will be returned to Client for treatment or disposal, consistent with all appropriate federal, state, or local regulations.

SECTION 5: BILLING AND PAYMENT

5.1 UES will submit invoices to Client monthly or upon completion of services. Invoices will show charges for different personnel and expense classifications.

5.2 Payment is due 30 days after presentation of invoice and is past due 31 days from invoice date. Client agrees to pay a finance charge of one and one-half percent (1 ½ %) per month, or the maximum rate allowed by law, on past due accounts.

5.3 If UES incurs any expenses to collect overdue billings on invoices, the sums paid by UES for reasonable attorneys' fees, court costs, UES's time, UES's expenses, and interest will be due and owing by the Client.

SECTION 6: OWNERSHIP AND USE OF DOCUMENTS

6.1 All reports, boring logs, field data, field notes, laboratory test data, calculations, estimates, and other documents prepared by UES, as instruments of service, shall remain the property of UES.

6.2 Client agrees that all reports and other work furnished to the Client or his agents, which are not paid for, will be returned upon demand and will not be used by the Client for any purpose.

6.3 UES will retain all pertinent records relating to the services performed for a period of five years following submission of the report, during which period the records will be made available to the Client at all reasonable times.

6.4 All reports, boring logs, field data, field notes, laboratory test data, calculations, estimates, and other documents prepared by UES, are prepared for the sole and exclusive use of Client, and may not be given to any other party or used or relied upon by any such party without the express written consent of UES.

SECTION 7: DISCOVERY OF UNANTICIPATED HAZARDOUS MATERIALS

7.1 Client warrants that a reasonable effort has been made to inform UES of known or suspected hazardous materials on or near the project site.

7.2 Under this agreement, the term hazardous materials include hazardous materials (40 CFR 172.01), hazardous wastes (40 CFR 261.2), hazardous substances (40 CFR 300.6), petroleum products, polychlorinated biphenyls, and asbestos.

7.3 Hazardous materials may exist at a site where there is no reason to believe they could or should be present. UES and Client agree that the discovery of unanticipated hazardous materials constitutes a changed condition mandating a renegotiation of the scope of work. UES and Client also agree that the discovery of unanticipated hazardous materials may make it necessary for UES to take immediate measures to protect health and safety. Client agrees to compensate UES for any equipment decontamination or other costs incident to the discovery of unanticipated hazardous waste.

7.4 UES agrees to notify Client when unanticipated hazardous materials or suspected hazardous materials are encountered. Client agrees to make any disclosures required by law to the appropriate governing agencies. Client also agrees to hold UES harmless for any and all consequences of disclosures made by UES which are required by governing law. In the event the project site is not owned by Client, Client recognizes that it is the Client's responsibility to inform the property owner of the discovery of unanticipated hazardous materials or suspected hazardous materials.

7.5 Notwithstanding any other provision of the Agreement, Client waives any claim against UES, and to the maximum extent permitted by law, agrees to defend, indemnify, and save UES harmless from any claim, liability, and/or defense costs for injury or loss arising from UES's discovery of unanticipated hazardous materials or suspected hazardous materials including any costs created by delay of the project and any cost associated with possible reduction of the property's value. Client will be responsible for ultimate disposal of any samples secured by UES which are found to be contaminated.

SECTION 8: RISK ALLOCATION

8.1 Client agrees that UES's liability for any damage on account of any breach of contract, error, omission or other professional negligence will be limited to a sum not to exceed $50,000 or UES's fee, whichever is greater. If Client prefers to have higher limits on contractual or professional liability, UES agrees to increase the limits up to a maximum of $1,000,000.00 upon Client's written request at the time of accepting our proposal provided that Client agrees to pay an additional consideration of four percent of the total fee, or $400.00, whichever is greater. The additional charge for the higher liability limits is because of the greater risk assumed and is not strictly a charge for additional professional liability insurance.

SECTION 9: INSURANCE

9.1 UES represents and warrants that it and its agents, staff and consultants employed by it, is and are protected by worker's compensation insurance and that UES has such coverage under public liability and property damage insurance policies which UES deems to be adequate. Certificates for all such policies of insurance shall be provided to Client upon request in writing. Within the limits and conditions of such insurance, UES agrees to indemnify and save Client harmless from and against loss, damage, or liability arising from negligent acts by UES, its agents, staff, and consultants employed by it. UES shall not be responsible for any loss, damage or liability beyond the amounts, limits, and conditions of such insurance or the limits described in Section 8, whichever is less. The Client agrees to defend, indemnify and save UES harmless for loss, damage or liability arising from acts by Client, Client's agent, staff, and other UESs employed by Client.

SECTION 10: DISPUTE RESOLUTION

10.1 All claims, disputes, and other matters in controversy between UES and Client arising out of or in any way related to this Agreement will be submitted to alternative dispute resolution (ADR) such as mediation or arbitration, before and as a condition precedent to other remedies provided by law, including the commencement of litigation.

10.2 If a dispute arises related to the services provided under this Agreement and that dispute requires litigation instead of ADR as provided above, then:

(a) the claim will be brought and tried in judicial jurisdiction of the court of the county where UES's principal place of business is located and Client waives the right to remove the action to any other county or judicial jurisdiction, and

(b) The prevailing party will be entitled to recovery of all reasonable costs incurred, including staff time, court costs, attorneys' fees, and other claim related expenses.

SECTION 11: TERMINATION

11.1 This agreement may be terminated by either party upon seven (7) days written notice in the event of substantial failure by the other party to perform in accordance with the terms hereof. Such termination shall not be effective if that substantial failure has been remedied before expiration of the period specified in the written notice. In the event of termination, UES shall be paid for services performed to the termination notice date plus reasonable termination expenses.

11.2 In the event of termination, or suspension for more than three (3) months, prior to completion of all reports contemplated by the Agreement, UES may complete such analyses and records as are necessary to complete its files and may also complete a report on the services performed to the date of notice of termination or suspension. The expense of termination or suspension shall include all direct costs of UES in completing such analyses, records and reports.

SECTION 12: ASSIGNS

12.1 Neither the Client nor UES may delegate, assign, sublet or transfer their duties or interest in this Agreement without the written consent of the other party.

SECTION 13. GOVERNING LAW AND SURVIVAL

13.1 The laws of the State of Florida will govern the validity of these Terms, their interpretation and performance.

13.2 If any of the provisions contained in this Agreement are held illegal, invalid, or unenforceable, the enforceability of the remaining provisions will not be impaired. Limitations of liability and indemnities will survive termination of this Agreement for any cause.

SECTION 14. INTEGRATION CLAUSE

14.1 This Agreement represents and contains the entire and only agreement and understanding among the parties with respect to the subject matter of this Agreement, and supersedes any and all prior and contemporaneous oral and written agreements, understandings, representations, inducements, promises, warranties, and conditions among the parties. No agreement, understanding, representation, inducement, promise, warranty, or condition of any kind with respect to the subject matter of this Agreement shall be relied upon by the parties unless expressly incorporated herein.

14.2 This Agreement may not be amended or modified except by an agreement in writing signed by the party against whom the enforcement of any modification or amendment is sought.

Boring/Well Number:	Permit Number:	FDEP Facility Identification Number:
CS-1-1		

Site Name:	Borehole Start Date: 07/29/19	Borehole Start Time: 9:00 ☑ AM ☐ PM
Proposed Publix	End Date: 07/29/19	End Time: 9:06 ☑ AM ☐ PM

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
Universal Engineering Sciences	Leigh Marshallsay	Daniel Infante

Drilling Company:	Pavement Thickness (inches):	Borehole Diameter (inches):	Borehole Depth (feet):
Earth Nurse	N/A	3.25	2

Drilling Method(s):	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):
Geoprobe DPT	3	N/A	MiniRae 3000 ☐ FID ☐ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☑ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☑ Backfill ☐ 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)
DP	0-2						1	Brown, fine sand to silt with vegetation	SP	D	
							2	Brown, fine sand to silt with vegetation	SP	D	
							3				
							4				
							5				
							6				
							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/Well Number:	Permit Number:	FDEP Facility Identification Number:
MW-1		

Site Name:	Borehole Start Date: 07/31/19	Borehole Start Time: 8:30 ☑ AM ☐ PM
Proposed Publix	End Date: 07/31/19	End Time: 8:45 ☑ AM ☐ PM

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
Universal Engineering Sciences	Leigh Marshallsay	Daniel Infante

Drilling Company:	Pavement Thickness (inches):	Borehole Diameter (inches):	Borehole Depth (feet):
Earth Nurse	N/A	3.25	12

Drilling Method(s):	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):
Geoprobe DPT	3	N/A	MiniRae 3000 ☐ FID ☐ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☑ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☑ Well ☐ Grout ☐ Bentonite ☐ Backfill ☐ 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)
DP	0-2						1	Brown, fine sand to silt with vegetation	SP	D	
							2	Brown, fine sand to silt with vegetation	SP	D	
DP	2-4						3	Tan Sandy Limestone	LS	M	
							4	White Sandy Limestone	LS	W	
DP	4-6						5	White Sandy Limestone	LS	W	
							6	White Sandy Limestone	LS	W	
DP	6-8						7	White Sandy Limestone	LS	S	
							8	White Sandy Limestone	LS	S	
DP	8-10						9	White Sandy Limestone	LS	S	
							10	White Sandy Limestone	LS	S	
DP	10-12						11	White Sandy Limestone	LS	S	
							12	White Sandy Limestone	LS	S	

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

Florida Department of Environmental Protection - Division of Waste Management - Bureau of Petroleum Storage Systems

BORING LOG

Boring/Well Number: SB-1I	Permit Number:	FDEP Facility Identification Number:
Site Name: Proposed Publix	Borehole Start Date: 08/28/19 End Date: 08/28/19	Borehole Start Time: 16:32 ☐ AM ☑ PM End Time: 16:52 ☐ AM ☑ PM
Environmental Contractor: Universal Engineering Sciences	Geologist's Name: Leigh Marshallsay	Environmental Technician's Name: Daniel Infante

Drilling Company: Earth Nurse	Pavement Thickness (inches): N/A	Borehole Diameter (inches): 3.25	Borehole Depth (feet): 20
Drilling Method(s): Geoprobe DPT	Apparent Borehole DTW (in feet from soil moisture content): 3	Measured Well DTW (in feet after water recharges in well): N/A	OVA (list model and check type): MiniRae 3000 ☐ FID ☐ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☑ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☑ Well ☐ Grout ☐ Bentonite ☐ Backfill ☐ 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)
DP	0-2						1	Brown fine sand and silt with vegetation	SP	D	
							2	Brown fine sand and silt with vegetation	SP	D	
DP	2-4						3	Tan, sandy limestone (2'-2.5')	LS	D-M	
							4	White, sandy limestone	LS	M-W	
DP	4-6						5	White, sandy limestone	LS	W	
							6	White, sandy limestone	LS	W	
DP	6-8						7	White, sandy limestone	LS	W	
							8	White, sandy limestone	LS	W	
	8-10						9	White, sandy limestone	LS	W	
							10	White, sandy limestone	LS	W	
	10-12						11	White, sandy limestone	LS	W	
							12	White, sandy limestone	LS	W	

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

Florida Department of Environmental Protection - Division of Waste Management - Bureau of Petroleum Storage Systems

BORING LOG

Boring/Well Number: SB-1I	Permit Number:	FDEP Facility Identification Number:
Site Name: Proposed Publix	Borehole Start Date: 08/28/19 End Date: 08/28/19	Borehole Start Time: 16:32 ☐ AM ☑ PM End Time: 16:52 ☐ AM ☑ PM
Environmental Contractor: Universal Engineering Sciences	Geologist's Name: Leigh Marshallsay	Environmental Technician's Name: Daniel Infante

Drilling Company: Earth Nurse	Pavement Thickness (inches): N/A	Borehole Diameter (inches): 3.25	Borehole Depth (feet): 20
Drilling Method(s): Geoprobe DPT	Apparent Borehole DTW (in feet from soil moisture content): 3	Measured Well DTW (in feet after water recharges in well): N/A	OVA (list model and check type): MiniRae 3000 ☐ FID ☐ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☑ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☑ Well ☐ Grout ☐ Bentonite ☐ Backfill ☐ 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)
DP	12-14						1	White, sandy limestone	SP	D	
							2	White, sandy limestone	SP	D	
DP	14-16						3	White, sandy limestone	LS	D-M	
							4	White, sandy limestone	LS	M-W	
DP	16-18						5	White, sandy limestone	LS	W	
							6	White, sandy limestone	LS	W	
DP	18-20						7	White to beige shelly and compacted limestone	LS	W	SB-1I (18'-20')
							8	Boring terminated at 20. Borehole finished with well.	LS	W	
							9		LS	W	
							10		LS	W	
							11		LS	W	
							12		LS	W	

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

Florida Department of Environmental Protection - Division of Waste Management - Bureau of Petroleum Storage Systems

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA

Well Number: MW-1	Site Name: Proposed Publix	FDEP Facility I.D. Number:	Well Install Date(s): 7/30/19

Well Location and Type (check appropriate boxes): ☑ On-Site ☐ Right-of-Way ☐ Off-Site Private Property ☑ Above Grade (AG) ☐ Flush-to-Grade

If AG, list feet of riser above land surface: 3

Well Purpose: ☐ Perched Monitoring ☑ Shallow (Water-Table) Monitoring ☐ Intermediate or Deep Monitoring ☐ Remediation or Other (describe)

Well Install Method: DPT

Surface Casing Install Method:

Borehole Depth (feet): 12	Well Depth (feet): 12	Borehole Diameter (inches): 3.25	Manhole Diameter (inches):	Well Pad Size: ____ feet by ____ feet

Riser Diameter and Material: DC 1" Sch 40 PVC	Riser/Screen Connections: ☑ Flush-Threaded ☐ Other (describe)	Riser Length: 5 feet from 3 AGS feet to 2 feet
Screen Diameter and Material: DC 1" Sch 40 PVC	Screen Slot Size: 0.010	Screen Length: 10 feet from 2 feet to 12 feet
1st Surface Casing Material: also check: ☐ Permanent ☐ Temporary	1st Surface Casing I.D. (inches):	1st Surface Casing Length: ____ feet from 0 feet to ____ feet
2nd Surface Casing Material: also check: ☐ Permanent ☐ Temporary	2nd Surface Casing I.D. (inches):	2nd Surface Casing Length: ____ feet from 0 feet to ____ feet
3rd Surface Casing Material: also check: ☐ Permanent ☐ Temporary	3rd Surface Casing I.D. (inches):	3rd Surface Casing Length: ____ feet from 0 feet to ____ feet
Filter Pack Material and Size: 20/30 Quartz Sand	Prepacked Filter Around Screen (check one): ☐ Yes ☑ No	Filter Pack Length: 11 feet from 1 feet to 12 feet
Filter Pack Seal Material and Size: 30/65 Quartz Sand		Filter Pack Seal Length: 0.5 feet from 0.5 feet to 1 feet
Surface Seal Material: Portland Cement		Surface Seal Length: 0.5 feet from 0 feet to 0.5 feet

WELL DEVELOPMENT DATA

Well Development Date: 7/30/19	Well Development Method (check one): ☐ Surge/Pump ☑ Pump ☐ Compressed Air ☐ Other (describe)		
Development Pump Type (check): ☑ Centrifugal ☐ Peristaltic ☐ Submersible ☐ Other (describe)		Depth to Groundwater (before developing in feet): 3	
Pumping Rate (gallons per minute): 1	Maximum Drawdown of Groundwater During Development (feet): 0	Well Purged Dry (check one): ☐ Yes ☑ No	
Pumping Condition (check one): ☑ Continuous ☐ Intermittent	Total Development Water Removed (gallons): 30	Development Duration (minutes): 30	Development Water Drummed (check one): ☐ Yes ☑ No
Water Appearance (color and odor) At Start of Development: Brown, no odor		Water Appearance (color and odor) At End of Development: clear, no odor	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

Florida Department of Environmental Protection - Division of Waste Management - Bureau of Petroleum Storage Systems

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA

Well Number: MW-2	Site Name: Proposed Publix	FDEP Facility I.D. Number:	Well Install Date(s): 7/30/19

Well Location and Type (check appropriate boxes): ☑ On-Site ☐ Right-of-Way ☐ Off-Site Private Property ☑ Above Grade (AG) ☐ Flush-to-Grade

If AG, list feet of riser above land surface: 3

Well Purpose: ☐ Perched Monitoring ☑ Shallow (Water-Table) Monitoring ☐ Intermediate or Deep Monitoring ☐ Remediation or Other (describe)

Well Install Method: DPT

Surface Casing Install Method:

Borehole Depth (feet): 12	Well Depth (feet): 12	Borehole Diameter (inches): 3.25	Manhole Diameter (inches):

Well Pad Size: ____ feet by ____ feet

Riser Diameter and Material: 2" Sch 40 PVC

Riser/Screen Connections: ☑ Flush-Threaded ☐ Other (describe)

Riser Length: 5 feet from 3.46 feet to 2 feet

Screen Diameter and Material: 2" Sch 40 PVC

Screen Slot Size: 0.010

Screen Length: 10 feet from 2 feet to 12 feet

1st Surface Casing Material: also check: ☐ Permanent ☐ Temporary

1st Surface Casing I.D. (inches):

1st Surface Casing Length: ____ feet from 0 feet to ____ feet

2nd Surface Casing Material: also check: ☐ Permanent ☐ Temporary

2nd Surface Casing I.D. (inches):

2nd Surface Casing Length: ____ feet from 0 feet to ____ feet

3rd Surface Casing Material: also check: ☐ Permanent ☐ Temporary

3rd Surface Casing I.D. (inches):

3rd Surface Casing Length: ____ feet from 0 feet to ____ feet

Filter Pack Material and Size: 20/30 Quartz Sand

Prepacked Filter Around Screen (check one): ☐ Yes ☑ No

Filter Pack Length: 11 feet from 1 feet to 12 feet

Filter Pack Seal Material and Size: 30/65 Quartz Sand

Filter Pack Seal Length: 0.5 feet from 0.5 feet to 1 feet

Surface Seal Material: Portland Cement

Surface Seal Length: 0.5 feet from 0 feet to 0.5 feet

WELL DEVELOPMENT DATA

Well Development Date: 7/30/19

Well Development Method (check one): ☐ Surge/Pump ☑ Pump ☐ Compressed Air ☐ Other (describe)

Development Pump Type (check): ☑ Centrifugal ☐ Peristaltic ☐ Submersible ☐ Other (describe)

Depth to Groundwater (before developing in feet): 3

Pumping Rate (gallons per minute): 1

Maximum Drawdown of Groundwater During Development (feet): 0

Well Purged Dry (check one): ☐ Yes ☑ No

Pumping Condition (check one): ☑ Continuous ☐ Intermittent

Total Development Water Removed (gallons): 25

Development Duration (minutes): 25

Development Water Drummed (check one): ☐ Yes ☑ No

Water Appearance (color and odor) At Start of Development: Brown, no odor

Water Appearance (color and odor) At End of Development: Clear, no odor

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

Florida Department of Environmental Protection - Division of Waste Management - Bureau of Petroleum Storage Systems

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA

Well Number: MW-3	Site Name: Proposed Publix	FDEP Facility I.D. Number:	Well Install Date(s): 7/31/19

Well Location and Type (check appropriate boxes): [✓] On-Site [ ] Right-of-Way [ ] Off-Site Private Property [✓] Above Grade (AG) [ ] Flush-to-Grade

If AG, list feet of riser above land surface: 3

Well Purpose: [ ] Perched Monitoring [✓] Shallow (Water-Table) Monitoring [ ] Intermediate or Deep Monitoring [ ] Remediation or Other (describe)

Well Install Method: DPT

Surface Casing Install Method:

Borehole Depth (feet): 12	Well Depth (feet): 12	Borehole Diameter (inches): 3.25	Manhole Diameter (inches):	Well Pad Size: ____ feet by ____ feet
Riser Diameter and Material: PSX 1" Sch 40 PVC	Riser/Screen Connections: [✓] Flush-Threaded [ ] Other (describe)			Riser Length: 5 feet from 3 AGS feet to 2 feet
Screen Diameter and Material: PSX 1" Sch 40 PVC		Screen Slot Size: 0.010		Screen Length: 10 feet from 2 feet to 12 feet
1st Surface Casing Material: also check: [ ] Permanent [ ] Temporary		1st Surface Casing I.D. (inches):		1st Surface Casing Length: ____ feet from 0 feet to ____ feet
2nd Surface Casing Material: also check: [ ] Permanent [ ] Temporary		2nd Surface Casing I.D. (inches):		2nd Surface Casing Length: ____ feet from 0 feet to ____ feet
3rd Surface Casing Material: also check: [ ] Permanent [ ] Temporary		3rd Surface Casing I.D. (inches):		3rd Surface Casing Length: ____ feet from 0 feet to ____ feet
Filter Pack Material and Size: 20/30 Quarta Sand	Prepacked Filter Around Screen (check one): [ ] Yes [✓] No			Filter Pack Length: 11 feet from 1 feet to 12 feet
Filter Pack Seal Material and Size: 30/65 Quartz Sand				Filter Pack Seal Length: 0.5 feet from 0.5 feet to 1 feet
Surface Seal Material: Portland Cement				Surface Seal Length: 0.5 feet from 0 feet to 0.5 feet

WELL DEVELOPMENT DATA

Well Development Date: 7/31/19	Well Development Method (check one): [ ] Surge/Pump [✓] Pump [ ] Compressed Air [ ] Other (describe)		
Development Pump Type (check): [ ] Centrifugal [✓] Peristaltic [ ] Submersible [ ] Other (describe)		Depth to Groundwater (before developing in feet): 3.69	
Pumping Rate (gallons per minute): 1	Maximum Drawdown of Groundwater During Development (feet): 0	Well Purged Dry (check one): [ ] Yes [✓] No	
Pumping Condition (check one): [✓] Continuous [ ] Intermittent	Total Development Water Removed (gallons): 25	Development Duration (minutes): 25	Development Water Drummed (check one): [ ] Yes [✓] No
Water Appearance (color and odor) At Start of Development: Brown, no odor		Water Appearance (color and odor) At End of Development: Clear, no odor	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

Florida Department of Environmental Protection - Division of Waste Management - Bureau of Petroleum Storage Systems

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA

Well Number: MW-4	Site Name: Proposed Publix	FDEP Facility I.D. Number:	Well Install Date(s): 7/31/19

Well Location and Type (check appropriate boxes): ☑ On-Site ☐ Right-of-Way ☐ Off-Site Private Property ☑ Above Grade (AG) ☐ Flush-to-Grade
If AG, list feet of riser above land surface: 3

Well Purpose: ☐ Perched Monitoring ☑ Shallow (Water-Table) Monitoring ☐ Intermediate or Deep Monitoring ☐ Remediation or Other (describe)

Well Install Method: DPT

Surface Casing Install Method:

Borehole Depth (feet): 12	Well Depth (feet): 12	Borehole Diameter (inches): 3.25	Manhole Diameter (inches):

Well Pad Size: ____ feet by ____ feet

DC Riser Diameter and Material: 2" Sch 40 PVC
Riser/Screen Connections: ☑ Flush-Threaded ☐ Other (describe)
Riser Length: 5 feet from 3.65 feet to 2 feet

DC Screen Diameter and Material: 2" Sch 40 PVC
Screen Slot Size: 0.010
Screen Length: 10 feet from 2 feet to 12 feet

1st Surface Casing Material: also check: ☐ Permanent ☐ Temporary
1st Surface Casing I.D. (inches):
1st Surface Casing Length: ____ feet from 0 feet to ____ feet

2nd Surface Casing Material: also check: ☐ Permanent ☐ Temporary
2nd Surface Casing I.D. (inches):
2nd Surface Casing Length: ____ feet from 0 feet to ____ feet

3rd Surface Casing Material: also check: ☐ Permanent ☐ Temporary
3rd Surface Casing I.D. (inches):
3rd Surface Casing Length: ____ feet from 0 feet to ____ feet

Filter Pack Material and Size: 20/30 Quartz Sand
Prepacked Filter Around Screen (check one): ☐ Yes ☑ No
Filter Pack Length: 11 feet from 1 feet to 12 feet

Filter Pack Seal Material and Size: 30/65 Quartz Sand
Filter Pack Seal Length: 0.5 feet from 0.5 feet to 1 feet

Surface Seal Material: Portland Cement
Surface Seal Length: 0.5 feet from 0 feet to 0.5 feet

WELL DEVELOPMENT DATA

Well Development Date: 7/31/19	Well Development Method (check one): ☐ Surge/Pump ☑ Pump ☐ Compressed Air ☐ Other (describe)		
Development Pump Type (check): ☑ Centrifugal ☐ Peristaltic ☐ Submersible ☐ Other (describe)		Depth to Groundwater (before developing in feet): 3.27	
Pumping Rate (gallons per minute): 1	Maximum Drawdown of Groundwater During Development (feet): 0	Well Purged Dry (check one): ☐ Yes ☑ No	
Pumping Condition (check one): ☑ Continuous ☐ Intermittent	Total Development Water Removed (gallons): 25	Development Duration (minutes): 25	Development Water Drummed (check one): ☐ Yes ☑ No
Water Appearance (color and odor) At Start of Development: Brown, no odor		Water Appearance (color and odor) At End of Development: clear, no odor	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

Florida Department of Environmental Protection - Division of Waste Management - Bureau of Petroleum Storage Systems

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA

Well Number: MW-5	Site Name: Proposed Publix	FDEP Facility I.D. Number:	Well Install Date(s): 7/31/19

Well Location and Type (check appropriate boxes): ☑ On-Site ☐ Right-of-Way ☐ Off-Site Private Property ☑ Above Grade (AG) ☐ Flush-to-Grade

If AG, list feet of riser above land surface: 3

Well Purpose: ☐ Perched Monitoring ☑ Shallow (Water-Table) Monitoring ☐ Intermediate or Deep Monitoring ☐ Remediation or Other (describe)

Well Install Method: DPT

Surface Casing Install Method:

Borehole Depth (feet):	Well Depth (feet):	Borehole Diameter (inches):	Manhole Diameter (inches):	Well Pad Size:
12	12	3.25		____ feet by ____ feet

Riser Diameter and Material: 2" Sch 40 PVC	Riser/Screen Connections: ☑ Flush-Threaded ☐ Other (describe)	Riser Length: 5 feet from 3 AGS feet to 2 feet
Screen Diameter and Material: 2" Sch 40 PVC	Screen Slot Size: 0.010	Screen Length: 10 feet from 2 feet to 12 feet
1st Surface Casing Material: also check: ☐ Permanent ☐ Temporary	1st Surface Casing I.D. (inches):	1st Surface Casing Length: ____ feet from 0 feet to ____ feet
2nd Surface Casing Material: also check: ☐ Permanent ☐ Temporary	2nd Surface Casing I.D. (inches):	2nd Surface Casing Length: ____ feet from 0 feet to ____ feet
3rd Surface Casing Material: also check: ☐ Permanent ☐ Temporary	3rd Surface Casing I.D. (inches):	3rd Surface Casing Length: ____ feet from 0 feet to ____ feet
Filter Pack Material and Size: 20/30 Quartz Sand	Prepacked Filter Around Screen (check one): ☐ Yes ☑ No	Filter Pack Length: 11 feet from 1 feet to 12 feet
Filter Pack Seal Material and Size: 30/65 Quartz Sand		Filter Pack Seal Length: 0.5 feet from 0.5 feet to 1 feet
Surface Seal Material: Portland Cement		Surface Seal Length: 0.5 feet from 0 feet to 0.5 feet

WELL DEVELOPMENT DATA

Well Development Date: 7/31/19	Well Development Method (check one): ☐ Surge/Pump ☑ Pump ☐ Compressed Air ☐ Other (describe)		
Development Pump Type (check): ☑ Centrifugal ☐ Peristaltic ☐ Submersible ☐ Other (describe)		Depth to Groundwater (before developing in feet): 3.52	
Pumping Rate (gallons per minute): 1	Maximum Drawdown of Groundwater During Development (feet): 0	Well Purged Dry (check one): ☐ Yes ☑ No	
Pumping Condition (check one): ☑ Continuous ☐ Intermittent	Total Development Water Removed (gallons): 25	Development Duration (minutes): 25	Development Water Drummed (check one): ☐ Yes ☑ No
Water Appearance (color and odor) At Start of Development: Brown, no odor		Water Appearance (color and odor) At End of Development: Clear, no odor	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

Florida Department of Environmental Protection - Division of Waste Management - Bureau of Petroleum Storage Systems

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA

Well Number: MW-6	Site Name: Proposed Publix	FDEP Facility I.D. Number:	Well Install Date(s): 7/31/19

Well Location and Type (check appropriate boxes): ☑ On-Site ☐ Right-of-Way ☐ Off-Site Private Property ☑ Above Grade (AG) ☐ Flush-to-Grade

If AG, list feet of riser above land surface: 3

Well Purpose: ☐ Perched Monitoring ☑ Shallow (Water-Table) Monitoring ☐ Intermediate or Deep Monitoring ☐ Remediation or Other (describe)

Well Install Method: DPT

Surface Casing Install Method:

Borehole Depth (feet): 12	Well Depth (feet): 12	Borehole Diameter (inches): 3.25	Manhole Diameter (inches):

Well Pad Size: ____ feet by ____ feet

Riser Diameter and Material: 2" Sch 40 PVC

Riser/Screen Connections: ☑ Flush-Threaded ☐ Other (describe)

Riser Length: 5 feet from 3.65 feet to 2 feet

Screen Diameter and Material: 2" Sch 40 PVC

Screen Slot Size: 0.010

Screen Length: 10 feet from 2 feet to 12 feet

1st Surface Casing Material: also check: ☐ Permanent ☐ Temporary

1st Surface Casing I.D. (inches):

1st Surface Casing Length: feet from 0 feet to ____ feet

2nd Surface Casing Material: also check: ☐ Permanent ☐ Temporary

2nd Surface Casing I.D. (inches):

2nd Surface Casing Length: feet from 0 feet to ____ feet

3rd Surface Casing Material: also check: ☐ Permanent ☐ Temporary

3rd Surface Casing I.D. (inches):

3rd Surface Casing Length: ____ feet from 0 feet to ____ feet

Filter Pack Material and Size: 20/30 Quartz Sand

Prepacked Filter Around Screen (check one): ☐ Yes ☑ No

Filter Pack Length: 11 feet from 1 feet to 12 feet

Filter Pack Seal Material and Size: 30/65 Quartz Sand

Filter Pack Seal Length: 0.5 feet from 0.5 feet to 1 feet

Surface Seal Material: Portland Cement

Surface Seal Length: 0.5 feet from 0 feet to 0.5 feet

WELL DEVELOPMENT DATA

Well Development Date: 7/31/19

Well Development Method (check one): ☐ Surge/Pump ☑ Pump ☐ Compressed Air ☐ Other (describe)

Development Pump Type (check): ☑ Centrifugal ☐ Peristaltic ☐ Submersible ☐ Other (describe)

Depth to Groundwater (before developing in feet): 2.82

Pumping Rate (gallons per minute): 1

Maximum Drawdown of Groundwater During Development (feet): 0

Well Purged Dry (check one): ☐ Yes ☑ No

Pumping Condition (check one): ☑ Continuous ☐ Intermittent

Total Development Water Removed (gallons): 25

Development Duration (minutes): 25

Development Water Drummed (check one): ☐ Yes ☑ No

Water Appearance (color and odor) At Start of Development: Brown, no odor

Water Appearance (color and odor) At End of Development: Clear, no odor

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

Florida Department of Environmental Protection - Division of Waste Management - Bureau of Petroleum Storage Systems

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA

Well Number: MW-7	Site Name: Proposed Publix	FDEP Facility I.D. Number:	Well Install Date(s): 7/31/19

Well Location and Type (check appropriate boxes): ☑ On-Site ☐ Right-of-Way ☐ Off-Site Private Property ☑ Above Grade (AG) ☐ Flush-to-Grade

If AG, list feet of riser above land surface: 3

Well Purpose: ☐ Perched Monitoring ☑ Shallow (Water-Table) Monitoring ☐ Intermediate or Deep Monitoring ☐ Remediation or Other (describe)

Well Install Method: DPT

Surface Casing Install Method:

Borehole Depth (feet): 12	Well Depth (feet): 12	Borehole Diameter (inches): 3.25	Manhole Diameter (inches):

Well Pad Size: feet by feet

Riser Diameter and Material: 1" Sch 40 PVC

Riser/Screen Connections: ☑ Flush-Threaded ☐ Other (describe)

Riser Length: 5 feet from 3.65 feet to 2 feet

Screen Diameter and Material: 1" Sch 40 PVC

Screen Slot Size: 0.010

Screen Length: 10 feet from 2 feet to 12 feet

1st Surface Casing Material:

also check: ☐ Permanent ☐ Temporary

1st Surface Casing I.D. (inches):

1st Surface Casing Length: feet from 0 feet to feet

2nd Surface Casing Material:

also check: ☐ Permanent ☐ Temporary

2nd Surface Casing I.D. (inches):

2nd Surface Casing Length: feet from 0 feet to feet

3rd Surface Casing Material:

also check: ☐ Permanent ☐ Temporary

3rd Surface Casing I.D. (inches):

3rd Surface Casing Length: feet from 0 feet to feet

Filter Pack Material and Size: 20/30 Quartz Sand

Prepacked Filter Around Screen (check one): ☐ Yes ☑ No

Filter Pack Length: 11 feet from 1 feet to 12 feet

Filter Pack Seal Material and Size: 30/65 Quartz Sand

Filter Pack Seal Length: 0.5 feet from 0.5 feet to 1 feet

Surface Seal Material: Portland Cement

Surface Seal Length: 0.5 feet from 0 feet to 0.5 feet

WELL DEVELOPMENT DATA

Well Development Date: 7/31/19	Well Development Method (check one): ☐ Surge/Pump ☑ Pump ☐ Compressed Air ☐ Other (describe)	
Development Pump Type (check): ☑ Centrifugal ☐ Peristaltic ☐ Submersible ☐ Other (describe)		Depth to Groundwater (before developing in feet): 3.44
Pumping Rate (gallons per minute): 1	Maximum Drawdown of Groundwater During Development (feet): 0	Well Purged Dry (check one): ☐ Yes ☑ No
Pumping Condition (check one): ☑ Continuous ☐ Intermittent	Total Development Water Removed (gallons): 30	Development Duration (minutes): 30
		Development Water Drummed (check one): ☐ Yes ☑ No
Water Appearance (color and odor) At Start of Development: Brown, no odor		Water Appearance (color and odor) At End of Development: Clear, no odor

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

Florida Department of Environmental Protection - Division of Waste Management - Bureau of Petroleum Storage Systems

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA

Well Number: MW-8	Site Name: Proposed Publix	FDEP Facility I.D. Number:	Well Install Date(s): 7/31/19

Well Location and Type (check appropriate boxes): ☑ On-Site ☐ Right-of-Way ☐ Off-Site Private Property ☑ Above Grade (AG) ☐ Flush-to-Grade

If AG, list feet of riser above land surface: 3

Well Purpose: ☐ Perched Monitoring ☑ Shallow (Water-Table) Monitoring ☐ Intermediate or Deep Monitoring ☐ Remediation or Other (describe)

Well Install Method: DPT

Surface Casing Install Method:

Borehole Depth (feet):	Well Depth (feet):	Borehole Diameter (inches):	Manhole Diameter (inches):	Well Pad Size:
12	12	3.25		____ feet by ____ feet

Riser Diameter and Material: 1" Sch 40 PVC	Riser/Screen Connections: ☑ Flush-Threaded ☐ Other (describe)	Riser Length: 5 feet from 3 AGS feet to 2 feet
Screen Diameter and Material: 1" Sch 40 PVC	Screen Slot Size: 0.010	Screen Length: 10 feet from 2 feet to 12 feet
1st Surface Casing Material: also check: ☐ Permanent ☐ Temporary	1st Surface Casing I.D. (inches):	1st Surface Casing Length: ____ feet from 0 feet to ____ feet
2nd Surface Casing Material: also check: ☐ Permanent ☐ Temporary	2nd Surface Casing I.D. (inches):	2nd Surface Casing Length: ____ feet from 0 feet to ____ feet
3rd Surface Casing Material: also check: ☐ Permanent ☐ Temporary	3rd Surface Casing I.D. (inches):	3rd Surface Casing Length: ____ feet from 0 feet to ____ feet
Filter Pack Material and Size: 20/30 Quartz Sand	Prepacked Filter Around Screen (check one): ☐ Yes ☑ No	Filter Pack Length: 11 feet from 1 feet to 12 feet
Filter Pack Seal Material and Size: 30/65 Quartz Sand		Filter Pack Seal Length: 0.5 feet from 0.5 feet to 1 feet
Surface Seal Material: Portland Cement		Surface Seal Length: 0.5 feet from 0 feet to 0.5 feet

WELL DEVELOPMENT DATA

Well Development Date: 7/31/19	Well Development Method (check one): ☐ Surge/Pump ☑ Pump ☐ Compressed Air ☐ Other (describe)		
Development Pump Type (check): ☑ Centrifugal ☐ Peristaltic ☐ Submersible ☐ Other (describe)		Depth to Groundwater (before developing in feet): 3.56	
Pumping Rate (gallons per minute): 1	Maximum Drawdown of Groundwater During Development (feet): 0	Well Purged Dry (check one): ☐ Yes ☑ No	
Pumping Condition (check one): ☑ Continuous ☐ Intermittent	Total Development Water Removed (gallons): 27	Development Duration (minutes): 27	Development Water Drummed (check one): ☐ Yes ☑ No
Water Appearance (color and odor) At Start of Development: Brown, no odor		Water Appearance (color and odor) At End of Development: clear, no odor	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

Florida Department of Environmental Protection - Division of Waste Management - Bureau of Petroleum Storage Systems

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA

Well Number: MW-9	Site Name: Proposed Publix	FDEP Facility I.D. Number:	Well Install Date(s): 7/31/19

Well Location and Type (check appropriate boxes): ☑ On-Site ☐ Right-of-Way ☐ Off-Site Private Property ☑ Above Grade (AG) ☐ Flush-to-Grade

If AG, list feet of riser above land surface: 3

Well Purpose: ☐ Perched Monitoring ☑ Shallow (Water-Table) Monitoring ☐ Intermediate or Deep Monitoring ☐ Remediation or Other (describe)

Well Install Method: DPT

Surface Casing Install Method:

Borehole Depth (feet):	Well Depth (feet):	Borehole Diameter (inches):	Manhole Diameter (inches):	Well Pad Size:
12	12	3.25		____ feet by ____ feet

Riser Diameter and Material: 1" Sch 40 PVC	Riser/Screen Connections: ☑ Flush-Threaded ☐ Other (describe)	Riser Length: 5 feet from 3 AGS feet to 2 feet
Screen Diameter and Material: 1" Sch 40 PVC	Screen Slot Size: 0.010	Screen Length: 10 feet from 2 feet to 12 feet
1st Surface Casing Material: also check: ☐ Permanent ☐ Temporary	1st Surface Casing I.D. (inches):	1st Surface Casing Length: ____ feet from 0 feet to ____ feet
2nd Surface Casing Material: also check: ☐ Permanent ☐ Temporary	2nd Surface Casing I.D. (inches):	2nd Surface Casing Length: ____ feet from 0 feet to ____ feet
3rd Surface Casing Material: also check: ☐ Permanent ☐ Temporary	3rd Surface Casing I.D. (inches):	3rd Surface Casing Length: ____ feet from 0 feet to ____ feet
Filter Pack Material and Size: 20/30 Quartz sand	Prepacked Filter Around Screen (check one): ☐ Yes ☑ No	Filter Pack Length: 11 feet from 1 feet to 12 feet
Filter Pack Seal Material and Size: 30/65 Quartz Sand		Filter Pack Seal Length: 0.5 feet from 0.5 feet to 1 feet
Surface Seal Material: Portland Cement		Surface Seal Length: 0.5 feet from 0 feet to 0.5 feet

WELL DEVELOPMENT DATA

Well Development Date: 7/31/19	Well Development Method (check one): ☐ Surge/Pump ☑ Pump ☐ Compressed Air ☐ Other (describe)		
Development Pump Type (check): ☑ Centrifugal ☐ Peristaltic ☐ Submersible ☐ Other (describe)		Depth to Groundwater (before developing in feet): 3.35	
Pumping Rate (gallons per minute): 1	Maximum Drawdown of Groundwater During Development (feet): 0	Well Purged Dry (check one): ☐ Yes ☑ No	
Pumping Condition (check one): ☑ Continuous ☐ Intermittent	Total Development Water Removed (gallons): 26	Development Duration (minutes): 26	Development Water Drummed (check one): ☐ Yes ☑ No
Water Appearance (color and odor) At Start of Development: Brown, no odor		Water Appearance (color and odor) At End of Development: Clear, no odor	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

Florida Department of Environmental Protection - Division of Waste Management - Bureau of Petroleum Storage Systems

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA

Well Number: MW-10	Site Name: Proposed Publix	FDEP Facility I.D. Number: —	Well Install Date(s): 7/31/19

Well Location and Type (check appropriate boxes): ☑ On-Site ☐ Right-of-Way ☐ Off-Site Private Property ☑ Above Grade (AG) ☐ Flush-to-Grade

If AG, list feet of riser above land surface: 3

Well Purpose: ☐ Perched Monitoring ☑ Shallow (Water-Table) Monitoring ☐ Intermediate or Deep Monitoring ☐ Remediation or Other (describe)

Well Install Method: DPT

Surface Casing Install Method: —

Borehole Depth (feet): 12	Well Depth (feet): 12	Borehole Diameter (inches): 3.25	Manhole Diameter (inches): N/A

Well Pad Size: ____ feet by ____ feet

Riser Diameter and Material: 1" Sch 40 PVC

Riser/Screen Connections: ☑ Flush-Threaded ☐ Other (describe)

Riser Length: 5 feet from 3 AGS feet to 2 feet

Screen Diameter and Material: 1" Sch 40 PVC

Screen Slot Size: 0.010

Screen Length: 10 feet from 2 feet to 12 feet

1st Surface Casing Material: ____ also check: ☐ Permanent ☐ Temporary

1st Surface Casing I.D. (inches): ____

1st Surface Casing Length: ____ feet from 0 feet to ____ feet

2nd Surface Casing Material: ____ also check: ☐ Permanent ☐ Temporary

2nd Surface Casing I.D. (inches): ____

2nd Surface Casing Length: ____ feet from 0 feet to ____ feet

3rd Surface Casing Material: ____ also check: ☐ Permanent ☐ Temporary

3rd Surface Casing I.D. (inches): ____

3rd Surface Casing Length: ____ feet from 0 feet to ____ feet

Filter Pack Material and Size: 20/30 Quartz Sand

Prepacked Filter Around Screen (check one): ☐ Yes ☑ No

Filter Pack Length: 11 feet from 1 feet to 12 feet

Filter Pack Seal Material and Size: 30/65 Quartz Sand

Filter Pack Seal Length: 0.5 feet from 0.5 feet to 1.0 feet

Surface Seal Material: Portland Cement

Surface Seal Length: 0.5 feet from 0 feet to 0.5 feet

WELL DEVELOPMENT DATA

Well Development Date: 7/31/19

Well Development Method (check one): ☐ Surge/Pump ☑ Pump ☐ Compressed Air ☐ Other (describe)

Development Pump Type (check): ☑ Centrifugal ☐ Peristaltic ☐ Submersible ☐ Other (describe)

Depth to Groundwater (before developing in feet): 3.39

Pumping Rate (gallons per minute): 1

Maximum Drawdown of Groundwater During Development (feet): 0

Well Purged Dry (check one): ☐ Yes ☑ No

Pumping Condition (check one): ☑ Continuous ☐ Intermittent

Total Development Water Removed (gallons): 25

Development Duration (minutes): 25

Development Water Drummed (check one): ☐ Yes ☑ No

Water Appearance (color and odor) At Start of Development: Brown, No odor

Water Appearance (color and odor) At End of Development: Clear, no odor

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

Florida Department of Environmental Protection - Division of Waste Management - Bureau of Petroleum Storage Systems

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA

Well Number: MW-11	Site Name: Proposed Publix	FDEP Facility I.D. Number:	Well Install Date(s): 7/30/19

Well Location and Type (check appropriate boxes): ☑ On-Site ☐ Right-of-Way ☐ Off-Site Private Property ☑ Above Grade (AG) ☐ Flush-to-Grade

If AG, list feet of riser above land surface: 3

Well Purpose: ☐ Perched Monitoring ☑ Shallow (Water-Table) Monitoring ☐ Intermediate or Deep Monitoring ☐ Remediation or Other (describe)

Well Install Method: DPT

Surface Casing Install Method:

Borehole Depth (feet)	Well Depth (feet)	Borehole Diameter (inches)	Manhole Diameter (inches)	Well Pad Size
12	12	3.25	N/A	____ feet by ____ feet

Riser Diameter and Material: 1" Sch 40 PVC	Riser/Screen Connections: ☐ Flush-Threaded ☐ Other (describe)	Riser Length: 5 feet from 3.465 feet to 2 feet
Screen Diameter and Material: 1" Sch 40 PVC	Screen Slot Size: 0.010	Screen Length: 10 feet from 2 feet to 12 feet
1st Surface Casing Material: also check: ☐ Permanent ☐ Temporary	1st Surface Casing I.D. (inches):	1st Surface Casing Length: ____ feet from 0 feet to ____ feet
2nd Surface Casing Material: also check: ☐ Permanent ☐ Temporary	2nd Surface Casing I.D. (inches):	2nd Surface Casing Length: ____ feet from 0 feet to ____ feet
3rd Surface Casing Material: also check: ☐ Permanent ☐ Temporary	3rd Surface Casing I.D. (inches):	3rd Surface Casing Length: ____ feet from 0 feet to ____ feet
Filter Pack Material and Size: 20/30 Quartz Sand	Prepacked Filter Around Screen (check one): ☐ Yes ☑ No	Filter Pack Length: 11 feet from 1 feet to 12 feet
Filter Pack Seal Material and Size: 30/65 Quartz Sand		Filter Pack Seal Length: 0.5 feet from 0.5 feet to 1 feet
Surface Seal Material: Portland Cement		Surface Seal Length: 0.5 feet from 0 feet to 0.5 feet

WELL DEVELOPMENT DATA

Well Development Date: 7/30/19	Well Development Method (check one): ☐ Surge/Pump ☑ Pump ☐ Compressed Air ☐ Other (describe)	
Development Pump Type (check): ☑ Centrifugal ☐ Peristaltic ☐ Submersible ☐ Other (describe)	Depth to Groundwater (before developing in feet): 3.27	
Pumping Rate (gallons per minute): 1	Maximum Drawdown of Groundwater During Development (feet): 0	Well Purged Dry (check one): ☐ Yes ☑ No
Pumping Condition (check one): ☑ Continuous ☐ Intermittent	Total Development Water Removed (gallons): 20	Development Duration (minutes): 20
Development Water Drummed (check one): ☐ Yes ☐ No		
Water Appearance (color and odor) At Start of Development: Brown, no odor	Water Appearance (color and odor) At End of Development: clear, no odor	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

Florida Department of Environmental Protection - Division of Waste Management - Bureau of Petroleum Storage Systems

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA

Well Number: MW-12	Site Name: Proposed Publix	FDEP Facility I.D. Number:	Well Install Date(s): 7/31/19

Well Location and Type (check appropriate boxes): ☑ On-Site ☐ Right-of-Way ☐ Off-Site Private Property ☑ Above Grade (AG) ☐ Flush-to-Grade

If AG, list feet of riser above land surface: 3

Well Purpose: ☐ Perched Monitoring ☑ Shallow (Water-Table) Monitoring ☐ Intermediate or Deep Monitoring ☐ Remediation or Other (describe)

Well Install Method: DPT

Surface Casing Install Method:

Borehole Depth (feet): 12	Well Depth (feet): 12	Borehole Diameter (inches): 3.25	Manhole Diameter (inches): N/A

Well Pad Size: ____ feet by ____ feet

Riser Diameter and Material: 1" Sch 40 PVC

Riser/Screen Connections: ☑ Flush-Threaded ☐ Other (describe)

Riser Length: 5 feet from 3 AGS feet to 2 feet

Screen Diameter and Material: 1" Sch 40 PVC

Screen Slot Size: 0.010

Screen Length: 10 feet from 2 feet to 12 feet

1st Surface Casing Material: ____ also check: ☐ Permanent ☐ Temporary

1st Surface Casing I.D. (inches): ____

1st Surface Casing Length: ____ feet from 0 feet to ____ feet

2nd Surface Casing Material: ____ also check: ☐ Permanent ☐ Temporary

2nd Surface Casing I.D. (inches): ____

2nd Surface Casing Length: ____ feet from 0 feet to ____ feet

3rd Surface Casing Material: ____ also check: ☐ Permanent ☐ Temporary

3rd Surface Casing I.D. (inches): ____

3rd Surface Casing Length: ____ feet from 0 feet to ____ feet

Filter Pack Material and Size: 20/30 Quartz Sand

Prepacked Filter Around Screen (check one): ☐ Yes ☑ No

Filter Pack Length: 11 feet from 1 feet to 12 feet

Filter Pack Seal Material and Size: 30/65 Quartz Sand

Filter Pack Seal Length: 0.5 feet from 0.5 feet to 1 feet

Surface Seal Material: Portland Cement

Surface Seal Length: 0.5 feet from 0 feet to 0.5 feet

WELL DEVELOPMENT DATA

Well Development Date: 7/31/19

Well Development Method (check one): ☐ Surge/Pump ☑ Pump ☐ Compressed Air ☐ Other (describe)

Development Pump Type (check): ☑ Centrifugal ☐ Peristaltic ☐ Submersible ☐ Other (describe)

Depth to Groundwater (before developing in feet): 3.41

Pumping Rate (gallons per minute): 1

Maximum Drawdown of Groundwater During Development (feet): 0

Well Purged Dry (check one): ☐ Yes ☑ No

Pumping Condition (check one): ☑ Continuous ☐ Intermittent

Total Development Water Removed (gallons): 22

Development Duration (minutes): 22

Development Water Drummed (check one): ☐ Yes ☑ No

Water Appearance (color and odor) At Start of Development: Brown, no odor

Water Appearance (color and odor) At End of Development: Clear, no odor

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

Florida Department of Environmental Protection - Division of Waste Management - Bureau of Petroleum Storage Systems

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA

Well Number: MW-1I	Site Name: Proposed Publix	FDEP Facility I.D. Number:	Well Install Date(s): 8/28/19

Well Location and Type (check appropriate boxes): ☑ On-Site ☐ Right-of-Way ☐ Off-Site Private Property ☑ Above Grade (AG) ☐ Flush-to-Grade

If AG, list feet of riser above land surface: 3

Well Purpose: ☐ Perched Monitoring ☐ Shallow (Water-Table) Monitoring ☑ Intermediate or Deep Monitoring ☐ Remediation or Other (describe)

Well Install Method: DPT

Surface Casing Install Method:

Borehole Depth (feet): 20	Well Depth (feet): 20	Borehole Diameter (inches): 3.25	Manhole Diameter (inches):

Well Pad Size: ____ feet by ____ feet

Riser Diameter and Material: 1" Sch 40 PVC

Riser/Screen Connections: ☑ Flush-Threaded ☐ Other (describe)

Riser Length: 18 feet from 8.65 feet to 15 feet

Screen Diameter and Material: 1" Sch 40 PVC

Screen Slot Size: 0.010

Screen Length: 5 feet from 15 feet to 20 feet

1st Surface Casing Material: ____ also check: ☐ Permanent ☐ Temporary

1st Surface Casing I.D. (inches): ____

1st Surface Casing Length: ____ feet from ____ feet to ____ feet

2nd Surface Casing Material: ____ also check: ☐ Permanent ☐ Temporary

2nd Surface Casing I.D. (inches): ____

2nd Surface Casing Length: ____ feet from ____ feet to ____ feet

3rd Surface Casing Material: ____ also check: ☐ Permanent ☐ Temporary

3rd Surface Casing I.D. (inches): ____

3rd Surface Casing Length: ____ feet from ____ feet to ____ feet

Filter Pack Material and Size: 20/30

Prepacked Filter Around Screen (check one): ☐ Yes ☑ No

Filter Pack Length: 8 feet from 14 feet to 20 feet

Filter Pack Seal Material and Size: 30/65

Filter Pack Seal Length: 1 feet from 13 feet to 14 feet

Surface Seal Material: Portland Cement

Surface Seal Length: 13 feet from 0 feet to 13 feet

WELL DEVELOPMENT DATA

Well Development Date: 8/28/19

Well Development Method (check one): ☐ Other (describe) ☐ Surge/Pump ☑ Pump ☐ Compressed Air

Development Pump Type (check): ☐ Submersible ☐ Other (describe) ☑ Centrifugal ☐ Peristaltic

Depth to Groundwater (before developing in feet): 3

Pumping Rate (gallons per minute): 1

Maximum Drawdown of Groundwater During Development (feet): 0

Well Purged Dry (check one): ☐ Yes ☑ No

Pumping Condition (check one): ☑ Continuous ☐ Intermittent

Total Development Water Removed (gallons): 90

Development Duration (minutes): 90

Development Water Drummed (check one): ☐ Yes ☑ No

Water Appearance (color and odor) At Start of Development: Brown, no odor.

Water Appearance (color and odor) At End of Development: Clear, no odor

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

Florida Department of Environmental Protection - Division of Waste Management - Bureau of Petroleum Storage Systems

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA

Well Number: MW-2I	Site Name: Proposed Publix	FDEP Facility I.D. Number:	Well Install Date(s): 8/28/19

Well Location and Type (check appropriate boxes): ☑ On-Site ☐ Right-of-Way ☐ Off-Site Private Property ☑ Above Grade (AG) ☐ Flush-to-Grade

If AG, list feet of riser above land surface: 3

Well Purpose: ☐ Perched Monitoring ☐ Shallow (Water-Table) Monitoring ☑ Intermediate or Deep Monitoring ☐ Remediation or Other (describe)

Well Install Method: DPT

Surface Casing Install Method:

Borehole Depth (feet): 25	Well Depth (feet): 25	Borehole Diameter (inches): 3.25	Manhole Diameter (inches): 3.7

Well Pad Size: ____ feet by ____ feet

Riser Diameter and Material: 1" Sch 40 PVC

Riser/Screen Connections: ☑ Flush-Threaded ☐ Other (describe)

Riser Length: 23 feet from 3 AGS feet to 20 feet

Screen Diameter and Material: 1" Sch 40 PVC

Screen Slot Size: 0.010

Screen Length: 5 feet from 20 feet to 25 feet

1st Surface Casing Material: also check: ☐ Permanent ☐ Temporary

1st Surface Casing I.D. (inches):

1st Surface Casing Length: ____ feet from ____ feet to ____ feet

2nd Surface Casing Material: also check: ☐ Permanent ☐ Temporary

2nd Surface Casing I.D. (inches):

2nd Surface Casing Length: ____ feet from ____ feet to ____ feet

3rd Surface Casing Material: also check: ☐ Permanent ☐ Temporary

3rd Surface Casing I.D. (inches):

3rd Surface Casing Length: ____ feet from ____ feet to ____ feet

Filter Pack Material and Size: 20/30 Quartz sand

Prepacked Filter Around Screen (check one): ☐ Yes ☑ No

Filter Pack Length: 6 feet from 19 feet to 25 feet

Filter Pack Seal Material and Size: 30/65 Quartz sand

Filter Pack Seal Length: 1 feet from 18 feet to 19 feet

Surface Seal Material: Portland cement

Surface Seal Length: 18 feet from 0 feet to 18 feet

WELL DEVELOPMENT DATA

Well Development Date: 8/28/19

Well Development Method (check one): ☐ Surge/Pump ☑ Pump ☐ Compressed Air ☐ Other (describe)

Development Pump Type (check): ☑ Centrifugal ☐ Peristaltic ☐ Submersible ☐ Other (describe)

Depth to Groundwater (before developing in feet): 30

Pumping Rate (gallons per minute): 1

Maximum Drawdown of Groundwater During Development (feet): 0

Well Purged Dry (check one): ☐ Yes ☑ No

Pumping Condition (check one): ☑ Continuous ☐ Intermittent

Total Development Water Removed (gallons): 100

Development Duration (minutes): 100

Development Water Drummed (check one): ☐ Yes ☐ No

Water Appearance (color and odor) At Start of Development: Brown, no odor

Water Appearance (color and odor) At End of Development: clear, no odor.

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

14:57

Florida Department of Environmental Protection - Division of Waste Management - Bureau of Petroleum Storage Systems

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA

Well Number: ~~MW-~~3I	Site Name: Proposed Publix	FDEP Facility I.D. Number:	Well Install Date(s): 8/28/19

Well Location and Type (check appropriate boxes): ☐ On-Site ☐ Right-of-Way ☐ Off-Site Private Property ☑ Above Grade (AG) ☐ Flush-to-Grade

If AG, list feet of riser above land surface: 3

Well Purpose: ☐ Perched Monitoring ☐ Shallow (Water-Table) Monitoring ☑ Intermediate or Deep Monitoring ☐ Remediation or Other (describe)

Well Install Method: DPT

Surface Casing Install Method:

Borehole Depth (feet): 25	Well Depth (feet): 25	Borehole Diameter (inches): 3.25	Manhole Diameter (inches): N/A

Well Pad Size: ____ feet by ____ feet

Riser Diameter and Material: 1" Sch 40 PVC

Riser/Screen Connections: ☑ Flush-Threaded ☐ Other (describe)

Riser Length: 23 feet from 3AGS feet to 20 feet

Screen Diameter and Material: 1" Sch 40 PVC

Screen Slot Size: 0.010

Screen Length: 5 feet from 20 feet to 25 feet

1st Surface Casing Material: also check: ☐ Permanent ☐ Temporary

1st Surface Casing I.D. (inches):

1st Surface Casing Length: ____ feet from ____ feet to ____ feet

2nd Surface Casing Material: also check: ☐ Permanent ☐ Temporary

2nd Surface Casing I.D. (inches):

2nd Surface Casing Length: ____ feet from ____ feet to ____ feet

3rd Surface Casing Material: also check: ☐ Permanent ☐ Temporary

3rd Surface Casing I.D. (inches):

3rd Surface Casing Length: ____ feet from ____ feet to ____ feet

Filter Pack Material and Size: 20/30 Quartz Sand

Prepacked Filter Around Screen (check one): ☐ Yes ☐ No

Filter Pack Length: 6 feet from 19 feet to 25 feet

Filter Pack Seal Material and Size: 30/65 Quartz Sand

Filter Pack Seal Length: 1 feet from 18 feet to 19 feet

Surface Seal Material: Portland Cement

Surface Seal Length: 18 feet from 0 feet to 18 feet

WELL DEVELOPMENT DATA

Well Development Date: 8/28/19

Well Development Method (check one): ☐ Surge/Pump ☑ Pump ☐ Compressed Air ☐ Other (describe)

Development Pump Type (check): ☑ Centrifugal ☐ Peristaltic ☐ Submersible ☐ Other (describe)

Depth to Groundwater (before developing in feet): 3.0

Pumping Rate (gallons per minute): ~~30~~ 1

Maximum Drawdown of Groundwater During Development (feet): 0

Well Purged Dry (check one): ☐ Yes ☑ No

Pumping Condition (check one): ☐ Continuous ☐ Intermittent

Total Development Water Removed (gallons): 90

Development Duration (minutes): 90

Development Water Drummed (check one): ☐ Yes ☐ No

Water Appearance (color and odor) At Start of Development: Brown, no odor

Water Appearance (color and odor) At End of Development: clear no odor

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

~~Refusal at 15' bgs~~

Florida Department of Environmental Protection - Division of Waste Management - Bureau of Petroleum Storage Systems

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA

Well Number: MW-4I	Site Name: Proposed Publix	FDEP Facility I.D. Number:	Well Install Date(s): 8/30/19

Well Location and Type (check appropriate boxes): ☑ On-Site ☐ Right-of-Way ☐ Off-Site Private Property ☑ Above Grade (AG) ☐ Flush-to-Grade

If AG, list feet of riser above land surface: 3.00

Well Purpose: ☐ Perched Monitoring ☐ Shallow (Water-Table) Monitoring ☑ Intermediate or Deep Monitoring ☐ Remediation or Other (describe)

Well Install Method: DPT

Surface Casing Install Method:

Borehole Depth (feet): 23	Well Depth (feet): 23	Borehole Diameter (inches): 3.25	Manhole Diameter (inches):	Well Pad Size: ____ feet by ____ feet

Riser Diameter and Material: 1" Sch 40 PVC

Riser/Screen Connections: ☑ Flush-Threaded ☐ Other (describe)

Riser Length: 21 feet from 3 AGS feet to 18 feet

Screen Diameter and Material: 1" Sch 40 PVC

Screen Slot Size: 0.010

Screen Length: 5 feet from 18 feet to 23 feet

1st Surface Casing Material: also check: ☐ Permanent ☐ Temporary

1st Surface Casing I.D. (inches):

1st Surface Casing Length: ____ feet from ____ feet to ____ feet

2nd Surface Casing Material: also check: ☐ Permanent ☐ Temporary

2nd Surface Casing I.D. (inches):

2nd Surface Casing Length: ____ feet from ____ feet to ____ feet

3rd Surface Casing Material: also check: ☐ Permanent ☐ Temporary

3rd Surface Casing I.D. (inches):

3rd Surface Casing Length: ____ feet from ____ feet to ____ feet

Filter Pack Material and Size: 20/30 Quartz Sand

Prepacked Filter Around Screen (check one): ☐ Yes ☐ No

Filter Pack Length: 6 feet from 17 feet to 23 feet

Filter Pack Seal Material and Size: 30/65 Quartz Sand

Filter Pack Seal Length: 1 feet from 16 feet to 17 feet

Surface Seal Material: Portland Cement

Surface Seal Length: 16 feet from 0 feet to 16 feet

WELL DEVELOPMENT DATA

Well Development Date: 8/30/19

Well Development Method (check one): ☐ Surge/Pump ☑ Pump ☐ Compressed Air ☐ Other (describe)

Development Pump Type (check): ☑ Centrifugal ☐ Peristaltic ☐ Submersible ☐ Other (describe)

Depth to Groundwater (before developing in feet): 3

Pumping Rate (gallons per minute): 1

Maximum Drawdown of Groundwater During Development (feet): 0

Well Purged Dry (check one): ☐ Yes ☑ No

Pumping Condition (check one): ☑ Continuous ☐ Intermittent

Total Development Water Removed (gallons): 90

Development Duration (minutes): 90

Development Water Drummed (check one): ☐ Yes ☑ No

Water Appearance (color and odor) At Start of Development: Brown, no odor

Water Appearance (color and odor) At End of Development: clear, no odor

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

Florida Department of Environmental Protection - Division of Waste Management - Bureau of Petroleum Storage Systems

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA

Well Number: MW 9I	Site Name: Proposed Publix	FDEP Facility I.D. Number:	Well Install Date(s): 9/5/19

Well Location and Type (check appropriate boxes): ☑ On-Site ☐ Right-of-Way ☐ Off-Site Private Property ☑ Above Grade (AG) ☐ Flush-to-Grade

If AG, list feet of riser above land surface: 3.0

Well Purpose: ☐ Perched Monitoring ☐ Shallow (Water-Table) Monitoring ☑ Intermediate or Deep Monitoring ☐ Remediation or Other (describe)

Well Install Method: DPT

Surface Casing Install Method:

Borehole Depth (feet)	Well Depth (feet)	Borehole Diameter (inches)	Manhole Diameter (inches)
21	21	3.25	

Well Pad Size: ____ feet by ____ feet

Riser Diameter and Material: 1" Sch 40 PVC

Riser/Screen Connections: ☐ Flush-Threaded ☐ Other (describe)

Riser Length: 14 feet from 3.0 AGS feet to 16 feet

Screen Diameter and Material: 1" Sch 40 PVC

Screen Slot Size: 0.010

Screen Length: 5 feet from 16 feet to 21 feet

1st Surface Casing Material: also check: ☐ Permanent ☐ Temporary

1st Surface Casing I.D. (inches):

1st Surface Casing Length: ____ feet from ____ feet to ____ feet

2nd Surface Casing Material: also check: ☐ Permanent ☐ Temporary

2nd Surface Casing I.D. (inches):

2nd Surface Casing Length: ____ feet from ____ feet to ____ feet

3rd Surface Casing Material: also check: ☐ Permanent ☐ Temporary

3rd Surface Casing I.D. (inches):

3rd Surface Casing Length: ____ feet from ____ feet to ____ feet

Filter Pack Material and Size: 20/30 Quartz

Prepacked Filter Around Screen (check one): ☐ Yes ☑ No

Filter Pack Length: 6 feet from 15 feet to 21 feet

Filter Pack Seal Material and Size: 30/65 Qz Sand

Filter Pack Seal Length: 1 feet from 14 feet to 15 feet

Surface Seal Material: Portland Cement

Surface Seal Length: 14 feet from 0 feet to ~~21~~ 14 feet DE

WELL DEVELOPMENT DATA

Well Development Date: 9/5/19	Well Development Method (check one): ☐ Surge/Pump ☑ Pump ☐ Compressed Air ☐ Other (describe)		
Development Pump Type (check): ☑ Centrifugal ☐ Peristaltic ☐ Submersible ☐ Other (describe)		Depth to Groundwater (before developing in feet): 3	
Pumping Rate (gallons per minute): 1	Maximum Drawdown of Groundwater During Development (feet): 0	Well Purged Dry (check one): ☐ Yes ☑ No	
Pumping Condition (check one): ☑ Continuous ☐ Intermittent	Total Development Water Removed (gallons): 40	Development Duration (minutes): 40	Development Water Drummed (check one): ☐ Yes ☐ No
Water Appearance (color and odor) At Start of Development: Brown, no odor		Water Appearance (color and odor) At End of Development: Clear no odor	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

13:58

Florida Department of Environmental Protection - Division of Waste Management · Bureau of Petroleum Storage Systems

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA

Well Number: MV-10I	Site Name: Proposed Publix	FDEP Facility I.D. Number:	Well Install Date(s): 8/30/19

Well Location and Type (check appropriate boxes): ☑ On-Site ☐ Right-of-Way ☐ Off-Site Private Property ☑ Above Grade (AG) ☐ Flush-to-Grade

If AG, list feet of riser above land surface: 3.0

Well Purpose: ☐ Perched Monitoring ☐ Shallow (Water-Table) Monitoring ☑ Intermediate or Deep Monitoring ☐ Remediation or Other (describe)

Well Install Method: DPT

Surface Casing Install Method:

Borehole Depth (feet): 23	Well Depth (feet): 23	Borehole Diameter (inches): 3.25	Manhole Diameter (inches):

Well Pad Size: ____ feet by ____ feet

Riser Diameter and Material: 1" Sch 40 PVC

Riser/Screen Connections: ☑ Flush-Threaded ☐ Other (describe)

Riser Length: 21 feet from 3 AGS feet to 18 feet

Screen Diameter and Material: 1" Sch 40 PVC

Screen Slot Size: 0.010

Screen Length: 5 feet from 18 feet to 23 feet

1st Surface Casing Material: also check: ☐ Permanent ☐ Temporary

1st Surface Casing I.D. (inches):

1st Surface Casing Length: ____ feet from ____ feet to ____ feet

2nd Surface Casing Material: also check: ☐ Permanent ☐ Temporary

2nd Surface Casing I.D. (inches):

2nd Surface Casing Length: ____ feet from ____ feet to ____ feet

3rd Surface Casing Material: also check: ☐ Permanent ☐ Temporary

3rd Surface Casing I.D. (inches):

3rd Surface Casing Length: ____ feet from ____ feet to ____ feet

Filter Pack Material and Size: 20/30 Quartz Sand

Prepacked Filter Around Screen (check one): ☐ Yes ☐ No

Filter Pack Length: 6 feet from 17 feet to 23 feet

Filter Pack Seal Material and Size: 30/65 quartz Sand

Filter Pack Seal Length: 1 feet from 16 feet to 17 feet

Surface Seal Material: Portland Cement

Surface Seal Length: ____ feet from 0 feet to 16 feet

WELL DEVELOPMENT DATA

Well Development Date: 8/30/19

Well Development Method (check one): ☐ Surge/Pump ☑ Pump ☐ Compressed Air ☐ Other (describe)

Development Pump Type (check): ☑ Centrifugal ☐ Peristaltic ☐ Submersible ☐ Other (describe)

Depth to Groundwater (before developing in feet): 3

Pumping Rate (gallons per minute): 1

Maximum Drawdown of Groundwater During Development (feet): 0

Well Purged Dry (check one): ☐ Yes ☑ No

Pumping Condition (check one): ☑ Continuous ☐ Intermittent

Total Development Water Removed (gallons): 95

Development Duration (minutes): 95

Development Water Drummed (check one): ☐ Yes ☑ No

Water Appearance (color and odor) At Start of Development: Brown, no odor

Water Appearance (color and odor) At End of Development: Clear, no odor

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

UNIVERSAL ENGINEERING SCIENCES
WELL CONSTRUCTION DETAIL

PROJECT NO.: 2110.1900103.0000
DOCs NO.:
FIGURE NO.:

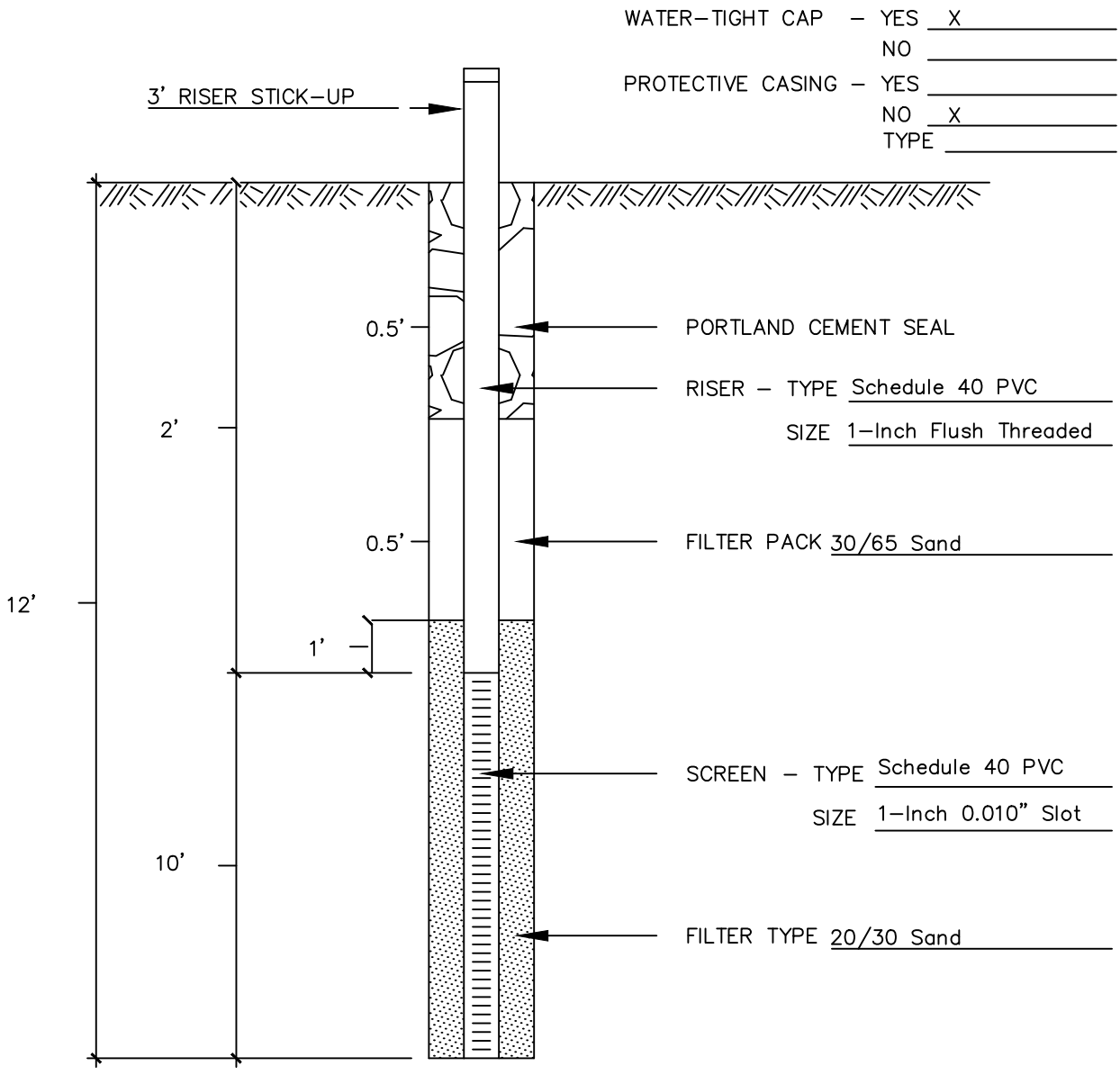
PROJECT: PROPOSED PUBLIX CUTLER BAY

CLIENT: Publix Super Markets, Inc. c/o KIC Real Estate Services DATE: July 30 & 31, 2019

WELL NUMBER: MW–1 through MW–12 LOCATION: South side of Old Cutler Road and SW 208th Street

INSTALLED BY: Earth Nurse Environmental

WELL DIAGRAM - NOT TO SCALE



UNIVERSAL ENGINEERING SCIENCES
WELL CONSTRUCTION DETAIL

PROJECT NO.: 2110.1900103.0000
DOCs NO.:
FIGURE NO.:

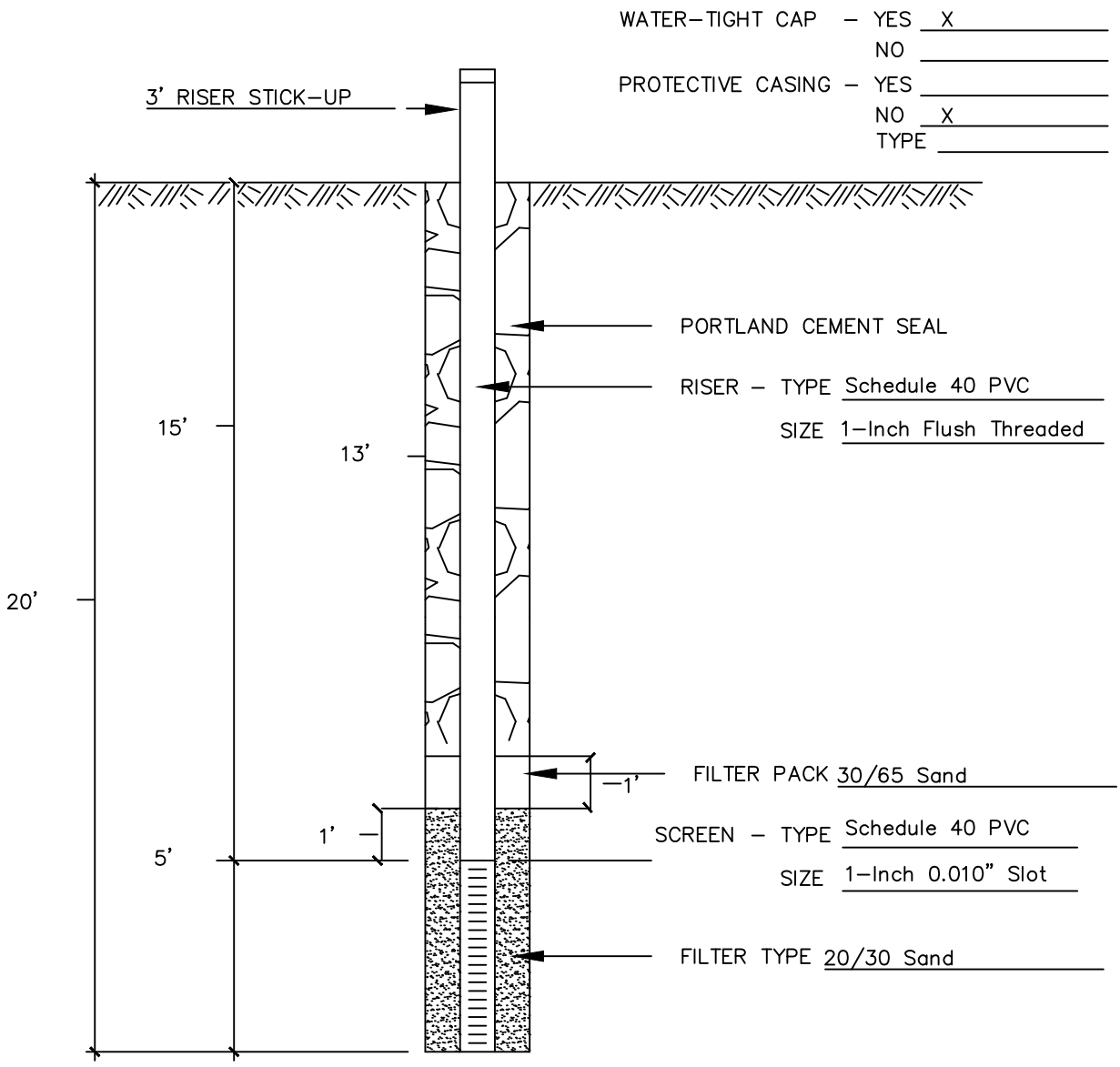
PROJECT: PROPOSED PUBLIX CUTLER BAY

CLIENT: Publix Super Markets, Inc. c/o KIC Real Estate Services DATE: August 28, 2019

WELL NUMBER: MW-1I LOCATION: South side of Old Cutler Road and SW 208th Street

INSTALLED BY: Earth Nurse Environmental

WELL DIAGRAM - NOT TO SCALE



UNIVERSAL ENGINEERING SCIENCES
WELL CONSTRUCTION DETAIL

PROJECT NO.: 2110.1900103.0000
DOCs NO.:
FIGURE NO.:

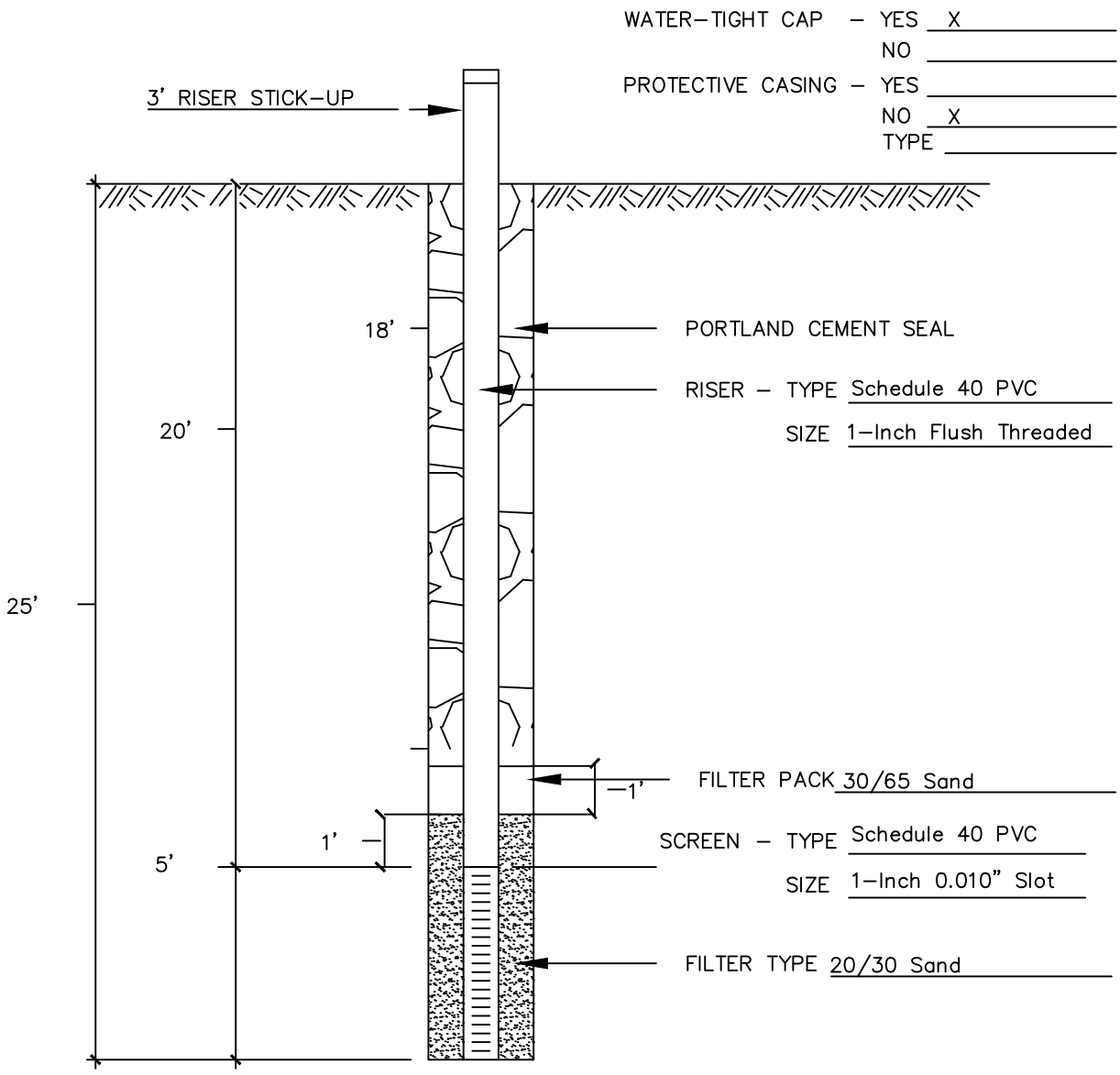
PROJECT: PROPOSED PUBLIX CUTLER BAY

CLIENT: Publix Super Markets, Inc. c/o KIC Real Estate Services DATE: August 28, 2019

WELL NUMBER: MW-2I & MW-3I LOCATION: South side of Old Cutler Road and SW 208th Street

INSTALLED BY: Earth Nurse Environmental

WELL DIAGRAM - NOT TO SCALE



UNIVERSAL ENGINEERING SCIENCES
WELL CONSTRUCTION DETAIL

PROJECT NO.: 2110.1900103.0000
DOCs NO.:
FIGURE NO.:

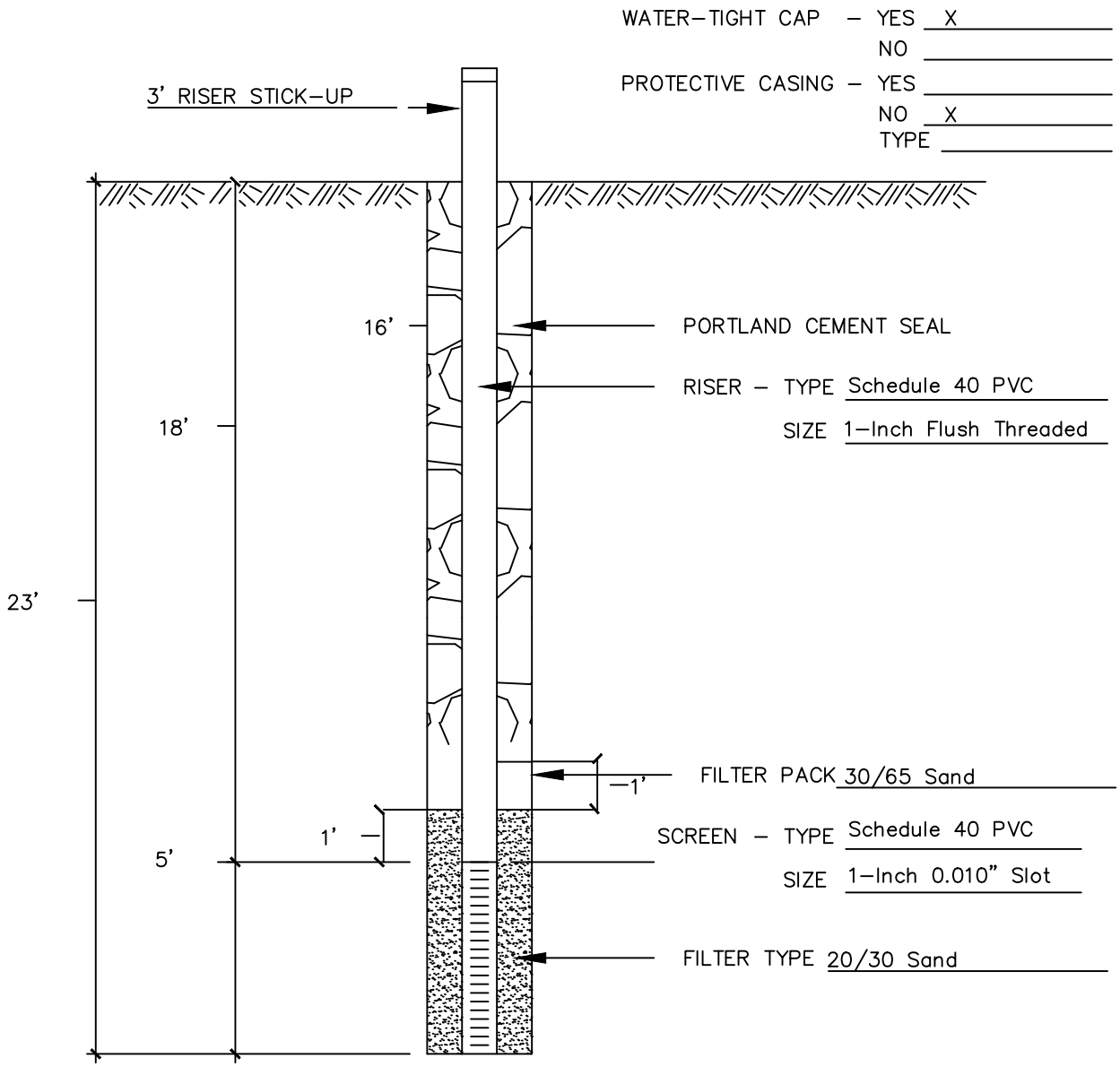
PROJECT: PROPOSED PUBLIX CUTLER BAY

CLIENT: Publix Super Markets, Inc. c/o KIC Real Estate Services DATE: August 30, 2019

WELL NUMBER: MW-4I & MW-10I LOCATION: South side of Old Cutler Road and SW 208th Street

INSTALLED BY: Earth Nurse Environmental

WELL DIAGRAM - NOT TO SCALE



UNIVERSAL ENGINEERING SCIENCES
WELL CONSTRUCTION DETAIL

PROJECT NO.: 2110.1900103.0000
DOCs NO.:
FIGURE NO.:

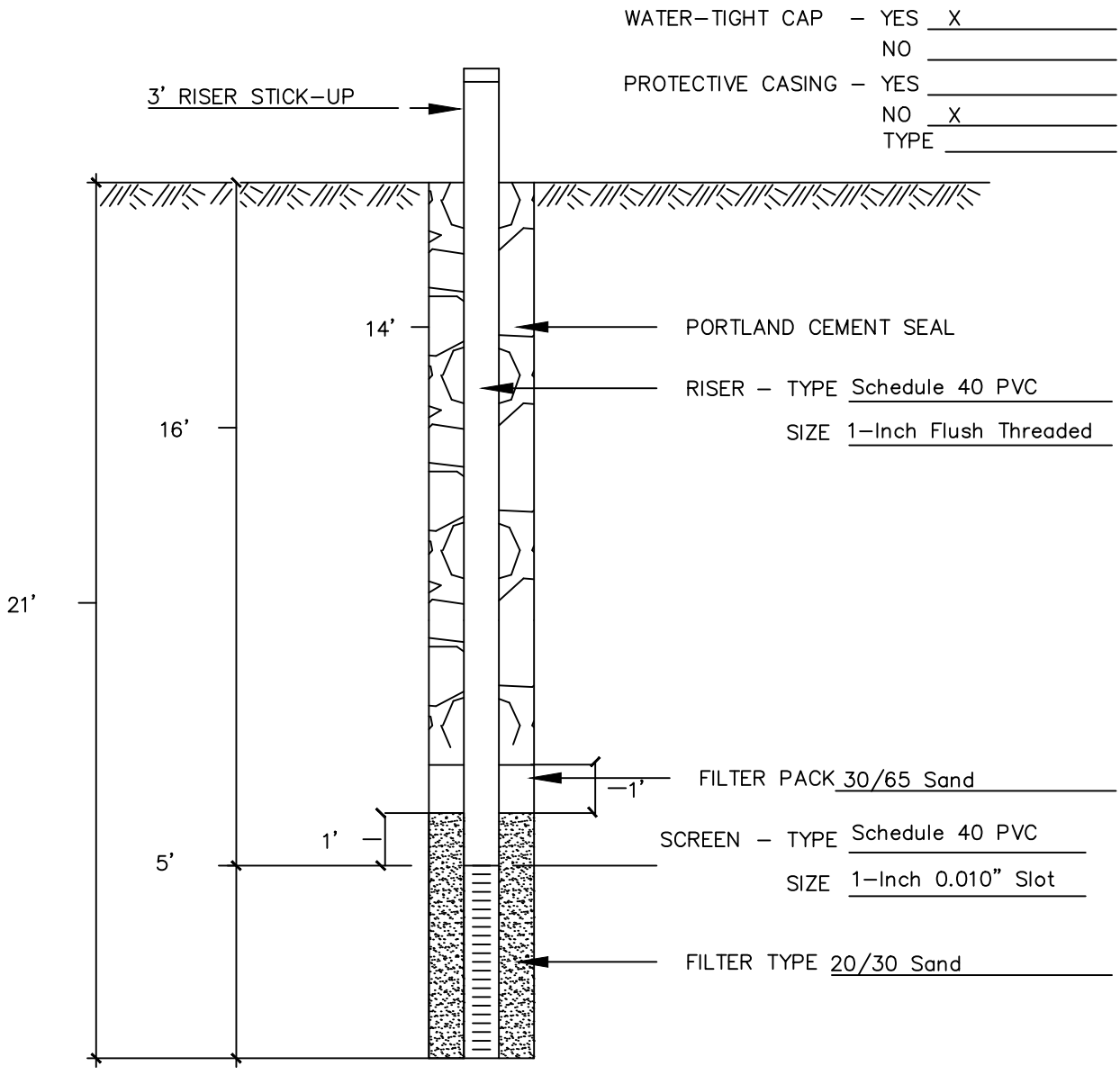
PROJECT: PROPOSED PUBLIX CUTLER BAY

CLIENT: Publix Super Markets, Inc. c/o KIC Real Estate Services DATE: September 5, 2019

WELL NUMBER: MW-9I LOCATION: South side of Old Cutler Road and SW 208th Street

INSTALLED BY: Earth Nurse Environmental

WELL DIAGRAM - NOT TO SCALE



DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Proposed Publix	SITE LOCATION: Old Cutler Road & SW 208 street	
WELL NO: MW-1	SAMPLE ID: MW-1	DATE: 8/16/19

PURGING DATA

WELL DIAMETER (inches): 1	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 2 feet to 12 feet	STATIC DEPTH TO WATER (feet): 2.89	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (12 feet – 2.89 feet) X 0.04 gallons/foot = 0.36 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 7	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 7	PURGING INITIATED AT: 7:34	PURGING ENDED AT: 7:55	TOTAL VOLUME PURGED (gallons): 3.15

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (°C)	COND. (circle units) µmhos/cm or mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
7:49	2.25	2.25	0.15	2.89	6.91	23.80	~~669~~ 654	2.9	19.5	clear	none
7:52	0.45	2.7	0.15	2.89	6.91	23.81	649	2.3	13.7	clear	none
7:55	0.45	3.15	0.15	2.89	6.91	23.81	648	2.2	13.2	clear	none

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Daniel Infante / UES	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 7:56	SAMPLING ENDED AT: 8:06
PUMP OR TUBING DEPTH IN WELL (feet): 7	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-1	1	HDPE	250mL	HNO_3			6010	APP	250
↓	1	HDPE	250mL	H_2SO_4			350.1 & 353.2	↓	↓
↓	2	AG	1 L	None			8081 & 8141		

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Proposed Publix	SITE LOCATION: Old Cutler Road & SW 208 Street	
WELL NO: MW-2	SAMPLE ID: MW-2	DATE: 8/6/19

PURGING DATA

WELL DIAMETER (inches): 1	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 2 feet to 12 feet	STATIC DEPTH TO WATER (feet): 3.23	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (12 feet – 3.23 feet) X 0.04 gallons/foot = 0.35 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 7	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 7	PURGING INITIATED AT: 8:29	PURGING ENDED AT: 8:41	TOTAL VOLUME PURGED (gallons): 3.30

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
8:37	2.7	2.7	0.15	3.23	6.95	24.03	607	1.8	19.1	clear	none
8:39	0.30	3.00	0.15	3.23	6.95	24.04	606	1.6	14.9	clear	none
8:41	0.30	3.30	0.15	3.23	6.96	24.06	606	1.5	15.7	clear	none

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Daniel Infante / VES	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 8:42	SAMPLING ENDED AT: 8:52
PUMP OR TUBING DEPTH IN WELL (feet): 7	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-2	1	HDPE	250mL	HNO_3			6010	APP	250
↓	1	HDPE	250 mL	H_2SO_4			350.1 & 353.2	APP	↓
	2	AG	1L	None			8081 & 8141	APP	

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **SM** = Straw Method (Tubing Gravity Drain); **ESP** = Electric Submersible Pump; **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME:	Proposed Publix	SITE LOCATION:	Old Cutler Road & SW 208 Street
WELL NO:	MW-3	SAMPLE ID:	MW-3
DATE:	8/6/19		

PURGING DATA

WELL DIAMETER (inches):	1	TUBING DIAMETER (inches):	3/8	WELL SCREEN INTERVAL DEPTH:	2 feet to 12 feet	STATIC DEPTH TO WATER (feet):	3.44	PURGE PUMP TYPE OR BAILER:	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (12 feet – 3.44 feet) X 0.04 gallons/foot = 0.34 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	7	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	7	PURGING INITIATED AT:	9:00	PURGING ENDED AT:	9:19	TOTAL VOLUME PURGED (gallons):	2.85

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) mg/L or (% saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
9:15	2.25	2.25	0.15	3.44	6.90	24.47	473	0.9	18.1	clear	none
9:17	0.3	2.55	0.15	3.44	6.90	24.41	470	0.8	16.4	clear	none
9:19	0.3	2.85	0.15	3.44	6.89	24.40	469	0.8	15.7	clear	none

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	Daniel Infante / UES	SAMPLER(S) SIGNATURE(S):		SAMPLING INITIATED AT:	9:20	SAMPLING ENDED AT:	9:30
PUMP OR TUBING DEPTH IN WELL (feet):	7	TUBING MATERIAL CODE:	HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:		FILTER SIZE: ____ µm	
FIELD DECONTAMINATION:	PUMP Y (N)	TUBING Y (N) (replaced)		DUPLICATE: Y (N)			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-3	1	HDPE	250mL	HNO_3				APP	250
↓	1	HDPE	250mL	H_2SO_4				↓	↓
↓	2	AG	1L	None				↓	↓

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Proposed Publix	SITE LOCATION: Old Cutler Road & SW 208 Street	
WELL NO: MW-4	SAMPLE ID: MW-4	DATE: 8/16/19

PURGING DATA

WELL DIAMETER (inches): 1	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 2 feet to 12 feet	STATIC DEPTH TO WATER (feet): 3.02	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (12 feet – 3.02 feet) X 0.04 gallons/foot = 0.36 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 7	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 7	PURGING INITIATED AT: 13:40	PURGING ENDED AT: 14:34	TOTAL VOLUME PURGED (gallons): 8.10

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
14:30	7.5	7.5	0.15	3.02	7.10	23.91	544	2.5	26.8	clear	none
14:32	0.30	7.80	0.15	3.02	7.10	23.94	544	3.1	23.8	clear	none
14:34	0.30	8.10	0.15	3.02	7.10	23.93	544	2.7	24.2	clear	none

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02, **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Daniel Infante / UES	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 14:35	SAMPLING ENDED AT: 14:45
PUMP OR TUBING DEPTH IN WELL (feet): 7	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-4	1	HDPE	250mL	HNO_3			6010	APP	250
↓	1	HDPE	250mL	H_2SO_4			350.1 & 353.2	↓	↓
	2	AG	1L	None			8081 & 8141		

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Proposed Publix	SITE LOCATION: Old Cutler Road	
WELL NO: MW-5	SAMPLE ID: MW-5	DATE: 8/6/19

PURGING DATA

WELL DIAMETER (inches): 1	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 2 feet to 12 feet	STATIC DEPTH TO WATER (feet): 3.29	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (12 feet – 3.29 feet) X 0.04 gallons/foot = 0.34 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 7	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 7	PURGING INITIATED AT: 9:31	PURGING ENDED AT: 9:50	TOTAL VOLUME PURGED (gallons): 2.85

TIME	VOLUME PURGED (gallons)	CUMUL VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (°C)	COND (circle units) µmhos/cm or (mS/cm)	DISSOLVED OXYGEN (circle units) mg/L or (% saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
9:46	2.25	2.25	0.15	3.29	6.73	24.91	528	0.9	19.0	clear	none
9:48	0.30	2.55	0.15	3.29	6.73	24.97	526	0.8	13.7	clear	none
9:50	0.30	2.85	0.15	3.29	6.73	24.95	525	0.8	14.0	clear	none

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Daniel Infante / VES	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 9:51	SAMPLING ENDED AT: 10:01
PUMP OR TUBING DEPTH IN WELL (feet): 7	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-5	1	HDPE	250mL	HNO_3			6010	APP	250
↓	1	HDPE	250mL	H_2SO_4			350.1 & 353.2	↓	↓
	2	AG	1L	None			8081 & 8141		

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Proposed Publix	SITE LOCATION: Old Cutler Road & SW 208th Street, Cutler Bay, FL	
WELL NO: MW-6	SAMPLE ID: MW-6	DATE: 8-6-19

PURGING DATA

WELL DIAMETER (inches): 1	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 2 feet to 12 feet	STATIC DEPTH TO WATER (feet): 2.96	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)

= (12 feet – 2.96 feet) X 0.04 gallons/foot = 0.36 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 7	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 7	PURGING INITIATED AT: 1634	PURGING ENDED AT: 1701	TOTAL VOLUME PURGED (gallons): 3.24

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1649	1.80	1.80	0.12	2.96	7.01	26.11	575	12.2	33.5	Clear	Sulfur
1652	0.36	2.16	0.12	2.96	7.01	26.11	575	11.7	21.6	Clear	Sulfur
1655	0.36	2.52	0.12	2.96	7.01	26.10	575	10.8	18.3	Clear	Sulfur
1658	0.36	2.88	0.12	2.96	7.01	26.10	576	10.2	16.9	Clear	Sulfur
1701	0.36	3.24	0.12	2.96	7.01	26.10	576	9.9	15.4	Clear	Sulfur

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Paul Soneaux / UES	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1702	SAMPLING ENDED AT: 1712
PUMP OR TUBING DEPTH IN WELL (feet): 7	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-6	2	AG	1L	None	–	–	8081+8141	APP	240
MW-6	1	HDPE	250mL	HNO_3	–	–	6010	APP	240
MW-6	1	HDPE	250mL	H_2SO_4	–	–	350.1+353.2	APP	240

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Proposed Publix		SITE LOCATION: Old Cutler Road & SW 208th Street, Cutler Bay, FL
WELL NO: MW-7	SAMPLE ID: MW-7	DATE: 8/6/19

PURGING DATA

WELL DIAMETER (inches): 1	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 2 feet to 12 feet	STATIC DEPTH TO WATER (feet): 3.01	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)

= (12 feet – 3.01 feet) X 0.04 gallons/foot = 0.36 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 7	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 7	PURGING INITIATED AT: 1550	PURGING ENDED AT: 1612	TOTAL VOLUME PURGED (gallons): 2.64

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1603	1.56	1.56	0.12	3.01	6.82	26.22	604	11.3	22.1	Clear	Sulfur
1606	0.36	1.92	0.12	3.00	6.82	26.22	604	11.0	18.2	Clear	Sulfur
1609	0.36	2.28	0.12	3.00	6.82	26.22	604	10.8	14.9	Clear	Sulfur
1612	0.36	2.64	0.12	3.00	6.82	26.22	604	10.3	12.4	Clear	Sulfur

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Paul Samaux / WES	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1613	SAMPLING ENDED AT: 1623
PUMP OR TUBING DEPTH IN WELL (feet): 7	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y N (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION / SAMPLE PRESERVATION (including wet ice)

SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-7	2	AG	1L	None	-	-	8081 + 8141	APP	240
MW-7	1	HDPE	250mL	HNO_3	-	-	6010	APP	240
MW-7	1	HDPE	250mL	H_2SO_4	-	-	350.1 + 353.2	APP	240

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Proposed Publix	SITE LOCATION: Old Cutler Road & 152nd St	
WELL NO: MW-8	SAMPLE ID: MW-8	DATE: 8/16/19

PURGING DATA

WELL DIAMETER (inches): 1	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 2 feet to 12 feet	STATIC DEPTH TO WATER (feet): 3.51	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (12 feet – 3.51 feet) X 0.04 gallons/foot = 0.34 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 7	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 7	PURGING INITIATED AT: 15:50	PURGING ENDED AT: 16:26	TOTAL VOLUME PURGED (gallons): 5.40

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (°C)	COND (circle units) µmhos/cm or mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
16:20	4.5	4.5	0.15	3.51	6.79	23.89	622	2.9	15.2	clear	none
16:23	0.45	4.95	0.15	3.51	6.79	23.86	621	3.3	11.8	clear	none
16:26	0.45	5.40	0.15	3.51	6.80	23.83	621	3.2	10.9	clear	none

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Daniel Infante / VES	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 16:27	SAMPLING ENDED AT: 16:37
PUMP OR TUBING DEPTH IN WELL (feet): 7	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-8	1	HDPE	250 mL	HNO_3			6010	APP	250
↓	1	HDPE	250 mL	H_2SO_4			350.1 & 353.2	↓	↓
	2	AG	1 L	None			8081 & 8141		

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME:	Proposed Publix	SITE LOCATION:	Old Cutler Road & SW 208 Street
WELL NO:	MW-9	SAMPLE ID:	MW-9
		DATE:	8/6/19

PURGING DATA

WELL DIAMETER (inches):	1	TUBING DIAMETER (inches):	3/8	WELL SCREEN INTERVAL DEPTH:	2 feet to 12 feet	STATIC DEPTH TO WATER (feet):	3.46	PURGE PUMP TYPE OR BAILER:	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (12 feet – 3.46 feet) X 0.04 gallons/foot = 0.34 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	7	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	7	PURGING INITIATED AT:	16:50	PURGING ENDED AT:	17:36	TOTAL VOLUME PURGED (gallons):	6.90

TIME	VOLUME PURGED (gallons)	CUMUL VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) mg/L or (% saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
17:30	6.0	6.0	0.15	3.46	6.69	23.90	679	1.2	16.8	clear	none
17:33	0.45	6.45	0.15	3.46	6.70	23.91	678	1.3	12.6	clear	none
17:36	0.45	6.90	0.15	3.46	6.71	23.86	676	1.3	11.5	clear	none

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	Daniel Infante / UES	SAMPLER(S) SIGNATURE(S):		SAMPLING INITIATED AT:	17:37	SAMPLING ENDED AT:	17:47
PUMP OR TUBING DEPTH IN WELL (feet):	7	TUBING MATERIAL CODE:	HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:		FILTER SIZE: ____ µm	
FIELD DECONTAMINATION: PUMP Y (N)		TUBING Y (N) (replaced)		DUPLICATE: Y (N)			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-9	1	HDPE	250 mL	HNO_3			6010	APP	250
↓	1	HDPE	250 mL	H_2SO_4			350.1 & 353.2	↓	↓
↓	2	AG	1 L	None			8081 & 8141	↓	↓

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Proposed Publix	SITE LOCATION: Old Cutler Road & SW 208th Street, Cutler Bay, FL	
WELL NO: MW-10	SAMPLE ID: MW-10	DATE: 8-6-19

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: 2 feet to 12 feet	STATIC DEPTH TO WATER (feet): 2.52	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)

= (12 feet – 2.52 feet) X 0.04 gallons/foot = 0.38 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 7	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 7	PURGING INITIATED AT: 1730	PURGING ENDED AT: 1757	TOTAL VOLUME PURGED (gallons): 3.24

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) mg/L or (% saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1745	1.80	1.80	0.12	2.52	6.89	26.02	667	13.3	34.5	Clear	Sulfur
1748	0.36	2.16	0.12	2.52	6.89	26.02	667	13.0	21.1	Clear	Sulfur
1751	0.36	2.52	0.12	2.52	6.89	26.02	667	12.8	19.2	Clear	Sulfur
1754	0.36	2.88	0.12	2.52	6.89	26.03	666	12.7	17.5	Clear	Sulfur
1757	0.36	3.24	0.12	2.52	6.89	26.03	665	12.1	16.8	Clear	Sulfur

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Paul Sanegux / UES	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1758	SAMPLING ENDED AT: 1808
PUMP OR TUBING DEPTH IN WELL (feet): 7	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-10	2	AG	1L	None	–	–	8081+8141	APP	240
MW-10	1	HDPE	250mL	HNO_3	–	–	6010	APP	240
MW-10	1	HDPE	250mL	H_2SO_4	–	–	350.1+353.2	APP	240

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Proposed Publix	SITE LOCATION: Old Cutler Road & SW 208th Street, Cutler Bay, FL
WELL NO: MW-11	SAMPLE ID: MW-11
	DATE: 8/6/19

PURGING DATA

WELL DIAMETER (inches): 1	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 2 feet to 12 feet	STATIC DEPTH TO WATER (feet): 2.82	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)

= (12 feet – 2.82 feet) X 0.04 gallons/foot = 0.37 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 7	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 7	PURGING INITIATED AT: 1448	PURGING ENDED AT: 1504	TOTAL VOLUME PURGED (gallons): 2.08 1.92 PS

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
PS 1458	1.30	1.30	0.13	2.82	7.45	25.86	585	9.8	9.50	clear	sulfur
1456	0.39	1.69	0.13	2.82	7.44	25.86	585	9.5	6.38	clear	sulfur
1504	0.39	2.08	0.13	2.82	7.45	25.86	585	9.1	3.12	clear	sulfur

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Paul Sanpaux / HES	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1506	SAMPLING ENDED AT: 1516
PUMP OR TUBING DEPTH IN WELL (feet): 7	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y N (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION / **SAMPLE PRESERVATION** (including wet ice)

SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-11	2	AG	1L	None	-	-	8081 + 8141	APP	240
MW-11	1	HDPE	250mL	HNO_3	-	-	6010	APP	240
MW-11	1	HDPE	250mL	H_2SO_4	-	-	350.1 + 353.2	APP	240

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Proposed Publix	SITE LOCATION: Old Cutler Road & SW 208 ST		
WELL NO: MW-12	SAMPLE ID: MW-12	DATE: 8/6/19	

PURGING DATA

WELL DIAMETER (inches): 1	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 2 feet to 12 feet	STATIC DEPTH TO WATER (feet): 3.33	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (12 feet – 3.33 feet) X 0.04 gallons/foot = 0.34 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 7	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 7	PURGING INITIATED AT: 15:00	PURGING ENDED AT: 15:21	TOTAL VOLUME PURGED (gallons): 3.15

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) mg/L or (% saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
15:15	2.25	2.25	0.15	3.33	7.13	24.03	548	1.3	17.0	clear	none
15:18	0.45	2.70	0.15	3.33	7.13	24.01	548	1.5	14.5	clear	none
15:21	0.45	3.15	0.15	3.33	7.13	24.02	547	1.5	13.9	clear	none

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Daniel Infante / UES	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 15:22	SAMPLING ENDED AT: 15:32
PUMP OR TUBING DEPTH IN WELL (feet): 7	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-12	1	HDPE	250mL	HNO_3			6010	APP	250
↓	1	HDPE	250mL	H_2SO_4			350.1 & 353.2	↓	↓
	2	AG	1L	None			8081 & 8141		

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Proposed Publix	SITE LOCATION: 28 Cutler Road & SW 208 Street	
WELL NO: MW-1I	SAMPLE ID: MW-1I	DATE: 9/6/19

PURGING DATA

WELL DIAMETER (inches): 1	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 15 feet to 20 feet	STATIC DEPTH TO WATER (feet): 3.61	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (20 feet – 3.61 feet) X 0.04 gallons/foot = 0.66 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
18	18	14:04	14:28	2.64

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (°C)	COND (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) mg/L or (% saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
14:24	2.2	2.2	0.11	3.61	7.16	27.88	603	2.5	5.85	clear	none
14:26	0.22	2.42	0.11	3.61	7.16	27.85	603	2.3	5.89	clear	none
14:28	0.22	2.64	0.11	3.61	7.16	27.82	603	2.2	5.90	clear	none

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Daniel Infante / VES	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 14:29	SAMPLING ENDED AT: 14:31
PUMP OR TUBING DEPTH IN WELL (feet): 18	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: (Y) N Filtration Equipment Type:	FILTER SIZE: 0.45 µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-1I	1	HDPE	250mL	HNO_3			As, Fe Total 6010	PP	250
↓	1	HDPE	250mL	↓			As, Fe Diss 6010	↓	↓

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Proposed Publix		SITE LOCATION: Old Cutler Road & SW 208 Street	
WELL NO: MW-3I	SAMPLE ID: MW-3I		DATE: 9/6/19

PURGING DATA

WELL DIAMETER (inches): 1	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 20 feet to 25 feet	STATIC DEPTH TO WATER (feet): 3.70	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (25 feet – 3.70 feet) X 0.04 gallons/foot = 0.85 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 23	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 23	PURGING INITIATED AT: 13:02	PURGING ENDED AT: 13:32	TOTAL VOLUME PURGED (gallons): 3.74

TIME	VOLUME PURGED (gallons)	CUMUL VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) mg/L or (% saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
13:32	3.3	3.3	0.11	3.70	7.09	27.93	587	3.6	7.51	clear	none
13:34	0.22	3.52	0.11	3.70	7.09	27.83	586	2.3	7.28	clear	none
13:36	0.22	3.74	0.11	3.70	7.09	27.82	589	1.7	5.92	clear	none

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Daniel Infante / VES	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 13:36	SAMPLING ENDED AT: 13:38
PUMP OR TUBING DEPTH IN WELL (feet): 23	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: 0.45 µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-3I	1	HDPE	250mL	HNO_3			As, Fe Total 6010	APP	250
↓	1	↓	↓	↓			As, Fe Diss 6010	↓	↓

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Proposed Publix	SITE LOCATION: Old Cutler Road & SW 208 Street		
WELL NO: MW-4I	SAMPLE ID: MW-4I	DATE: 9/6/19	

PURGING DATA

WELL DIAMETER (inches): 1	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 18 feet to 23 feet	STATIC DEPTH TO WATER (feet): 3.48	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (23 feet – 3.48 feet) x 0.04 gallons/foot = 0.78 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 21	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 21	PURGING INITIATED AT: 12:36	PURGING ENDED AT: 12:56	TOTAL VOLUME PURGED (gallons): 2.20

TIME	VOLUME PURGED (gallons)	CUMUL VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
12:52 12:52 DI	1.76	1.76	0.11	3.48	7.29	27.33	581	4.9	5.87	clear	sulfur
12:54 12:54 DI	0.22	1.98	0.11	3.48	7.26	27.31	580	4.6	4.12	clear	sulfur
12:58	0.22	2.20	0.11	3.48	7.25	27.34	580	3.3	4.02	clear	sulfur

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Daniel Infante / UES	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 12:56	SAMPLING ENDED AT: 12:58
PUMP OR TUBING DEPTH IN WELL (feet): 21	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: (Y) N Filtration Equipment Type:	FILTER SIZE 0.45 µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW4I	1	HDPE	250 mL	HNO_3			As, Fe Total 6010	APP	250
↓	↓		↓	↓			As, Fe Diss. 6010	↓	↓

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Proposed Publix	SITE LOCATION: Old Cutler Road & 208 Street	
WELL NO: MW-2I	SAMPLE ID: MW-2I	DATE: 9/16/19

PURGING DATA

WELL DIAMETER (inches): 1	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 20 feet to 25 feet	STATIC DEPTH TO WATER (feet): 3.31	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (25 feet – 3.31 feet) X 0.04 gallons/foot = 0.86 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 23	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 23	PURGING INITIATED AT: 11:36	PURGING ENDED AT: 12:06	TOTAL VOLUME PURGED (gallons): 3.3

TIME	VOLUME PURGED (gallons)	CUMUL VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
12:02	2.86	2.86	0.11	3.31	7.26	27.29	600	8.0	7.87	clear	sulfur
12:04	0.22	3.08	0.11	3.31	7.24	27.28	596	6.3	6.30	clear	sulfur
12:06	0.22	3.3	0.11	3.31	7.24	27.29	595	5.8	5.73	clear	sulfur

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Daniel Infante / UES	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 12:07	SAMPLING ENDED AT: 12:09
PUMP OR TUBING DEPTH IN WELL (feet): 23	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: (Y) N Filtration Equipment Type:	FILTER SIZE: 0.45 µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-2I	1	HDPE	250mL	HNO_3			As, Fe Total 6010	APP	250
↓	↓	↓	↓	↓			As, Fe Diss 6010	↓	↓

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Proposed Publix	SITE LOCATION: Old Cutler Road & SW 208 Street	
WELL NO: MW-9I	SAMPLE ID: MW-9I	DATE: 9/6/19

PURGING DATA

WELL DIAMETER (inches): 1	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 16 feet to 21 feet	STATIC DEPTH TO WATER (feet): 3.69	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (21 feet – 3.69 feet) X 0.04 gallons/foot = 0.69 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 19	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 19	PURGING INITIATED AT: 15:05	PURGING ENDED AT: 15:29	TOTAL VOLUME PURGED (gallons): 2.64

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (°C)	COND (circle units) µmhos/cm or mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
15:25	2.2	2.2	0.11	3.69	7.21	27.09	617	31	5.95	clear	none
15:27	0.22	2.42	0.11	3.69	7.20	27.02	616	2.7	5.66	clear	none
15:29	0.22	2.64	0.11	3.69	7.20	27.04	616	2.1	5.24	clear	none

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Daniel Infante / VES	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 15:30	SAMPLING ENDED AT: 15:32
PUMP OR TUBING DEPTH IN WELL (feet): 19	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: (Y) N Filtration Equipment Type:	FILTER SIZE: 0.45 µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-9I	1	HDPE	250mL	HNO_3			As, Fe Total 6010	APP	250
↓	↓	↓	↓	↓			As, Fe Diss 6010	↓	↓

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Proposed Publix		SITE LOCATION: Old Cutler Road & SW 208 Street	
WELL NO: MW-10I	SAMPLE ID: MW-10I		DATE: 9/6/19

PURGING DATA

WELL DIAMETER (inches): 1	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 18 feet to 23 feet	STATIC DEPTH TO WATER (feet): 3.04	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (23 feet – 3.04 feet) X 0.04 gallons/foot = 0.79 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 21	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 21	PURGING INITIATED AT: 15:51	PURGING ENDED AT: 16:25	TOTAL VOLUME PURGED (gallons): 3.74

TIME	VOLUME PURGED (gallons)	CUMUL VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (°C)	COND (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
16:21	3.30	3.30	0.11	3.04	7.18	26.99	619	1.7	2.78	clear	sulfur
16:23	0.22	3.52	0.11	3.04	7.18	27.01	618	2.1	2.67	clear	sulfur
16:25	0.22	3.74	0.11	3.04	7.17	27.03	617	1.9	2.49	clear	sulfur

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Daniel Infante / VES	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 16:26	SAMPLING ENDED AT: 16:28
PUMP OR TUBING DEPTH IN WELL (feet): 21	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: (Y) N Filtration Equipment Type:	FILTER SIZE: 0.45 µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-10I	1	HDPE	250mL	HNO_3			As, Fe Total 6010	APP	250
↓	↓	↓	↓	↓			As, Fe Diss. 6010	↓	↓

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

APPENDIX D

UNIVERSAL
ENGINEERING SCIENCES

Table I
Summary of Soil Analytical Data-Site Assessment Report
Southeast Corner of Old Cutler Road and SW 208th Street
Cutler Bay, Miami-Dade County, Florida

			Sample Name	CS-1 (0-6")	CS-1 (6"-24")	CS-2 (0-6")	CS-2 (6"-24")	CS-3 (0-6")	CS-3 (6"-24")	CS-4 (0-6")	CS-4 (6"-24")
			Sample Collection Date	07/29/2019	07/29/2019	07/29/2019	07/29/2019	07/29/2019	07/29/2019	07/29/2019	07/29/2019
			Log Number	632441-001	632441-002	632441-003	632441-004	632441-005	632441-006	632441-007	632441-008
Parameter	**Soil Leach Based on GW**	**Soil-Res - Direct Exposure**	**Soil C/I - Direct Exposure**								
EPA 6010											
Arsenic	NA	2.10	12.0	0.423 U	**10.3**	**3.45**	**19.6**	0.548 U	**17.1**	**10.9**	0.575 U
Chromium	38.0	310	470	**5.58**	**5.40**	0.104 U	**9.58**	0.0911 U	**8.87**	**7.16**	0.0955 U
Copper	NA	150	89000	**13.3**	**19.7**	**2.38 I**	**30.8**	0.573 U	**29.4**	**25.1**	0.601 U
Iron	NA	53000	NA	**791**	**1390**	**1040**	**1540**	**989**	**1290**	**1400**	**1130**
Lead	NA	400	1400	0.475 U	**1.31 I**	0.700 U	**5.40**	0.616 U	**6.49**	**4.95**	0.646 U
Manganese	NA	3500	43000	**103**	**165**	**72.2**	**243**	**28.7**	**208**	**186**	**25.0**
EPA 8081											
4,4-DDD	5.8	4.2	22	0.000846 U	0.00110 U	0.00118 U	0.00114 U	0.00110 U	0.00111 U	0.00125 U	0.00105 U
4,4-DDE	18	2.9	15	0.00183 U	0.00237 U	0.00255 U	0.00245 U	0.00237 U	0.00240 U	0.00270 U	0.00226 U
4,4-DDT	11	2.9	15	**0.000471 I**	**0.000375 I**	0.000388 U	0.000374 U	0.000361 U	**0.000475 I**	0.000411 U	0.000345 U
Aldrin	0.200	0.0600	0.300	0.000398 U	0.000517 U J	0.000555 U	0.000534 U	0.000516 U	0.000522 U	0.000588 U	0.000493 U
Alpha-BHC	0.000300	0.100	0.600	0.000745 U	0.000969 U J	0.00104 U	0.00100 U	0.000968 U	0.000979 U	0.00110 U	0.000923 U
Alpha-Chlordane	NA	NA	NA	0.000626 U	0.000813 U	0.000873 U	0.000840 U	0.000812 U	0.000821 U	0.000925 U	0.000775 U
Beta-BHC	0.00100	0.500	2.40	0.000519 U	0.000675 U	0.000725 U	0.000698 U	0.000674 U	0.000682 U	0.000768 U	0.000643 U
Delta-BHC	0.200	24.0	490	0.00183 U	0.00237 U	0.00255 U	0.00245 U	0.00237 U	0.00240 U	0.00270 U	0.00226 U
Dieldrin	0.00200	0.0600	0.300	0.000186 U	0.000241 U	0.000259 U	0.000249 U	0.000241 U	0.000244 U	0.000275 U	0.000230 U
Endosulfan I	NA	NA	NA	0.000221 U	0.000288 U	0.000309 U	0.000297 U	0.000287 U	0.000291 U	0.000327 U	0.000274 U
Endosulfan II	NA	NA	NA	0.000408 U	0.000530 U	0.000570 U	0.000548 U	0.000530 U	0.000536 U	0.000603 U	0.000505 U
Endosulfan Sulfate	NA	NA	NA	0.000302 U	0.000393 U	0.000422 U	0.000406 U	0.000393 U	0.000397 U	0.000447 U	0.000374 U
Endrin	1.00	25.0	510	0.000319 U	0.000414 U	0.000445 U	0.000428 U	0.000414 U	0.000419 U	0.000471 U	0.000395 U
Endrin Aldehyde	NA	NA	NA	0.000271 U	0.000352 U	0.000378 U	0.000364 U	0.000352 U	0.000356 U	0.000401 U	0.000336 U
Endrin Ketone	NA	NA	NA	0.000395 U	0.000514 U	0.000552 U	0.000531 U	0.000514 U	0.000519 U	0.000585 U	0.000490 U
Gamma-BHC (Lindane)	0.00900	0.700	2.50	0.000481 U	0.000625 U J	0.000671 U	0.000646 U	0.000625 U	0.000631 U	0.000711 U	0.000596 U
Gamma-Chlordane	NA	NA	NA	0.000837 U	0.00109 U	0.00117 U	0.00112 U	0.00109 U	0.00110 U	0.00124 U	0.00104 U
Heptachlor	23.0	0.200	1.00	0.000616 U	0.000801 U	0.000860 U	0.000828 U	0.000800 U	0.000809 U	0.000911 U	0.000763 U
Heptachlor Epoxide	0.600	0.100	0.500	0.000268 U	0.000349 U	0.000375 U	0.000361 U	0.000349 U	0.000352 U	0.000397 U	0.000332 U
Methoxychlor	160	420	8800	0.000555 U	0.000722 U	0.000775 U	0.000746 U	0.000721 U	0.000729 U	0.000821 U	0.000688 U
Chlordane	9.60	2.80	14.0	0.0262 U	0.0341 U	0.0366 U	0.0352 U	0.0340 U	0.0344 U	0.0387 U	0.0325 U
Toxaphene	31.0	0.900	4.50	0.0124 U	0.0161 U	0.0173 U	0.0167 U	0.0161 U	0.0163 U	0.0184 U	0.0154 U
EPA 8141											
azinphos-methyl	0.200	120	2400	0.00164 U J	0.00166 U J	0.00167 U J	0.00165 U J	0.00166 U J	0.00166 U J	0.00165 U J	0.00165 U J
Chlorfenvinphos	NA	NA	NA	0.00164 U J	0.00166 U J	0.00167 U J	0.00165 U J	0.00166 U J	0.00166 U J	0.00165 U J	0.00165 U J
Chlorpyrifos	15.0	250	5000	0.00164 U	0.00166 U	0.00167 U	0.00165 U	0.00166 U	0.00166 U	0.00165 U	0.00165 U
Chlorpyrifos methyl	NA	NA	NA	0.00164 U	0.00166 U	0.00167 U	0.00165 U	0.00166 U	0.00166 U	0.00165 U	0.00165 U

Table I
Summary of Soil Analytical Data-Site Assessment Report
Southeast Corner of Old Cutler Road and SW 208th Street
Cutler Bay, Miami-Dade County, Florida

CS-5 (0-6")	CS-5 (6"-24")	CS-6 (0-6")	CS-6 (6"-24")	CS-7 (0-6")	CS-7 (6"-24")	CS-8 (0-6")	CS-8 (6"-24")	CS-9 (0-6")	CS-9 (6"-24")	CS-10 (0-6")	CS-10 (6"-24")	CS-11 (0-6")	CS-11 (6"-24")	CS-12 (0-6")
07/29/2019	07/29/2019	07/29/2019	07/29/2019	07/29/2019	07/29/2019	07/29/2019	07/29/2019	07/29/2019	07/29/2019	07/29/2019	07/29/2019	07/29/2019	07/29/2019	07/29/2019
632441-009	632441-010	632441-011	632441-012	632441-013	632441-014	632441-015	632441-016	632441-017	632441-018	632441-019	632441-020	632441-021	632441-022	632441-023
15.8	0.576 U	**8.30**	0.569 U	0.510 U	0.449 U	0.568 U	0.510 U	0.570 U	0.522 U	**1.94 I**	0.502 U	**1.89 I**	0.518 U	0.629 U
6.72	0.0957 U	**5.53**	**0.383 I**	**9.89**	**12.2**	**10.8**	**0.664 I**	**10.3**	0.0867 U	**13.5**	0.0834 U	**14.6**	**4.45**	**11.5**
27.8	0.603 U	**20.5**	**4.20**	**26.1**	0.469 U	**31.7**	**1.27 I**	**31.9**	0.546 U	**36.9**	0.525 U	**39.6**	**2.42 I**	**29.1**
1520	**939**	**1030**	**1280**	**1640**	**2880**	**1410**	**1020**	**1520**	**1140**	**1570**	**1800**	**1810**	**1210**	**1630**
6.01	0.647 U	**5.24**	**0.753 I**	**9.08**	**1.25 I**	**9.79**	0.572 U	**10.6**	0.586 U	**12.5**	0.564 U	**11.9**	**1.23 I**	**7.90**
214	**23.8**	**168**	**49.7**	**181**	**24.7**	**297**	**199**	**223**	**26.2**	**295**	**29.1**	**285**	**54.5**	**246**
0.00123 U	0.00105 U	0.00107 U	0.00104 U	0.00106 U	0.000980 U	0.00110 U	0.00106 U	0.00118 U	0.00112 U	0.00110 U	0.00108 U	0.00133 U	0.00111 U	0.00117 U
0.00266 U	0.00227 U	0.00231 U	**0.00868**	**0.00248 I**	0.00212 U	0.00237 U	0.00228 U	0.00255 U	0.00242 U	0.00239 U	0.00233 U	0.00286 U	0.00240 U	0.00252 U
0.000622 I	0.000345 U	**0.00107 I**	0.000341 U	**0.000700 I**	0.000322 U	0.000360 U	0.000348 U	**0.00227 I**	0.000369 U	0.000363 U	0.000355 U	0.000436 U	0.000366 U	0.000384 U
0.000579 U	0.000493 U	0.000504 U	0.000487 U	0.000498 U	0.000461 U	0.000515 U	0.000497 U	0.000556 U	0.000527 U	0.000519 U	0.000508 U	0.000623 U	0.000523 U	0.000549 U
0.00108 U	0.000924 U	0.000944 U	0.000913 U	0.000933 U	0.000864 U	0.000966 U	0.000931 U	0.00104 U	0.000989 U	0.000974 U	0.000952 U	0.00117 U	0.000981 U	0.00103 U
0.000910 U	0.000776 U	0.000792 U	**0.00557**	**0.00113 I**	0.000725 U	0.000810 U	0.000781 U	0.000874 U	0.000829 U	0.000817 U	0.000799 U	0.000980 U	0.000823 U	0.000864 U
0.000756 U	0.000644 U	0.000658 U	0.000636 U	0.000650 U	0.000602 U	0.000673 U	0.000649 U	0.000726 U	0.000689 U	0.000678 U	0.000663 U	0.000814 U	0.000683 U	0.000717 U
0.00266 U	0.00227 U	0.00231 U	0.00224 U	0.00229 U	0.00212 U	0.00237 U	0.00228 U	0.00255 U	0.00242 U	0.00239 U	0.00233 U	0.00286 U	0.00240 U	0.00252 U
0.000270 U	0.000230 U	0.000235 U	**0.00108 I**	**0.000366 I**	0.000215 U	0.000241 U	0.000232 U	0.000259 U	0.000246 U	0.000243 U	0.000237 U	0.000291 U	0.000244 U	0.000256 U
0.000322 U	0.000274 U	0.000280 U	0.000271 U	0.000277 U	0.000256 U	0.000287 U	0.000276 U	0.000309 U	0.000293 U	0.000289 U	0.000283 U	0.000347 U	0.000291 U	0.000305 U
0.000594 U	0.000506 U	0.000517 U	0.000500 U	0.000511 U	0.000473 U	0.000529 U	0.000510 U	0.000570 U	0.000541 U	0.000533 U	0.000521 U	0.000640 U	0.000537 U	0.000563 U
0.000440 U	0.000375 U	0.000383 U	0.000370 U	0.000379 U	0.000350 U	0.000392 U	0.000378 U	0.000423 U	0.000401 U	0.000395 U	0.000386 U	0.000474 U	0.000398 U	0.000417 U
0.000464 U	0.000395 U	0.000404 U	0.000391 U	0.000399 U	0.000369 U	0.000413 U	0.000398 U	0.000445 U	0.000423 U	0.000416 U	0.000407 U	0.000500 U	0.000419 U	0.000440 U
0.000395 U	0.000336 U	0.000343 U	0.000332 U	0.000339 U	0.000314 U	0.000351 U	0.000339 U	0.000379 U	0.000360 U	0.000354 U	0.000346 U	0.000425 U	0.000357 U	0.000374 U
0.000575 U	0.000490 U	0.000501 U	0.000485 U	0.000495 U	0.000458 U	0.000512 U	0.000494 U	0.000553 U	0.000524 U	0.000517 U	0.000505 U	0.000620 U	0.000520 U	0.000546 U
0.000700 U	0.000596 U	0.000609 U	0.000589 U	0.000602 U	0.000557 U	0.000623 U	0.000601 U	0.000672 U	0.000638 U	0.000628 U	0.000614 U	0.000754 U	0.000633 U	0.000664 U
0.00122 U	0.00104 U	0.00106 U	**0.00290 I**	0.00105 U	0.000970 U	0.00108 U	0.00105 U	0.00117 U	0.00111 U	0.00109 U	0.00107 U	0.00131 U	0.00110 U	0.00116 U
0.000897 U	0.000764 U	0.000780 U	0.000755 U	0.000771 U	0.000714 U	0.000798 U	0.000770 U	0.000861 U	0.000817 U	0.000805 U	0.000787 U	0.000966 U	0.000811 U	0.000851 U
0.000391 U	0.000333 U	0.000340 U	0.000329 U	0.000336 U	0.000311 U	0.000348 U	0.000335 U	0.000375 U	0.000356 U	0.000351 U	0.000343 U	0.000421 U	0.000353 U	0.000371 U
0.000808 U	0.000689 U	0.000703 U	0.000681 U	0.000695 U	0.000644 U	0.000720 U	0.000694 U	0.000776 U	0.000737 U	0.000725 U	0.000709 U	0.000871 U	0.000731 U	0.000767 U
0.0381 U	0.0325 U	0.0332 U	0.0321 U	0.0328 U	0.0304 U	0.0339 U	0.0327 U	0.0366 U	0.0347 U	0.0342 U	0.0335 U	0.0411 U	0.0345 U	0.0362 U
0.0181 U	0.0154 U	0.0157 U	0.0152 U	0.0155 U	0.0144 U	0.0161 U	0.0155 U	0.0173 U	0.0165 U	0.0162 U	0.0158 U	0.0195 U	0.0163 U	0.0171 U
0.00167 U J	0.00166 U J	0.00164 U J	0.00166 U	0.00166 U J	0.00167 U J	0.00166 U J	0.00164 U J	0.00167 U J	0.00167 U J	0.00167 U J	0.00162 U J	0.00167 U J	0.00166 U	0.00162 U
0.00167 U J	0.00166 U J	0.00164 U J	0.00166 U J	0.00166 U J	0.00167 U J	0.00166 U J	0.00164 U J	0.00167 U J	0.00167 U J	0.00167 U J	0.00162 U J	0.00167 U J	0.00166 U J	0.00162 U J
0.00167 U	0.00166 U	0.00164 U	0.00166 U	0.00166 U	0.00167 U	0.00166 U	0.00164 U	0.00167 U	0.00167 U	0.00167 U	0.00162 U	0.00167 U	0.00166 U	0.00162 U
0.00167 U	0.00166 U	0.00164 U	0.00166 U	0.00166 U	0.00167 U	0.00166 U	0.00164 U	0.00167 U	0.00167 U	0.00167 U	0.00162 U	0.00167 U	0.00166 U	0.00162 U

Table I
Summary of Soil Analytical Data-Site Assessment Report
Southeast Corner of Old Cutler Road and SW 208th Street
Cutler Bay, Miami-Dade County, Florida

CS-12 (6"-24")	CS-13 (0-6")	CS-13 (6"-24")	CS-14 (0-6")	CS-14 (6"-24")	CS-15 (0-6")	CS-15 (6"-24")	CS-16 (0-6")	CS-16 (6"-24")	CS-17 (0-6")	CS-17 (6"-24")	CS-18 (0-6")	CS-18 (6"-24")	CS-19 (0-6")
07/29/2019	07/29/2019	07/29/2019	07/29/2019	07/29/2019	07/30/2019	07/30/2019	07/30/2019	07/30/2019	07/30/2019	07/30/2019	07/30/2019	07/30/2019	07/30/2019
632441-024	632441-025	632441-026	632441-027	632441-028	632582-001	632582-002	632582-003	632582-004	632582-005	632582-006	632582-007	632582-008	632582-009
0.513 U	0.594 U	0.561 U	**4.74**	0.591 U	**19.4**	0.494 U	**14.8**	**0.845 I**	**13.1**	**2.45**	**11.0**	**1.35 I**	**7.03**
0.0851 U	**10.7**	0.0932 U	**13.9**	**0.496 I**	**10.4**	0.0820 U	**8.22**	0.0795 U	**8.71**	**0.995 I**	**7.94**	**8.78**	**6.36**
0.536 U	**27.7**	0.587 U	**36.6**	0.618 U	**34.1**	0.516 U	**28.9**	0.500 U	**27.5**	0.506 U	**35.4**	0.446 U	**25.0**
868	**1510**	**769**	**1610**	**790**	**1360**	**814**	**1310**	**1000**	**1170**	**417**	**2000**	**2380**	**1400**
0.575 U	**8.92**	0.630 U	**14.9**	**1.04 I**	**9.05**	0.554 U	**6.43**	0.537 U	**7.59**	0.543 U	**7.12**	0.479 U	**18.4**
25.0	**195**	**32.8**	**252**	**33.0**	**307**	**32.6**	**209**	**22.9**	**178**	**11.7**	**122**	**9.60**	**102**
0.00108 U	0.00108 U	0.00108 U	0.00108 U	0.00108 U	0.00166 U	0.00108 U	0.00223 U	0.00105 U	0.00111 U	0.000988 U	0.000989 U	0.000931 U	0.00204 U
0.00234 U	0.00234 U	0.00234 U	0.00233 U	0.00232 U	0.00358 U	0.00233 U	0.00482 U	0.00226 U	0.00240 U	0.00213 U	**0.00874**	0.00201 U	0.00441 U
0.000356 U	0.000356 U	0.000357 U	0.000355 U	0.000354 U	**0.000975 I**	0.000355 U	0.000734 U	0.000344 U	**0.000728 I**	0.000325 U	**0.00174 I**	0.000306 U	0.000672 U
0.000509 U	0.000508 U	0.000510 U	0.000507 U	0.000506 U	0.000780 U	0.000507 U	0.00105 U	0.000491 U	0.000521 U	0.000464 U	0.000465 U	0.000438 U	0.000961 U
0.000953 U	0.000953 U	0.000956 U	0.000951 U	0.000949 U	0.00146 U	0.000951 U	0.00197 U	0.000921 U	0.000977 U	0.000871 U	0.000872 U	0.000821 U	0.00180 U
0.000800 U	0.000800 U	0.000802 U	0.000798 U	0.000796 U	0.00123 U	0.000798 U	0.00165 U	0.000773 U	0.000820 U	0.000730 U	**0.00128 I**	0.000689 U	0.00151 U
0.000664 U	0.000664 U	0.000666 U	0.000662 U	0.000661 U	0.00102 U	0.000662 U	0.00137 U	0.000642 U	0.000681 U	0.000606 U	0.000607 U	0.000572 U	0.00125 U
0.00234 U	0.00234 U	0.00234 U	0.00233 U	0.00232 U	0.00358 U	0.00233 U	0.00482 U	0.00226 U	0.00240 U	0.00213 U	0.00214 U	0.00201 U	0.00441 U
0.000237 U	0.000237 U	0.000238 U	0.000237 U	0.000236 U	0.000364 U	0.000237 U	**0.000540 I**	0.000229 U	0.000243 U	0.000217 U	**0.00212 I**	0.000205 U	0.000449 U
0.000283 U	0.000283 U	0.000284 U	0.000282 U	0.000282 U	0.000434 U	0.000282 U	0.000584 U	0.000273 U	0.000290 U	0.000258 U	0.000259 U	0.000244 U	0.000535 U
0.000522 U	0.000522 U	0.000523 U	0.000520 U	0.000519 U	0.000800 U	0.000521 U	0.00108 U	0.000504 U	0.000535 U	0.000477 U	0.000477 U	0.000449 U	0.000986 U
0.000387 U	0.000387 U	0.000388 U	0.000386 U	0.000385 U	0.000593 U	0.000386 U	0.000798 U	0.000374 U	0.000396 U	0.000353 U	0.000354 U	0.000333 U	0.000730 U
0.000408 U	0.000408 U	0.000409 U	0.000407 U	0.000406 U	0.000625 U	0.000407 U	0.000841 U	0.000394 U	0.000418 U	0.000372 U	0.000373 U	0.000351 U	0.000770 U
0.000347 U	0.000347 U	0.000348 U	0.000346 U	0.000345 U	0.000532 U	0.000346 U	0.000716 U	0.000335 U	0.000356 U	0.000317 U	0.000317 U	0.000299 U	0.000655 U
0.000506 U	0.000506 U	0.000507 U	0.000504 U	0.000503 U	0.000776 U	0.000505 U	0.00104 U	0.000489 U	0.000519 U	0.000462 U	0.000463 U	0.000436 U	0.000955 U
0.000615 U	0.000615 U	0.000617 U	0.000613 U	0.000612 U	0.000943 U	0.000614 U	0.00127 U	0.000594 U	0.000631 U	0.000562 U	0.000562 U	0.000530 U	0.00116 U
0.00107 U	0.00107 U	0.00107 U	0.00107 U	0.00107 U	0.00164 U	0.00107 U	0.00221 U	0.00103 U	0.00110 U	0.000977 U	0.000979 U	0.000922 U	0.00202 U
0.000788 U	0.000788 U	0.000790 U	0.000786 U	0.000784 U	0.00121 U	0.000786 U	0.00163 U	0.000761 U	0.000808 U	0.000720 U	0.000721 U	0.000679 U	0.00149 U
0.000343 U	0.000343 U	0.000344 U	0.000342 U	0.000342 U	0.000526 U	0.000342 U	0.000708 U	0.000332 U	0.000352 U	0.000313 U	0.000314 U	0.000296 U	0.000648 U
0.000710 U	0.000710 U	0.000712 U	0.000708 U	0.000707 U	0.00109 U	0.000709 U	0.00147 U	0.000686 U	0.000728 U	0.000649 U	0.000650 U	0.000612 U	0.00134 U
0.0335 U	0.0335 U	0.0336 U	0.0334 U	0.0333 U	0.0514 U	0.0334 U	0.0691 U	0.0324 U	0.0344 U	0.0306 U	0.0306 U	0.0289 U	0.0633 U
0.0159 U	0.0159 U	0.0159 U	0.0158 U	0.0158 U	0.0243 U	0.0158 U	0.0328 U	0.0153 U	0.0163 U	0.0145 U	0.0145 U	0.0137 U	0.0300 U
0.00162 U	0.00163 U	0.00164 U	0.00164 U	0.00165 U	0.00166 U	0.00166 U	0.00167 U	0.00164 U	0.00163 U	0.00166 U	0.00166 U	0.00166 U	0.00166 U
0.00162 U J	0.00163 U J	0.00164 U J	0.00164 U J	0.00165 U J	0.00166 U J	0.00166 U J	0.00167 U J	0.00164 U J	0.00163 U J	0.00166 U J	0.00166 U J	0.00166 U J	0.00166 U J
0.00162 U	0.00163 U	0.00164 U	0.00164 U	0.00165 U	0.00166 U	0.00166 U	0.00167 U	0.00164 U	0.00163 U	0.00166 U	0.00166 U	0.00166 U	0.00166 U
0.00162 U	0.00163 U	0.00164 U	0.00164 U	0.00165 U	0.00166 U	0.00166 U	0.00167 U	0.00164 U	0.00163 U	0.00166 U	0.00166 U	0.00166 U	0.00166 U

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Southeast Corner of Old Cutler Road and SW 208th Street
Cutler Bay, Miami-Dade County, Florida

CS-19 (6"-24")	CS-20 (0-6")	CS-20 (6"-24")	CS-21 (0-6")	CS-21 (6"-24")	CS-22 (0-6")	CS-22 (6"-24")	CS-23 (0-6")	CS-23 (6"-24")	CS-24 (0-6")	CS-24 (6"-24")	CS-25 (0-6")	CS-25 (6"-24")	CS-26 (0-6")
07/30/2019	07/30/2019	07/30/2019	07/30/2019	07/30/2019	07/30/2019	07/30/2019	07/30/2019	07/30/2019	07/30/2019	07/30/2019	07/30/2019	07/30/2019	07/30/2019
632582-010	632582-011	632582-012	632582-013	632582-014	632582-015	632582-016	632582-017	632582-018	632582-019	632582-020	632582-021	632582-022	632582-023
2.87	8.22	5.68	9.59	2.16 I	12.5	4.88	11.2	9.39	33.4	12.8	28.6	18.2	26.9
6.27	8.62	8.35	10.6	11.0	9.88	7.99	6.26	2.74	16.4	3.89	12.9	11.1	14.4
8.01	22.1	10.1	19.6	3.26	25.5	9.41	23.7	0.601 U	36.0	1.97 I	29.2	13.0	31.8
1370	4890	11600	2700	2200	1490	775	1110	666	1640	1110	1480	1390	2170
4.92	454	1510	17.8	2.25 I	9.00	2.60	6.61	0.645 U	2.34 I	0.648 U	0.608 U	0.637 U	0.622 U
45.7	133	108	135	24.9	174	74.6	179	21.0	249	64.5	201	101	182
0.00187 U	0.00513 I	0.0122	0.00199 U	0.000995 U	0.00124 I	0.00102 U	0.00114 U	0.00107 U	0.00115 U	0.00107 U	0.00166 U	0.00107 U	0.00117 U
0.00404 U	0.0347	0.0590	0.00430 U	0.00215 U	0.00408 I	0.00220 U	0.00245 U	0.00231 U	0.00249 U	0.00396 I	0.00358 U	0.00302 I	0.00253 U
0.000772 I	0.0108	0.00921	0.000683 I	0.000477 I	0.00486	0.000396 I	0.000773 I	0.000352 U	0.000952 I	0.00188 I	0.000545 U	0.000354 U	0.000385 U
0.000879 U	0.000952 U	0.000891 U	0.000935 U	0.000468 U	0.000510 U	0.000478 U	0.000534 U	0.000502 U	0.000541 U	0.000503 U	0.000779 U	0.000505 U	0.000551 U
0.00165 U	0.00178 U	0.00167 U	0.00175 U	0.000877 U	0.000957 U	0.000897 U	0.00100 U	0.000942 U	0.00101 U	0.000943 U	0.00146 U	0.000947 U	0.00103 U
0.00138 U	0.0124	0.0186	0.00147 U	0.000736 U	0.000803 U	0.000752 U	0.000840 U	0.000790 U	0.000851 U	0.000791 U	0.00122 U	0.000795 U	0.000866 U
0.00115 U	0.00124 U	0.00116 U	0.00122 U	0.000611 U	0.000667 U	0.000625 U	0.000697 U	0.000656 U	0.000707 U	0.000657 U	0.00102 U	0.000660 U	0.000719 U
0.00404 U	0.00437 U	0.00410 U	0.00430 U	0.00215 U	0.00235 U	0.00220 U	0.00245 U	0.00231 U	0.00249 U	0.00231 U	0.00358 U	0.00232 U	0.00253 U
0.000428 I	0.00376 I	0.00597 I	0.000437 U	0.000219 U	0.000238 U	0.000223 U	0.000249 U	0.000235 U	0.000253 U	0.000235 U	0.000364 U	0.000265 I	0.000257 U
0.000489 U	0.000530 U	0.000496 U	0.000521 U	0.000260 U	0.000284 U	0.000266 U	0.000297 U	0.000280 U	0.000301 U	0.000280 U	0.00654 I	0.000281 U	0.000306 U
0.000902 U	0.000977 U	0.000915 U	0.000960 U	0.000480 U	0.000524 U	0.000491 U	0.000548 U	0.000516 U	0.000555 U	0.000516 U	0.00467 I	0.000519 U	0.000565 U
0.000669 U	0.000724 U	0.000678 U	0.000711 U	0.000356 U	0.000692 I	0.000364 U	0.000406 U	0.000382 U	0.000411 U	0.000382 U	0.000592 U	0.000384 U	0.000419 U
0.000705 U	0.00582 I	0.00668 I	0.000750 U	0.000375 U	0.000409 U	0.000383 U	0.000428 U	0.000403 U	0.000434 U	0.000403 U	0.000624 U	0.000405 U	0.000442 U
0.000600 U	0.000649 U	0.000608 U	0.000638 U	0.000319 U	0.000348 U	0.000326 U	0.000364 U	0.000343 U	0.000369 U	0.000343 U	0.000531 U	0.000345 U	0.000376 U
0.000875 U	0.000947 U	0.000886 U	0.000930 U	0.000465 U	0.000508 U	0.000476 U	0.000531 U	0.000500 U	0.000538 U	0.000500 U	0.000774 U	0.000503 U	0.000548 U
0.00106 U	0.00115 U	0.00108 U	0.00113 U	0.000566 U	0.000617 U	0.000578 U	0.000646 U	0.000608 U	0.000654 U	0.000608 U	0.000942 U	0.000611 U	0.000666 U
0.00185 U	0.00907	0.0163	0.00197 U	0.000985 U	0.00107 U	0.00101 U	0.00112 U	0.00106 U	0.00114 U	0.00106 U	0.00164 U	0.00106 U	0.00116 U
0.00136 U	0.00148 U	0.00138 U	0.00145 U	0.000725 U	0.000791 U	0.000741 U	0.000827 U	0.000779 U	0.000839 U	0.000779 U	0.00121 U	0.000783 U	0.000853 U
0.000594 U	0.00207 I	0.00278 I	0.000631 U	0.000316 U	0.000345 U	0.000323 U	0.000360 U	0.000339 U	0.000365 U	0.000339 U	0.000526 U	0.000341 U	0.000372 U
0.00123 U	0.00133 U	0.00124 U	0.00131 U	0.000654 U	0.000713 U	0.000668 U	0.000746 U	0.000702 U	0.000756 U	0.000702 U	0.00109 U	0.000706 U	0.000769 U
0.0579 U	0.0627 U	0.0587 U	0.0616 U	0.0308 U	0.0336 U	0.0315 U	0.0352 U	0.0331 U	0.0357 U	0.0331 U	0.0513 U	0.0333 U	0.0363 U
0.0274 U	0.0297 U	0.0278 U	0.0292 U	0.0146 U	0.0159 U	0.0149 U	0.0167 U	0.0157 U	0.0169 U	0.0157 U	0.0243 U	0.0158 U	0.0172 U
0.00166 U	0.00166 U	0.00166 U	0.00167 U	0.00164 U	0.00167 U	0.00167 U	0.00166 U	0.00167 U	0.00167 U	0.00166 U	0.00164 U J	0.00167 U J	0.00167 U J
0.00166 U J	0.00166 U J	0.00166 U J	0.00167 U J	0.00164 U J	0.00167 U J	0.00167 U J	0.00166 U J	0.00167 U J	0.00167 U J	0.00166 U J	0.00164 U J	0.00167 U J	0.00167 U J
0.00166 U	0.00166 U	0.00166 U	0.00167 U	0.00164 U	0.00167 U	0.00167 U	0.00166 U	0.00167 U	0.00167 U	0.00166 U	0.00164 U	0.00167 U	0.00167 U
0.00166 U	0.00166 U	0.00166 U	0.00167 U	0.00164 U	0.00167 U	0.00167 U	0.00166 U	0.00167 U	0.00167 U	0.00166 U	0.00164 U	0.00167 U	0.00167 U

Table I
Summary of Soil Analytical Data-Site Assessment Report
Southeast Corner of Old Cutler Road and SW 208th Street
Cutler Bay, Miami-Dade County, Florida

CS-26 (6"-24")	CS-27 (0-6")	CS-27 (6-24")
07/30/2019	07/30/2019	07/30/2019
632582-024	632582-025	632582-026
17.4	**14.1**	**8.36**
8.06	**11.1**	**6.17**
16.2	**21.6**	0.514 U
1120	**2250**	**968**
0.641 U	**52.0**	0.552 U
136	**94.0**	**15.7**
0.00110 U	**0.0162**	0.000948 U
0.00238 U	**0.0860**	**0.00393 I**
0.000363 U	**0.0207**	**0.00308 I**
0.000519 U J	0.000957 U	0.000446 U
0.000973 U J	0.00179 U	0.000835 U
0.000816 U	**0.128**	0.000701 U
0.000677 U	0.00125 U	0.000582 U
0.00238 U	0.00440 U	0.00205 U
0.000242 U	**0.00960**	0.000208 U
0.000289 U	0.000533 U	0.000248 U
0.000532 U	0.000982 U	0.000457 U
0.000394 U	0.000728 U	0.000339 U
0.000416 U	**0.0110**	0.000357 U
0.000354 U	0.000653 U	0.000304 U
0.000516 U	0.000952 U	0.000443 U
0.000627 U J	0.00116 U	0.000539 U
0.00109 U	**0.0379**	**0.00155 I**
0.000804 U J	0.00148 U	0.000691 U
0.000350 U	**0.00824 I**	0.000301 U
0.000725 U	0.00134 U	0.000622 U
0.0342 U	**0.0631 U**	0.0294 U
0.0162 U	0.0299 U	**0.172**
0.00166 U J	0.00162 U J	0.00167 U J
0.00166 U J	0.00162 U J	0.00167 U J
0.00166 U	0.00162 U	0.00167 U
0.00166 U	0.00162 U	0.00167 U

Table I
Summary of Soil Analytical Data-Site Assessment Report
Southeast Corner of Old Cutler Road and SW 208th Street
Cutler Bay, Miami-Dade County, Florida

			Sample Name	CS-1 (0-6")	CS-1 (6"-24")	CS-2 (0-6")	CS-2 (6"-24")	CS-3 (0-6")	CS-3 (6"-24")	CS-4 (0-6")	CS-4 (6"-24")
			Sample Collection Date	07/29/2019	07/29/2019	07/29/2019	07/29/2019	07/29/2019	07/29/2019	07/29/2019	07/29/2019
			Log Number	632441-001	632441-002	632441-003	632441-004	632441-005	632441-006	632441-007	632441-008
Parameter	**Soil Leach Based on GW**	**Soil-Res - Direct Exposure**	**Soil C/I - Direct Exposure**								
Coumaphos	0.300	21.0	450	0.00164 U J	0.00166 U J	0.00167 U J	0.00165 U J	0.00166 U J	0.00166 U J	0.00165 U J	0.00165 U J
Demeton-O	NA	NA	NA	0.00164 U	0.00166 U	0.00167 U	0.00165 U	0.00166 U	0.00166 U	0.00165 U	0.00165 U
Demeton-S	NA	NA	NA	0.00164 U	0.00166 U	0.00167 U	0.00165 U	0.00166 U	0.00166 U	0.00165 U	0.00165 U
Diazinon	0.200	70.0	1200	0.00164 U	0.00166 U	0.00167 U	0.00165 U	0.00166 U	0.00166 U	0.00165 U	0.00165 U
Dimethoate	0.00600	13.0	170	0.00164 U	0.00166 U	0.00167 U	0.00165 U	0.00166 U	0.00166 U	0.00165 U	0.00165 U
EPN (Ent)	0.0200	0.800	18.0	0.00164 U	0.00166 U	0.00167 U	0.00165 U	0.00166 U	0.00166 U	0.00165 U	0.00165 U
Ethoprop	0.00500	7.40	120	0.00164 U	0.00166 U	0.00167 U	0.00165 U	0.00166 U	0.00166 U	0.00165 U	0.00165 U
Famphur	NA	NA	NA	0.00164 U	0.00166 U	0.00167 U	0.00165 U	0.00166 U	0.00166 U	0.00165 U	0.00165 U
Fensulfothion	0.0100	19.0	310	0.00164 U	0.00166 U	0.00167 U	0.00165 U	0.00166 U	0.00166 U	0.00165 U	0.00165 U
Fenthion	NA	NA	NA	0.00164 U	0.00166 U	0.00167 U	0.00165 U	0.00166 U	0.00166 U	0.00165 U	0.00165 U
Malathion	4.20	1500	24000	0.00164 U	0.00166 U	0.00167 U	0.00165 U	0.00166 U	0.00166 U	0.00165 U	0.00165 U
Merphos	0.500	2.50	52.0	0.00164 U J	0.00166 U J	0.00167 U J	0.00165 U J	0.00166 U J	0.00166 U J	0.00165 U J	0.00165 U J
Mevinphos	0.0100	18.0	270	0.00164 U	0.00166 U	0.00167 U	0.00165 U	0.00166 U	0.00166 U	0.00165 U	0.00165 U
Monocrotophos	NA	NA	NA	0.00164 U J	0.00166 U J	0.00167 U J	0.00165 U J	0.00166 U J	0.00166 U J	0.00165 U J	0.00165 U J
Naled	0.100	150	2400	0.00164 U	0.00166 U	0.00167 U	0.00165 U	0.00166 U	0.00166 U	0.00165 U	0.00165 U
Parathion, Ethyl	1.00	500	11000	0.00164 U	0.00166 U	0.00167 U	0.00165 U	0.00166 U	0.00166 U	0.00165 U	0.00165 U
Parathion, Methyl	0.0600	20.0	370	0.00164 U	0.00166 U	0.00167 U	0.00165 U	0.00166 U	0.00166 U	0.00165 U	0.00165 U
Phorate	0.300	16.0	320	0.00164 U	0.00166 U	0.00167 U	0.00165 U	0.00166 U	0.00166 U	0.00165 U	0.00165 U
Ronnel	1300	4200	88000	0.00164 U	0.00166 U	0.00167 U	0.00165 U	0.00166 U	0.00166 U	0.00165 U	0.00165 U
stirophos	NA	NA	NA	0.00164 U	0.00166 U	0.00167 U	0.00165 U	0.00166 U	0.00166 U	0.00165 U	0.00165 U
Sulfotep	0.100	35.0	510	0.00164 U	0.00166 U	0.00167 U	0.00165 U	0.00166 U	0.00166 U	0.00165 U	0.00165 U
Sulprofos	NA	NA	NA	0.00164 U	0.00166 U	0.00167 U	0.00165 U	0.00166 U	0.00166 U	0.00165 U	0.00165 U
TEPP	NA	NA	NA	0.00164 U	0.00166 U	0.00167 U J	0.00165 U	0.00166 U	0.00166 U	0.00165 U	0.00165 U
Tokuthion	NA	NA	NA	0.00164 U	0.00166 U	0.00167 U	0.00165 U	0.00166 U	0.00166 U	0.00165 U	0.00165 U
Trichlorfon	NA	NA	NA	0.00164 U	0.00166 U	0.00167 U J	0.00165 U	0.00166 U	0.00166 U	0.00165 U	0.00165 U
Trichloronate	NA	NA	NA	0.00164 U	0.00166 U	0.00167 U	0.00165 U	0.00166 U	0.00166 U	0.00165 U	0.00165 U
SM18 2540 G											
Percent Moisture	NA	NA	NA	**8.90**	**29.8**	**34.6**	**32.1**	**29.8**	**30.6**	**38.2**	**26.3**

Table I
Summary of Soil Analytical Data-Site Assessment Report
Southeast Corner of Old Cutler Road and SW 208th Street
Cutler Bay, Miami-Dade County, Florida

CS-5 (0-6")	CS-5 (6"-24")	CS-6 (0-6")	CS-6 (6"-24")	CS-7 (0-6")	CS-7 (6"-24")	CS-8 (0-6")	CS-8 (6"-24")	CS-9 (0-6")	CS-9 (6"-24")	CS-10 (0-6")	CS-10 (6"-24")	CS-11 (0-6")	CS-11 (6"-24")	CS-12 (0-6")
07/29/2019	07/29/2019	07/29/2019	07/29/2019	07/29/2019	07/29/2019	07/29/2019	07/29/2019	07/29/2019	07/29/2019	07/29/2019	07/29/2019	07/29/2019	07/29/2019	07/29/2019
632441-009	632441-010	632441-011	632441-012	632441-013	632441-014	632441-015	632441-016	632441-017	632441-018	632441-019	632441-020	632441-021	632441-022	632441-023
0.00167 U J	0.00166 U J	0.00164 U J	0.00166 U	0.00166 U J	0.00167 U J	0.00166 U J	0.00164 U J	0.00167 U J	0.00167 U J	0.00167 U J	0.00162 U J	0.00167 U J	0.00166 U	0.00162 U
0.00167 U	0.00166 U	0.00164 U	0.00166 U J	0.00166 U	0.00167 U	0.00166 U	0.00164 U	0.00167 U	0.00167 U	0.00167 U	0.00162 U	0.00167 U	0.00166 U J	0.00162 U J
0.00167 U	0.00166 U	0.00164 U	0.00166 U J	0.00166 U	0.00167 U	0.00166 U	0.00164 U	0.00167 U	0.00167 U	0.00167 U	0.00162 U	0.00167 U	0.00166 U J	0.00162 U J
0.00167 U	0.00166 U	0.00164 U	0.00166 U	0.00166 U	0.00167 U	0.00166 U	0.00164 U	0.00167 U	0.00167 U	0.00167 U	0.00162 U	0.00167 U	0.00166 U	0.00162 U
0.00167 U	0.00166 U	0.00164 U	0.00166 U J	0.00166 U	0.00167 U	0.00166 U	0.00164 U	0.00167 U	0.00167 U	0.00167 U	0.00162 U	0.00167 U	0.00166 U J	0.00162 U J
0.00167 U	0.00166 U	0.00164 U	0.00166 U	0.00166 U	0.00167 U	0.00166 U	0.00164 U	0.00167 U	0.00167 U	0.00167 U	0.00162 U	0.00167 U	0.00166 U	0.00162 U
0.00167 U	0.00166 U	0.00164 U	0.00166 U	0.00166 U	0.00167 U	0.00166 U	0.00164 U	0.00167 U	0.00167 U	0.00167 U	0.00162 U	0.00167 U	0.00166 U	0.00162 U
0.00167 U	0.00166 U	0.00164 U	0.00166 U	0.00166 U	0.00167 U	0.00166 U	0.00164 U	0.00167 U	0.00167 U	0.00167 U	0.00162 U	0.00167 U	0.00166 U	0.00162 U
0.00167 U	0.00166 U	0.00164 U	0.00166 U	0.00166 U	0.00167 U	0.00166 U	0.00164 U	0.00167 U	0.00167 U	0.00167 U	0.00162 U	0.00167 U	0.00166 U	0.00162 U
0.00167 U	0.00166 U	0.00164 U	0.00166 U	0.00166 U	0.00167 U	0.00166 U	0.00164 U	0.00167 U	0.00167 U	0.00167 U	0.00162 U	0.00167 U	0.00166 U	0.00162 U
0.00167 U J	0.00166 U J	0.00164 U J	0.00166 U J	0.00166 U J	0.00167 U J	0.00166 U J	0.00164 U J	0.00167 U J	0.00167 U J	0.00167 U J	0.00162 U J	0.00167 U J	0.00166 U J	0.00162 U J
0.00167 U	0.00166 U	0.00164 U	0.00166 U	0.00166 U	0.00167 U	0.00166 U	0.00164 U	0.00167 U	0.00167 U	0.00167 U	0.00162 U	0.00167 U	0.00166 U	0.00162 U
0.00167 U J	0.00166 U J	0.00164 U J	0.00166 U J	0.00166 U J	0.00167 U J	0.00166 U J	0.00164 U J	0.00167 U J	0.00167 U J	0.00167 U J	0.00162 U J	0.00167 U J	0.00166 U J	0.00162 U J
0.00167 U	0.00166 U	0.00164 U	0.00166 U	0.00166 U	0.00167 U	0.00166 U	0.00164 U	0.00167 U	0.00167 U	0.00167 U	0.00162 U	0.00167 U	0.00166 U	0.00162 U
0.00167 U	0.00166 U	0.00164 U	0.00166 U	0.00166 U	0.00167 U	0.00166 U	0.00164 U	0.00167 U	0.00167 U	0.00167 U	0.00162 U	0.00167 U	0.00166 U	0.00162 U
0.00167 U	0.00166 U	0.00164 U	0.00166 U	0.00166 U	0.00167 U	0.00166 U	0.00164 U	0.00167 U	0.00167 U	0.00167 U	0.00162 U	0.00167 U	0.00166 U	0.00162 U
0.00167 U	0.00166 U	0.00164 U	0.00166 U	0.00166 U	0.00167 U	0.00166 U	0.00164 U	0.00167 U	0.00167 U	0.00167 U	0.00162 U	0.00167 U	0.00166 U	0.00162 U
0.00167 U	0.00166 U	0.00164 U	0.00166 U	0.00166 U	0.00167 U	0.00166 U	0.00164 U	0.00167 U	0.00167 U	0.00167 U	0.00162 U	0.00167 U	0.00166 U	0.00162 U
0.00167 U	0.00166 U	0.00164 U	0.00166 U	0.00166 U	0.00167 U	0.00166 U	0.00164 U	0.00167 U	0.00167 U	0.00167 U	0.00162 U	0.00167 U	0.00166 U	0.00162 U
0.00167 U	0.00166 U	0.00164 U	0.00166 U	0.00166 U	0.00167 U	0.00166 U	0.00164 U	0.00167 U	0.00167 U	0.00167 U	0.00162 U	0.00167 U	0.00166 U	0.00162 U
0.00167 U	0.00166 U	0.00164 U	0.00166 U	0.00166 U	0.00167 U	0.00166 U	0.00164 U	0.00167 U	0.00167 U	0.00167 U	0.00162 U	0.00167 U	0.00166 U	0.00162 U
0.00167 U	0.00166 U	0.00164 U	0.00166 U	0.00166 U	0.00167 U	0.00166 U	0.00164 U	0.00167 U	0.00167 U	0.00167 U	0.00162 U	0.00167 U	0.00166 U	0.00162 U
37.3	**26.5**	**28.0**	**25.5**	**27.1**	**21.3**	**29.6**	**27.1**	**34.8**	**31.2**	**30.1**	**28.5**	**41.7**	**30.7**	**33.9**

Table I
Summary of Soil Analytical Data-Site Assessment Report
Southeast Corner of Old Cutler Road and SW 208th Street
Cutler Bay, Miami-Dade County, Florida

CS-12 (6"-24")	CS-13 (0-6")	CS-13 (6"-24")	CS-14 (0-6")	CS-14 (6"-24")	CS-15 (0-6")	CS-15 (6"-24")	CS-16 (0-6")	CS-16 (6"-24")	CS-17 (0-6")	CS-17 (6"-24")	CS-18 (0-6")	CS-18 (6"-24")	CS-19 (0-6")
07/29/2019	07/29/2019	07/29/2019	07/29/2019	07/29/2019	07/30/2019	07/30/2019	07/30/2019	07/30/2019	07/30/2019	07/30/2019	07/30/2019	07/30/2019	07/30/2019
632441-024	632441-025	632441-026	632441-027	632441-028	632582-001	632582-002	632582-003	632582-004	632582-005	632582-006	632582-007	632582-008	632582-009
0.00162 U	0.00163 U	0.00164 U	0.00164 U	0.00165 U	0.00166 U	0.00166 U	0.00167 U	0.00164 U	0.00163 U	0.00166 U	0.00166 U	0.00166 U	0.00166 U
0.00162 U J	0.00163 U J	0.00164 U J	0.00164 U J	0.00165 U J	0.00166 U	0.00166 U	0.00167 U	0.00164 U	0.00163 U	0.00166 U	0.00166 U	0.00166 U	0.00166 U
0.00162 U J	0.00163 U J	0.00164 U J	0.00164 U J	0.00165 U J	0.00166 U	0.00166 U	0.00167 U	0.00164 U	0.00163 U	0.00166 U	0.00166 U	0.00166 U	0.00166 U
0.00162 U	0.00163 U	0.00164 U	0.00164 U	0.00165 U	0.00166 U	0.00166 U	0.00167 U	0.00164 U	0.00163 U	0.00166 U	0.00166 U	0.00166 U	0.00166 U
0.00162 U J	0.00163 U J	0.00164 U J	0.00164 U J	0.00165 U J	0.00166 U	0.00166 U	0.00167 U	0.00164 U	0.00163 U	0.00166 U	0.00166 U	0.00166 U	0.00166 U
0.00162 U	0.00163 U	0.00164 U	0.00164 U	0.00165 U	0.00166 U	0.00166 U	0.00167 U	0.00164 U	0.00163 U	0.00166 U	0.00166 U	0.00166 U	0.00166 U
0.00162 U	0.00163 U	0.00164 U	0.00164 U	0.00165 U	0.00166 U	0.00166 U	0.00167 U	0.00164 U	0.00163 U	0.00166 U	0.00166 U	0.00166 U	0.00166 U
0.00162 U	0.00163 U	0.00164 U	0.00164 U	0.00165 U	0.00166 U	0.00166 U	0.00167 U	0.00164 U	0.00163 U	0.00166 U	0.00166 U	0.00166 U	0.00166 U
0.00162 U	0.00163 U	0.00164 U	0.00164 U	0.00165 U	0.00166 U	0.00166 U	0.00167 U	0.00164 U	0.00163 U	0.00166 U	0.00166 U	0.00166 U	0.00166 U
0.00162 U	0.00163 U	0.00164 U	0.00164 U	0.00165 U	0.00166 U	0.00166 U	0.00167 U	0.00164 U	0.00163 U	0.00166 U	0.00166 U	0.00166 U	0.00166 U
0.00162 U J	0.00163 U J	0.00164 U J	0.00164 U J	0.00165 U J	0.00166 U J	0.00166 U J	0.00167 U J	0.00164 U J	0.00163 U J	0.00166 U J	0.00166 U J	0.00166 U J	0.00166 U J
0.00162 U	0.00163 U	0.00164 U	0.00164 U	0.00165 U	0.00166 U	0.00166 U	0.00167 U	0.00164 U	0.00163 U	0.00166 U	0.00166 U	0.00166 U	0.00166 U
0.00162 U J	0.00163 U J	0.00164 U J	0.00164 U J	0.00165 U J	0.00166 U J	0.00166 U J	0.00167 U J	0.00164 U J	0.00163 U J	0.00166 U J	0.00166 U J	0.00166 U J	0.00166 U J
0.00162 U	0.00163 U	0.00164 U	0.00164 U	0.00165 U	0.00166 U	0.00166 U	0.00167 U	0.00164 U	0.00163 U	0.00166 U	0.00166 U	0.00166 U	0.00166 U
0.00162 U	0.00163 U	0.00164 U	0.00164 U	0.00165 U	0.00166 U	0.00166 U	0.00167 U	0.00164 U	0.00163 U	0.00166 U	0.00166 U	0.00166 U	0.00166 U
0.00162 U	0.00163 U	0.00164 U	0.00164 U	0.00165 U	0.00166 U	0.00166 U	0.00167 U	0.00164 U	0.00163 U	0.00166 U	0.00166 U	0.00166 U	0.00166 U
0.00162 U	0.00163 U	0.00164 U	0.00164 U	0.00165 U	0.00166 U	0.00166 U	0.00167 U	0.00164 U	0.00163 U	0.00166 U	0.00166 U	0.00166 U	0.00166 U
0.00162 U J	0.00163 U J	0.00164 U J	0.00164 U J	0.00165 U J	0.00166 U	0.00166 U	0.00167 U	0.00164 U	0.00163 U	0.00166 U	0.00166 U	0.00166 U	0.00166 U
0.00162 U	0.00163 U	0.00164 U	0.00164 U	0.00165 U	0.00166 U	0.00166 U	0.00167 U	0.00164 U	0.00163 U	0.00166 U	0.00166 U	0.00166 U	0.00166 U
0.00162 U	0.00163 U	0.00164 U	0.00164 U J	0.00165 U	0.00166 U	0.00166 U	0.00167 U	0.00164 U	0.00163 U	0.00166 U	0.00166 U	0.00166 U	0.00166 U
0.00162 U	0.00163 U	0.00164 U	0.00164 U	0.00165 U	0.00166 U	0.00166 U	0.00167 U	0.00164 U	0.00163 U	0.00166 U	0.00166 U	0.00166 U	0.00166 U
28.7	**28.7**	**28.8**	**28.4**	**28.3**	**30.2**	**28.5**	**30.8**	**26.2**	**30.5**	**21.9**	**22.0**	**17.2**	**24.5**

Table I
Summary of Soil Analytical Data-Site Assessment Report
Southeast Corner of Old Cutler Road and SW 208th Street
Cutler Bay, Miami-Dade County, Florida

CS-19 (6"-24")	CS-20 (0-6")	CS-20 (6"-24")	CS-21 (0-6")	CS-21 (6"-24")	CS-22 (0-6")	CS-22 (6"-24")	CS-23 (0-6")	CS-23 (6"-24")	CS-24 (0-6")	CS-24 (6"-24")	CS-25 (0-6")	CS-25 (6"-24")	CS-26 (0-6")
07/30/2019	07/30/2019	07/30/2019	07/30/2019	07/30/2019	07/30/2019	07/30/2019	07/30/2019	07/30/2019	07/30/2019	07/30/2019	07/30/2019	07/30/2019	07/30/2019
632582-010	632582-011	632582-012	632582-013	632582-014	632582-015	632582-016	632582-017	632582-018	632582-019	632582-020	632582-021	632582-022	632582-023
0.00166 U	0.00166 U	0.00166 U	0.00167 U	0.00164 U	0.00167 U	0.00167 U	0.00166 U	0.00167 U	0.00167 U	0.00166 U	0.00164 U	0.00167 U	0.00167 U
0.00166 U	0.00166 U	0.00166 U	0.00167 U	0.00164 U	0.00167 U	0.00167 U	0.00166 U	0.00167 U	0.00167 U	0.00166 U	0.00164 U	0.00167 U	0.00167 U
0.00166 U	0.00166 U	0.00166 U	0.00167 U	0.00164 U	0.00167 U	0.00167 U	0.00166 U	0.00167 U	0.00167 U	0.00166 U	0.00164 U	0.00167 U	0.00167 U
0.00166 U	0.00166 U	0.00166 U	0.00167 U	0.00164 U	0.00167 U	0.00167 U	0.00166 U	0.00167 U	0.00167 U	0.00166 U	0.00164 U	0.00167 U	0.00167 U
0.00166 U	0.00166 U	0.00166 U	0.00167 U	0.00164 U	0.00167 U	0.00167 U	0.00166 U	0.00167 U	0.00167 U	0.00166 U	0.00164 U	0.00167 U	0.00167 U
0.00166 U	0.00166 U	0.00166 U	0.00167 U	0.00164 U	0.00167 U	0.00167 U	0.00166 U	0.00167 U	0.00167 U	0.00166 U	0.00164 U	0.00167 U	0.00167 U
0.00166 U	0.00166 U	0.00166 U	0.00167 U	0.00164 U	0.00167 U	0.00167 U	0.00166 U	0.00167 U	0.00167 U	0.00166 U	0.00164 U	0.00167 U	0.00167 U
0.00166 U	0.00166 U	0.00166 U	0.00167 U	0.00164 U	0.00167 U	0.00167 U	0.00166 U	0.00167 U	0.00167 U	0.00166 U	0.00164 U	0.00167 U	0.00167 U
0.00166 U	0.00166 U	0.00166 U	0.00167 U	0.00164 U	0.00167 U	0.00167 U	0.00166 U	0.00167 U	0.00167 U	0.00166 U	0.00164 U	0.00167 U	0.00167 U
0.00166 U	0.00166 U	0.00166 U	0.00167 U	0.00164 U	0.00167 U	0.00167 U	0.00166 U	0.00167 U	0.00167 U	0.00166 U	0.00164 U	0.00167 U	0.00167 U
0.00166 U	0.00166 U	0.00166 U	0.00167 U	0.00164 U	0.00167 U	0.00167 U	0.00166 U	0.00167 U	0.00167 U	0.00166 U	0.00164 U	0.00167 U	0.00167 U
0.00166 U J	0.00166 U J	0.00166 U J	0.00167 U J	0.00164 U J	0.00167 U J	0.00167 U J	0.00166 U J	0.00167 U J	0.00167 U J	0.00166 U J	0.00164 U J	0.00167 U J	0.00167 U J
0.00166 U	0.00166 U	0.00166 U	0.00167 U	0.00164 U	0.00167 U	0.00167 U	0.00166 U	0.00167 U	0.00167 U	0.00166 U	0.00164 U	0.00167 U	0.00167 U
0.00166 U J	0.00166 U J	0.00166 U J	0.00167 U J	0.00164 U J	0.00167 U J	0.00167 U J	0.00166 U J	0.00167 U J	0.00167 U J	0.00166 U J	0.00164 U J	0.00167 U J	0.00167 U J
0.00166 U	0.00166 U	0.00166 U	0.00167 U	0.00164 U	0.00167 U	0.00167 U	0.00166 U	0.00167 U	0.00167 U	0.00166 U	0.00164 U	0.00167 U	0.00167 U
0.00166 U	0.00166 U	0.00166 U	0.00167 U	0.00164 U	0.00167 U	0.00167 U	0.00166 U	0.00167 U	0.00167 U	0.00166 U	0.00164 U	0.00167 U	0.00167 U
0.00166 U	0.00166 U	0.00166 U	0.00167 U	0.00164 U	0.00167 U	0.00167 U	0.00166 U	0.00167 U	0.00167 U	0.00166 U	0.00164 U	0.00167 U	0.00167 U
0.00166 U	0.00166 U	0.00166 U	0.00167 U	0.00164 U	0.00167 U	0.00167 U	0.00166 U	0.00167 U	0.00167 U	0.00166 U	0.00164 U	0.00167 U	0.00167 U
0.00166 U	0.00166 U	0.00166 U	0.00167 U	0.00164 U	0.00167 U	0.00167 U	0.00166 U	0.00167 U	0.00167 U	0.00166 U	0.00164 U	0.00167 U	0.00167 U
0.00166 U	0.00166 U	0.00166 U	0.00167 U	0.00164 U	0.00167 U	0.00167 U	0.00166 U	0.00167 U	0.00167 U	0.00166 U	0.00164 U	0.00167 U	0.00167 U
0.00166 U	0.00166 U	0.00166 U	0.00167 U	0.00164 U	0.00167 U	0.00167 U	0.00166 U	0.00167 U	0.00167 U	0.00166 U	0.00164 U	0.00167 U	0.00167 U
0.00166 U	0.00166 U	0.00166 U	0.00167 U	0.00164 U	0.00167 U	0.00167 U	0.00166 U	0.00167 U	0.00167 U	0.00166 U	0.00164 U	0.00167 U	0.00167 U
0.00166 U	0.00166 U	0.00166 U	0.00167 U	0.00164 U	0.00167 U	0.00167 U	0.00166 U	0.00167 U	0.00167 U	0.00166 U	0.00164 U	0.00167 U	0.00167 U
0.00166 U	0.00166 U	0.00166 U	0.00167 U	0.00164 U	0.00167 U	0.00167 U	0.00166 U	0.00167 U	0.00167 U	0.00166 U	0.00164 U	0.00167 U	0.00167 U
0.00166 U	0.00166 U	0.00166 U	0.00167 U	0.00164 U	0.00167 U	0.00167 U	0.00166 U	0.00167 U	0.00167 U	0.00166 U	0.00164 U	0.00167 U	0.00167 U
0.00166 U	0.00166 U	0.00166 U	0.00167 U	0.00164 U	0.00167 U	0.00167 U	0.00166 U	0.00167 U	0.00167 U	0.00166 U	0.00164 U	0.00167 U	0.00167 U
17.5	**23.7**	**18.6**	**22.4**	**22.4**	**29.0**	**24.2**	**32.1**	**27.7**	**32.9**	**28.0**	**30.2**	**28.2**	**34.1**

Table I
Summary of Soil Analytical Data-Site Assessment Report
Southeast Corner of Old Cutler Road and SW 208th Street
Cutler Bay, Miami-Dade County, Florida

CS-26 (6"-24")	CS-27 (0-6")	CS-27 (6-24")
07/30/2019	07/30/2019	07/30/2019
632582-024	632582-025	632582-026
0.00166 U	0.00162 U	0.00167 U
0.00166 U	0.00162 U	0.00167 U
0.00166 U	0.00162 U	0.00167 U
0.00166 U	0.00162 U	0.00167 U
0.00166 U	0.00162 U	0.00167 U
0.00166 U	0.00162 U	0.00167 U
0.00166 U	0.00162 U	0.00167 U
0.00166 U	0.00162 U	0.00167 U
0.00166 U	0.00162 U	0.00167 U
0.00166 U	0.00162 U	0.00167 U
0.00166 U	0.00162 U	0.00167 U
0.00166 U J	0.00162 U J	0.00167 U J
0.00166 U	0.00162 U	0.00167 U
0.00166 U J	0.00162 U J	0.00167 U J
0.00166 U	0.00162 U	0.00167 U
0.00166 U	0.00162 U	0.00167 U
0.00166 U	0.00162 U	0.00167 U
0.00166 U	0.00162 U	0.00167 U
0.00166 U	0.00162 U	0.00167 U
0.00166 U	0.00162 U	0.00167 U
0.00166 U	0.00162 U	0.00167 U
0.00166 U	0.00162 U	0.00167 U
0.00166 U J	0.00162 U J	0.00167 U J
0.00166 U	0.00162 U	0.00167 U
0.00166 U J	0.00162 U J	0.00167 U J
0.00166 U	0.00162 U	0.00167 U
30.0	**24.2**	**18.7**

Notes

Concentrations reported in milligrams per kilogram (mg/kg)

Value is Above Laboratory Minimum Detection Limit **

Value is above Residential Direct Exposure Soil

Value is above Commercial/ Industrial Direct Exposure Soil Cleanup Target

Value is above Leachability Based on Groundwater Crtieria

Table 2
Summary of Shallow Groundwater Analytical Results
Proposed Publix Store No. 1465
Southeast Corner of Old Cutler Road and SW 208th Street
Cutler Bay, Miami-Dade COunty, Florida

			Sample Name	MW-1	MW-10	MW-11	MW-12	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9
			Sample Collection Date	8/6/19	8/6/19	8/6/19	8/6/19	8/6/19	8/6/19	8/6/19	8/6/19	8/6/19	8/6/19	8/6/19	8/6/19
Parameter	**Reporting Units**	**GCTL**	**NADCs**												
EPA 350.1															
Nitrogen, Ammonia (as N)	ug/L	2800	28000	**41.1 I**	**176**	**490**	**43.1 I**	**320**	**82.3 I**	**163**	34.5 U	**57.7 I**	**42.3 I**	**42.7 I**	**98.6 I**
EPA 353.2 (Nitrate (N)															
Nitrogen, Nitrate-Nitrite	ug/L	10000	100000	**85.8 IJ**	28.3 U	**40.9 I**	**160**	**29.7 IJ**	**41.6 I**	**76.1 I**	**314**	**166**	**217**	**79.4 I**	28.3 U
EPA 6010															
Arsenic	ug/L	10.0	100	5.50 U	**27.2**	5.50 U	5.50 U	**9.56 I**	**12.2 I**	**17.4 I**	5.50 U	5.50 U	5.50 U	5.50 U	**28.4**
Chromium	ug/L	100	1000	0.811 U	0.811 U	0.811 U	0.811 U	0.811 U	0.811 U	0.811 U	0.811 U	0.811 U	0.811 U	0.811 U	0.811 U
Copper	ug/L	1000	10000	5.44 U	5.44 U	5.44 U	5.44 U	5.44 U	5.44 U	5.44 U	5.44 U	5.44 U	5.44 U	5.44 U	5.44 U
Iron	ug/L	300	3000	**751**	**377**	**331**	**226**	**724**	**645**	**1580**	**44.7 I**	28.3 U	**212**	**526**	**539**
Lead	ug/L	15.0	150	2.37 U	2.37 U	2.37 U	2.37 U	2.37 U	2.37 U	2.37 U	2.37 U	2.37 U	2.37 U	2.37 U	2.37 U
Manganese	ug/L	50.0	500	**11.0 I**	**14.6 I**	**7.90 I**	3.16 U	**8.04 I**	**7.99 I**	**6.05 I**	3.16 U	3.16 U	3.16 U	**10.1 I**	**42.0**
EPA 8081															
4,4-DDD	ug/L	0.100	10	0.0362 U	0.0369 U	0.0362 U	0.0362 U	0.0362 U	0.0362 U	0.0365 U	0.0362 U	0.0362 U	0.0362 U	0.0362 U	0.0369 U
4,4-DDE	ug/L	0.100	10	0.0371 U	0.0379 U	0.0371 U	0.0371 U	0.0371 U	0.0371 U	0.0375 U	0.0371 U	0.0371 U	0.0371 U	0.0371 U	0.0379 U
4,4-DDT	ug/L	0.100	10	0.0588 U	0.0600 U	0.0588 U	0.0588 U	0.0588 U	0.0588 U	0.0594 U	0.0588 U	0.0588 U	0.0588 U	0.0588 U	0.0600 U
Aldrin	ug/L	0.00200	0.2	0.0364 U	0.0371 U	0.0364 U	0.0364 U	0.0364 U	0.0364 U	0.0367 U	0.0364 U	0.0364 U	0.0364 U	0.0364 U	0.0371 U
Alpha-BHC	ug/L	0.00600	0.6	0.0402 U	0.0411 U	0.0402 U	0.0402 U	0.0402 U	0.0402 U	0.0406 U	0.0402 U	0.0402 U	0.0402 U	0.0402 U	0.0411 U
Alpha-Chlordane	ug/L	NA	NA	0.0353 U	0.0360 U	0.0353 U	0.0353 U	0.0353 U	0.0353 U	0.0356 U	0.0353 U	0.0353 U	0.0353 U	0.0353 U	0.0360 U
Beta-BHC	ug/L	0.0200	2	0.0332 U	0.0339 U	0.0332 U	0.0332 U	0.0332 U	0.0332 U	0.0336 U	0.0332 U	0.0332 U	0.0332 U	0.0332 U	0.0339 U
Delta-BHC	ug/L	2.10	21	0.0324 U	0.0331 U	0.0324 U	0.0324 U	0.0324 U	0.0324 U	0.0328 U	0.0324 U	0.0324 U	0.0324 U	0.0324 U	0.0331 U
Dieldrin	ug/L	0.00200	0.2	0.0352 U	0.0359 U	0.0352 U	0.0352 U	0.0352 U	0.0352 U	0.0356 U	0.0352 U	0.0352 U	0.0352 U	0.0352 U	0.0359 U
Endosulfan I	ug/L	NA	NA	0.0357 U	0.0364 U	0.0357 U	0.0357 U	0.0357 U	0.0357 U	0.0360 U	0.0357 U	0.0357 U	0.0357 U	0.0357 U	0.0364 U
Endosulfan II	ug/L	NA	NA	0.0480 U	0.0489 U	0.0480 U	0.0480 U	0.0480 U	0.0480 U	0.0484 U	0.0480 U	0.0480 U	0.0480 U	0.0480 U	0.0489 U
Endosulfan Sulfate	ug/L	NA	NA	0.0341 U	0.0348 U	0.0341 U	0.0341 U	0.0341 U	0.0341 U	0.0345 U	0.0341 U	0.0341 U	0.0341 U	0.0341 U	0.0348 U
Endrin	ug/L	2.00	20	0.0498 U	0.0508 U	0.0498 U	0.0498 U	0.0498 U	0.0498 U	0.0503 U	0.0498 U	0.0498 U	0.0498 U	0.0498 U	0.0508 U
Endrin Aldehyde	ug/L	NA	NA	0.0318 U	0.0324 U	0.0318 U	0.0318 U	0.0318 U	0.0318 U	0.0321 U	0.0318 U	0.0318 U	0.0318 U	0.0318 U	0.0324 U
Endrin Ketone	ug/L	NA	NA	0.0356 U	0.0363 U	0.0356 U	0.0356 U	0.0356 U	0.0356 U	0.0360 U	0.0356 U	0.0356 U	0.0356 U	0.0356 U	0.0363 U
Gamma-BHC (Lindane)	ug/L	0.200	2	0.0407 U	0.0416 U	0.0407 U	0.0407 U	0.0407 U	0.0407 U	0.0412 U	0.0407 U	0.0407 U	0.0407 U	0.0407 U	0.0416 U
Gamma-Chlordane	ug/L	NA	NA	0.0351 U	0.0358 U	0.0351 U	0.0351 U	0.0351 U	0.0351 U	0.0354 U	0.0351 U	0.0351 U	0.0351 U	0.0351 U	0.0358 U
Heptachlor	ug/L	0.400	40	0.0426 U	0.0435 U	0.0426 U	0.0426 U	0.0426 U	0.0426 U	0.0431 U	0.0426 U	0.0426 U	0.0426 U	0.0426 U	0.0435 U
Heptachlor Epoxide	ug/L	0.200	20	0.0363 U	0.0370 U	0.0363 U	0.0363 U	0.0363 U	0.0363 U	0.0366 U	0.0363 U	0.0363 U	0.0363 U	0.0363 U	0.0370 U
Methoxychlor	ug/L	40.0	400	0.0543 U	0.0554 U	0.0543 U	0.0543 U	0.0543 U	0.0543 U	0.0549 U	0.0543 U	0.0543 U	0.0543 U	0.0543 U	0.0554 U
Chlordane	ug/L	2.00	200	0.516 U	0.527 U	0.516 U	0.516 U	0.516 U	0.516 U	0.522 U	0.516 U	0.516 U	0.516 U	0.516 U	0.527 U
Toxaphene	ug/L	3.00	300	0.385 U	0.392 U	0.385 U	0.385 U	0.385 U	0.385 U	0.388 U	0.385 U	0.385 U	0.385 U	0.385 U	0.392 U
EPA 8141															
Chlorfenvinphos	ug/L	NA	NA	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U
Chlorpyrifos methyl	ug/L	70.0	700	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U
Famphur	ug/L	3.50	35	**2.50**	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J
Fensulfothion	ug/L	1.80	18	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U
Sulfotepp	ug/L	3.50	NA	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U
Bolstar	ug/L	NA	NA	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J
Trichlorfon	ug/L	NA	NA	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U
Azinphos-methyl	ug/L	11.0	110	0.0153 U J	0.0153 U J	0.0153 U J	0.0153 U J	0.0153 U J	0.0153 U J	0.0153 U J	0.0153 U J	0.0153 U J	0.0153 U J	0.0153 U J	0.0153 U J
Chlorpyrifos	ug/L	NA	NA	0.0152 U J	0.0152 U J	0.0152 U J	0.0152 U J	0.0152 U J	0.0152 U J	0.0152 U J	0.0152 U J	0.0152 U J	0.0152 U J	0.0152 U J	0.0152 U J
Coumaphos	ug/L	1.80	18	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J
Demeton-O	ug/L	NA	NA	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J
Demeton-S	ug/L	NA	NA	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J
Diazinon	ug/L	6.30	63	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J
Dichlorovos	ug/L	0.100	NA	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J
Dimethoate	ug/L	1.40	14	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J
Disulfoton	ug/L	NA	NA	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J

Table 2
Summary of Shallow Groundwater Analytical Results
Proposed Publix Store No. 1465
Southeast Corner of Old Cutler Road and SW 208th Street
Cutler Bay, Miami-Dade COunty, Florida

			Sample Name	MW-1	MW-10	MW-11	MW-12	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9
			Sample Collection Date	8/6/19	8/6/19	8/6/19	8/6/19	8/6/19	8/6/19	8/6/19	8/6/19	8/6/19	8/6/19	8/6/19	8/6/19
Parameter	**Reporting Units**	**GCTL**	**NADCs**												
EPN	ug/L	0.0700	0.7	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J
Ethoprop	ug/L	0.700	7	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J
Fenthion	ug/L	NA	NA	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J
Malathion	ug/L	140	1400	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J
Merphos	ug/L	0.200	2	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J
Mevinphos	ug/L	1.80	18	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J
Monocrotophos	ug/L	NA	NA	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J
Naled	ug/L	14.0	140	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J
Parathion, Ethyl	ug/L	NA	NA	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J
Parathion, Methyl	ug/L	1.80	18	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J
Phorate	ug/L	1.40	14	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J
Ronnel	ug/L	350	3500	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J
stirophos	ug/L	NA	NA	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J
TEPP	ug/L	NA	NA	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J
Trichloronate	ug/L	NA	NA	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J	0.0500 U J

Value is Above Laboratory Minimum Detection Limit **	1
Value is above Groundwater Criteria Surface Water Cleanup Target Level (2005)*	10
Value is above Groundwater Criteria Natural Attenuation Default Concentration*	100

Table 3
Summary of Intermediate Groundwater Analytical Results
Proposed Publix Store No. 1465
Southeast Corner of Old Cutler Road and SW 208th Street
Cutler Bay, Miami-Dade County, Florida

				Sample Name	MW-10I	MW-1I	MW-2I	MW-3I	MW-4I	MW-9I
				Sample Collection Date	09/06/2019	09/06/2019	09/06/2019	09/06/2019	09/06/2019	09/06/2019
Parameter	**Reporting Units §**	**GCTL**	**NADCs**							
EPA 6010										
Arsenic	ug/L	10.0	NA	NA	5.50 U	5.50 U	5.50 U	5.50 U	5.50 U	5.50 U
Iron	ug/L	300	NA	NA	**48.3 I**	**55.3 I**	**55.4 I**	**515**	**142 I**	**66.8 I**

Value is Above Laboratory Minimum Detection Limit **	**1**
Value is above Groundwater Criteria Surface Water Cleanup Target Level (2005)*	**10**
Value is above Groundwater Criteria Natural Attenuation Default Concentration*	**100**

Analytical Report 632441

for

Universal Engineering Services Miami

Project Manager: Leigh Marshallsay

Proposed Publix

2110.1900103

07-AUG-19

Xenco Laboratories
1395 NW 17th Avenue, Suite 112A
Delray Beach, FL 33445
Ph:(561) 689-6701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-29), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142), North Carolina (681)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-19-19), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-14)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-20)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-18)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Atlanta (LELAP Lab ID #04176)
Xenco-Tampa: Florida (E87429), North Carolina (483)

07-AUG-19

Project Manager: **Leigh Marshallsay**
Universal Engineering Services Miami
9960 NW 116th Way Suite 8

Miami, FL 33178

Reference: XENCO Report No(s): **632441**
Proposed Publix
Project Address:

Leigh Marshallsay:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 632441. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 632441 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Matthew Jones
Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America

Sample Cross Reference 632441

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
CS-1 (0-6")	S	07-29-19 10:30	0 - 6	632441-001
CS-1 (6"-24")	S	07-29-19 10:30	6 - 24	632441-002
CS-2 (0-6")	S	07-29-19 12:43	0 - 6	632441-003
CS-2 (6"-24")	S	07-29-19 12:43	6 - 24	632441-004
CS-3 (0-6")	S	07-29-19 12:45	0 - 6	632441-005
CS-3 (6"-24")	S	07-29-19 12:45	6 - 24	632441-006
CS-4 (0-6")	S	07-29-19 12:52	0 - 6	632441-007
CS-4 (6"-24")	S	07-29-19 12:52	6 - 24	632441-008
CS-5 (0-6")	S	07-29-19 13:15	0 - 6	632441-009
CS-5 (6"-24")	S	07-29-19 13:15	6 - 24	632441-010
CS-6 (0-6")	S	07-29-19 13:25	0 - 6	632441-011
CS-6 (6"-24")	S	07-29-19 13:25	6 - 24	632441-012
CS-7 (0-6")	S	07-29-19 13:33	0 - 6	632441-013
CS-7 (6"-24")	S	07-29-19 13:33	6 - 24	632441-014
CS-8 (0-6")	S	07-29-19 13:46	0 - 6	632441-015
CS-8 (6"-24")	S	07-29-19 13:46	6 - 24	632441-016
CS-9 (0-6")	S	07-29-19 13:54	0 - 6	632441-017
CS-9 (6"-24")	S	07-29-19 13:54	6 - 24	632441-018
CS-10 (0-6")	S	07-29-19 14:05	0 - 6	632441-019
CS-10 (6"-24")	S	07-29-19 14:05	6 - 24	632441-020
CS-11 (0-6")	S	07-29-19 14:13	0 - 6	632441-021
CS-11 (6"-24")	S	07-29-19 14:13	6 - 24	632441-022
CS-12 (0-6")	S	07-29-19 14:21	0 - 6	632441-023
CS-12 (6"-24")	S	07-29-19 14:21	6 - 24	632441-024
CS-13 (0-6")	S	07-29-19 14:30	0 - 6	632441-025
CS-13 (6"-24")	S	07-29-19 14:30	6 - 24	632441-026
CS-14 (0-6")	S	07-29-19 14:38	0 - 6	632441-027
CS-14 (6"-24")	S	07-29-19 14:38	6 - 24	632441-028

CASE NARRATIVE

Client Name: Universal Engineering Services Miami

Project Name: Proposed Publix

Project ID: *2110.1900103*
Work Order Number(s): *632441*

Report Date: *07-AUG-19*
Date Received: *07/30/2019*

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3097281 Percent Moisture by SM2540G

Percent Moisture RPD is outside the QC limit. This is most likely due to sample non-homogeneity. Samples in the analytical batch are: CS-1 (0-6") (632441-001), CS-1 (6"-24") (632441-002), CS-2 (0-6") (632441-003), CS-2 (6"-24") (632441-004), CS-3 (0-6") (632441-005), CS-3 (6"-24") (632441-006), CS-4 (0-6") (632441-007), CS-4 (6"-24") (632441-008), CS-5 (0-6") (632441-009), CS-5 (6"-24") (632441-010), CS-6 (0-6") (632441-011), CS-6 (6"-24") (632441-012), CS-7 (0-6") (632441-013), CS-7 (6"-24") (632441-014), CS-8 (0-6") (632441-015), CS-8 (6"-24") (632441-016), CS-8 (6"-24") (632441-017), CS-9 (6"-24") (632441-018), CS-10 (0-6") (632441-019), CS-10 (6"-24") (632441-020).

Batch: LBA-3097481 Metals, Total by SW846 6010C

The matrix spike duplicate (MSD) associated with batch 3097481 recovered outside control limits for Iron due to matrix interference. The associated laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) recovered within limits. Associated sample results have been reported and qualified.

Batch: LBA-3097570 EPA 8141 Organophosphorus Pesticides by GC

The matrix spike (MS) associated with batch 3097570 recovered outside control limits for multiple analytes due to matrix interference. The associated sample results have been reported and qualified.

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) associated with batch 3097570 recovered outside accuracy (%Rec) and / or precision (%RPD) control limits for multiple analytes. These analytes were not detected in any of the associated samples; therefore, the results have been reported and qualified.

CASE NARRATIVE

Client Name: Universal Engineering Services Miami

Project Name: Proposed Publix

Project ID: *2110.1900103*
Work Order Number(s): *632441*

Report Date: *07-AUG-19*
Date Received: *07/30/2019*

Batch: LBA-3097713 EPA 8141 Organophosphorus Pesticides by GC
The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) associated with batch 3097713 recovered outside accuracy (%Rec) and / or precision (%RPD) control limits for multiple analytes. These analytes were not detected in any of the associated samples; therefore, the results have been reported and qualified.

The matrix spike (MS) and / or matrix spike duplicate (MSD) associated with batch 3097713 recovered outside control limits for multiple analytes due to matrix interference. The associated sample results have been reported and qualified.

Batch: LBA-3097724 Pesticides by SW-846 8081B
Surrogate Tetrachloro-m-xylene recovered below QC limits for the following samples: CS-1 (6"-24") (632441-002), CS-2 (0-6") (632441-003), and CS-6 (6"-24") (632441-012). Matrix interferences is suspected and data was confirmed by re-analysis; therefore, the results have been reported and qualified.

The precision (%RPD) of the matrix spike (MS) and matrix spike duplicate (MSD) associated with batch 3097724 recovered outside control limits for multiple analytes. Precision (%Rec) of the MS and MSD was within limits. Associated results have been reported and qualified.

Chlordane NOS (not otherwise specified): Pattern in sample does not match technical chlordane standard, however alpha and gamma chlordane present.

Batch: LBA-3097787 SPLP Ammonia By EPA 350.1
The matrix spike duplicate (MSD) associated with batch 3097787 recovered outside control limits for Nitrogen, Ammonia (as N) due to matrix interference. The associated laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) recovered within limits. Associated sample results have been reported and qualified.

Hits Summary 632441

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Below is a summary of the analytes which were found to be present in the samples associated with this work order. This should only be used in conjunction with the included analytical results.

Sample ID: CS-1 (0-6") **Sample ID: 632441-001** **Date/Time Sampled: 07/29/2019 10:30** **Matrix: Solid**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
4,4-DDT	SW8081B	50-29-3	1	0.000471	0.00365	0.000278	mg/kg	I

Sample ID: CS-1 (0-6") **Sample ID: 632441-001** **Date/Time Sampled: 07/29/2019 10:30** **Matrix: Solid**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Chromium	SW6010C	7440-47-3	1	5.58	0.998	0.0702	mg/kg	
Copper	SW6010C	7440-50-8	1	13.3	2.00	0.442	mg/kg	
Iron	SW6010C	7439-89-6	1	791	20.0	2.69	mg/kg	
Manganese	SW6010C	7439-96-5	1	103	2.00	0.277	mg/kg	
Percent Moisture	SM2540G	MOIST	1	8.90			%	

Sample ID: CS-1 (0-6") **Sample ID: 632441-001** **Date/Time Sampled: 07/29/2019 10:30** **Matrix: Water**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Nitrogen, Ammonia (as N)	SPLP-EPA 350.1	7664-41-7	1	0.573	0.100	0.0345	mg/L	
Nitrogen, Nitrate-Nitrite	SPLP-EPA353.2	7727-37-9	1	0.0632	0.100	0.0283	mg/L	I

Sample ID: CS-1 (6"-24") **Sample ID: 632441-002** **Date/Time Sampled: 07/29/2019 10:30** **Matrix: Solid**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
4,4-DDT	SW8081B	50-29-3	1	0.000375	0.00475	0.000362	mg/kg	I

Sample ID: CS-1 (6"-24") **Sample ID: 632441-002** **Date/Time Sampled: 07/29/2019 10:30** **Matrix: Solid**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Arsenic	SW6010C	7440-38-2	1	10.3	2.85	0.603	mg/kg	
Chromium	SW6010C	7440-47-3	1	5.40	1.42	0.100	mg/kg	
Copper	SW6010C	7440-50-8	1	19.7	2.85	0.631	mg/kg	
Iron	SW6010C	7439-89-6	1	1390	28.5	3.84	mg/kg	
Lead	SW6010C	7439-92-1	1	1.31	2.85	0.677	mg/kg	I
Manganese	SW6010C	7439-96-5	1	165	2.85	0.395	mg/kg	
Percent Moisture	SM2540G	MOIST	1	29.8			%	

Sample ID: CS-1 (6"-24") **Sample ID: 632441-002** **Date/Time Sampled: 07/29/2019 10:30** **Matrix: Water**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Nitrogen, Ammonia (as N)	SPLP-EPA 350.1	7664-41-7	1	0.127	0.100	0.0345	mg/L	
Nitrogen, Nitrate-Nitrite	SPLP-EPA353.2	7727-37-9	1	0.0736	0.100	0.0283	mg/L	I

Sample ID: CS-2 (0-6") **Sample ID: 632441-003** **Date/Time Sampled: 07/29/2019 12:43** **Matrix: Solid**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Arsenic	SW6010C	7440-38-2	1	3.45	2.94	0.623	mg/kg	
Copper	SW6010C	7440-50-8	1	2.38	2.94	0.652	mg/kg	I
Iron	SW6010C	7439-89-6	1	1040	29.4	3.97	mg/kg	
Manganese	SW6010C	7439-96-5	1	72.2	2.94	0.408	mg/kg	
Percent Moisture	SM2540G	MOIST	1	34.6			%	

Sample ID: CS-2 (0-6") **Sample ID: 632441-003** **Date/Time Sampled: 07/29/2019 12:43** **Matrix: Water**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual

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Sample ID: 632441-003 **Date/Time Sampled: 07/29/2019 12:43** **Matrix: Water**

Nitrogen, Ammonia (as N)	SPLP-EPA 350.1	7664-41-7	1	0.102	0.100	0.0345	mg/L	
Nitrogen, Nitrate-Nitrite	SPLP-EPA353.2	7727-37-9	1	0.0592	0.100	0.0283	mg/L	I

Sample ID: CS-2 (6"-24") **Sample ID: 632441-004** **Date/Time Sampled: 07/29/2019 12:43** **Matrix: Solid**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Arsenic	SW6010C	7440-38-2	1	19.6	2.78	0.589	mg/kg	
Chromium	SW6010C	7440-47-3	1	9.58	1.39	0.0978	mg/kg	
Copper	SW6010C	7440-50-8	1	30.8	2.78	0.616	mg/kg	
Iron	SW6010C	7439-89-6	1	1540	27.8	3.75	mg/kg	
Lead	SW6010C	7439-92-1	1	5.40	2.78	0.661	mg/kg	
Manganese	SW6010C	7439-96-5	1	243	2.78	0.386	mg/kg	
Percent Moisture	SM2540G	MOIST	1	32.1			%	

Sample ID: CS-2 (6"-24") **Sample ID: 632441-004** **Date/Time Sampled: 07/29/2019 12:43** **Matrix: Water**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Nitrogen, Ammonia (as N)	SPLP-EPA 350.1	7664-41-7	1	0.205	0.100	0.0345	mg/L	
Nitrogen, Nitrate-Nitrite	SPLP-EPA353.2	7727-37-9	1	0.0497	0.100	0.0283	mg/L	I

Sample ID: CS-3 (0-6") **Sample ID: 632441-005** **Date/Time Sampled: 07/29/2019 12:45** **Matrix: Solid**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Iron	SW6010C	7439-89-6	1	989	25.9	3.49	mg/kg	
Manganese	SW6010C	7439-96-5	1	28.7	2.59	0.359	mg/kg	
Percent Moisture	SM2540G	MOIST	1	29.8			%	

Sample ID: CS-3 (0-6") **Sample ID: 632441-005** **Date/Time Sampled: 07/29/2019 12:45** **Matrix: Water**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Nitrogen, Ammonia (as N)	SPLP-EPA 350.1	7664-41-7	1	0.0692	0.100	0.0345	mg/L	I
Nitrogen, Nitrate-Nitrite	SPLP-EPA353.2	7727-37-9	1	0.0400	0.100	0.0283	mg/L	I

Sample ID: CS-3 (6"-24") **Sample ID: 632441-006** **Date/Time Sampled: 07/29/2019 12:45** **Matrix: Solid**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
4,4-DDT	SW8081B	50-29-3	1	0.000475	0.00480	0.000365	mg/kg	I

Sample ID: CS-3 (6"-24") **Sample ID: 632441-006** **Date/Time Sampled: 07/29/2019 12:45** **Matrix: Solid**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Arsenic	SW6010C	7440-38-2	1	17.1	2.82	0.599	mg/kg	
Chromium	SW6010C	7440-47-3	1	8.87	1.41	0.0994	mg/kg	
Copper	SW6010C	7440-50-8	1	29.4	2.82	0.626	mg/kg	
Iron	SW6010C	7439-89-6	1	1290	28.2	3.81	mg/kg	
Lead	SW6010C	7439-92-1	1	6.49	2.82	0.672	mg/kg	
Manganese	SW6010C	7439-96-5	1	208	2.82	0.392	mg/kg	
Percent Moisture	SM2540G	MOIST	1	30.6			%	

Sample ID: CS-3 (6"-24") **Sample ID: 632441-006** **Date/Time Sampled: 07/29/2019 12:45** **Matrix: Water**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Nitrogen, Ammonia (as N)	SPLP-EPA 350.1	7664-41-7	1	0.227	0.100	0.0345	mg/L	

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Sample ID: 632441-006 **Date/Time Sampled: 07/29/2019 12:45** **Matrix: Water**

Nitrogen, Nitrate-Nitrite	SPLP-EPA353.2	7727-37-9	1	0.0493	0.100	0.0283	mg/L	I

Sample ID: CS-4 (0-6") **Sample ID: 632441-007** **Date/Time Sampled: 07/29/2019 12:52** **Matrix: Solid**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Arsenic	SW6010C	7440-38-2	1	10.9	2.89	0.613	mg/kg	
Chromium	SW6010C	7440-47-3	1	7.16	1.45	0.102	mg/kg	
Copper	SW6010C	7440-50-8	1	25.1	2.89	0.640	mg/kg	
Iron	SW6010C	7439-89-6	1	1400	28.9	3.90	mg/kg	
Lead	SW6010C	7439-92-1	1	4.95	2.89	0.687	mg/kg	
Manganese	SW6010C	7439-96-5	1	186	2.89	0.401	mg/kg	
Percent Moisture	SM2540G	MOIST	1	38.2			%	

Sample ID: CS-4 (0-6") **Sample ID: 632441-007** **Date/Time Sampled: 07/29/2019 12:52** **Matrix: Water**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Nitrogen, Ammonia (as N)	SPLP-EPA 350.1	7664-41-7	1	0.247	0.100	0.0345	mg/L	

Sample ID: CS-4 (6"-24") **Sample ID: 632441-008** **Date/Time Sampled: 07/29/2019 12:52** **Matrix: Solid**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Iron	SW6010C	7439-89-6	1	1130	27.1	3.66	mg/kg	
Manganese	SW6010C	7439-96-5	1	25.0	2.71	0.377	mg/kg	
Percent Moisture	SM2540G	MOIST	1	26.3			%	

Sample ID: CS-4 (6"-24") **Sample ID: 632441-008** **Date/Time Sampled: 07/29/2019 12:52** **Matrix: Water**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Nitrogen, Ammonia (as N)	SPLP-EPA 350.1	7664-41-7	1	0.0873	0.100	0.0345	mg/L	I
Nitrogen, Nitrate-Nitrite	SPLP-EPA353.2	7727-37-9	1	0.0378	0.100	0.0283	mg/L	I

Sample ID: CS-5 (0-6") **Sample ID: 632441-009** **Date/Time Sampled: 07/29/2019 13:15** **Matrix: Solid**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
4,4-DDT	SW8081B	50-29-3	1	0.000622	0.00532	0.000405	mg/kg	I

Sample ID: CS-5 (0-6") **Sample ID: 632441-009** **Date/Time Sampled: 07/29/2019 13:15** **Matrix: Solid**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Arsenic	SW6010C	7440-38-2	1	15.8	2.85	0.603	mg/kg	
Chromium	SW6010C	7440-47-3	1	6.72	1.42	0.100	mg/kg	
Copper	SW6010C	7440-50-8	1	27.8	2.85	0.630	mg/kg	
Iron	SW6010C	7439-89-6	1	1520	28.5	3.84	mg/kg	
Lead	SW6010C	7439-92-1	1	6.01	2.85	0.677	mg/kg	
Manganese	SW6010C	7439-96-5	1	214	2.85	0.395	mg/kg	
Percent Moisture	SM2540G	MOIST	1	37.3			%	

Sample ID: CS-5 (0-6") **Sample ID: 632441-009** **Date/Time Sampled: 07/29/2019 13:15** **Matrix: Water**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Nitrogen, Ammonia (as N)	SPLP-EPA 350.1	7664-41-7	1	0.274	0.100	0.0345	mg/L	
Nitrogen, Nitrate-Nitrite	SPLP-EPA353.2	7727-37-9	1	0.0485	0.100	0.0283	mg/L	I

Sample ID: CS-5 (6"-24") **Sample ID: 632441-010** **Date/Time Sampled: 07/29/2019 13:15** **Matrix: Solid**

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Sample ID: 632441-010 **Date/Time Sampled: 07/29/2019 13:15** **Matrix: Solid**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Iron	SW6010C	7439-89-6	1	939	27.2	3.67	mg/kg	
Manganese	SW6010C	7439-96-5	1	23.8	2.72	0.377	mg/kg	
Percent Moisture	SM2540G	MOIST	1	26.5			%	

Sample ID: CS-5 (6"-24") **Sample ID: 632441-010** **Date/Time Sampled: 07/29/2019 13:15** **Matrix: Water**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Nitrogen, Ammonia (as N)	SPLP-EPA 350.1	7664-41-7	1	0.0808	0.100	0.0345	mg/L	I
Nitrogen, Nitrate-Nitrite	SPLP-EPA353.2	7727-37-9	1	0.0462	0.100	0.0283	mg/L	I

Sample ID: CS-6 (0-6") **Sample ID: 632441-011** **Date/Time Sampled: 07/29/2019 13:25** **Matrix: Solid**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
4,4-DDT	SW8081B	50-29-3	1	0.00107	0.00463	0.000352	mg/kg	I

Sample ID: CS-6 (0-6") **Sample ID: 632441-011** **Date/Time Sampled: 07/29/2019 13:25** **Matrix: Solid**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Arsenic	SW6010C	7440-38-2	1	8.30	2.62	0.555	mg/kg	
Chromium	SW6010C	7440-47-3	1	5.53	1.31	0.0922	mg/kg	
Copper	SW6010C	7440-50-8	1	20.5	2.62	0.581	mg/kg	
Iron	SW6010C	7439-89-6	1	1030	26.2	3.53	mg/kg	
Lead	SW6010C	7439-92-1	1	5.24	2.62	0.623	mg/kg	
Manganese	SW6010C	7439-96-5	1	168	2.62	0.364	mg/kg	
Percent Moisture	SM2540G	MOIST	1	28.0			%	

Sample ID: CS-6 (0-6") **Sample ID: 632441-011** **Date/Time Sampled: 07/29/2019 13:25** **Matrix: Water**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Nitrogen, Ammonia (as N)	SPLP-EPA 350.1	7664-41-7	1	0.253	0.100	0.0345	mg/L	
Nitrogen, Nitrate-Nitrite	SPLP-EPA353.2	7727-37-9	1	0.0585	0.100	0.0283	mg/L	I

Sample ID: CS-6 (6"-24") **Sample ID: 632441-012** **Date/Time Sampled: 07/29/2019 13:25** **Matrix: Solid**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
4,4-DDE	SW8081B	72-55-9	1	0.00868	0.00448	0.00224	mg/kg	
Alpha-Chlordane	SW8081B	5103-71-9	1	0.00557	0.00448	0.000766	mg/kg	
Dieldrin	SW8081B	60-57-1	1	0.00108	0.00448	0.000228	mg/kg	I
Gamma-Chlordane	SW8081B	5103-74-2	1	0.00290	0.00448	0.00103	mg/kg	I

Sample ID: CS-6 (6"-24") **Sample ID: 632441-012** **Date/Time Sampled: 07/29/2019 13:25** **Matrix: Solid**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Chromium	SW6010C	7440-47-3	1	0.383	1.34	0.0945	mg/kg	I
Copper	SW6010C	7440-50-8	1	4.20	2.69	0.595	mg/kg	
Iron	SW6010C	7439-89-6	1	1280	26.9	3.62	mg/kg	
Lead	SW6010C	7439-92-1	1	0.753	2.69	0.639	mg/kg	I
Manganese	SW6010C	7439-96-5	1	49.7	2.69	0.373	mg/kg	
Percent Moisture	SM2540G	MOIST	1	25.5			%	

Sample ID: CS-6 (6"-24") **Sample ID: 632441-012** **Date/Time Sampled: 07/29/2019 13:25** **Matrix: Water**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual

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Sample ID: 632441-012 **Date/Time Sampled: 07/29/2019 13:25** **Matrix: Water**

Nitrogen, Ammonia (as N)	SPLP-EPA 350.1	7664-41-7	1	0.0693	0.100	0.0345	mg/L	I
Nitrogen, Nitrate-Nitrite	SPLP-EPA353.2	7727-37-9	1	0.0377	0.100	0.0283	mg/L	I

Sample ID: CS-7 (0-6") **Sample ID: 632441-013** **Date/Time Sampled: 07/29/2019 13:33** **Matrix: Solid**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
4,4-DDE	SW8081B	72-55-9	1	0.00248	0.00457	0.00229	mg/kg	I
4,4-DDT	SW8081B	50-29-3	1	0.000700	0.00457	0.000348	mg/kg	I
Alpha-Chlordane	SW8081B	5103-71-9	1	0.00113	0.00457	0.000783	mg/kg	I
Dieldrin	SW8081B	60-57-1	1	0.000366	0.00457	0.000232	mg/kg	I

Sample ID: CS-7 (0-6") **Sample ID: 632441-013** **Date/Time Sampled: 07/29/2019 13:33** **Matrix: Solid**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Chromium	SW6010C	7440-47-3	1	9.89	1.20	0.0846	mg/kg	
Copper	SW6010C	7440-50-8	1	26.1	2.41	0.533	mg/kg	
Iron	SW6010C	7439-89-6	1	1640	24.1	3.24	mg/kg	
Lead	SW6010C	7439-92-1	1	9.08	2.41	0.572	mg/kg	
Manganese	SW6010C	7439-96-5	1	181	2.41	0.334	mg/kg	
Percent Moisture	SM2540G	MOIST	1	27.1			%	

Sample ID: CS-7 (0-6") **Sample ID: 632441-013** **Date/Time Sampled: 07/29/2019 13:33** **Matrix: Water**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Nitrogen, Ammonia (as N)	SPLP-EPA 350.1	7664-41-7	1	0.124	0.100	0.0345	mg/L	
Nitrogen, Nitrate-Nitrite	SPLP-EPA353.2	7727-37-9	1	0.174	0.100	0.0283	mg/L	

Sample ID: CS-7 (6"-24") **Sample ID: 632441-014** **Date/Time Sampled: 07/29/2019 13:33** **Matrix: Water**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Nitrogen, Ammonia (as N)	SPLP-EPA 350.1	7664-41-7	1	0.0850	0.100	0.0345	mg/L	I

Sample ID: CS-7 (6"-24") **Sample ID: 632441-014** **Date/Time Sampled: 07/29/2019 13:33** **Matrix: Solid**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Chromium	SW6010C	7440-47-3	1	12.2	1.06	0.0745	mg/kg	
Iron	SW6010C	7439-89-6	1	2880	21.2	2.85	mg/kg	
Lead	SW6010C	7439-92-1	1	1.25	2.12	0.503	mg/kg	I
Manganese	SW6010C	7439-96-5	1	24.7	2.12	0.294	mg/kg	
Percent Moisture	SM2540G	MOIST	1	21.3			%	

Sample ID: CS-7 (6"-24") **Sample ID: 632441-014** **Date/Time Sampled: 07/29/2019 13:33** **Matrix: Water**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Nitrogen, Nitrate-Nitrite	SPLP-EPA353.2	7727-37-9	1	0.0334	0.100	0.0283	mg/L	I

Sample ID: CS-8 (0-6") **Sample ID: 632441-015** **Date/Time Sampled: 07/29/2019 13:46** **Matrix: Water**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Nitrogen, Ammonia (as N)	SPLP-EPA 350.1	7664-41-7	1	0.149	0.100	0.0345	mg/L	

Sample ID: CS-8 (0-6") **Sample ID: 632441-015** **Date/Time Sampled: 07/29/2019 13:46** **Matrix: Solid**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Chromium	SW6010C	7440-47-3	1	10.8	1.34	0.0943	mg/kg	

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Sample ID: 632441-015 **Date/Time Sampled: 07/29/2019 13:46** **Matrix: Solid**

Copper	SW6010C	7440-50-8	1	31.7	2.68	0.594	mg/kg	
Iron	SW6010C	7439-89-6	1	1410	26.8	3.61	mg/kg	
Lead	SW6010C	7439-92-1	1	9.79	2.68	0.637	mg/kg	
Manganese	SW6010C	7439-96-5	1	297	2.68	0.372	mg/kg	
Percent Moisture	SM2540G	MOIST	1	29.6			%	

Sample ID: CS-8 (0-6") **Sample ID: 632441-015** **Date/Time Sampled: 07/29/2019 13:46** **Matrix: Water**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Nitrogen, Nitrate-Nitrite	SPLP-EPA353.2	7727-37-9	1	0.0882	0.100	0.0283	mg/L	I

Sample ID: CS-8 (6"-24") **Sample ID: 632441-016** **Date/Time Sampled: 07/29/2019 13:46** **Matrix: Water**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Nitrogen, Ammonia (as N)	SPLP-EPA 350.1	7664-41-7	1	0.109	0.100	0.0345	mg/L	

Sample ID: CS-8 (6"-24") **Sample ID: 632441-016** **Date/Time Sampled: 07/29/2019 13:46** **Matrix: Solid**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Chromium	SW6010C	7440-47-3	1	0.664	1.20	0.0847	mg/kg	I
Copper	SW6010C	7440-50-8	1	1.27	2.41	0.533	mg/kg	I
Iron	SW6010C	7439-89-6	1	1020	24.1	3.24	mg/kg	
Manganese	SW6010C	7439-96-5	1	199	2.41	0.334	mg/kg	
Percent Moisture	SM2540G	MOIST	1	27.1			%	

Sample ID: CS-8 (6"-24") **Sample ID: 632441-016** **Date/Time Sampled: 07/29/2019 13:46** **Matrix: Water**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Nitrogen, Nitrate-Nitrite	SPLP-EPA353.2	7727-37-9	1	0.0442	0.100	0.0283	mg/L	I

Sample ID: CS-9 (0-6") **Sample ID: 632441-017** **Date/Time Sampled: 07/29/2019 13:54** **Matrix: Solid**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
4,4-DDT	SW8081B	50-29-3	1	0.00227	0.00511	0.000389	mg/kg	I

Sample ID: CS-9 (0-6") **Sample ID: 632441-017** **Date/Time Sampled: 07/29/2019 13:54** **Matrix: Water**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Nitrogen, Ammonia (as N)	SPLP-EPA 350.1	7664-41-7	1	0.376	0.100	0.0345	mg/L	

Sample ID: CS-9 (0-6") **Sample ID: 632441-017** **Date/Time Sampled: 07/29/2019 13:54** **Matrix: Solid**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Chromium	SW6010C	7440-47-3	1	10.3	1.35	0.0947	mg/kg	
Copper	SW6010C	7440-50-8	1	31.9	2.69	0.596	mg/kg	
Iron	SW6010C	7439-89-6	1	1520	26.9	3.63	mg/kg	
Lead	SW6010C	7439-92-1	1	10.6	2.69	0.640	mg/kg	
Manganese	SW6010C	7439-96-5	1	223	2.69	0.373	mg/kg	
Percent Moisture	SM2540G	MOIST	1	34.8			%	

Sample ID: CS-9 (0-6") **Sample ID: 632441-017** **Date/Time Sampled: 07/29/2019 13:54** **Matrix: Water**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Nitrogen, Nitrate-Nitrite	SPLP-EPA353.2	7727-37-9	1	0.100	0.100	0.0283	mg/L	I

Sample ID: CS-9 (6"-24") **Sample ID: 632441-018** **Date/Time Sampled: 07/29/2019 13:54** **Matrix: Water**

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Sample ID: 632441-018 **Date/Time Sampled: 07/29/2019 13:54** **Matrix: Water**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Nitrogen, Ammonia (as N)	SPLP-EPA 350.1	7664-41-7	1	0.0358	0.100	0.0345	mg/L	I

Sample ID: CS-9 (6"-24") **Sample ID: 632441-018** **Date/Time Sampled: 07/29/2019 13:54** **Matrix: Solid**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Iron	SW6010C	7439-89-6	1	1140	24.6	3.32	mg/kg	
Manganese	SW6010C	7439-96-5	1	26.2	2.46	0.342	mg/kg	
Percent Moisture	SM2540G	MOIST	1	31.2			%	

Sample ID: CS-9 (6"-24") **Sample ID: 632441-018** **Date/Time Sampled: 07/29/2019 13:54** **Matrix: Water**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Nitrogen, Nitrate-Nitrite	SPLP-EPA353.2	7727-37-9	1	0.0633	0.100	0.0283	mg/L	I

Sample ID: CS-10 (0-6") **Sample ID: 632441-019** **Date/Time Sampled: 07/29/2019 14:05** **Matrix: Water**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Nitrogen, Ammonia (as N)	SPLP-EPA 350.1	7664-41-7	1	0.121	0.100	0.0345	mg/L	

Sample ID: CS-10 (0-6") **Sample ID: 632441-019** **Date/Time Sampled: 07/29/2019 14:05** **Matrix: Solid**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Arsenic	SW6010C	7440-38-2	1	1.94	2.47	0.523	mg/kg	I
Chromium	SW6010C	7440-47-3	1	13.5	1.23	0.0868	mg/kg	
Copper	SW6010C	7440-50-8	1	36.9	2.47	0.547	mg/kg	
Iron	SW6010C	7439-89-6	1	1570	24.7	3.33	mg/kg	
Lead	SW6010C	7439-92-1	1	12.5	2.47	0.587	mg/kg	
Manganese	SW6010C	7439-96-5	1	295	2.47	0.342	mg/kg	
Percent Moisture	SM2540G	MOIST	1	30.1			%	

Sample ID: CS-10 (0-6") **Sample ID: 632441-019** **Date/Time Sampled: 07/29/2019 14:05** **Matrix: Water**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Nitrogen, Nitrate-Nitrite	SPLP-EPA353.2	7727-37-9	1	0.126	0.100	0.0283	mg/L	

Sample ID: CS-10 (6"-24") **Sample ID: 632441-020** **Date/Time Sampled: 07/29/2019 14:05** **Matrix: Water**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Nitrogen, Ammonia (as N)	SPLP-EPA 350.1	7664-41-7	1	0.0647	0.100	0.0345	mg/L	I

Sample ID: CS-10 (6"-24") **Sample ID: 632441-020** **Date/Time Sampled: 07/29/2019 14:05** **Matrix: Solid**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Iron	SW6010C	7439-89-6	1	1800	23.7	3.20	mg/kg	
Manganese	SW6010C	7439-96-5	1	29.1	2.37	0.329	mg/kg	
Percent Moisture	SM2540G	MOIST	1	28.5			%	

Sample ID: CS-11 (0-6") **Sample ID: 632441-021** **Date/Time Sampled: 07/29/2019 14:13** **Matrix: Water**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Nitrogen, Ammonia (as N)	SPLP-EPA 350.1	7664-41-7	1	0.132	0.100	0.0345	mg/L	

Sample ID: CS-11 (0-6") **Sample ID: 632441-021** **Date/Time Sampled: 07/29/2019 14:13** **Matrix: Solid**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Arsenic	SW6010C	7440-38-2	1	1.89	2.96	0.627	mg/kg	I

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Sample ID: 632441-021 **Date/Time Sampled: 07/29/2019 14:13** **Matrix: Solid**

Chromium	SW6010C	7440-47-3	1	14.6	1.48	0.104	mg/kg	
Copper	SW6010C	7440-50-8	1	39.6	2.96	0.656	mg/kg	
Iron	SW6010C	7439-89-6	1	1810	29.6	3.99	mg/kg	
Lead	SW6010C	7439-92-1	1	11.9	2.96	0.704	mg/kg	
Manganese	SW6010C	7439-96-5	1	285	2.96	0.411	mg/kg	
Percent Moisture	SM2540G	MOIST	1	41.7			%	

Sample ID: CS-11 (0-6") **Sample ID: 632441-021** **Date/Time Sampled: 07/29/2019 14:13** **Matrix: Water**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Nitrogen, Nitrate-Nitrite	SPLP-EPA353.2	7727-37-9	1	0.0790	0.100	0.0283	mg/L	I

Sample ID: CS-11 (6"-24") **Sample ID: 632441-022** **Date/Time Sampled: 07/29/2019 14:13** **Matrix: Water**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Nitrogen, Ammonia (as N)	SPLP-EPA 350.1	7664-41-7	1	0.0671	0.100	0.0345	mg/L	I

Sample ID: CS-11 (6"-24") **Sample ID: 632441-022** **Date/Time Sampled: 07/29/2019 14:13** **Matrix: Solid**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Chromium	SW6010C	7440-47-3	1	4.45	1.22	0.0861	mg/kg	
Copper	SW6010C	7440-50-8	1	2.42	2.45	0.542	mg/kg	I
Iron	SW6010C	7439-89-6	1	1210	24.5	3.30	mg/kg	
Lead	SW6010C	7439-92-1	1	1.23	2.45	0.582	mg/kg	I
Manganese	SW6010C	7439-96-5	1	54.5	2.45	0.339	mg/kg	
Percent Moisture	SM2540G	MOIST	1	30.7			%	

Sample ID: CS-11 (6"-24") **Sample ID: 632441-022** **Date/Time Sampled: 07/29/2019 14:13** **Matrix: Water**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Nitrogen, Nitrate-Nitrite	SPLP-EPA353.2	7727-37-9	1	0.0520	0.100	0.0283	mg/L	I

Sample ID: CS-12 (0-6") **Sample ID: 632441-023** **Date/Time Sampled: 07/29/2019 14:21** **Matrix: Water**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Nitrogen, Ammonia (as N)	SPLP-EPA 350.1	7664-41-7	1	0.184	0.100	0.0345	mg/L	

Sample ID: CS-12 (0-6") **Sample ID: 632441-023** **Date/Time Sampled: 07/29/2019 14:21** **Matrix: Solid**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Chromium	SW6010C	7440-47-3	1	11.5	1.48	0.104	mg/kg	
Copper	SW6010C	7440-50-8	1	29.1	2.97	0.657	mg/kg	
Iron	SW6010C	7439-89-6	1	1630	29.7	4.00	mg/kg	
Lead	SW6010C	7439-92-1	1	7.90	2.97	0.706	mg/kg	
Manganese	SW6010C	7439-96-5	1	246	2.97	0.412	mg/kg	
Percent Moisture	SM2540G	MOIST	1	33.9			%	

Sample ID: CS-12 (0-6") **Sample ID: 632441-023** **Date/Time Sampled: 07/29/2019 14:21** **Matrix: Water**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Nitrogen, Nitrate-Nitrite	SPLP-EPA353.2	7727-37-9	1	0.153	0.100	0.0283	mg/L	

Sample ID: CS-12 (6"-24") **Sample ID: 632441-024** **Date/Time Sampled: 07/29/2019 14:21** **Matrix: Water**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual

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Sample ID: 632441-024 **Date/Time Sampled: 07/29/2019 14:21** **Matrix: Water**

Nitrogen, Ammonia (as N)	SPLP-EPA 350.1	7664-41-7	1	0.0525	0.100	0.0345	mg/L	IJ

Sample ID: CS-12 (6"-24") **Sample ID: 632441-024** **Date/Time Sampled: 07/29/2019 14:21** **Matrix: Solid**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Iron	SW6010C	7439-89-6	1	868	24.2	3.26	mg/kg	
Manganese	SW6010C	7439-96-5	1	25.0	2.42	0.336	mg/kg	
Percent Moisture	SM2540G	MOIST	1	28.7			%	

Sample ID: CS-12 (6"-24") **Sample ID: 632441-024** **Date/Time Sampled: 07/29/2019 14:21** **Matrix: Water**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Nitrogen, Nitrate-Nitrite	SPLP-EPA353.2	7727-37-9	1	0.0417	0.100	0.0283	mg/L	I

Sample ID: CS-13 (0-6") **Sample ID: 632441-025** **Date/Time Sampled: 07/29/2019 14:30** **Matrix: Water**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Nitrogen, Ammonia (as N)	SPLP-EPA 350.1	7664-41-7	1	0.115	0.100	0.0345	mg/L	

Sample ID: CS-13 (0-6") **Sample ID: 632441-025** **Date/Time Sampled: 07/29/2019 14:30** **Matrix: Solid**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Chromium	SW6010C	7440-47-3	1	10.7	1.40	0.0987	mg/kg	
Copper	SW6010C	7440-50-8	1	27.7	2.80	0.621	mg/kg	
Iron	SW6010C	7439-89-6	1	1510	28.0	3.78	mg/kg	
Lead	SW6010C	7439-92-1	1	8.92	2.80	0.667	mg/kg	
Manganese	SW6010C	7439-96-5	1	195	2.80	0.389	mg/kg	
Percent Moisture	SM2540G	MOIST	1	28.7			%	

Sample ID: CS-13 (0-6") **Sample ID: 632441-025** **Date/Time Sampled: 07/29/2019 14:30** **Matrix: Water**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Nitrogen, Nitrate-Nitrite	SPLP-EPA353.2	7727-37-9	1	0.113	0.100	0.0283	mg/L	

Sample ID: CS-13 (6"-24") **Sample ID: 632441-026** **Date/Time Sampled: 07/29/2019 14:30** **Matrix: Water**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Nitrogen, Ammonia (as N)	SPLP-EPA 350.1	7664-41-7	1	0.0548	0.100	0.0345	mg/L	I

Sample ID: CS-13 (6"-24") **Sample ID: 632441-026** **Date/Time Sampled: 07/29/2019 14:30** **Matrix: Solid**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Iron	SW6010C	7439-89-6	1	769	26.5	3.57	mg/kg	
Manganese	SW6010C	7439-96-5	1	32.8	2.65	0.367	mg/kg	
Percent Moisture	SM2540G	MOIST	1	28.8			%	

Sample ID: CS-14 (0-6") **Sample ID: 632441-027** **Date/Time Sampled: 07/29/2019 14:38** **Matrix: Water**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Nitrogen, Ammonia (as N)	SPLP-EPA 350.1	7664-41-7	1	0.0905	0.100	0.0345	mg/L	I

Sample ID: CS-14 (0-6") **Sample ID: 632441-027** **Date/Time Sampled: 07/29/2019 14:38** **Matrix: Solid**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Arsenic	SW6010C	7440-38-2	1	4.74	2.69	0.569	mg/kg	
Chromium	SW6010C	7440-47-3	1	13.9	1.34	0.0945	mg/kg	

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Sample ID: 632441-027 **Date/Time Sampled: 07/29/2019 14:38** **Matrix: Solid**

Copper	SW6010C	7440-50-8	1	36.6	2.69	0.595	mg/kg	
Iron	SW6010C	7439-89-6	1	1610	26.9	3.62	mg/kg	
Lead	SW6010C	7439-92-1	1	14.9	2.69	0.639	mg/kg	
Manganese	SW6010C	7439-96-5	1	252	2.69	0.373	mg/kg	
Percent Moisture	SM2540G	MOIST	1	28.4			%	

Sample ID: CS-14 (0-6") **Sample ID: 632441-027** **Date/Time Sampled: 07/29/2019 14:38** **Matrix: Water**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Nitrogen, Nitrate-Nitrite	SPLP-EPA353.2	7727-37-9	1	0.179	0.100	0.0283	mg/L	

Sample ID: CS-14 (6"-24") **Sample ID: 632441-028** **Date/Time Sampled: 07/29/2019 14:38** **Matrix: Water**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Nitrogen, Ammonia (as N)	SPLP-EPA 350.1	7664-41-7	1	0.127	0.100	0.0345	mg/L	

Sample ID: CS-14 (6"-24") **Sample ID: 632441-028** **Date/Time Sampled: 07/29/2019 14:38** **Matrix: Solid**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Chromium	SW6010C	7440-47-3	1	0.496	1.39	0.0982	mg/kg	I
Iron	SW6010C	7439-89-6	1	790	27.9	3.76	mg/kg	
Lead	SW6010C	7439-92-1	1	1.04	2.79	0.663	mg/kg	I
Manganese	SW6010C	7439-96-5	1	33.0	2.79	0.387	mg/kg	
Percent Moisture	SM2540G	MOIST	1	28.3			%	

Sample ID: CS-14 (6"-24") **Sample ID: 632441-028** **Date/Time Sampled: 07/29/2019 14:38** **Matrix: Water**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Nitrogen, Nitrate-Nitrite	SPLP-EPA353.2	7727-37-9	1	0.0295	0.100	0.0283	mg/L	I

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Sample Id:	**CS-1 (0-6")**	Matrix:	Soil	Date Received:	07.30.19 11.10
Lab Sample Id:	632441-001	Date Collected:	07.29.19 10.30	Sample Depth:	0 - 6
Analytical Method:	Metals, Total by SW846 6010C			Prep Method:	SW3050B
Tech:	PJB			% Moisture:	8.9
Analyst:	DEP	Date Prep:	08.02.19 09.15	Basis:	Dry Weight
Seq Number:	3097365			SUB:	E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Arsenic	7440-38-2	0.423 U	2.00	0.423	U	mg/kg	08.02.19 13.10	1
Chromium	7440-47-3	**5.58**	0.998	0.0702		mg/kg	08.02.19 13.10	1
Copper	7440-50-8	**13.3**	2.00	0.442		mg/kg	08.02.19 13.10	1
Iron	7439-89-6	**791**	20.0	2.69		mg/kg	08.02.19 13.10	1
Lead	7439-92-1	0.475 U	2.00	0.475	U	mg/kg	08.02.19 13.10	1
Manganese	7439-96-5	**103**	2.00	0.277		mg/kg	08.02.19 13.10	1

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Sample Id: **CS-1 (0-6")** Matrix: Soil Date Received:07.30.19 11.10

Lab Sample Id: 632441-001 Date Collected: 07.29.19 10.30 Sample Depth: 0 - 6

Analytical Method: EPA 8141 Organophosphorus Pesticides by GC Prep Method: SW3550

Tech: BNS % Moisture:

Analyst: CHD Date Prep: 08.02.19 13.30 Basis: Wet Weight

Seq Number: 3097570 SUB: E871146

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
azinphos-methyl	86-50-0	0.00164 U	0.00328	0.00164	UJ	mg/kg	08.05.19 23.26	1
Chlorpyrifos	2921-88-2	0.00164 U	0.00328	0.00164	U	mg/kg	08.05.19 23.26	1
Coumaphos	56-72-4	0.00164 U	0.00328	0.00164	UJ	mg/kg	08.05.19 23.26	1
Demeton-O	298-03-3	0.00164 U	0.00328	0.00164	U	mg/kg	08.05.19 23.26	1
Demeton-S	126-75-0	0.00164 U	0.00328	0.00164	U	mg/kg	08.05.19 23.26	1
Diazinon	333-41-5	0.00164 U	0.00328	0.00164	U	mg/kg	08.05.19 23.26	1
Dimethoate	60-51-5	0.00164 U	0.00328	0.00164	U	mg/kg	08.05.19 23.26	1
EPN (Ent)	2104-64-5	0.00164 U	0.00328	0.00164	U	mg/kg	08.05.19 23.26	1
Ethoprop	13194-48-4	0.00164 U	0.00328	0.00164	U	mg/kg	08.05.19 23.26	1
Famphur	52-85-7	0.00164 U	0.00328	0.00164	U	mg/kg	08.05.19 23.26	1
Fenthion	55-38-9	0.00164 U	0.00328	0.00164	U	mg/kg	08.05.19 23.26	1
Malathion	121-75-5	0.00164 U	0.00328	0.00164	U	mg/kg	08.05.19 23.26	1
Merphos	150-50-5	0.00164 U	0.00328	0.00164	UJ	mg/kg	08.05.19 23.26	1
Mevinphos	7786-34-7	0.00164 U	0.00328	0.00164	U	mg/kg	08.05.19 23.26	1
Monocrotophos	2157-98-4	0.00164 U	0.00328	0.00164	UJ	mg/kg	08.05.19 23.26	1
Naled	300-76-5	0.00164 U	0.00328	0.00164	U	mg/kg	08.05.19 23.26	1
Parathion, Ethyl	56-38-2	0.00164 U	0.00328	0.00164	U	mg/kg	08.05.19 23.26	1
Parathion, Methyl	298-00-0	0.00164 U	0.00328	0.00164	U	mg/kg	08.05.19 23.26	1
Phorate	298-02-2	0.00164 U	0.00328	0.00164	U	mg/kg	08.05.19 23.26	1
Ronnel	299-84-3	0.00164 U	0.00328	0.00164	U	mg/kg	08.05.19 23.26	1
stirophos	22248-79-9	0.00164 U	0.00328	0.00164	U	mg/kg	08.05.19 23.26	1
Sulfotep	3689-24-5	0.00164 U	0.00328	0.00164	U	mg/kg	08.05.19 23.26	1
Sulprofos	35400-43-2	0.00164 U	0.00328	0.00164	U	mg/kg	08.05.19 23.26	1
TEPP	21646-99-1	0.00164 U	0.00328	0.00164	U	mg/kg	08.05.19 23.26	1
Tokuthion	34643-46-4	0.00164 U	0.00328	0.00164	U	mg/kg	08.05.19 23.26	1
Trichloronate	327-98-0	0.00164 U	0.00328	0.00164	U	mg/kg	08.05.19 23.26	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tributyl Phosphate	126-73-8	68	%	38-123	08.05.19 23.26	

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Sample Id:	**CS-1 (0-6")**	Matrix:	Soil	Date Received:	07.30.19 11.10
Lab Sample Id:	632441-001	Date Collected:	07.29.19 10.30	Sample Depth:	0 - 6
Analytical Method:	Pesticides by SW-846 8081B			Prep Method:	SW3550
Tech:	JSE			% Moisture:	8.9
Analyst:	MCK	Date Prep:	08.06.19 07.39	Basis:	Dry Weight
Seq Number:	3097724			SUB:	E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
4,4-DDD	72-54-8	0.000846 U	0.00365	0.000846	U	mg/kg	08.06.19 12.55	1
4,4-DDE	72-55-9	0.00183 U	0.00365	0.00183	U	mg/kg	08.06.19 12.55	1
4,4-DDT	50-29-3	**0.000471**	0.00365	0.000278	I	mg/kg	08.06.19 12.55	1
Aldrin	309-00-2	0.000398 U	0.00365	0.000398	U	mg/kg	08.06.19 12.55	1
Alpha-BHC	319-84-6	0.000745 U	0.00365	0.000745	U	mg/kg	08.06.19 12.55	1
Alpha-Chlordane	5103-71-9	0.000626 U	0.00365	0.000626	U	mg/kg	08.06.19 12.55	1
Beta-BHC	319-85-7	0.000519 U	0.00365	0.000519	U	mg/kg	08.06.19 12.55	1
Delta-BHC	319-86-8	0.00183 U	0.00365	0.00183	U	mg/kg	08.06.19 12.55	1
Dieldrin	60-57-1	0.000186 U	0.00365	0.000186	U	mg/kg	08.06.19 12.55	1
Endosulfan I	959-98-8	0.000221 U	0.00365	0.000221	U	mg/kg	08.06.19 12.55	1
Endosulfan II	33213-65-9	0.000408 U	0.00365	0.000408	U	mg/kg	08.06.19 12.55	1
Endosulfan Sulfate	1031-07-8	0.000302 U	0.00365	0.000302	U	mg/kg	08.06.19 12.55	1
Endrin	72-20-8	0.000319 U	0.00365	0.000319	U	mg/kg	08.06.19 12.55	1
Endrin Aldehyde	7421-93-4	0.000271 U	0.00365	0.000271	U	mg/kg	08.06.19 12.55	1
Endrin Ketone	53494-70-5	0.000395 U	0.00365	0.000395	U	mg/kg	08.06.19 12.55	1
Gamma-BHC (Lindane)	58-89-9	0.000481 U	0.00365	0.000481	U	mg/kg	08.06.19 12.55	1
Gamma-Chlordane	5103-74-2	0.000837 U	0.00365	0.000837	U	mg/kg	08.06.19 12.55	1
Heptachlor	76-44-8	0.000616 U	0.00365	0.000616	U	mg/kg	08.06.19 12.55	1
Heptachlor Epoxide	1024-57-3	0.000268 U	0.00365	0.000268	U	mg/kg	08.06.19 12.55	1
Methoxychlor	72-43-5	0.000555 U	0.00365	0.000555	U	mg/kg	08.06.19 12.55	1
Chlordane	12789-03-6	0.0262 U	0.0914	0.0262	U	mg/kg	08.06.19 12.55	1
Toxaphene	8001-35-2	0.0124 U	0.0914	0.0124	U	mg/kg	08.06.19 12.55	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	49	%	35-135	08.06.19 12.55	
Decachlorobiphenyl	2051-24-3	57	%	25-143	08.06.19 12.55	

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Sample Id: **CS-1 (0-6")** Matrix: Soil Date Received:07.30.19 11.10
Lab Sample Id: 632441-001 Date Collected: 07.29.19 10.30 Sample Depth: 0 - 6

Analytical Method: SPLP Ammonia By EPA 350.1 Prep Method: E350.1P
Tech: KCS % Moisture:
Analyst: KCS Date Prep: 08.06.19 11.00
Seq Number: 3097678 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Ammonia (as N)	7664-41-7	**0.573**	0.100	0.0345		mg/L	08.06.19 15.13	1

Analytical Method: SPLP Nitrate-Nitrite by E353.2 Prep Method: E353.2P
Tech: KCS % Moisture:
Analyst: KCS Date Prep: 08.05.19 11.08
Seq Number: 3097530 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Nitrate-Nitrite	7727-37-9	**0.0632**	0.100	0.0283	I	mg/L	08.05.19 12.14	1

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Sample Id:	**CS-1 (6"-24")**	Matrix:	Soil	Date Received:	07.30.19 11.10
Lab Sample Id:	632441-002	Date Collected:	07.29.19 10.30	Sample Depth:	6 - 24
Analytical Method:	Metals, Total by SW846 6010C			Prep Method:	SW3050B
Tech:	PJB			% Moisture:	29.75
Analyst:	DEP	Date Prep:	08.02.19 09.15	Basis:	Dry Weight
Seq Number:	3097365			SUB:	E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Arsenic	7440-38-2	**10.3**	2.85	0.603		mg/kg	08.05.19 21.08	1
Chromium	7440-47-3	**5.40**	1.42	0.100		mg/kg	08.05.19 21.08	1
Copper	7440-50-8	**19.7**	2.85	0.631		mg/kg	08.05.19 21.08	1
Iron	7439-89-6	**1390**	28.5	3.84		mg/kg	08.05.19 21.08	1
Lead	7439-92-1	**1.31**	2.85	0.677	I	mg/kg	08.05.19 21.08	1
Manganese	7439-96-5	**165**	2.85	0.395		mg/kg	08.05.19 21.08	1

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Sample Id: **CS-1 (6"-24")** Matrix: Soil Date Received:07.30.19 11.10

Lab Sample Id: 632441-002 Date Collected: 07.29.19 10.30 Sample Depth: 6 - 24

Analytical Method: EPA 8141 Organophosphorus Pesticides by GC Prep Method: SW3550

Tech: BNS % Moisture:

Analyst: CHD Date Prep: 08.02.19 13.30 Basis: Wet Weight

Seq Number: 3097570 SUB: E871146

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
azinphos-methyl	86-50-0	0.00166 U	0.00332	0.00166	UJ	mg/kg	08.05.19 23.57	1
Chlorpyrifos	2921-88-2	0.00166 U	0.00332	0.00166	U	mg/kg	08.05.19 23.57	1
Coumaphos	56-72-4	0.00166 U	0.00332	0.00166	UJ	mg/kg	08.05.19 23.57	1
Demeton-O	298-03-3	0.00166 U	0.00332	0.00166	U	mg/kg	08.05.19 23.57	1
Demeton-S	126-75-0	0.00166 U	0.00332	0.00166	U	mg/kg	08.05.19 23.57	1
Diazinon	333-41-5	0.00166 U	0.00332	0.00166	U	mg/kg	08.05.19 23.57	1
Dimethoate	60-51-5	0.00166 U	0.00332	0.00166	U	mg/kg	08.05.19 23.57	1
EPN (Ent)	2104-64-5	0.00166 U	0.00332	0.00166	U	mg/kg	08.05.19 23.57	1
Ethoprop	13194-48-4	0.00166 U	0.00332	0.00166	U	mg/kg	08.05.19 23.57	1
Famphur	52-85-7	0.00166 U	0.00332	0.00166	U	mg/kg	08.05.19 23.57	1
Fenthion	55-38-9	0.00166 U	0.00332	0.00166	U	mg/kg	08.05.19 23.57	1
Malathion	121-75-5	0.00166 U	0.00332	0.00166	U	mg/kg	08.05.19 23.57	1
Merphos	150-50-5	0.00166 U	0.00332	0.00166	UJ	mg/kg	08.05.19 23.57	1
Mevinphos	7786-34-7	0.00166 U	0.00332	0.00166	U	mg/kg	08.05.19 23.57	1
Monocrotophos	2157-98-4	0.00166 U	0.00332	0.00166	UJ	mg/kg	08.05.19 23.57	1
Naled	300-76-5	0.00166 U	0.00332	0.00166	U	mg/kg	08.05.19 23.57	1
Parathion, Ethyl	56-38-2	0.00166 U	0.00332	0.00166	U	mg/kg	08.05.19 23.57	1
Parathion, Methyl	298-00-0	0.00166 U	0.00332	0.00166	U	mg/kg	08.05.19 23.57	1
Phorate	298-02-2	0.00166 U	0.00332	0.00166	U	mg/kg	08.05.19 23.57	1
Ronnel	299-84-3	0.00166 U	0.00332	0.00166	U	mg/kg	08.05.19 23.57	1
stirophos	22248-79-9	0.00166 U	0.00332	0.00166	U	mg/kg	08.05.19 23.57	1
Sulfotep	3689-24-5	0.00166 U	0.00332	0.00166	U	mg/kg	08.05.19 23.57	1
Sulprofos	35400-43-2	0.00166 U	0.00332	0.00166	U	mg/kg	08.05.19 23.57	1
TEPP	21646-99-1	0.00166 U	0.00332	0.00166	U	mg/kg	08.05.19 23.57	1
Tokuthion	34643-46-4	0.00166 U	0.00332	0.00166	U	mg/kg	08.05.19 23.57	1
Trichloronate	327-98-0	0.00166 U	0.00332	0.00166	U	mg/kg	08.05.19 23.57	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tributyl Phosphate	126-73-8	96	%	38-123	08.05.19 23.57	

Certificate of Analytical Results 632441

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-1 (6"-24")** Matrix: Soil Date Received:07.30.19 11.10

Lab Sample Id: 632441-002 Date Collected: 07.29.19 10.30 Sample Depth: 6 - 24

Analytical Method: Pesticides by SW-846 8081B Prep Method: SW3550

Tech: JSE % Moisture: 29.75

Analyst: MCK Date Prep: 08.06.19 07.42 Basis: Dry Weight

Seq Number: 3097724 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
4,4-DDD	72-54-8	0.00110 U	0.00475	0.00110	U	mg/kg	08.06.19 13.08	1
4,4-DDE	72-55-9	0.00237 U	0.00475	0.00237	U	mg/kg	08.06.19 13.08	1
4,4-DDT	50-29-3	**0.000375**	0.00475	0.000362	I	mg/kg	08.06.19 13.08	1
Aldrin	309-00-2	0.000517 U	0.00475	0.000517	UJ	mg/kg	08.06.19 13.08	1
Alpha-BHC	319-84-6	0.000969 U	0.00475	0.000969	UJ	mg/kg	08.06.19 13.08	1
Alpha-Chlordane	5103-71-9	0.000813 U	0.00475	0.000813	U	mg/kg	08.06.19 13.08	1
Beta-BHC	319-85-7	0.000675 U	0.00475	0.000675	U	mg/kg	08.06.19 13.08	1
Delta-BHC	319-86-8	0.00237 U	0.00475	0.00237	U	mg/kg	08.06.19 13.08	1
Dieldrin	60-57-1	0.000241 U	0.00475	0.000241	U	mg/kg	08.06.19 13.08	1
Endosulfan I	959-98-8	0.000288 U	0.00475	0.000288	U	mg/kg	08.06.19 13.08	1
Endosulfan II	33213-65-9	0.000530 U	0.00475	0.000530	U	mg/kg	08.06.19 13.08	1
Endosulfan Sulfate	1031-07-8	0.000393 U	0.00475	0.000393	U	mg/kg	08.06.19 13.08	1
Endrin	72-20-8	0.000414 U	0.00475	0.000414	U	mg/kg	08.06.19 13.08	1
Endrin Aldehyde	7421-93-4	0.000352 U	0.00475	0.000352	U	mg/kg	08.06.19 13.08	1
Endrin Ketone	53494-70-5	0.000514 U	0.00475	0.000514	U	mg/kg	08.06.19 13.08	1
Gamma-BHC (Lindane)	58-89-9	0.000625 U	0.00475	0.000625	UJ	mg/kg	08.06.19 13.08	1
Gamma-Chlordane	5103-74-2	0.00109 U	0.00475	0.00109	U	mg/kg	08.06.19 13.08	1
Heptachlor	76-44-8	0.000801 U	0.00475	0.000801	U	mg/kg	08.06.19 13.08	1
Heptachlor Epoxide	1024-57-3	0.000349 U	0.00475	0.000349	U	mg/kg	08.06.19 13.08	1
Methoxychlor	72-43-5	0.000722 U	0.00475	0.000722	U	mg/kg	08.06.19 13.08	1
Chlordane	12789-03-6	0.0341 U	0.119	0.0341	U	mg/kg	08.06.19 13.08	1
Toxaphene	8001-35-2	0.0161 U	0.119	0.0161	U	mg/kg	08.06.19 13.08	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	31	%	35-135	08.06.19 13.08	J
Decachlorobiphenyl	2051-24-3	48	%	25-143	08.06.19 13.08	

Certificate of Analytical Results 632441

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-1 (6"-24")** Matrix: Soil Date Received:07.30.19 11.10

Lab Sample Id: 632441-002 Date Collected: 07.29.19 10.30 Sample Depth: 6 - 24

Analytical Method: SPLP Ammonia By EPA 350.1 Prep Method: E350.1P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.06.19 11.00

Seq Number: 3097678 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Ammonia (as N)	7664-41-7	**0.127**	0.100	0.0345		mg/L	08.06.19 15.17	1

Analytical Method: SPLP Nitrate-Nitrite by E353.2 Prep Method: E353.2P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.05.19 11.08

Seq Number: 3097530 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Nitrate-Nitrite	7727-37-9	**0.0736**	0.100	0.0283	I	mg/L	08.05.19 12.19	1

Certificate of Analytical Results 632441

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id:	**CS-2 (0-6")**	Matrix:	Soil	Date Received:	07.30.19 11.10
Lab Sample Id:	632441-003	Date Collected:	07.29.19 12.43	Sample Depth:	0 - 6
Analytical Method:	Metals, Total by SW846 6010C			Prep Method:	SW3050B
Tech:	PJB			% Moisture:	34.64
Analyst:	DEP	Date Prep:	08.02.19 09.15	Basis:	Dry Weight
Seq Number:	3097365			SUB:	E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Arsenic	7440-38-2	**3.45**	2.94	0.623		mg/kg	08.05.19 21.12	1
Chromium	7440-47-3	0.104 U	1.47	0.104	U	mg/kg	08.05.19 21.12	1
Copper	7440-50-8	**2.38**	2.94	0.652	I	mg/kg	08.05.19 21.12	1
Iron	7439-89-6	**1040**	29.4	3.97		mg/kg	08.05.19 21.12	1
Lead	7439-92-1	0.700 U	2.94	0.700	U	mg/kg	08.05.19 21.12	1
Manganese	7439-96-5	**72.2**	2.94	0.408		mg/kg	08.05.19 21.12	1

Certificate of Analytical Results 632441

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-2 (0-6")** Matrix: Soil Date Received:07.30.19 11.10

Lab Sample Id: 632441-003 Date Collected: 07.29.19 12.43 Sample Depth: 0 - 6

Analytical Method: EPA 8141 Organophosphorus Pesticides by GC Prep Method: SW3550

Tech: BNS % Moisture:

Analyst: CHD Date Prep: 08.02.19 13.30 Basis: Wet Weight

Seq Number: 3097570 SUB: E871146

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
azinphos-methyl	86-50-0	0.00167 U	0.00333	0.00167	UJ	mg/kg	08.06.19 00.28	1
Chlorpyrifos	2921-88-2	0.00167 U	0.00333	0.00167	U	mg/kg	08.06.19 00.28	1
Coumaphos	56-72-4	0.00167 U	0.00333	0.00167	UJ	mg/kg	08.06.19 00.28	1
Demeton-O	298-03-3	0.00167 U	0.00333	0.00167	U	mg/kg	08.06.19 00.28	1
Demeton-S	126-75-0	0.00167 U	0.00333	0.00167	U	mg/kg	08.06.19 00.28	1
Diazinon	333-41-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.06.19 00.28	1
Dimethoate	60-51-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.06.19 00.28	1
EPN (Ent)	2104-64-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.06.19 00.28	1
Ethoprop	13194-48-4	0.00167 U	0.00333	0.00167	U	mg/kg	08.06.19 00.28	1
Famphur	52-85-7	0.00167 U	0.00333	0.00167	U	mg/kg	08.06.19 00.28	1
Fenthion	55-38-9	0.00167 U	0.00333	0.00167	U	mg/kg	08.06.19 00.28	1
Malathion	121-75-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.06.19 00.28	1
Merphos	150-50-5	0.00167 U	0.00333	0.00167	UJ	mg/kg	08.06.19 00.28	1
Mevinphos	7786-34-7	0.00167 U	0.00333	0.00167	U	mg/kg	08.06.19 00.28	1
Monocrotophos	2157-98-4	0.00167 U	0.00333	0.00167	UJ	mg/kg	08.06.19 00.28	1
Naled	300-76-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.06.19 00.28	1
Parathion, Ethyl	56-38-2	0.00167 U	0.00333	0.00167	U	mg/kg	08.06.19 00.28	1
Parathion, Methyl	298-00-0	0.00167 U	0.00333	0.00167	U	mg/kg	08.06.19 00.28	1
Phorate	298-02-2	0.00167 U	0.00333	0.00167	U	mg/kg	08.06.19 00.28	1
Ronnel	299-84-3	0.00167 U	0.00333	0.00167	U	mg/kg	08.06.19 00.28	1
stirophos	22248-79-9	0.00167 U	0.00333	0.00167	U	mg/kg	08.06.19 00.28	1
Sulfotep	3689-24-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.06.19 00.28	1
Sulprofos	35400-43-2	0.00167 U	0.00333	0.00167	U	mg/kg	08.06.19 00.28	1
TEPP	21646-99-1	0.00167 U	0.00333	0.00167	UJ	mg/kg	08.06.19 00.28	1
Tokuthion	34643-46-4	0.00167 U	0.00333	0.00167	U	mg/kg	08.06.19 00.28	1
Trichloronate	327-98-0	0.00167 U	0.00333	0.00167	U	mg/kg	08.06.19 00.28	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tributyl Phosphate	126-73-8	90	%	38-123	08.06.19 00.28	

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Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-2 (0-6")**
Lab Sample Id: 632441-003

Matrix: Soil
Date Collected: 07.29.19 12.43

Date Received:07.30.19 11.10
Sample Depth: 0 - 6

Analytical Method: Pesticides by SW-846 8081B
Tech: JSE
Analyst: MCK
Seq Number: 3097724

Date Prep: 08.06.19 07.51

Prep Method: SW3550
% Moisture: 34.64
Basis: Dry Weight
SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
4,4-DDD	72-54-8	0.00118 U	0.00510	0.00118	U	mg/kg	08.06.19 13.22	1
4,4-DDE	72-55-9	0.00255 U	0.00510	0.00255	U	mg/kg	08.06.19 13.22	1
4,4-DDT	50-29-3	0.000388 U	0.00510	0.000388	U	mg/kg	08.06.19 13.22	1
Aldrin	309-00-2	0.000555 U	0.00510	0.000555	U	mg/kg	08.06.19 13.22	1
Alpha-BHC	319-84-6	0.00104 U	0.00510	0.00104	U	mg/kg	08.06.19 13.22	1
Alpha-Chlordane	5103-71-9	0.000873 U	0.00510	0.000873	U	mg/kg	08.06.19 13.22	1
Beta-BHC	319-85-7	0.000725 U	0.00510	0.000725	U	mg/kg	08.06.19 13.22	1
Delta-BHC	319-86-8	0.00255 U	0.00510	0.00255	U	mg/kg	08.06.19 13.22	1
Dieldrin	60-57-1	0.000259 U	0.00510	0.000259	U	mg/kg	08.06.19 13.22	1
Endosulfan I	959-98-8	0.000309 U	0.00510	0.000309	U	mg/kg	08.06.19 13.22	1
Endosulfan II	33213-65-9	0.000570 U	0.00510	0.000570	U	mg/kg	08.06.19 13.22	1
Endosulfan Sulfate	1031-07-8	0.000422 U	0.00510	0.000422	U	mg/kg	08.06.19 13.22	1
Endrin	72-20-8	0.000445 U	0.00510	0.000445	U	mg/kg	08.06.19 13.22	1
Endrin Aldehyde	7421-93-4	0.000378 U	0.00510	0.000378	U	mg/kg	08.06.19 13.22	1
Endrin Ketone	53494-70-5	0.000552 U	0.00510	0.000552	U	mg/kg	08.06.19 13.22	1
Gamma-BHC (Lindane)	58-89-9	0.000671 U	0.00510	0.000671	U	mg/kg	08.06.19 13.22	1
Gamma-Chlordane	5103-74-2	0.00117 U	0.00510	0.00117	U	mg/kg	08.06.19 13.22	1
Heptachlor	76-44-8	0.000860 U	0.00510	0.000860	U	mg/kg	08.06.19 13.22	1
Heptachlor Epoxide	1024-57-3	0.000375 U	0.00510	0.000375	U	mg/kg	08.06.19 13.22	1
Methoxychlor	72-43-5	0.000775 U	0.00510	0.000775	U	mg/kg	08.06.19 13.22	1
Chlordane	12789-03-6	0.0366 U	0.127	0.0366	U	mg/kg	08.06.19 13.22	1
Toxaphene	8001-35-2	0.0173 U	0.127	0.0173	U	mg/kg	08.06.19 13.22	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	31	%	35-135	08.06.19 13.22	J
Decachlorobiphenyl	2051-24-3	48	%	25-143	08.06.19 13.22	

Certificate of Analytical Results 632441

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-2 (0-6")** Matrix: Soil Date Received:07.30.19 11.10

Lab Sample Id: 632441-003 Date Collected: 07.29.19 12.43 Sample Depth: 0 - 6

Analytical Method: SPLP Ammonia By EPA 350.1 Prep Method: E350.1P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.06.19 11.00

Seq Number: 3097678 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Ammonia (as N)	7664-41-7	**0.102**	0.100	0.0345		mg/L	08.06.19 15.18	1

Analytical Method: SPLP Nitrate-Nitrite by E353.2 Prep Method: E353.2P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.05.19 11.08

Seq Number: 3097530 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Nitrate-Nitrite	7727-37-9	**0.0592**	0.100	0.0283	I	mg/L	08.05.19 12.20	1

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Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id:	**CS-2 (6"-24")**	Matrix:	Soil	Date Received:	07.30.19 11.10
Lab Sample Id:	632441-004	Date Collected:	07.29.19 12.43	Sample Depth:	6 - 24
Analytical Method:	Metals, Total by SW846 6010C			Prep Method:	SW3050B
Tech:	PJB			% Moisture:	32.13
Analyst:	DEP	Date Prep:	08.02.19 09.15	Basis:	Dry Weight
Seq Number:	3097365			SUB:	E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Arsenic	7440-38-2	**19.6**	2.78	0.589		mg/kg	08.05.19 21.16	1
Chromium	7440-47-3	**9.58**	1.39	0.0978		mg/kg	08.05.19 21.16	1
Copper	7440-50-8	**30.8**	2.78	0.616		mg/kg	08.05.19 21.16	1
Iron	7439-89-6	**1540**	27.8	3.75		mg/kg	08.05.19 21.16	1
Lead	7439-92-1	**5.40**	2.78	0.661		mg/kg	08.05.19 21.16	1
Manganese	7439-96-5	**243**	2.78	0.386		mg/kg	08.05.19 21.16	1

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Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-2 (6"-24")** Matrix: Soil Date Received:07.30.19 11.10

Lab Sample Id: 632441-004 Date Collected: 07.29.19 12.43 Sample Depth: 6 - 24

Analytical Method: EPA 8141 Organophosphorus Pesticides by GC Prep Method: SW3550

Tech: BNS % Moisture:

Analyst: CHD Date Prep: 08.02.19 13.30 Basis: Wet Weight

Seq Number: 3097570 SUB: E871146

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
azinphos-methyl	86-50-0	0.00165 U	0.00330	0.00165	UJ	mg/kg	08.06.19 01.00	1
Chlorpyrifos	2921-88-2	0.00165 U	0.00330	0.00165	U	mg/kg	08.06.19 01.00	1
Coumaphos	56-72-4	0.00165 U	0.00330	0.00165	UJ	mg/kg	08.06.19 01.00	1
Demeton-O	298-03-3	0.00165 U	0.00330	0.00165	U	mg/kg	08.06.19 01.00	1
Demeton-S	126-75-0	0.00165 U	0.00330	0.00165	U	mg/kg	08.06.19 01.00	1
Diazinon	333-41-5	0.00165 U	0.00330	0.00165	U	mg/kg	08.06.19 01.00	1
Dimethoate	60-51-5	0.00165 U	0.00330	0.00165	U	mg/kg	08.06.19 01.00	1
EPN (Ent)	2104-64-5	0.00165 U	0.00330	0.00165	U	mg/kg	08.06.19 01.00	1
Ethoprop	13194-48-4	0.00165 U	0.00330	0.00165	U	mg/kg	08.06.19 01.00	1
Famphur	52-85-7	0.00165 U	0.00330	0.00165	U	mg/kg	08.06.19 01.00	1
Fenthion	55-38-9	0.00165 U	0.00330	0.00165	U	mg/kg	08.06.19 01.00	1
Malathion	121-75-5	0.00165 U	0.00330	0.00165	U	mg/kg	08.06.19 01.00	1
Merphos	150-50-5	0.00165 U	0.00330	0.00165	UJ	mg/kg	08.06.19 01.00	1
Mevinphos	7786-34-7	0.00165 U	0.00330	0.00165	U	mg/kg	08.06.19 01.00	1
Monocrotophos	2157-98-4	0.00165 U	0.00330	0.00165	UJ	mg/kg	08.06.19 01.00	1
Naled	300-76-5	0.00165 U	0.00330	0.00165	U	mg/kg	08.06.19 01.00	1
Parathion, Ethyl	56-38-2	0.00165 U	0.00330	0.00165	U	mg/kg	08.06.19 01.00	1
Parathion, Methyl	298-00-0	0.00165 U	0.00330	0.00165	U	mg/kg	08.06.19 01.00	1
Phorate	298-02-2	0.00165 U	0.00330	0.00165	U	mg/kg	08.06.19 01.00	1
Ronnel	299-84-3	0.00165 U	0.00330	0.00165	U	mg/kg	08.06.19 01.00	1
stirophos	22248-79-9	0.00165 U	0.00330	0.00165	U	mg/kg	08.06.19 01.00	1
Sulfotep	3689-24-5	0.00165 U	0.00330	0.00165	U	mg/kg	08.06.19 01.00	1
Sulprofos	35400-43-2	0.00165 U	0.00330	0.00165	U	mg/kg	08.06.19 01.00	1
TEPP	21646-99-1	0.00165 U	0.00330	0.00165	U	mg/kg	08.06.19 01.00	1
Tokuthion	34643-46-4	0.00165 U	0.00330	0.00165	U	mg/kg	08.06.19 01.00	1
Trichloronate	327-98-0	0.00165 U	0.00330	0.00165	U	mg/kg	08.06.19 01.00	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tributyl Phosphate	126-73-8	77	%	38-123	08.06.19 01.00	

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Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id:	**CS-2 (6"-24")**	Matrix:	Soil	Date Received:	07.30.19 11.10
Lab Sample Id:	632441-004	Date Collected:	07.29.19 12.43	Sample Depth:	6 - 24
Analytical Method:	Pesticides by SW-846 8081B			Prep Method:	SW3550
Tech:	JSE			% Moisture:	32.13
Analyst:	MCK	Date Prep:	08.06.19 07.54	Basis:	Dry Weight
Seq Number:	3097724			SUB:	E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
4,4-DDD	72-54-8	0.00114 U	0.00491	0.00114	U	mg/kg	08.06.19 13.36	1
4,4-DDE	72-55-9	0.00245 U	0.00491	0.00245	U	mg/kg	08.06.19 13.36	1
4,4-DDT	50-29-3	0.000374 U	0.00491	0.000374	U	mg/kg	08.06.19 13.36	1
Aldrin	309-00-2	0.000534 U	0.00491	0.000534	U	mg/kg	08.06.19 13.36	1
Alpha-BHC	319-84-6	0.00100 U	0.00491	0.00100	U	mg/kg	08.06.19 13.36	1
Alpha-Chlordane	5103-71-9	0.000840 U	0.00491	0.000840	U	mg/kg	08.06.19 13.36	1
Beta-BHC	319-85-7	0.000698 U	0.00491	0.000698	U	mg/kg	08.06.19 13.36	1
Delta-BHC	319-86-8	0.00245 U	0.00491	0.00245	U	mg/kg	08.06.19 13.36	1
Dieldrin	60-57-1	0.000249 U	0.00491	0.000249	U	mg/kg	08.06.19 13.36	1
Endosulfan I	959-98-8	0.000297 U	0.00491	0.000297	U	mg/kg	08.06.19 13.36	1
Endosulfan II	33213-65-9	0.000548 U	0.00491	0.000548	U	mg/kg	08.06.19 13.36	1
Endosulfan Sulfate	1031-07-8	0.000406 U	0.00491	0.000406	U	mg/kg	08.06.19 13.36	1
Endrin	72-20-8	0.000428 U	0.00491	0.000428	U	mg/kg	08.06.19 13.36	1
Endrin Aldehyde	7421-93-4	0.000364 U	0.00491	0.000364	U	mg/kg	08.06.19 13.36	1
Endrin Ketone	53494-70-5	0.000531 U	0.00491	0.000531	U	mg/kg	08.06.19 13.36	1
Gamma-BHC (Lindane)	58-89-9	0.000646 U	0.00491	0.000646	U	mg/kg	08.06.19 13.36	1
Gamma-Chlordane	5103-74-2	0.00112 U	0.00491	0.00112	U	mg/kg	08.06.19 13.36	1
Heptachlor	76-44-8	0.000828 U	0.00491	0.000828	U	mg/kg	08.06.19 13.36	1
Heptachlor Epoxide	1024-57-3	0.000361 U	0.00491	0.000361	U	mg/kg	08.06.19 13.36	1
Methoxychlor	72-43-5	0.000746 U	0.00491	0.000746	U	mg/kg	08.06.19 13.36	1
Chlordane	12789-03-6	0.0352 U	0.123	0.0352	U	mg/kg	08.06.19 13.36	1
Toxaphene	8001-35-2	0.0167 U	0.123	0.0167	U	mg/kg	08.06.19 13.36	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	55	%	35-135	08.06.19 13.36	
Decachlorobiphenyl	2051-24-3	56	%	25-143	08.06.19 13.36	

Certificate of Analytical Results 632441

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-2 (6"-24")** Matrix: Soil Date Received:07.30.19 11.10

Lab Sample Id: 632441-004 Date Collected: 07.29.19 12.43 Sample Depth: 6 - 24

Analytical Method: SPLP Ammonia By EPA 350.1 Prep Method: E350.1P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.06.19 11.00

Seq Number: 3097678 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Ammonia (as N)	7664-41-7	**0.205**	0.100	0.0345		mg/L	08.06.19 15.19	1

Analytical Method: SPLP Nitrate-Nitrite by E353.2 Prep Method: E353.2P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.05.19 11.08

Seq Number: 3097530 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Nitrate-Nitrite	7727-37-9	**0.0497**	0.100	0.0283	I	mg/L	08.05.19 12.22	1

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Proposed Publix

Sample Id:	**CS-3 (0-6")**	Matrix:	Soil	Date Received:	07.30.19 11.10
Lab Sample Id:	632441-005	Date Collected:	07.29.19 12.45	Sample Depth:	0 - 6
Analytical Method:	Metals, Total by SW846 6010C			Prep Method:	SW3050B
Tech:	PJB			% Moisture:	29.76
Analyst:	DEP	Date Prep:	08.02.19 09.15	Basis:	Dry Weight
Seq Number:	3097365			SUB:	E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Arsenic	7440-38-2	0.548 U	2.59	0.548	U	mg/kg	08.05.19 21.21	1
Chromium	7440-47-3	0.0911 U	1.29	0.0911	U	mg/kg	08.05.19 21.21	1
Copper	7440-50-8	0.573 U	2.59	0.573	U	mg/kg	08.05.19 21.21	1
Iron	7439-89-6	**989**	25.9	3.49		mg/kg	08.05.19 21.21	1
Lead	7439-92-1	0.616 U	2.59	0.616	U	mg/kg	08.05.19 21.21	1
Manganese	7439-96-5	**28.7**	2.59	0.359		mg/kg	08.05.19 21.21	1

Certificate of Analytical Results 632441

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-3 (0-6")** Matrix: Soil Date Received:07.30.19 11.10

Lab Sample Id: 632441-005 Date Collected: 07.29.19 12.45 Sample Depth: 0 - 6

Analytical Method: EPA 8141 Organophosphorus Pesticides by GC Prep Method: SW3550

Tech: BNS % Moisture:

Analyst: CHD Date Prep: 08.02.19 13.30 Basis: Wet Weight

Seq Number: 3097570 SUB: E871146

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
azinphos-methyl	86-50-0	0.00166 U	0.00331	0.00166	UJ	mg/kg	08.06.19 01.31	1
Chlorpyrifos	2921-88-2	0.00166 U	0.00331	0.00166	U	mg/kg	08.06.19 01.31	1
Coumaphos	56-72-4	0.00166 U	0.00331	0.00166	UJ	mg/kg	08.06.19 01.31	1
Demeton-O	298-03-3	0.00166 U	0.00331	0.00166	U	mg/kg	08.06.19 01.31	1
Demeton-S	126-75-0	0.00166 U	0.00331	0.00166	U	mg/kg	08.06.19 01.31	1
Diazinon	333-41-5	0.00166 U	0.00331	0.00166	U	mg/kg	08.06.19 01.31	1
Dimethoate	60-51-5	0.00166 U	0.00331	0.00166	U	mg/kg	08.06.19 01.31	1
EPN (Ent)	2104-64-5	0.00166 U	0.00331	0.00166	U	mg/kg	08.06.19 01.31	1
Ethoprop	13194-48-4	0.00166 U	0.00331	0.00166	U	mg/kg	08.06.19 01.31	1
Famphur	52-85-7	0.00166 U	0.00331	0.00166	U	mg/kg	08.06.19 01.31	1
Fenthion	55-38-9	0.00166 U	0.00331	0.00166	U	mg/kg	08.06.19 01.31	1
Malathion	121-75-5	0.00166 U	0.00331	0.00166	U	mg/kg	08.06.19 01.31	1
Merphos	150-50-5	0.00166 U	0.00331	0.00166	UJ	mg/kg	08.06.19 01.31	1
Mevinphos	7786-34-7	0.00166 U	0.00331	0.00166	U	mg/kg	08.06.19 01.31	1
Monocrotophos	2157-98-4	0.00166 U	0.00331	0.00166	UJ	mg/kg	08.06.19 01.31	1
Naled	300-76-5	0.00166 U	0.00331	0.00166	U	mg/kg	08.06.19 01.31	1
Parathion, Ethyl	56-38-2	0.00166 U	0.00331	0.00166	U	mg/kg	08.06.19 01.31	1
Parathion, Methyl	298-00-0	0.00166 U	0.00331	0.00166	U	mg/kg	08.06.19 01.31	1
Phorate	298-02-2	0.00166 U	0.00331	0.00166	U	mg/kg	08.06.19 01.31	1
Ronnel	299-84-3	0.00166 U	0.00331	0.00166	U	mg/kg	08.06.19 01.31	1
stirophos	22248-79-9	0.00166 U	0.00331	0.00166	U	mg/kg	08.06.19 01.31	1
Sulfotep	3689-24-5	0.00166 U	0.00331	0.00166	U	mg/kg	08.06.19 01.31	1
Sulprofos	35400-43-2	0.00166 U	0.00331	0.00166	U	mg/kg	08.06.19 01.31	1
TEPP	21646-99-1	0.00166 U	0.00331	0.00166	U	mg/kg	08.06.19 01.31	1
Tokuthion	34643-46-4	0.00166 U	0.00331	0.00166	U	mg/kg	08.06.19 01.31	1
Trichloronate	327-98-0	0.00166 U	0.00331	0.00166	U	mg/kg	08.06.19 01.31	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tributyl Phosphate	126-73-8	91	%	38-123	08.06.19 01.31	

Certificate of Analytical Results 632441

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id:	**CS-3 (0-6")**	Matrix:	Soil	Date Received:	07.30.19 11.10
Lab Sample Id:	632441-005	Date Collected:	07.29.19 12.45	Sample Depth:	0 - 6
Analytical Method:	Pesticides by SW-846 8081B			Prep Method:	SW3550
Tech:	JSE			% Moisture:	29.76
Analyst:	MCK	Date Prep:	08.06.19 07.57	Basis:	Dry Weight
Seq Number:	3097724			SUB:	E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
4,4-DDD	72-54-8	0.00110 U	0.00475	0.00110	U	mg/kg	08.06.19 13.49	1
4,4-DDE	72-55-9	0.00237 U	0.00475	0.00237	U	mg/kg	08.06.19 13.49	1
4,4-DDT	50-29-3	0.000361 U	0.00475	0.000361	U	mg/kg	08.06.19 13.49	1
Aldrin	309-00-2	0.000516 U	0.00475	0.000516	U	mg/kg	08.06.19 13.49	1
Alpha-BHC	319-84-6	0.000968 U	0.00475	0.000968	U	mg/kg	08.06.19 13.49	1
Alpha-Chlordane	5103-71-9	0.000812 U	0.00475	0.000812	U	mg/kg	08.06.19 13.49	1
Beta-BHC	319-85-7	0.000674 U	0.00475	0.000674	U	mg/kg	08.06.19 13.49	1
Delta-BHC	319-86-8	0.00237 U	0.00475	0.00237	U	mg/kg	08.06.19 13.49	1
Dieldrin	60-57-1	0.000241 U	0.00475	0.000241	U	mg/kg	08.06.19 13.49	1
Endosulfan I	959-98-8	0.000287 U	0.00475	0.000287	U	mg/kg	08.06.19 13.49	1
Endosulfan II	33213-65-9	0.000530 U	0.00475	0.000530	U	mg/kg	08.06.19 13.49	1
Endosulfan Sulfate	1031-07-8	0.000393 U	0.00475	0.000393	U	mg/kg	08.06.19 13.49	1
Endrin	72-20-8	0.000414 U	0.00475	0.000414	U	mg/kg	08.06.19 13.49	1
Endrin Aldehyde	7421-93-4	0.000352 U	0.00475	0.000352	U	mg/kg	08.06.19 13.49	1
Endrin Ketone	53494-70-5	0.000514 U	0.00475	0.000514	U	mg/kg	08.06.19 13.49	1
Gamma-BHC (Lindane)	58-89-9	0.000625 U	0.00475	0.000625	U	mg/kg	08.06.19 13.49	1
Gamma-Chlordane	5103-74-2	0.00109 U	0.00475	0.00109	U	mg/kg	08.06.19 13.49	1
Heptachlor	76-44-8	0.000800 U	0.00475	0.000800	U	mg/kg	08.06.19 13.49	1
Heptachlor Epoxide	1024-57-3	0.000349 U	0.00475	0.000349	U	mg/kg	08.06.19 13.49	1
Methoxychlor	72-43-5	0.000721 U	0.00475	0.000721	U	mg/kg	08.06.19 13.49	1
Chlordane	12789-03-6	0.0340 U	0.119	0.0340	U	mg/kg	08.06.19 13.49	1
Toxaphene	8001-35-2	0.0161 U	0.119	0.0161	U	mg/kg	08.06.19 13.49	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	39	%	35-135	08.06.19 13.49	
Decachlorobiphenyl	2051-24-3	58	%	25-143	08.06.19 13.49	

Certificate of Analytical Results 632441

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-3 (0-6")** Matrix: Soil Date Received:07.30.19 11.10
Lab Sample Id: 632441-005 Date Collected: 07.29.19 12.45 Sample Depth: 0 - 6

Analytical Method: SPLP Ammonia By EPA 350.1 Prep Method: E350.1P
Tech: KCS % Moisture:
Analyst: KCS Date Prep: 08.06.19 11.00
Seq Number: 3097678 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Ammonia (as N)	7664-41-7	**0.0692**	0.100	0.0345	I	mg/L	08.06.19 15.20	1

Analytical Method: SPLP Nitrate-Nitrite by E353.2 Prep Method: E353.2P
Tech: KCS % Moisture:
Analyst: KCS Date Prep: 08.05.19 11.08
Seq Number: 3097530 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Nitrate-Nitrite	7727-37-9	**0.0400**	0.100	0.0283	I	mg/L	08.05.19 12.24	1

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Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id:	**CS-3 (6"-24")**	Matrix:	Soil	Date Received:	07.30.19 11.10
Lab Sample Id:	632441-006	Date Collected:	07.29.19 12.45	Sample Depth:	6 - 24
Analytical Method:	Metals, Total by SW846 6010C			Prep Method:	SW3050B
Tech:	PJB			% Moisture:	30.59
Analyst:	DEP	Date Prep:	08.02.19 09.15	Basis:	Dry Weight
Seq Number:	3097365			SUB:	E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Arsenic	7440-38-2	**17.1**	2.82	0.599		mg/kg	08.05.19 21.25	1
Chromium	7440-47-3	**8.87**	1.41	0.0994		mg/kg	08.05.19 21.25	1
Copper	7440-50-8	**29.4**	2.82	0.626		mg/kg	08.05.19 21.25	1
Iron	7439-89-6	**1290**	28.2	3.81		mg/kg	08.05.19 21.25	1
Lead	7439-92-1	**6.49**	2.82	0.672		mg/kg	08.05.19 21.25	1
Manganese	7439-96-5	**208**	2.82	0.392		mg/kg	08.05.19 21.25	1

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Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-3 (6"-24")** Matrix: Soil Date Received:07.30.19 11.10

Lab Sample Id: 632441-006 Date Collected: 07.29.19 12.45 Sample Depth: 6 - 24

Analytical Method: EPA 8141 Organophosphorus Pesticides by GC Prep Method: SW3550

Tech: BNS % Moisture:

Analyst: CHD Date Prep: 08.02.19 13.30 Basis: Wet Weight

Seq Number: 3097570 SUB: E871146

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
azinphos-methyl	86-50-0	0.00166 U	0.00332	0.00166	UJ	mg/kg	08.06.19 02.02	1
Chlorpyrifos	2921-88-2	0.00166 U	0.00332	0.00166	U	mg/kg	08.06.19 02.02	1
Coumaphos	56-72-4	0.00166 U	0.00332	0.00166	UJ	mg/kg	08.06.19 02.02	1
Demeton-O	298-03-3	0.00166 U	0.00332	0.00166	U	mg/kg	08.06.19 02.02	1
Demeton-S	126-75-0	0.00166 U	0.00332	0.00166	U	mg/kg	08.06.19 02.02	1
Diazinon	333-41-5	0.00166 U	0.00332	0.00166	U	mg/kg	08.06.19 02.02	1
Dimethoate	60-51-5	0.00166 U	0.00332	0.00166	U	mg/kg	08.06.19 02.02	1
EPN (Ent)	2104-64-5	0.00166 U	0.00332	0.00166	U	mg/kg	08.06.19 02.02	1
Ethoprop	13194-48-4	0.00166 U	0.00332	0.00166	U	mg/kg	08.06.19 02.02	1
Famphur	52-85-7	0.00166 U	0.00332	0.00166	U	mg/kg	08.06.19 02.02	1
Fenthion	55-38-9	0.00166 U	0.00332	0.00166	U	mg/kg	08.06.19 02.02	1
Malathion	121-75-5	0.00166 U	0.00332	0.00166	U	mg/kg	08.06.19 02.02	1
Merphos	150-50-5	0.00166 U	0.00332	0.00166	UJ	mg/kg	08.06.19 02.02	1
Mevinphos	7786-34-7	0.00166 U	0.00332	0.00166	U	mg/kg	08.06.19 02.02	1
Monocrotophos	2157-98-4	0.00166 U	0.00332	0.00166	UJ	mg/kg	08.06.19 02.02	1
Naled	300-76-5	0.00166 U	0.00332	0.00166	U	mg/kg	08.06.19 02.02	1
Parathion, Ethyl	56-38-2	0.00166 U	0.00332	0.00166	U	mg/kg	08.06.19 02.02	1
Parathion, Methyl	298-00-0	0.00166 U	0.00332	0.00166	U	mg/kg	08.06.19 02.02	1
Phorate	298-02-2	0.00166 U	0.00332	0.00166	U	mg/kg	08.06.19 02.02	1
Ronnel	299-84-3	0.00166 U	0.00332	0.00166	U	mg/kg	08.06.19 02.02	1
stirophos	22248-79-9	0.00166 U	0.00332	0.00166	U	mg/kg	08.06.19 02.02	1
Sulfotep	3689-24-5	0.00166 U	0.00332	0.00166	U	mg/kg	08.06.19 02.02	1
Sulprofos	35400-43-2	0.00166 U	0.00332	0.00166	U	mg/kg	08.06.19 02.02	1
TEPP	21646-99-1	0.00166 U	0.00332	0.00166	U	mg/kg	08.06.19 02.02	1
Tokuthion	34643-46-4	0.00166 U	0.00332	0.00166	U	mg/kg	08.06.19 02.02	1
Trichloronate	327-98-0	0.00166 U	0.00332	0.00166	U	mg/kg	08.06.19 02.02	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tributyl Phosphate	126-73-8	72	%	38-123	08.06.19 02.02	

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Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-3 (6"-24")**
Lab Sample Id: 632441-006

Matrix: Soil
Date Collected: 07.29.19 12.45

Date Received: 07.30.19 11.10
Sample Depth: 6 - 24

Analytical Method: Pesticides by SW-846 8081B
Tech: JSE
Analyst: MCK
Seq Number: 3097724

Date Prep: 08.06.19 08.00

Prep Method: SW3550
% Moisture: 30.59
Basis: Dry Weight
SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
4,4-DDD	72-54-8	0.00111 U	0.00480	0.00111	U	mg/kg	08.06.19 14.03	1
4,4-DDE	72-55-9	0.00240 U	0.00480	0.00240	U	mg/kg	08.06.19 14.03	1
4,4-DDT	50-29-3	**0.000475**	0.00480	0.000365	I	mg/kg	08.06.19 14.03	1
Aldrin	309-00-2	0.000522 U	0.00480	0.000522	U	mg/kg	08.06.19 14.03	1
Alpha-BHC	319-84-6	0.000979 U	0.00480	0.000979	U	mg/kg	08.06.19 14.03	1
Alpha-Chlordane	5103-71-9	0.000821 U	0.00480	0.000821	U	mg/kg	08.06.19 14.03	1
Beta-BHC	319-85-7	0.000682 U	0.00480	0.000682	U	mg/kg	08.06.19 14.03	1
Delta-BHC	319-86-8	0.00240 U	0.00480	0.00240	U	mg/kg	08.06.19 14.03	1
Dieldrin	60-57-1	0.000244 U	0.00480	0.000244	U	mg/kg	08.06.19 14.03	1
Endosulfan I	959-98-8	0.000291 U	0.00480	0.000291	U	mg/kg	08.06.19 14.03	1
Endosulfan II	33213-65-9	0.000536 U	0.00480	0.000536	U	mg/kg	08.06.19 14.03	1
Endosulfan Sulfate	1031-07-8	0.000397 U	0.00480	0.000397	U	mg/kg	08.06.19 14.03	1
Endrin	72-20-8	0.000419 U	0.00480	0.000419	U	mg/kg	08.06.19 14.03	1
Endrin Aldehyde	7421-93-4	0.000356 U	0.00480	0.000356	U	mg/kg	08.06.19 14.03	1
Endrin Ketone	53494-70-5	0.000519 U	0.00480	0.000519	U	mg/kg	08.06.19 14.03	1
Gamma-BHC (Lindane)	58-89-9	0.000631 U	0.00480	0.000631	U	mg/kg	08.06.19 14.03	1
Gamma-Chlordane	5103-74-2	0.00110 U	0.00480	0.00110	U	mg/kg	08.06.19 14.03	1
Heptachlor	76-44-8	0.000809 U	0.00480	0.000809	U	mg/kg	08.06.19 14.03	1
Heptachlor Epoxide	1024-57-3	0.000352 U	0.00480	0.000352	U	mg/kg	08.06.19 14.03	1
Methoxychlor	72-43-5	0.000729 U	0.00480	0.000729	U	mg/kg	08.06.19 14.03	1
Chlordane	12789-03-6	0.0344 U	0.120	0.0344	U	mg/kg	08.06.19 14.03	1
Toxaphene	8001-35-2	0.0163 U	0.120	0.0163	U	mg/kg	08.06.19 14.03	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	56	%	35-135	08.06.19 14.03	
Decachlorobiphenyl	2051-24-3	59	%	25-143	08.06.19 14.03	

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Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-3 (6"-24")** Matrix: Soil Date Received:07.30.19 11.10

Lab Sample Id: 632441-006 Date Collected: 07.29.19 12.45 Sample Depth: 6 - 24

Analytical Method: SPLP Ammonia By EPA 350.1 Prep Method: E350.1P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.06.19 11.00

Seq Number: 3097678 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Ammonia (as N)	7664-41-7	**0.227**	0.100	0.0345		mg/L	08.06.19 15.21	1

Analytical Method: SPLP Nitrate-Nitrite by E353.2 Prep Method: E353.2P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.05.19 11.08

Seq Number: 3097530 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Nitrate-Nitrite	7727-37-9	**0.0493**	0.100	0.0283	I	mg/L	08.05.19 12.29	1

Certificate of Analytical Results 632441

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id:	**CS-4 (0-6")**	Matrix:	Soil	Date Received:	07.30.19 11.10
Lab Sample Id:	632441-007	Date Collected:	07.29.19 12.52	Sample Depth:	0 - 6
Analytical Method:	Metals, Total by SW846 6010C			Prep Method:	SW3050B
Tech:	PJB			% Moisture:	38.23
Analyst:	DEP	Date Prep:	08.02.19 09.15	Basis:	Dry Weight
Seq Number:	3097365			SUB:	E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Arsenic	7440-38-2	**10.9**	2.89	0.613		mg/kg	08.05.19 21.29	1
Chromium	7440-47-3	**7.16**	1.45	0.102		mg/kg	08.05.19 21.29	1
Copper	7440-50-8	**25.1**	2.89	0.640		mg/kg	08.05.19 21.29	1
Iron	7439-89-6	**1400**	28.9	3.90		mg/kg	08.05.19 21.29	1
Lead	7439-92-1	**4.95**	2.89	0.687		mg/kg	08.05.19 21.29	1
Manganese	7439-96-5	**186**	2.89	0.401		mg/kg	08.05.19 21.29	1

Certificate of Analytical Results 632441

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-4 (0-6")** Matrix: Soil Date Received:07.30.19 11.10

Lab Sample Id: 632441-007 Date Collected: 07.29.19 12.52 Sample Depth: 0 - 6

Analytical Method: EPA 8141 Organophosphorus Pesticides by GC Prep Method: SW3550

Tech: BNS % Moisture:

Analyst: CHD Date Prep: 08.02.19 13.30 Basis: Wet Weight

Seq Number: 3097570 SUB: E871146

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
azinphos-methyl	86-50-0	0.00165 U	0.00330	0.00165	UJ	mg/kg	08.06.19 02.34	1
Chlorpyrifos	2921-88-2	0.00165 U	0.00330	0.00165	U	mg/kg	08.06.19 02.34	1
Coumaphos	56-72-4	0.00165 U	0.00330	0.00165	UJ	mg/kg	08.06.19 02.34	1
Demeton-O	298-03-3	0.00165 U	0.00330	0.00165	U	mg/kg	08.06.19 02.34	1
Demeton-S	126-75-0	0.00165 U	0.00330	0.00165	U	mg/kg	08.06.19 02.34	1
Diazinon	333-41-5	0.00165 U	0.00330	0.00165	U	mg/kg	08.06.19 02.34	1
Dimethoate	60-51-5	0.00165 U	0.00330	0.00165	U	mg/kg	08.06.19 02.34	1
EPN (Ent)	2104-64-5	0.00165 U	0.00330	0.00165	U	mg/kg	08.06.19 02.34	1
Ethoprop	13194-48-4	0.00165 U	0.00330	0.00165	U	mg/kg	08.06.19 02.34	1
Famphur	52-85-7	0.00165 U	0.00330	0.00165	U	mg/kg	08.06.19 02.34	1
Fenthion	55-38-9	0.00165 U	0.00330	0.00165	U	mg/kg	08.06.19 02.34	1
Malathion	121-75-5	0.00165 U	0.00330	0.00165	U	mg/kg	08.06.19 02.34	1
Merphos	150-50-5	0.00165 U	0.00330	0.00165	UJ	mg/kg	08.06.19 02.34	1
Mevinphos	7786-34-7	0.00165 U	0.00330	0.00165	U	mg/kg	08.06.19 02.34	1
Monocrotophos	2157-98-4	0.00165 U	0.00330	0.00165	UJ	mg/kg	08.06.19 02.34	1
Naled	300-76-5	0.00165 U	0.00330	0.00165	U	mg/kg	08.06.19 02.34	1
Parathion, Ethyl	56-38-2	0.00165 U	0.00330	0.00165	U	mg/kg	08.06.19 02.34	1
Parathion, Methyl	298-00-0	0.00165 U	0.00330	0.00165	U	mg/kg	08.06.19 02.34	1
Phorate	298-02-2	0.00165 U	0.00330	0.00165	U	mg/kg	08.06.19 02.34	1
Ronnel	299-84-3	0.00165 U	0.00330	0.00165	U	mg/kg	08.06.19 02.34	1
stirophos	22248-79-9	0.00165 U	0.00330	0.00165	U	mg/kg	08.06.19 02.34	1
Sulfotep	3689-24-5	0.00165 U	0.00330	0.00165	U	mg/kg	08.06.19 02.34	1
Sulprofos	35400-43-2	0.00165 U	0.00330	0.00165	U	mg/kg	08.06.19 02.34	1
TEPP	21646-99-1	0.00165 U	0.00330	0.00165	U	mg/kg	08.06.19 02.34	1
Tokuthion	34643-46-4	0.00165 U	0.00330	0.00165	U	mg/kg	08.06.19 02.34	1
Trichloronate	327-98-0	0.00165 U	0.00330	0.00165	U	mg/kg	08.06.19 02.34	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tributyl Phosphate	126-73-8	85	%	38-123	08.06.19 02.34	

Certificate of Analytical Results 632441

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-4 (0-6")**
Lab Sample Id: 632441-007

Matrix: Soil
Date Collected: 07.29.19 12.52

Date Received: 07.30.19 11.10
Sample Depth: 0 - 6

Analytical Method: Pesticides by SW-846 8081B
Tech: JSE
Analyst: MCK
Seq Number: 3097724

Date Prep: 08.06.19 08.03

Prep Method: SW3550
% Moisture: 38.23
Basis: Dry Weight
SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
4,4-DDD	72-54-8	0.00125 U	0.00540	0.00125	U	mg/kg	08.06.19 14.17	1
4,4-DDE	72-55-9	0.00270 U	0.00540	0.00270	U	mg/kg	08.06.19 14.17	1
4,4-DDT	50-29-3	0.000411 U	0.00540	0.000411	U	mg/kg	08.06.19 14.17	1
Aldrin	309-00-2	0.000588 U	0.00540	0.000588	U	mg/kg	08.06.19 14.17	1
Alpha-BHC	319-84-6	0.00110 U	0.00540	0.00110	U	mg/kg	08.06.19 14.17	1
Alpha-Chlordane	5103-71-9	0.000925 U	0.00540	0.000925	U	mg/kg	08.06.19 14.17	1
Beta-BHC	319-85-7	0.000768 U	0.00540	0.000768	U	mg/kg	08.06.19 14.17	1
Delta-BHC	319-86-8	0.00270 U	0.00540	0.00270	U	mg/kg	08.06.19 14.17	1
Dieldrin	60-57-1	0.000275 U	0.00540	0.000275	U	mg/kg	08.06.19 14.17	1
Endosulfan I	959-98-8	0.000327 U	0.00540	0.000327	U	mg/kg	08.06.19 14.17	1
Endosulfan II	33213-65-9	0.000603 U	0.00540	0.000603	U	mg/kg	08.06.19 14.17	1
Endosulfan Sulfate	1031-07-8	0.000447 U	0.00540	0.000447	U	mg/kg	08.06.19 14.17	1
Endrin	72-20-8	0.000471 U	0.00540	0.000471	U	mg/kg	08.06.19 14.17	1
Endrin Aldehyde	7421-93-4	0.000401 U	0.00540	0.000401	U	mg/kg	08.06.19 14.17	1
Endrin Ketone	53494-70-5	0.000585 U	0.00540	0.000585	U	mg/kg	08.06.19 14.17	1
Gamma-BHC (Lindane)	58-89-9	0.000711 U	0.00540	0.000711	U	mg/kg	08.06.19 14.17	1
Gamma-Chlordane	5103-74-2	0.00124 U	0.00540	0.00124	U	mg/kg	08.06.19 14.17	1
Heptachlor	76-44-8	0.000911 U	0.00540	0.000911	U	mg/kg	08.06.19 14.17	1
Heptachlor Epoxide	1024-57-3	0.000397 U	0.00540	0.000397	U	mg/kg	08.06.19 14.17	1
Methoxychlor	72-43-5	0.000821 U	0.00540	0.000821	U	mg/kg	08.06.19 14.17	1
Chlordane	12789-03-6	0.0387 U	0.135	0.0387	U	mg/kg	08.06.19 14.17	1
Toxaphene	8001-35-2	0.0184 U	0.135	0.0184	U	mg/kg	08.06.19 14.17	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	47	%	35-135	08.06.19 14.17	
Decachlorobiphenyl	2051-24-3	59	%	25-143	08.06.19 14.17	

Certificate of Analytical Results 632441

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-4 (0-6")** Matrix: Soil Date Received:07.30.19 11.10

Lab Sample Id: 632441-007 Date Collected: 07.29.19 12.52 Sample Depth: 0 - 6

Analytical Method: SPLP Ammonia By EPA 350.1 Prep Method: E350.1P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.06.19 11.00

Seq Number: 3097678 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Ammonia (as N)	7664-41-7	**0.247**	0.100	0.0345		mg/L	08.06.19 15.22	1

Analytical Method: SPLP Nitrate-Nitrite by E353.2 Prep Method: E353.2P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.05.19 11.08

Seq Number: 3097530 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Nitrate-Nitrite	7727-37-9	0.0283 U	0.100	0.0283	U	mg/L	08.05.19 12.30	1

Certificate of Analytical Results 632441

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id:	**CS-4 (6"-24")**	Matrix:	Soil	Date Received:	07.30.19 11.10
Lab Sample Id:	632441-008	Date Collected:	07.29.19 12.52	Sample Depth:	6 - 24
Analytical Method:	Metals, Total by SW846 6010C			Prep Method:	SW3050B
Tech:	PJB			% Moisture:	26.32
Analyst:	DEP	Date Prep:	08.02.19 09.15	Basis:	Dry Weight
Seq Number:	3097365			SUB:	E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Arsenic	7440-38-2	0.575 U	2.71	0.575	U	mg/kg	08.05.19 21.33	1
Chromium	7440-47-3	0.0955 U	1.36	0.0955	U	mg/kg	08.05.19 21.33	1
Copper	7440-50-8	0.601 U	2.71	0.601	U	mg/kg	08.05.19 21.33	1
Iron	7439-89-6	**1130**	27.1	3.66		mg/kg	08.05.19 21.33	1
Lead	7439-92-1	0.646 U	2.71	0.646	U	mg/kg	08.05.19 21.33	1
Manganese	7439-96-5	**25.0**	2.71	0.377		mg/kg	08.05.19 21.33	1

Certificate of Analytical Results 632441

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-4 (6"-24")** Matrix: Soil Date Received:07.30.19 11.10

Lab Sample Id: 632441-008 Date Collected: 07.29.19 12.52 Sample Depth: 6 - 24

Analytical Method: EPA 8141 Organophosphorus Pesticides by GC Prep Method: SW3550

Tech: BNS % Moisture:

Analyst: CHD Date Prep: 08.02.19 13.30 Basis: Wet Weight

Seq Number: 3097570 SUB: E871146

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
azinphos-methyl	86-50-0	0.00165 U	0.00330	0.00165	UJ	mg/kg	08.06.19 03.05	1
Chlorpyrifos	2921-88-2	0.00165 U	0.00330	0.00165	U	mg/kg	08.06.19 03.05	1
Coumaphos	56-72-4	0.00165 U	0.00330	0.00165	UJ	mg/kg	08.06.19 03.05	1
Demeton-O	298-03-3	0.00165 U	0.00330	0.00165	U	mg/kg	08.06.19 03.05	1
Demeton-S	126-75-0	0.00165 U	0.00330	0.00165	U	mg/kg	08.06.19 03.05	1
Diazinon	333-41-5	0.00165 U	0.00330	0.00165	U	mg/kg	08.06.19 03.05	1
Dimethoate	60-51-5	0.00165 U	0.00330	0.00165	U	mg/kg	08.06.19 03.05	1
EPN (Ent)	2104-64-5	0.00165 U	0.00330	0.00165	U	mg/kg	08.06.19 03.05	1
Ethoprop	13194-48-4	0.00165 U	0.00330	0.00165	U	mg/kg	08.06.19 03.05	1
Famphur	52-85-7	0.00165 U	0.00330	0.00165	U	mg/kg	08.06.19 03.05	1
Fenthion	55-38-9	0.00165 U	0.00330	0.00165	U	mg/kg	08.06.19 03.05	1
Malathion	121-75-5	0.00165 U	0.00330	0.00165	U	mg/kg	08.06.19 03.05	1
Merphos	150-50-5	0.00165 U	0.00330	0.00165	UJ	mg/kg	08.06.19 03.05	1
Mevinphos	7786-34-7	0.00165 U	0.00330	0.00165	U	mg/kg	08.06.19 03.05	1
Monocrotophos	2157-98-4	0.00165 U	0.00330	0.00165	UJ	mg/kg	08.06.19 03.05	1
Naled	300-76-5	0.00165 U	0.00330	0.00165	U	mg/kg	08.06.19 03.05	1
Parathion, Ethyl	56-38-2	0.00165 U	0.00330	0.00165	U	mg/kg	08.06.19 03.05	1
Parathion, Methyl	298-00-0	0.00165 U	0.00330	0.00165	U	mg/kg	08.06.19 03.05	1
Phorate	298-02-2	0.00165 U	0.00330	0.00165	U	mg/kg	08.06.19 03.05	1
Ronnel	299-84-3	0.00165 U	0.00330	0.00165	U	mg/kg	08.06.19 03.05	1
stirophos	22248-79-9	0.00165 U	0.00330	0.00165	U	mg/kg	08.06.19 03.05	1
Sulfotep	3689-24-5	0.00165 U	0.00330	0.00165	U	mg/kg	08.06.19 03.05	1
Sulprofos	35400-43-2	0.00165 U	0.00330	0.00165	U	mg/kg	08.06.19 03.05	1
TEPP	21646-99-1	0.00165 U	0.00330	0.00165	U	mg/kg	08.06.19 03.05	1
Tokuthion	34643-46-4	0.00165 U	0.00330	0.00165	U	mg/kg	08.06.19 03.05	1
Trichloronate	327-98-0	0.00165 U	0.00330	0.00165	U	mg/kg	08.06.19 03.05	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tributyl Phosphate	126-73-8	89	%	38-123	08.06.19 03.05	

Certificate of Analytical Results 632441

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-4 (6"-24")**
Lab Sample Id: 632441-008

Matrix: Soil
Date Collected: 07.29.19 12.52

Date Received: 07.30.19 11.10
Sample Depth: 6 - 24

Analytical Method: Pesticides by SW-846 8081B
Tech: JSE
Analyst: MCK
Seq Number: 3097724

Date Prep: 08.06.19 08.06

Prep Method: SW3550
% Moisture: 26.32
Basis: Dry Weight
SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
4,4-DDD	72-54-8	0.00105 U	0.00453	0.00105	U	mg/kg	08.06.19 14.30	1
4,4-DDE	72-55-9	0.00226 U	0.00453	0.00226	U	mg/kg	08.06.19 14.30	1
4,4-DDT	50-29-3	0.000345 U	0.00453	0.000345	U	mg/kg	08.06.19 14.30	1
Aldrin	309-00-2	0.000493 U	0.00453	0.000493	U	mg/kg	08.06.19 14.30	1
Alpha-BHC	319-84-6	0.000923 U	0.00453	0.000923	U	mg/kg	08.06.19 14.30	1
Alpha-Chlordane	5103-71-9	0.000775 U	0.00453	0.000775	U	mg/kg	08.06.19 14.30	1
Beta-BHC	319-85-7	0.000643 U	0.00453	0.000643	U	mg/kg	08.06.19 14.30	1
Delta-BHC	319-86-8	0.00226 U	0.00453	0.00226	U	mg/kg	08.06.19 14.30	1
Dieldrin	60-57-1	0.000230 U	0.00453	0.000230	U	mg/kg	08.06.19 14.30	1
Endosulfan I	959-98-8	0.000274 U	0.00453	0.000274	U	mg/kg	08.06.19 14.30	1
Endosulfan II	33213-65-9	0.000505 U	0.00453	0.000505	U	mg/kg	08.06.19 14.30	1
Endosulfan Sulfate	1031-07-8	0.000374 U	0.00453	0.000374	U	mg/kg	08.06.19 14.30	1
Endrin	72-20-8	0.000395 U	0.00453	0.000395	U	mg/kg	08.06.19 14.30	1
Endrin Aldehyde	7421-93-4	0.000336 U	0.00453	0.000336	U	mg/kg	08.06.19 14.30	1
Endrin Ketone	53494-70-5	0.000490 U	0.00453	0.000490	U	mg/kg	08.06.19 14.30	1
Gamma-BHC (Lindane)	58-89-9	0.000596 U	0.00453	0.000596	U	mg/kg	08.06.19 14.30	1
Gamma-Chlordane	5103-74-2	0.00104 U	0.00453	0.00104	U	mg/kg	08.06.19 14.30	1
Heptachlor	76-44-8	0.000763 U	0.00453	0.000763	U	mg/kg	08.06.19 14.30	1
Heptachlor Epoxide	1024-57-3	0.000332 U	0.00453	0.000332	U	mg/kg	08.06.19 14.30	1
Methoxychlor	72-43-5	0.000688 U	0.00453	0.000688	U	mg/kg	08.06.19 14.30	1
Chlordane	12789-03-6	0.0325 U	0.113	0.0325	U	mg/kg	08.06.19 14.30	1
Toxaphene	8001-35-2	0.0154 U	0.113	0.0154	U	mg/kg	08.06.19 14.30	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	38	%	35-135	08.06.19 14.30	
Decachlorobiphenyl	2051-24-3	53	%	25-143	08.06.19 14.30	

Certificate of Analytical Results 632441

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-4 (6"-24")** Matrix: Soil Date Received:07.30.19 11.10

Lab Sample Id: 632441-008 Date Collected: 07.29.19 12.52 Sample Depth: 6 - 24

Analytical Method: SPLP Ammonia By EPA 350.1 Prep Method: E350.1P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.06.19 11.00

Seq Number: 3097678 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Ammonia (as N)	7664-41-7	**0.0873**	0.100	0.0345	I	mg/L	08.06.19 15.23	1

Analytical Method: SPLP Nitrate-Nitrite by E353.2 Prep Method: E353.2P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.05.19 11.08

Seq Number: 3097530 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Nitrate-Nitrite	7727-37-9	**0.0378**	0.100	0.0283	I	mg/L	08.05.19 12.32	1

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Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id:	**CS-5 (0-6")**	Matrix:	Soil	Date Received:	07.30.19 11.10
Lab Sample Id:	632441-009	Date Collected:	07.29.19 13.15	Sample Depth:	0 - 6
Analytical Method:	Metals, Total by SW846 6010C			Prep Method:	SW3050B
Tech:	PJB			% Moisture:	37.25
Analyst:	DEP	Date Prep:	08.02.19 09.15	Basis:	Dry Weight
Seq Number:	3097365			SUB:	E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Arsenic	7440-38-2	**15.8**	2.85	0.603		mg/kg	08.05.19 21.46	1
Chromium	7440-47-3	**6.72**	1.42	0.100		mg/kg	08.05.19 21.46	1
Copper	7440-50-8	**27.8**	2.85	0.630		mg/kg	08.05.19 21.46	1
Iron	7439-89-6	**1520**	28.5	3.84		mg/kg	08.05.19 21.46	1
Lead	7439-92-1	**6.01**	2.85	0.677		mg/kg	08.05.19 21.46	1
Manganese	7439-96-5	**214**	2.85	0.395		mg/kg	08.05.19 21.46	1

Certificate of Analytical Results 632441

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-5 (0-6")** Matrix: Soil Date Received:07.30.19 11.10

Lab Sample Id: 632441-009 Date Collected: 07.29.19 13.15 Sample Depth: 0 - 6

Analytical Method: EPA 8141 Organophosphorus Pesticides by GC Prep Method: SW3550

Tech: BNS % Moisture:

Analyst: CHD Date Prep: 08.02.19 13.30 Basis: Wet Weight

Seq Number: 3097570 SUB: E871146

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
azinphos-methyl	86-50-0	0.00167 U	0.00333	0.00167	UJ	mg/kg	08.06.19 03.37	1
Chlorpyrifos	2921-88-2	0.00167 U	0.00333	0.00167	U	mg/kg	08.06.19 03.37	1
Coumaphos	56-72-4	0.00167 U	0.00333	0.00167	UJ	mg/kg	08.06.19 03.37	1
Demeton-O	298-03-3	0.00167 U	0.00333	0.00167	U	mg/kg	08.06.19 03.37	1
Demeton-S	126-75-0	0.00167 U	0.00333	0.00167	U	mg/kg	08.06.19 03.37	1
Diazinon	333-41-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.06.19 03.37	1
Dimethoate	60-51-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.06.19 03.37	1
EPN (Ent)	2104-64-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.06.19 03.37	1
Ethoprop	13194-48-4	0.00167 U	0.00333	0.00167	U	mg/kg	08.06.19 03.37	1
Famphur	52-85-7	0.00167 U	0.00333	0.00167	U	mg/kg	08.06.19 03.37	1
Fenthion	55-38-9	0.00167 U	0.00333	0.00167	U	mg/kg	08.06.19 03.37	1
Malathion	121-75-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.06.19 03.37	1
Merphos	150-50-5	0.00167 U	0.00333	0.00167	UJ	mg/kg	08.06.19 03.37	1
Mevinphos	7786-34-7	0.00167 U	0.00333	0.00167	U	mg/kg	08.06.19 03.37	1
Monocrotophos	2157-98-4	0.00167 U	0.00333	0.00167	UJ	mg/kg	08.06.19 03.37	1
Naled	300-76-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.06.19 03.37	1
Parathion, Ethyl	56-38-2	0.00167 U	0.00333	0.00167	U	mg/kg	08.06.19 03.37	1
Parathion, Methyl	298-00-0	0.00167 U	0.00333	0.00167	U	mg/kg	08.06.19 03.37	1
Phorate	298-02-2	0.00167 U	0.00333	0.00167	U	mg/kg	08.06.19 03.37	1
Ronnel	299-84-3	0.00167 U	0.00333	0.00167	U	mg/kg	08.06.19 03.37	1
stirophos	22248-79-9	0.00167 U	0.00333	0.00167	U	mg/kg	08.06.19 03.37	1
Sulfotep	3689-24-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.06.19 03.37	1
Sulprofos	35400-43-2	0.00167 U	0.00333	0.00167	U	mg/kg	08.06.19 03.37	1
TEPP	21646-99-1	0.00167 U	0.00333	0.00167	U	mg/kg	08.06.19 03.37	1
Tokuthion	34643-46-4	0.00167 U	0.00333	0.00167	U	mg/kg	08.06.19 03.37	1
Trichloronate	327-98-0	0.00167 U	0.00333	0.00167	U	mg/kg	08.06.19 03.37	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tributyl Phosphate	126-73-8	94	%	38-123	08.06.19 03.37	

Certificate of Analytical Results 632441

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-5 (0-6")**
Lab Sample Id: 632441-009

Matrix: Soil
Date Collected: 07.29.19 13.15

Date Received: 07.30.19 11.10
Sample Depth: 0 - 6

Analytical Method: Pesticides by SW-846 8081B
Tech: JSE
Analyst: MCK
Seq Number: 3097724

Date Prep: 08.06.19 08.09

Prep Method: SW3550
% Moisture: 37.25
Basis: Dry Weight
SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
4,4-DDD	72-54-8	0.00123 U	0.00532	0.00123	U	mg/kg	08.06.19 17.50	1
4,4-DDE	72-55-9	0.00266 U	0.00532	0.00266	U	mg/kg	08.06.19 17.50	1
4,4-DDT	50-29-3	**0.000622**	0.00532	0.000405	I	mg/kg	08.06.19 17.50	1
Aldrin	309-00-2	0.000579 U	0.00532	0.000579	U	mg/kg	08.06.19 17.50	1
Alpha-BHC	319-84-6	0.00108 U	0.00532	0.00108	U	mg/kg	08.06.19 17.50	1
Alpha-Chlordane	5103-71-9	0.000910 U	0.00532	0.000910	U	mg/kg	08.06.19 17.50	1
Beta-BHC	319-85-7	0.000756 U	0.00532	0.000756	U	mg/kg	08.06.19 17.50	1
Delta-BHC	319-86-8	0.00266 U	0.00532	0.00266	U	mg/kg	08.06.19 17.50	1
Dieldrin	60-57-1	0.000270 U	0.00532	0.000270	U	mg/kg	08.06.19 17.50	1
Endosulfan I	959-98-8	0.000322 U	0.00532	0.000322	U	mg/kg	08.06.19 17.50	1
Endosulfan II	33213-65-9	0.000594 U	0.00532	0.000594	U	mg/kg	08.06.19 17.50	1
Endosulfan Sulfate	1031-07-8	0.000440 U	0.00532	0.000440	U	mg/kg	08.06.19 17.50	1
Endrin	72-20-8	0.000464 U	0.00532	0.000464	U	mg/kg	08.06.19 17.50	1
Endrin Aldehyde	7421-93-4	0.000395 U	0.00532	0.000395	U	mg/kg	08.06.19 17.50	1
Endrin Ketone	53494-70-5	0.000575 U	0.00532	0.000575	U	mg/kg	08.06.19 17.50	1
Gamma-BHC (Lindane)	58-89-9	0.000700 U	0.00532	0.000700	U	mg/kg	08.06.19 17.50	1
Gamma-Chlordane	5103-74-2	0.00122 U	0.00532	0.00122	U	mg/kg	08.06.19 17.50	1
Heptachlor	76-44-8	0.000897 U	0.00532	0.000897	U	mg/kg	08.06.19 17.50	1
Heptachlor Epoxide	1024-57-3	0.000391 U	0.00532	0.000391	U	mg/kg	08.06.19 17.50	1
Methoxychlor	72-43-5	0.000808 U	0.00532	0.000808	U	mg/kg	08.06.19 17.50	1
Chlordane	12789-03-6	0.0381 U	0.133	0.0381	U	mg/kg	08.06.19 17.50	1
Toxaphene	8001-35-2	0.0181 U	0.133	0.0181	U	mg/kg	08.06.19 17.50	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	43	%	35-135	08.06.19 17.50	
Decachlorobiphenyl	2051-24-3	53	%	25-143	08.06.19 17.50	

Certificate of Analytical Results 632441

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-5 (0-6")** Matrix: Soil Date Received:07.30.19 11.10
Lab Sample Id: 632441-009 Date Collected: 07.29.19 13.15 Sample Depth: 0 - 6

Analytical Method: SPLP Ammonia By EPA 350.1 Prep Method: E350.1P
Tech: KCS % Moisture:
Analyst: KCS Date Prep: 08.06.19 11.00
Seq Number: 3097678 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Ammonia (as N)	7664-41-7	**0.274**	0.100	0.0345		mg/L	08.06.19 15.24	1

Analytical Method: SPLP Nitrate-Nitrite by E353.2 Prep Method: E353.2P
Tech: KCS % Moisture:
Analyst: KCS Date Prep: 08.05.19 11.08
Seq Number: 3097530 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Nitrate-Nitrite	7727-37-9	**0.0485**	0.100	0.0283	I	mg/L	08.05.19 12.34	1

Certificate of Analytical Results 632441

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-5 (6"-24")** | Matrix: Soil | Date Received: 07.30.19 11.10

Lab Sample Id: 632441-010 | Date Collected: 07.29.19 13.15 | Sample Depth: 6 - 24

Analytical Method: Metals, Total by SW846 6010C | Prep Method: SW3050B

Tech: PJB | % Moisture: 26.48

Analyst: DEP | Date Prep: 08.02.19 09.15 | Basis: Dry Weight

Seq Number: 3097365 | SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Arsenic	7440-38-2	0.576 U	2.72	0.576	U	mg/kg	08.05.19 21.50	1
Chromium	7440-47-3	0.0957 U	1.36	0.0957	U	mg/kg	08.05.19 21.50	1
Copper	7440-50-8	0.603 U	2.72	0.603	U	mg/kg	08.05.19 21.50	1
Iron	7439-89-6	**939**	27.2	3.67		mg/kg	08.05.19 21.50	1
Lead	7439-92-1	0.647 U	2.72	0.647	U	mg/kg	08.05.19 21.50	1
Manganese	7439-96-5	**23.8**	2.72	0.377		mg/kg	08.05.19 21.50	1

Certificate of Analytical Results 632441

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-5 (6"-24")** Matrix: Soil Date Received:07.30.19 11.10

Lab Sample Id: 632441-010 Date Collected: 07.29.19 13.15 Sample Depth: 6 - 24

Analytical Method: EPA 8141 Organophosphorus Pesticides by GC Prep Method: SW3550

Tech: BNS % Moisture:

Analyst: CHD Date Prep: 08.02.19 13.30 Basis: Wet Weight

Seq Number: 3097570 SUB: E871146

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
azinphos-methyl	86-50-0	0.00166 U	0.00332	0.00166	UJ	mg/kg	08.06.19 04.08	1
Chlorpyrifos	2921-88-2	0.00166 U	0.00332	0.00166	U	mg/kg	08.06.19 04.08	1
Coumaphos	56-72-4	0.00166 U	0.00332	0.00166	UJ	mg/kg	08.06.19 04.08	1
Demeton-O	298-03-3	0.00166 U	0.00332	0.00166	U	mg/kg	08.06.19 04.08	1
Demeton-S	126-75-0	0.00166 U	0.00332	0.00166	U	mg/kg	08.06.19 04.08	1
Diazinon	333-41-5	0.00166 U	0.00332	0.00166	U	mg/kg	08.06.19 04.08	1
Dimethoate	60-51-5	0.00166 U	0.00332	0.00166	U	mg/kg	08.06.19 04.08	1
EPN (Ent)	2104-64-5	0.00166 U	0.00332	0.00166	U	mg/kg	08.06.19 04.08	1
Ethoprop	13194-48-4	0.00166 U	0.00332	0.00166	U	mg/kg	08.06.19 04.08	1
Famphur	52-85-7	0.00166 U	0.00332	0.00166	U	mg/kg	08.06.19 04.08	1
Fenthion	55-38-9	0.00166 U	0.00332	0.00166	U	mg/kg	08.06.19 04.08	1
Malathion	121-75-5	0.00166 U	0.00332	0.00166	U	mg/kg	08.06.19 04.08	1
Merphos	150-50-5	0.00166 U	0.00332	0.00166	UJ	mg/kg	08.06.19 04.08	1
Mevinphos	7786-34-7	0.00166 U	0.00332	0.00166	U	mg/kg	08.06.19 04.08	1
Monocrotophos	2157-98-4	0.00166 U	0.00332	0.00166	UJ	mg/kg	08.06.19 04.08	1
Naled	300-76-5	0.00166 U	0.00332	0.00166	U	mg/kg	08.06.19 04.08	1
Parathion, Ethyl	56-38-2	0.00166 U	0.00332	0.00166	U	mg/kg	08.06.19 04.08	1
Parathion, Methyl	298-00-0	0.00166 U	0.00332	0.00166	U	mg/kg	08.06.19 04.08	1
Phorate	298-02-2	0.00166 U	0.00332	0.00166	U	mg/kg	08.06.19 04.08	1
Ronnel	299-84-3	0.00166 U	0.00332	0.00166	U	mg/kg	08.06.19 04.08	1
stirophos	22248-79-9	0.00166 U	0.00332	0.00166	U	mg/kg	08.06.19 04.08	1
Sulfotep	3689-24-5	0.00166 U	0.00332	0.00166	U	mg/kg	08.06.19 04.08	1
Sulprofos	35400-43-2	0.00166 U	0.00332	0.00166	U	mg/kg	08.06.19 04.08	1
TEPP	21646-99-1	0.00166 U	0.00332	0.00166	U	mg/kg	08.06.19 04.08	1
Tokuthion	34643-46-4	0.00166 U	0.00332	0.00166	U	mg/kg	08.06.19 04.08	1
Trichloronate	327-98-0	0.00166 U	0.00332	0.00166	U	mg/kg	08.06.19 04.08	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tributyl Phosphate	126-73-8	72	%	38-123	08.06.19 04.08	

Certificate of Analytical Results 632441

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id:	**CS-5 (6"-24")**	Matrix:	Soil	Date Received:	07.30.19 11.10
Lab Sample Id:	632441-010	Date Collected:	07.29.19 13.15	Sample Depth:	6 - 24
Analytical Method:	Pesticides by SW-846 8081B			Prep Method:	SW3550
Tech:	JSE			% Moisture:	26.48
Analyst:	MCK	Date Prep:	08.06.19 08.12	Basis:	Dry Weight
Seq Number:	3097724			SUB:	E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
4,4-DDD	72-54-8	0.00105 U	0.00453	0.00105	U	mg/kg	08.06.19 18.03	1
4,4-DDE	72-55-9	0.00227 U	0.00453	0.00227	U	mg/kg	08.06.19 18.03	1
4,4-DDT	50-29-3	0.000345 U	0.00453	0.000345	U	mg/kg	08.06.19 18.03	1
Aldrin	309-00-2	0.000493 U	0.00453	0.000493	U	mg/kg	08.06.19 18.03	1
Alpha-BHC	319-84-6	0.000924 U	0.00453	0.000924	U	mg/kg	08.06.19 18.03	1
Alpha-Chlordane	5103-71-9	0.000776 U	0.00453	0.000776	U	mg/kg	08.06.19 18.03	1
Beta-BHC	319-85-7	0.000644 U	0.00453	0.000644	U	mg/kg	08.06.19 18.03	1
Delta-BHC	319-86-8	0.00227 U	0.00453	0.00227	U	mg/kg	08.06.19 18.03	1
Dieldrin	60-57-1	0.000230 U	0.00453	0.000230	U	mg/kg	08.06.19 18.03	1
Endosulfan I	959-98-8	0.000274 U	0.00453	0.000274	U	mg/kg	08.06.19 18.03	1
Endosulfan II	33213-65-9	0.000506 U	0.00453	0.000506	U	mg/kg	08.06.19 18.03	1
Endosulfan Sulfate	1031-07-8	0.000375 U	0.00453	0.000375	U	mg/kg	08.06.19 18.03	1
Endrin	72-20-8	0.000395 U	0.00453	0.000395	U	mg/kg	08.06.19 18.03	1
Endrin Aldehyde	7421-93-4	0.000336 U	0.00453	0.000336	U	mg/kg	08.06.19 18.03	1
Endrin Ketone	53494-70-5	0.000490 U	0.00453	0.000490	U	mg/kg	08.06.19 18.03	1
Gamma-BHC (Lindane)	58-89-9	0.000596 U	0.00453	0.000596	U	mg/kg	08.06.19 18.03	1
Gamma-Chlordane	5103-74-2	0.00104 U	0.00453	0.00104	U	mg/kg	08.06.19 18.03	1
Heptachlor	76-44-8	0.000764 U	0.00453	0.000764	U	mg/kg	08.06.19 18.03	1
Heptachlor Epoxide	1024-57-3	0.000333 U	0.00453	0.000333	U	mg/kg	08.06.19 18.03	1
Methoxychlor	72-43-5	0.000689 U	0.00453	0.000689	U	mg/kg	08.06.19 18.03	1
Chlordane	12789-03-6	0.0325 U	0.113	0.0325	U	mg/kg	08.06.19 18.03	1
Toxaphene	8001-35-2	0.0154 U	0.113	0.0154	U	mg/kg	08.06.19 18.03	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	39	%	35-135	08.06.19 18.03	
Decachlorobiphenyl	2051-24-3	55	%	25-143	08.06.19 18.03	

Certificate of Analytical Results 632441

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-5 (6"-24")** Matrix: Soil Date Received:07.30.19 11.10

Lab Sample Id: 632441-010 Date Collected: 07.29.19 13.15 Sample Depth: 6 - 24

Analytical Method: SPLP Ammonia By EPA 350.1 Prep Method: E350.1P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.06.19 11.00

Seq Number: 3097678 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Ammonia (as N)	7664-41-7	**0.0808**	0.100	0.0345	I	mg/L	08.06.19 15.25	1

Analytical Method: SPLP Nitrate-Nitrite by E353.2 Prep Method: E353.2P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.05.19 11.08

Seq Number: 3097530 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Nitrate-Nitrite	7727-37-9	**0.0462**	0.100	0.0283	I	mg/L	08.05.19 12.35	1

Certificate of Analytical Results 632441

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id:	**CS-6 (0-6")**	Matrix:	Soil	Date Received:	07.30.19 11.10
Lab Sample Id:	632441-011	Date Collected:	07.29.19 13.25	Sample Depth:	0 - 6
Analytical Method:	Metals, Total by SW846 6010C			Prep Method:	SW3050B
Tech:	PJB			% Moisture:	28
Analyst:	DEP	Date Prep:	08.02.19 09.15	Basis:	Dry Weight
Seq Number:	3097365			SUB:	E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Arsenic	7440-38-2	**8.30**	2.62	0.555		mg/kg	08.05.19 21.54	1
Chromium	7440-47-3	**5.53**	1.31	0.0922		mg/kg	08.05.19 21.54	1
Copper	7440-50-8	**20.5**	2.62	0.581		mg/kg	08.05.19 21.54	1
Iron	7439-89-6	**1030**	26.2	3.53		mg/kg	08.05.19 21.54	1
Lead	7439-92-1	**5.24**	2.62	0.623		mg/kg	08.05.19 21.54	1
Manganese	7439-96-5	**168**	2.62	0.364		mg/kg	08.05.19 21.54	1

Certificate of Analytical Results 632441

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-6 (0-6")** Matrix: Soil Date Received:07.30.19 11.10

Lab Sample Id: 632441-011 Date Collected: 07.29.19 13.25 Sample Depth: 0 - 6

Analytical Method: EPA 8141 Organophosphorus Pesticides by GC Prep Method: SW3550

Tech: BNS % Moisture:

Analyst: CHD Date Prep: 08.02.19 13.30 Basis: Wet Weight

Seq Number: 3097570 SUB: E871146

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
azinphos-methyl	86-50-0	0.00164 U	0.00329	0.00164	UJ	mg/kg	08.06.19 04.39	1
Chlorpyrifos	2921-88-2	0.00164 U	0.00329	0.00164	U	mg/kg	08.06.19 04.39	1
Coumaphos	56-72-4	0.00164 U	0.00329	0.00164	UJ	mg/kg	08.06.19 04.39	1
Demeton-O	298-03-3	0.00164 U	0.00329	0.00164	U	mg/kg	08.06.19 04.39	1
Demeton-S	126-75-0	0.00164 U	0.00329	0.00164	U	mg/kg	08.06.19 04.39	1
Diazinon	333-41-5	0.00164 U	0.00329	0.00164	U	mg/kg	08.06.19 04.39	1
Dimethoate	60-51-5	0.00164 U	0.00329	0.00164	U	mg/kg	08.06.19 04.39	1
EPN (Ent)	2104-64-5	0.00164 U	0.00329	0.00164	U	mg/kg	08.06.19 04.39	1
Ethoprop	13194-48-4	0.00164 U	0.00329	0.00164	U	mg/kg	08.06.19 04.39	1
Famphur	52-85-7	0.00164 U	0.00329	0.00164	U	mg/kg	08.06.19 04.39	1
Fenthion	55-38-9	0.00164 U	0.00329	0.00164	U	mg/kg	08.06.19 04.39	1
Malathion	121-75-5	0.00164 U	0.00329	0.00164	U	mg/kg	08.06.19 04.39	1
Merphos	150-50-5	0.00164 U	0.00329	0.00164	UJ	mg/kg	08.06.19 04.39	1
Mevinphos	7786-34-7	0.00164 U	0.00329	0.00164	U	mg/kg	08.06.19 04.39	1
Monocrotophos	2157-98-4	0.00164 U	0.00329	0.00164	UJ	mg/kg	08.06.19 04.39	1
Naled	300-76-5	0.00164 U	0.00329	0.00164	U	mg/kg	08.06.19 04.39	1
Parathion, Ethyl	56-38-2	0.00164 U	0.00329	0.00164	U	mg/kg	08.06.19 04.39	1
Parathion, Methyl	298-00-0	0.00164 U	0.00329	0.00164	U	mg/kg	08.06.19 04.39	1
Phorate	298-02-2	0.00164 U	0.00329	0.00164	U	mg/kg	08.06.19 04.39	1
Ronnel	299-84-3	0.00164 U	0.00329	0.00164	U	mg/kg	08.06.19 04.39	1
stirophos	22248-79-9	0.00164 U	0.00329	0.00164	U	mg/kg	08.06.19 04.39	1
Sulfotep	3689-24-5	0.00164 U	0.00329	0.00164	U	mg/kg	08.06.19 04.39	1
Sulprofos	35400-43-2	0.00164 U	0.00329	0.00164	U	mg/kg	08.06.19 04.39	1
TEPP	21646-99-1	0.00164 U	0.00329	0.00164	U	mg/kg	08.06.19 04.39	1
Tokuthion	34643-46-4	0.00164 U	0.00329	0.00164	U	mg/kg	08.06.19 04.39	1
Trichloronate	327-98-0	0.00164 U	0.00329	0.00164	U	mg/kg	08.06.19 04.39	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tributyl Phosphate	126-73-8	72	%	38-123	08.06.19 04.39	

Certificate of Analytical Results 632441

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-6 (0-6")**
Lab Sample Id: 632441-011

Matrix: Soil
Date Collected: 07.29.19 13.25

Date Received: 07.30.19 11.10
Sample Depth: 0 - 6

Analytical Method: Pesticides by SW-846 8081B
Tech: JSE
Analyst: MCK
Seq Number: 3097724

Date Prep: 08.06.19 08.15

Prep Method: SW3550
% Moisture: 28
Basis: Dry Weight
SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
4,4-DDD	72-54-8	0.00107 U	0.00463	0.00107	U	mg/kg	08.06.19 18.17	1
4,4-DDE	72-55-9	0.00231 U	0.00463	0.00231	U	mg/kg	08.06.19 18.17	1
4,4-DDT	50-29-3	**0.00107**	0.00463	0.000352	I	mg/kg	08.06.19 18.17	1
Aldrin	309-00-2	0.000504 U	0.00463	0.000504	U	mg/kg	08.06.19 18.17	1
Alpha-BHC	319-84-6	0.000944 U	0.00463	0.000944	U	mg/kg	08.06.19 18.17	1
Alpha-Chlordane	5103-71-9	0.000792 U	0.00463	0.000792	U	mg/kg	08.06.19 18.17	1
Beta-BHC	319-85-7	0.000658 U	0.00463	0.000658	U	mg/kg	08.06.19 18.17	1
Delta-BHC	319-86-8	0.00231 U	0.00463	0.00231	U	mg/kg	08.06.19 18.17	1
Dieldrin	60-57-1	0.000235 U	0.00463	0.000235	U	mg/kg	08.06.19 18.17	1
Endosulfan I	959-98-8	0.000280 U	0.00463	0.000280	U	mg/kg	08.06.19 18.17	1
Endosulfan II	33213-65-9	0.000517 U	0.00463	0.000517	U	mg/kg	08.06.19 18.17	1
Endosulfan Sulfate	1031-07-8	0.000383 U	0.00463	0.000383	U	mg/kg	08.06.19 18.17	1
Endrin	72-20-8	0.000404 U	0.00463	0.000404	U	mg/kg	08.06.19 18.17	1
Endrin Aldehyde	7421-93-4	0.000343 U	0.00463	0.000343	U	mg/kg	08.06.19 18.17	1
Endrin Ketone	53494-70-5	0.000501 U	0.00463	0.000501	U	mg/kg	08.06.19 18.17	1
Gamma-BHC (Lindane)	58-89-9	0.000609 U	0.00463	0.000609	U	mg/kg	08.06.19 18.17	1
Gamma-Chlordane	5103-74-2	0.00106 U	0.00463	0.00106	U	mg/kg	08.06.19 18.17	1
Heptachlor	76-44-8	0.000780 U	0.00463	0.000780	U	mg/kg	08.06.19 18.17	1
Heptachlor Epoxide	1024-57-3	0.000340 U	0.00463	0.000340	U	mg/kg	08.06.19 18.17	1
Methoxychlor	72-43-5	0.000703 U	0.00463	0.000703	U	mg/kg	08.06.19 18.17	1
Chlordane	12789-03-6	0.0332 U	0.116	0.0332	U	mg/kg	08.06.19 18.17	1
Toxaphene	8001-35-2	0.0157 U	0.116	0.0157	U	mg/kg	08.06.19 18.17	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	46	%	35-135	08.06.19 18.17	
Decachlorobiphenyl	2051-24-3	59	%	25-143	08.06.19 18.17	

Certificate of Analytical Results 632441

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-6 (0-6")** Matrix: Soil Date Received:07.30.19 11.10

Lab Sample Id: 632441-011 Date Collected: 07.29.19 13.25 Sample Depth: 0 - 6

Analytical Method: SPLP Ammonia By EPA 350.1 Prep Method: E350.1P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.06.19 11.00

Seq Number: 3097678 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Ammonia (as N)	7664-41-7	**0.253**	0.100	0.0345		mg/L	08.06.19 15.26	1

Analytical Method: SPLP Nitrate-Nitrite by E353.2 Prep Method: E353.2P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.05.19 11.08

Seq Number: 3097530 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Nitrate-Nitrite	7727-37-9	**0.0585**	0.100	0.0283	I	mg/L	08.05.19 12.37	1

Certificate of Analytical Results 632441

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id:	**CS-6 (6"-24")**	Matrix:	Soil	Date Received:	07.30.19 11.10
Lab Sample Id:	632441-012	Date Collected:	07.29.19 13.25	Sample Depth:	6 - 24
Analytical Method:	Metals, Total by SW846 6010C			Prep Method:	SW3050B
Tech:	PJB			% Moisture:	25.53
Analyst:	DEP	Date Prep:	08.02.19 10.30	Basis:	Dry Weight
Seq Number:	3097481			SUB:	E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Arsenic	7440-38-2	0.569 U	2.69	0.569	U	mg/kg	08.04.19 14.18	1
Chromium	7440-47-3	**0.383**	1.34	0.0945	I	mg/kg	08.04.19 14.18	1
Copper	7440-50-8	**4.20**	2.69	0.595		mg/kg	08.04.19 14.18	1
Iron	7439-89-6	**1280**	26.9	3.62		mg/kg	08.04.19 14.18	1
Lead	7439-92-1	**0.753**	2.69	0.639	I	mg/kg	08.04.19 14.18	1
Manganese	7439-96-5	**49.7**	2.69	0.373		mg/kg	08.04.19 14.18	1

Certificate of Analytical Results 632441

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-6 (6"-24")** Matrix: Soil Date Received:07.30.19 11.10

Lab Sample Id: 632441-012 Date Collected: 07.29.19 13.25 Sample Depth: 6 - 24

Analytical Method: EPA 8141 Organophosphorus Pesticides by GC Prep Method: SW3550

Tech: BNS % Moisture:

Analyst: CHD Date Prep: 08.05.19 13.20 Basis: Wet Weight

Seq Number: 3097713 SUB: E871146

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
azinphos-methyl	86-50-0	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 02.46	1
Chlorpyrifos	2921-88-2	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 02.46	1
Coumaphos	56-72-4	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 02.46	1
Demeton-O	298-03-3	0.00166 U	0.00332	0.00166	UJ	mg/kg	08.07.19 02.46	1
Demeton-S	126-75-0	0.00166 U	0.00332	0.00166	UJ	mg/kg	08.07.19 02.46	1
Diazinon	333-41-5	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 02.46	1
Dimethoate	60-51-5	0.00166 U	0.00332	0.00166	UJ	mg/kg	08.07.19 02.46	1
EPN (Ent)	2104-64-5	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 02.46	1
Ethoprop	13194-48-4	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 02.46	1
Famphur	52-85-7	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 02.46	1
Fenthion	55-38-9	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 02.46	1
Malathion	121-75-5	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 02.46	1
Merphos	150-50-5	0.00166 U	0.00332	0.00166	UJ	mg/kg	08.07.19 02.46	1
Mevinphos	7786-34-7	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 02.46	1
Monocrotophos	2157-98-4	0.00166 U	0.00332	0.00166	UJ	mg/kg	08.07.19 02.46	1
Naled	300-76-5	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 02.46	1
Parathion, Ethyl	56-38-2	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 02.46	1
Parathion, Methyl	298-00-0	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 02.46	1
Phorate	298-02-2	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 02.46	1
Ronnel	299-84-3	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 02.46	1
stirophos	22248-79-9	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 02.46	1
Sulfotep	3689-24-5	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 02.46	1
Sulprofos	35400-43-2	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 02.46	1
TEPP	21646-99-1	0.00166 U	0.00332	0.00166	UJ	mg/kg	08.07.19 02.46	1
Tokuthion	34643-46-4	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 02.46	1
Trichloronate	327-98-0	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 02.46	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tributyl Phosphate	126-73-8	89	%	38-123	08.07.19 02.46	

Certificate of Analytical Results 632441

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id:	**CS-6 (6"-24")**	Matrix:	Soil	Date Received:	07.30.19 11.10
Lab Sample Id:	632441-012	Date Collected:	07.29.19 13.25	Sample Depth:	6 - 24
Analytical Method:	Pesticides by SW-846 8081B			Prep Method:	SW3550
Tech:	JSE			% Moisture:	25.53
Analyst:	MCK	Date Prep:	08.06.19 08.18	Basis:	Dry Weight
Seq Number:	3097724			SUB:	E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
4,4-DDD	72-54-8	0.00104 U	0.00448	0.00104	U	mg/kg	08.06.19 18.31	1
4,4-DDE	72-55-9	**0.00868**	0.00448	0.00224		mg/kg	08.06.19 18.31	1
4,4-DDT	50-29-3	0.000341 U	0.00448	0.000341	U	mg/kg	08.06.19 18.31	1
Aldrin	309-00-2	0.000487 U	0.00448	0.000487	U	mg/kg	08.06.19 18.31	1
Alpha-BHC	319-84-6	0.000913 U	0.00448	0.000913	U	mg/kg	08.06.19 18.31	1
Alpha-Chlordane	5103-71-9	**0.00557**	0.00448	0.000766		mg/kg	08.06.19 18.31	1
Beta-BHC	319-85-7	0.000636 U	0.00448	0.000636	U	mg/kg	08.06.19 18.31	1
Delta-BHC	319-86-8	0.00224 U	0.00448	0.00224	U	mg/kg	08.06.19 18.31	1
Dieldrin	60-57-1	**0.00108**	0.00448	0.000228	I	mg/kg	08.06.19 18.31	1
Endosulfan I	959-98-8	0.000271 U	0.00448	0.000271	U	mg/kg	08.06.19 18.31	1
Endosulfan II	33213-65-9	0.000500 U	0.00448	0.000500	U	mg/kg	08.06.19 18.31	1
Endosulfan Sulfate	1031-07-8	0.000370 U	0.00448	0.000370	U	mg/kg	08.06.19 18.31	1
Endrin	72-20-8	0.000391 U	0.00448	0.000391	U	mg/kg	08.06.19 18.31	1
Endrin Aldehyde	7421-93-4	0.000332 U	0.00448	0.000332	U	mg/kg	08.06.19 18.31	1
Endrin Ketone	53494-70-5	0.000485 U	0.00448	0.000485	U	mg/kg	08.06.19 18.31	1
Gamma-BHC (Lindane)	58-89-9	0.000589 U	0.00448	0.000589	U	mg/kg	08.06.19 18.31	1
Gamma-Chlordane	5103-74-2	**0.00290**	0.00448	0.00103	I	mg/kg	08.06.19 18.31	1
Heptachlor	76-44-8	0.000755 U	0.00448	0.000755	U	mg/kg	08.06.19 18.31	1
Heptachlor Epoxide	1024-57-3	0.000329 U	0.00448	0.000329	U	mg/kg	08.06.19 18.31	1
Methoxychlor	72-43-5	0.000681 U	0.00448	0.000681	U	mg/kg	08.06.19 18.31	1
Chlordane	12789-03-6	0.0321 U	0.112	0.0321	U	mg/kg	08.06.19 18.31	1
Toxaphene	8001-35-2	0.0152 U	0.112	0.0152	U	mg/kg	08.06.19 18.31	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	31	%	35-135	08.06.19 18.31	J
Decachlorobiphenyl	2051-24-3	57	%	25-143	08.06.19 18.31	

Certificate of Analytical Results 632441

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-6 (6"-24")** Matrix: Soil Date Received:07.30.19 11.10

Lab Sample Id: 632441-012 Date Collected: 07.29.19 13.25 Sample Depth: 6 - 24

Analytical Method: SPLP Ammonia By EPA 350.1 Prep Method: E350.1P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.06.19 11.00

Seq Number: 3097678 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Ammonia (as N)	7664-41-7	**0.0693**	0.100	0.0345	I	mg/L	08.06.19 15.30	1

Analytical Method: SPLP Nitrate-Nitrite by E353.2 Prep Method: E353.2P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.05.19 11.08

Seq Number: 3097530 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Nitrate-Nitrite	7727-37-9	**0.0377**	0.100	0.0283	I	mg/L	08.05.19 12.42	1

Certificate of Analytical Results 632441

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id:	**CS-7 (0-6")**	Matrix:	Soil	Date Received:	07.30.19 11.10
Lab Sample Id:	632441-013	Date Collected:	07.29.19 13.33	Sample Depth:	0 - 6
Analytical Method:	Metals, Total by SW846 6010C			Prep Method:	SW3050B
Tech:	PJB			% Moisture:	27.06
Analyst:	DEP	Date Prep:	08.02.19 10.30	Basis:	Dry Weight
Seq Number:	3097481			SUB:	E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Arsenic	7440-38-2	0.510 U	2.41	0.510	U	mg/kg	08.04.19 14.48	1
Chromium	7440-47-3	**9.89**	1.20	0.0846		mg/kg	08.04.19 14.48	1
Copper	7440-50-8	**26.1**	2.41	0.533		mg/kg	08.04.19 14.48	1
Iron	7439-89-6	**1640**	24.1	3.24		mg/kg	08.04.19 14.48	1
Lead	7439-92-1	**9.08**	2.41	0.572		mg/kg	08.04.19 14.48	1
Manganese	7439-96-5	**181**	2.41	0.334		mg/kg	08.04.19 14.48	1

Certificate of Analytical Results 632441

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-7 (0-6")** Matrix: Soil Date Received:07.30.19 11.10

Lab Sample Id: 632441-013 Date Collected: 07.29.19 13.33 Sample Depth: 0 - 6

Analytical Method: EPA 8141 Organophosphorus Pesticides by GC Prep Method: SW3550

Tech: BNS % Moisture:

Analyst: CHD Date Prep: 08.02.19 13.30 Basis: Wet Weight

Seq Number: 3097570 SUB: E871146

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
azinphos-methyl	86-50-0	0.00166 U	0.00331	0.00166	UJ	mg/kg	08.06.19 05.11	1
Chlorpyrifos	2921-88-2	0.00166 U	0.00331	0.00166	U	mg/kg	08.06.19 05.11	1
Coumaphos	56-72-4	0.00166 U	0.00331	0.00166	UJ	mg/kg	08.06.19 05.11	1
Demeton-O	298-03-3	0.00166 U	0.00331	0.00166	U	mg/kg	08.06.19 05.11	1
Demeton-S	126-75-0	0.00166 U	0.00331	0.00166	U	mg/kg	08.06.19 05.11	1
Diazinon	333-41-5	0.00166 U	0.00331	0.00166	U	mg/kg	08.06.19 05.11	1
Dimethoate	60-51-5	0.00166 U	0.00331	0.00166	U	mg/kg	08.06.19 05.11	1
EPN (Ent)	2104-64-5	0.00166 U	0.00331	0.00166	U	mg/kg	08.06.19 05.11	1
Ethoprop	13194-48-4	0.00166 U	0.00331	0.00166	U	mg/kg	08.06.19 05.11	1
Famphur	52-85-7	0.00166 U	0.00331	0.00166	U	mg/kg	08.06.19 05.11	1
Fenthion	55-38-9	0.00166 U	0.00331	0.00166	U	mg/kg	08.06.19 05.11	1
Malathion	121-75-5	0.00166 U	0.00331	0.00166	U	mg/kg	08.06.19 05.11	1
Merphos	150-50-5	0.00166 U	0.00331	0.00166	UJ	mg/kg	08.06.19 05.11	1
Mevinphos	7786-34-7	0.00166 U	0.00331	0.00166	U	mg/kg	08.06.19 05.11	1
Monocrotophos	2157-98-4	0.00166 U	0.00331	0.00166	UJ	mg/kg	08.06.19 05.11	1
Naled	300-76-5	0.00166 U	0.00331	0.00166	U	mg/kg	08.06.19 05.11	1
Parathion, Ethyl	56-38-2	0.00166 U	0.00331	0.00166	U	mg/kg	08.06.19 05.11	1
Parathion, Methyl	298-00-0	0.00166 U	0.00331	0.00166	U	mg/kg	08.06.19 05.11	1
Phorate	298-02-2	0.00166 U	0.00331	0.00166	U	mg/kg	08.06.19 05.11	1
Ronnel	299-84-3	0.00166 U	0.00331	0.00166	U	mg/kg	08.06.19 05.11	1
stirophos	22248-79-9	0.00166 U	0.00331	0.00166	U	mg/kg	08.06.19 05.11	1
Sulfotep	3689-24-5	0.00166 U	0.00331	0.00166	U	mg/kg	08.06.19 05.11	1
Sulprofos	35400-43-2	0.00166 U	0.00331	0.00166	U	mg/kg	08.06.19 05.11	1
TEPP	21646-99-1	0.00166 U	0.00331	0.00166	U	mg/kg	08.06.19 05.11	1
Tokuthion	34643-46-4	0.00166 U	0.00331	0.00166	U	mg/kg	08.06.19 05.11	1
Trichloronate	327-98-0	0.00166 U	0.00331	0.00166	U	mg/kg	08.06.19 05.11	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tributyl Phosphate	126-73-8	91	%	38-123	08.06.19 05.11	

Certificate of Analytical Results 632441

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-7 (0-6")**
Lab Sample Id: 632441-013

Matrix: Soil
Date Collected: 07.29.19 13.33

Date Received: 07.30.19 11.10
Sample Depth: 0 - 6

Analytical Method: Pesticides by SW-846 8081B
Tech: JSE
Analyst: MCK
Seq Number: 3097724

Date Prep: 08.06.19 08.21

Prep Method: SW3550
% Moisture: 27.06
Basis: Dry Weight
SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
4,4-DDD	72-54-8	0.00106 U	0.00457	0.00106	U	mg/kg	08.06.19 18.44	1
4,4-DDE	72-55-9	**0.00248**	0.00457	0.00229	I	mg/kg	08.06.19 18.44	1
4,4-DDT	50-29-3	**0.000700**	0.00457	0.000348	I	mg/kg	08.06.19 18.44	1
Aldrin	309-00-2	0.000498 U	0.00457	0.000498	U	mg/kg	08.06.19 18.44	1
Alpha-BHC	319-84-6	0.000933 U	0.00457	0.000933	U	mg/kg	08.06.19 18.44	1
Alpha-Chlordane	5103-71-9	**0.00113**	0.00457	0.000783	I	mg/kg	08.06.19 18.44	1
Beta-BHC	319-85-7	0.000650 U	0.00457	0.000650	U	mg/kg	08.06.19 18.44	1
Delta-BHC	319-86-8	0.00229 U	0.00457	0.00229	U	mg/kg	08.06.19 18.44	1
Dieldrin	60-57-1	**0.000366**	0.00457	0.000232	I	mg/kg	08.06.19 18.44	1
Endosulfan I	959-98-8	0.000277 U	0.00457	0.000277	U	mg/kg	08.06.19 18.44	1
Endosulfan II	33213-65-9	0.000511 U	0.00457	0.000511	U	mg/kg	08.06.19 18.44	1
Endosulfan Sulfate	1031-07-8	0.000379 U	0.00457	0.000379	U	mg/kg	08.06.19 18.44	1
Endrin	72-20-8	0.000399 U	0.00457	0.000399	U	mg/kg	08.06.19 18.44	1
Endrin Aldehyde	7421-93-4	0.000339 U	0.00457	0.000339	U	mg/kg	08.06.19 18.44	1
Endrin Ketone	53494-70-5	0.000495 U	0.00457	0.000495	U	mg/kg	08.06.19 18.44	1
Gamma-BHC (Lindane)	58-89-9	0.000602 U	0.00457	0.000602	U	mg/kg	08.06.19 18.44	1
Gamma-Chlordane	5103-74-2	0.00105 U	0.00457	0.00105	U	mg/kg	08.06.19 18.44	1
Heptachlor	76-44-8	0.000771 U	0.00457	0.000771	U	mg/kg	08.06.19 18.44	1
Heptachlor Epoxide	1024-57-3	0.000336 U	0.00457	0.000336	U	mg/kg	08.06.19 18.44	1
Methoxychlor	72-43-5	0.000695 U	0.00457	0.000695	U	mg/kg	08.06.19 18.44	1
Chlordane	12789-03-6	0.0328 U	0.114	0.0328	U	mg/kg	08.06.19 18.44	1
Toxaphene	8001-35-2	0.0155 U	0.114	0.0155	U	mg/kg	08.06.19 18.44	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	38	%	35-135	08.06.19 18.44	
Decachlorobiphenyl	2051-24-3	59	%	25-143	08.06.19 18.44	

Certificate of Analytical Results 632441

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-7 (0-6")** Matrix: Soil Date Received:07.30.19 11.10

Lab Sample Id: 632441-013 Date Collected: 07.29.19 13.33 Sample Depth: 0 - 6

Analytical Method: SPLP Ammonia By EPA 350.1 Prep Method: E350.1P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.06.19 11.00

Seq Number: 3097678 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Ammonia (as N)	7664-41-7	**0.124**	0.100	0.0345		mg/L	08.06.19 15.31	1

Analytical Method: SPLP Nitrate-Nitrite by E353.2 Prep Method: E353.2P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.05.19 11.08

Seq Number: 3097530 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Nitrate-Nitrite	7727-37-9	**0.174**	0.100	0.0283		mg/L	08.05.19 12.43	1

Certificate of Analytical Results 632441

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id:	**CS-7 (6"-24")**	Matrix:	Soil	Date Received:	07.30.19 11.10
Lab Sample Id:	632441-014	Date Collected:	07.29.19 13.33	Sample Depth:	6 - 24
Analytical Method:	Metals, Total by SW846 6010C			Prep Method:	SW3050B
Tech:	PJB			% Moisture:	21.27
Analyst:	DEP	Date Prep:	08.02.19 10.30	Basis:	Dry Weight
Seq Number:	3097481			SUB:	E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Arsenic	7440-38-2	0.449 U	2.12	0.449	U	mg/kg	08.04.19 14.52	1
Chromium	7440-47-3	**12.2**	1.06	0.0745		mg/kg	08.04.19 14.52	1
Copper	7440-50-8	0.469 U	2.12	0.469	U	mg/kg	08.04.19 14.52	1
Iron	7439-89-6	**2880**	21.2	2.85		mg/kg	08.04.19 14.52	1
Lead	7439-92-1	**1.25**	2.12	0.503	I	mg/kg	08.04.19 14.52	1
Manganese	7439-96-5	**24.7**	2.12	0.294		mg/kg	08.04.19 14.52	1

Certificate of Analytical Results 632441

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-7 (6"-24")** Matrix: Soil Date Received:07.30.19 11.10

Lab Sample Id: 632441-014 Date Collected: 07.29.19 13.33 Sample Depth: 6 - 24

Analytical Method: EPA 8141 Organophosphorus Pesticides by GC Prep Method: SW3550

Tech: BNS % Moisture:

Analyst: CHD Date Prep: 08.02.19 13.30 Basis: Wet Weight

Seq Number: 3097570 SUB: E871146

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
azinphos-methyl	86-50-0	0.00167 U	0.00333	0.00167	UJ	mg/kg	08.06.19 05.42	1
Chlorpyrifos	2921-88-2	0.00167 U	0.00333	0.00167	U	mg/kg	08.06.19 05.42	1
Coumaphos	56-72-4	0.00167 U	0.00333	0.00167	UJ	mg/kg	08.06.19 05.42	1
Demeton-O	298-03-3	0.00167 U	0.00333	0.00167	U	mg/kg	08.06.19 05.42	1
Demeton-S	126-75-0	0.00167 U	0.00333	0.00167	U	mg/kg	08.06.19 05.42	1
Diazinon	333-41-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.06.19 05.42	1
Dimethoate	60-51-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.06.19 05.42	1
EPN (Ent)	2104-64-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.06.19 05.42	1
Ethoprop	13194-48-4	0.00167 U	0.00333	0.00167	U	mg/kg	08.06.19 05.42	1
Famphur	52-85-7	0.00167 U	0.00333	0.00167	U	mg/kg	08.06.19 05.42	1
Fenthion	55-38-9	0.00167 U	0.00333	0.00167	U	mg/kg	08.06.19 05.42	1
Malathion	121-75-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.06.19 05.42	1
Merphos	150-50-5	0.00167 U	0.00333	0.00167	UJ	mg/kg	08.06.19 05.42	1
Mevinphos	7786-34-7	0.00167 U	0.00333	0.00167	U	mg/kg	08.06.19 05.42	1
Monocrotophos	2157-98-4	0.00167 U	0.00333	0.00167	UJ	mg/kg	08.06.19 05.42	1
Naled	300-76-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.06.19 05.42	1
Parathion, Ethyl	56-38-2	0.00167 U	0.00333	0.00167	U	mg/kg	08.06.19 05.42	1
Parathion, Methyl	298-00-0	0.00167 U	0.00333	0.00167	U	mg/kg	08.06.19 05.42	1
Phorate	298-02-2	0.00167 U	0.00333	0.00167	U	mg/kg	08.06.19 05.42	1
Ronnel	299-84-3	0.00167 U	0.00333	0.00167	U	mg/kg	08.06.19 05.42	1
stirophos	22248-79-9	0.00167 U	0.00333	0.00167	U	mg/kg	08.06.19 05.42	1
Sulfotep	3689-24-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.06.19 05.42	1
Sulprofos	35400-43-2	0.00167 U	0.00333	0.00167	U	mg/kg	08.06.19 05.42	1
TEPP	21646-99-1	0.00167 U	0.00333	0.00167	U	mg/kg	08.06.19 05.42	1
Tokuthion	34643-46-4	0.00167 U	0.00333	0.00167	U	mg/kg	08.06.19 05.42	1
Trichloronate	327-98-0	0.00167 U	0.00333	0.00167	U	mg/kg	08.06.19 05.42	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tributyl Phosphate	126-73-8	78	%	38-123	08.06.19 05.42	

Certificate of Analytical Results 632441

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-7 (6"-24")**
Lab Sample Id: 632441-014

Matrix: Soil
Date Collected: 07.29.19 13.33

Date Received: 07.30.19 11.10
Sample Depth: 6 - 24

Analytical Method: Pesticides by SW-846 8081B
Tech: JSE
Analyst: MCK
Seq Number: 3097724

Date Prep: 08.06.19 08.24

Prep Method: SW3550
% Moisture: 21.27
Basis: Dry Weight
SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
4,4-DDD	72-54-8	0.000980 U	0.00423	0.000980	U	mg/kg	08.06.19 18.58	1
4,4-DDE	72-55-9	0.00212 U	0.00423	0.00212	U	mg/kg	08.06.19 18.58	1
4,4-DDT	50-29-3	0.000322 U	0.00423	0.000322	U	mg/kg	08.06.19 18.58	1
Aldrin	309-00-2	0.000461 U	0.00423	0.000461	U	mg/kg	08.06.19 18.58	1
Alpha-BHC	319-84-6	0.000864 U	0.00423	0.000864	U	mg/kg	08.06.19 18.58	1
Alpha-Chlordane	5103-71-9	0.000725 U	0.00423	0.000725	U	mg/kg	08.06.19 18.58	1
Beta-BHC	319-85-7	0.000602 U	0.00423	0.000602	U	mg/kg	08.06.19 18.58	1
Delta-BHC	319-86-8	0.00212 U	0.00423	0.00212	U	mg/kg	08.06.19 18.58	1
Dieldrin	60-57-1	0.000215 U	0.00423	0.000215	U	mg/kg	08.06.19 18.58	1
Endosulfan I	959-98-8	0.000256 U	0.00423	0.000256	U	mg/kg	08.06.19 18.58	1
Endosulfan II	33213-65-9	0.000473 U	0.00423	0.000473	U	mg/kg	08.06.19 18.58	1
Endosulfan Sulfate	1031-07-8	0.000350 U	0.00423	0.000350	U	mg/kg	08.06.19 18.58	1
Endrin	72-20-8	0.000369 U	0.00423	0.000369	U	mg/kg	08.06.19 18.58	1
Endrin Aldehyde	7421-93-4	0.000314 U	0.00423	0.000314	U	mg/kg	08.06.19 18.58	1
Endrin Ketone	53494-70-5	0.000458 U	0.00423	0.000458	U	mg/kg	08.06.19 18.58	1
Gamma-BHC (Lindane)	58-89-9	0.000557 U	0.00423	0.000557	U	mg/kg	08.06.19 18.58	1
Gamma-Chlordane	5103-74-2	0.000970 U	0.00423	0.000970	U	mg/kg	08.06.19 18.58	1
Heptachlor	76-44-8	0.000714 U	0.00423	0.000714	U	mg/kg	08.06.19 18.58	1
Heptachlor Epoxide	1024-57-3	0.000311 U	0.00423	0.000311	U	mg/kg	08.06.19 18.58	1
Methoxychlor	72-43-5	0.000644 U	0.00423	0.000644	U	mg/kg	08.06.19 18.58	1
Chlordane	12789-03-6	0.0304 U	0.106	0.0304	U	mg/kg	08.06.19 18.58	1
Toxaphene	8001-35-2	0.0144 U	0.106	0.0144	U	mg/kg	08.06.19 18.58	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	62	%	35-135	08.06.19 18.58	
Decachlorobiphenyl	2051-24-3	63	%	25-143	08.06.19 18.58	

Certificate of Analytical Results 632441

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-7 (6"-24")** Matrix: Soil Date Received:07.30.19 11.10

Lab Sample Id: 632441-014 Date Collected: 07.29.19 13.33 Sample Depth: 6 - 24

Analytical Method: SPLP Ammonia By EPA 350.1 Prep Method: E350.1P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.07.19 09.00

Seq Number: 3097787 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Ammonia (as N)	7664-41-7	**0.0850**	0.100	0.0345	I	mg/L	08.07.19 15.21	1

Analytical Method: SPLP Nitrate-Nitrite by E353.2 Prep Method: E353.2P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.05.19 11.08

Seq Number: 3097530 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Nitrate-Nitrite	7727-37-9	**0.0334**	0.100	0.0283	I	mg/L	08.05.19 12.48	1

Certificate of Analytical Results 632441

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id:	**CS-8 (0-6")**	Matrix:	Soil	Date Received:	07.30.19 11.10
Lab Sample Id:	632441-015	Date Collected:	07.29.19 13.46	Sample Depth:	0 - 6
Analytical Method:	Metals, Total by SW846 6010C			Prep Method:	SW3050B
Tech:	PJB			% Moisture:	29.61
Analyst:	DEP	Date Prep:	08.02.19 10.30	Basis:	Dry Weight
Seq Number:	3097481			SUB:	E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Arsenic	7440-38-2	0.568 U	2.68	0.568	U	mg/kg	08.04.19 14.56	1
Chromium	7440-47-3	**10.8**	1.34	0.0943		mg/kg	08.04.19 14.56	1
Copper	7440-50-8	**31.7**	2.68	0.594		mg/kg	08.04.19 14.56	1
Iron	7439-89-6	**1410**	26.8	3.61		mg/kg	08.04.19 14.56	1
Lead	7439-92-1	**9.79**	2.68	0.637		mg/kg	08.04.19 14.56	1
Manganese	7439-96-5	**297**	2.68	0.372		mg/kg	08.04.19 14.56	1

Certificate of Analytical Results 632441

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-8 (0-6")** Matrix: Soil Date Received:07.30.19 11.10

Lab Sample Id: 632441-015 Date Collected: 07.29.19 13.46 Sample Depth: 0 - 6

Analytical Method: EPA 8141 Organophosphorus Pesticides by GC Prep Method: SW3550

Tech: BNS % Moisture:

Analyst: CHD Date Prep: 08.02.19 13.30 Basis: Wet Weight

Seq Number: 3097570 SUB: E871146

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
azinphos-methyl	86-50-0	0.00166 U	0.00332	0.00166	UJ	mg/kg	08.06.19 06.13	1
Chlorpyrifos	2921-88-2	0.00166 U	0.00332	0.00166	U	mg/kg	08.06.19 06.13	1
Coumaphos	56-72-4	0.00166 U	0.00332	0.00166	UJ	mg/kg	08.06.19 06.13	1
Demeton-O	298-03-3	0.00166 U	0.00332	0.00166	U	mg/kg	08.06.19 06.13	1
Demeton-S	126-75-0	0.00166 U	0.00332	0.00166	U	mg/kg	08.06.19 06.13	1
Diazinon	333-41-5	0.00166 U	0.00332	0.00166	U	mg/kg	08.06.19 06.13	1
Dimethoate	60-51-5	0.00166 U	0.00332	0.00166	U	mg/kg	08.06.19 06.13	1
EPN (Ent)	2104-64-5	0.00166 U	0.00332	0.00166	U	mg/kg	08.06.19 06.13	1
Ethoprop	13194-48-4	0.00166 U	0.00332	0.00166	U	mg/kg	08.06.19 06.13	1
Famphur	52-85-7	0.00166 U	0.00332	0.00166	U	mg/kg	08.06.19 06.13	1
Fenthion	55-38-9	0.00166 U	0.00332	0.00166	U	mg/kg	08.06.19 06.13	1
Malathion	121-75-5	0.00166 U	0.00332	0.00166	U	mg/kg	08.06.19 06.13	1
Merphos	150-50-5	0.00166 U	0.00332	0.00166	UJ	mg/kg	08.06.19 06.13	1
Mevinphos	7786-34-7	0.00166 U	0.00332	0.00166	U	mg/kg	08.06.19 06.13	1
Monocrotophos	2157-98-4	0.00166 U	0.00332	0.00166	UJ	mg/kg	08.06.19 06.13	1
Naled	300-76-5	0.00166 U	0.00332	0.00166	U	mg/kg	08.06.19 06.13	1
Parathion, Ethyl	56-38-2	0.00166 U	0.00332	0.00166	U	mg/kg	08.06.19 06.13	1
Parathion, Methyl	298-00-0	0.00166 U	0.00332	0.00166	U	mg/kg	08.06.19 06.13	1
Phorate	298-02-2	0.00166 U	0.00332	0.00166	U	mg/kg	08.06.19 06.13	1
Ronnel	299-84-3	0.00166 U	0.00332	0.00166	U	mg/kg	08.06.19 06.13	1
stirophos	22248-79-9	0.00166 U	0.00332	0.00166	U	mg/kg	08.06.19 06.13	1
Sulfotep	3689-24-5	0.00166 U	0.00332	0.00166	U	mg/kg	08.06.19 06.13	1
Sulprofos	35400-43-2	0.00166 U	0.00332	0.00166	U	mg/kg	08.06.19 06.13	1
TEPP	21646-99-1	0.00166 U	0.00332	0.00166	U	mg/kg	08.06.19 06.13	1
Tokuthion	34643-46-4	0.00166 U	0.00332	0.00166	U	mg/kg	08.06.19 06.13	1
Trichloronate	327-98-0	0.00166 U	0.00332	0.00166	U	mg/kg	08.06.19 06.13	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tributyl Phosphate	126-73-8	72	%	38-123	08.06.19 06.13	

Certificate of Analytical Results 632441

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id:	**CS-8 (0-6")**	Matrix:	Soil	Date Received:	07.30.19 11.10
Lab Sample Id:	632441-015	Date Collected:	07.29.19 13.46	Sample Depth:	0 - 6
Analytical Method:	Pesticides by SW-846 8081B			Prep Method:	SW3550
Tech:	JSE			% Moisture:	29.61
Analyst:	MCK	Date Prep:	08.06.19 08.27	Basis:	Dry Weight
Seq Number:	3097724			SUB:	E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
4,4-DDD	72-54-8	0.00110 U	0.00473	0.00110	U	mg/kg	08.06.19 19.12	1
4,4-DDE	72-55-9	0.00237 U	0.00473	0.00237	U	mg/kg	08.06.19 19.12	1
4,4-DDT	50-29-3	0.000360 U	0.00473	0.000360	U	mg/kg	08.06.19 19.12	1
Aldrin	309-00-2	0.000515 U	0.00473	0.000515	U	mg/kg	08.06.19 19.12	1
Alpha-BHC	319-84-6	0.000966 U	0.00473	0.000966	U	mg/kg	08.06.19 19.12	1
Alpha-Chlordane	5103-71-9	0.000810 U	0.00473	0.000810	U	mg/kg	08.06.19 19.12	1
Beta-BHC	319-85-7	0.000673 U	0.00473	0.000673	U	mg/kg	08.06.19 19.12	1
Delta-BHC	319-86-8	0.00237 U	0.00473	0.00237	U	mg/kg	08.06.19 19.12	1
Dieldrin	60-57-1	0.000241 U	0.00473	0.000241	U	mg/kg	08.06.19 19.12	1
Endosulfan I	959-98-8	0.000287 U	0.00473	0.000287	U	mg/kg	08.06.19 19.12	1
Endosulfan II	33213-65-9	0.000529 U	0.00473	0.000529	U	mg/kg	08.06.19 19.12	1
Endosulfan Sulfate	1031-07-8	0.000392 U	0.00473	0.000392	U	mg/kg	08.06.19 19.12	1
Endrin	72-20-8	0.000413 U	0.00473	0.000413	U	mg/kg	08.06.19 19.12	1
Endrin Aldehyde	7421-93-4	0.000351 U	0.00473	0.000351	U	mg/kg	08.06.19 19.12	1
Endrin Ketone	53494-70-5	0.000512 U	0.00473	0.000512	U	mg/kg	08.06.19 19.12	1
Gamma-BHC (Lindane)	58-89-9	0.000623 U	0.00473	0.000623	U	mg/kg	08.06.19 19.12	1
Gamma-Chlordane	5103-74-2	0.00108 U	0.00473	0.00108	U	mg/kg	08.06.19 19.12	1
Heptachlor	76-44-8	0.000798 U	0.00473	0.000798	U	mg/kg	08.06.19 19.12	1
Heptachlor Epoxide	1024-57-3	0.000348 U	0.00473	0.000348	U	mg/kg	08.06.19 19.12	1
Methoxychlor	72-43-5	0.000720 U	0.00473	0.000720	U	mg/kg	08.06.19 19.12	1
Chlordane	12789-03-6	0.0339 U	0.118	0.0339	U	mg/kg	08.06.19 19.12	1
Toxaphene	8001-35-2	0.0161 U	0.118	0.0161	U	mg/kg	08.06.19 19.12	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	54	%	35-135	08.06.19 19.12	
Decachlorobiphenyl	2051-24-3	71	%	25-143	08.06.19 19.12	

Certificate of Analytical Results 632441

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-8 (0-6")** Matrix: Soil Date Received:07.30.19 11.10
Lab Sample Id: 632441-015 Date Collected: 07.29.19 13.46 Sample Depth: 0 - 6

Analytical Method: SPLP Ammonia By EPA 350.1 Prep Method: E350.1P
Tech: KCS % Moisture:
Analyst: KCS Date Prep: 08.07.19 09.00
Seq Number: 3097787 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Ammonia (as N)	7664-41-7	**0.149**	0.100	0.0345		mg/L	08.07.19 15.24	1

Analytical Method: SPLP Nitrate-Nitrite by E353.2 Prep Method: E353.2P
Tech: KCS % Moisture:
Analyst: KCS Date Prep: 08.05.19 11.08
Seq Number: 3097530 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Nitrate-Nitrite	7727-37-9	**0.0882**	0.100	0.0283	I	mg/L	08.05.19 12.50	1

Certificate of Analytical Results 632441

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id:	**CS-8 (6"-24")**	Matrix:	Soil	Date Received:	07.30.19 11.10
Lab Sample Id:	632441-016	Date Collected:	07.29.19 13.46	Sample Depth:	6 - 24
Analytical Method:	Metals, Total by SW846 6010C			Prep Method:	SW3050B
Tech:	PJB			% Moisture:	27.1
Analyst:	DEP	Date Prep:	08.02.19 10.30	Basis:	Dry Weight
Seq Number:	3097481			SUB:	E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Arsenic	7440-38-2	0.510 U	2.41	0.510	U	mg/kg	08.04.19 15.01	1
Chromium	7440-47-3	**0.664**	1.20	0.0847	I	mg/kg	08.04.19 15.01	1
Copper	7440-50-8	**1.27**	2.41	0.533	I	mg/kg	08.04.19 15.01	1
Iron	7439-89-6	**1020**	24.1	3.24		mg/kg	08.04.19 15.01	1
Lead	7439-92-1	0.572 U	2.41	0.572	U	mg/kg	08.04.19 15.01	1
Manganese	7439-96-5	**199**	2.41	0.334		mg/kg	08.04.19 15.01	1

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Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-8 (6"-24")** Matrix: Soil Date Received:07.30.19 11.10

Lab Sample Id: 632441-016 Date Collected: 07.29.19 13.46 Sample Depth: 6 - 24

Analytical Method: EPA 8141 Organophosphorus Pesticides by GC Prep Method: SW3550

Tech: BNS % Moisture:

Analyst: CHD Date Prep: 08.02.19 13.30 Basis: Wet Weight

Seq Number: 3097570 SUB: E871146

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
azinphos-methyl	86-50-0	0.00164 U	0.00329	0.00164	UJ	mg/kg	08.06.19 23.38	1
Chlorpyrifos	2921-88-2	0.00164 U	0.00329	0.00164	U	mg/kg	08.06.19 23.38	1
Coumaphos	56-72-4	0.00164 U	0.00329	0.00164	UJ	mg/kg	08.06.19 23.38	1
Demeton-O	298-03-3	0.00164 U	0.00329	0.00164	U	mg/kg	08.06.19 23.38	1
Demeton-S	126-75-0	0.00164 U	0.00329	0.00164	U	mg/kg	08.06.19 23.38	1
Diazinon	333-41-5	0.00164 U	0.00329	0.00164	U	mg/kg	08.06.19 23.38	1
Dimethoate	60-51-5	0.00164 U	0.00329	0.00164	U	mg/kg	08.06.19 23.38	1
EPN (Ent)	2104-64-5	0.00164 U	0.00329	0.00164	U	mg/kg	08.06.19 23.38	1
Ethoprop	13194-48-4	0.00164 U	0.00329	0.00164	U	mg/kg	08.06.19 23.38	1
Famphur	52-85-7	0.00164 U	0.00329	0.00164	U	mg/kg	08.06.19 23.38	1
Fenthion	55-38-9	0.00164 U	0.00329	0.00164	U	mg/kg	08.06.19 23.38	1
Malathion	121-75-5	0.00164 U	0.00329	0.00164	U	mg/kg	08.06.19 23.38	1
Merphos	150-50-5	0.00164 U	0.00329	0.00164	UJ	mg/kg	08.06.19 23.38	1
Mevinphos	7786-34-7	0.00164 U	0.00329	0.00164	U	mg/kg	08.06.19 23.38	1
Monocrotophos	2157-98-4	0.00164 U	0.00329	0.00164	UJ	mg/kg	08.06.19 23.38	1
Naled	300-76-5	0.00164 U	0.00329	0.00164	U	mg/kg	08.06.19 23.38	1
Parathion, Ethyl	56-38-2	0.00164 U	0.00329	0.00164	U	mg/kg	08.06.19 23.38	1
Parathion, Methyl	298-00-0	0.00164 U	0.00329	0.00164	U	mg/kg	08.06.19 23.38	1
Phorate	298-02-2	0.00164 U	0.00329	0.00164	U	mg/kg	08.06.19 23.38	1
Ronnel	299-84-3	0.00164 U	0.00329	0.00164	U	mg/kg	08.06.19 23.38	1
stirophos	22248-79-9	0.00164 U	0.00329	0.00164	U	mg/kg	08.06.19 23.38	1
Sulfotep	3689-24-5	0.00164 U	0.00329	0.00164	U	mg/kg	08.06.19 23.38	1
Sulprofos	35400-43-2	0.00164 U	0.00329	0.00164	U	mg/kg	08.06.19 23.38	1
TEPP	21646-99-1	0.00164 U	0.00329	0.00164	U	mg/kg	08.06.19 23.38	1
Tokuthion	34643-46-4	0.00164 U	0.00329	0.00164	U	mg/kg	08.06.19 23.38	1
Trichloronate	327-98-0	0.00164 U	0.00329	0.00164	U	mg/kg	08.06.19 23.38	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tributyl Phosphate	126-73-8	71	%	38-123	08.06.19 23.38	

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Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id:	**CS-8 (6"-24")**	Matrix:	Soil	Date Received:	07.30.19 11.10
Lab Sample Id:	632441-016	Date Collected:	07.29.19 13.46	Sample Depth:	6 - 24
Analytical Method:	Pesticides by SW-846 8081B			Prep Method:	SW3550
Tech:	JSE			% Moisture:	27.1
Analyst:	MCK	Date Prep:	08.06.19 08.30	Basis:	Dry Weight
Seq Number:	3097724			SUB:	E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
4,4-DDD	72-54-8	0.00106 U	0.00456	0.00106	U	mg/kg	08.06.19 19.39	1
4,4-DDE	72-55-9	0.00228 U	0.00456	0.00228	U	mg/kg	08.06.19 19.39	1
4,4-DDT	50-29-3	0.000348 U	0.00456	0.000348	U	mg/kg	08.06.19 19.39	1
Aldrin	309-00-2	0.000497 U	0.00456	0.000497	U	mg/kg	08.06.19 19.39	1
Alpha-BHC	319-84-6	0.000931 U	0.00456	0.000931	U	mg/kg	08.06.19 19.39	1
Alpha-Chlordane	5103-71-9	0.000781 U	0.00456	0.000781	U	mg/kg	08.06.19 19.39	1
Beta-BHC	319-85-7	0.000649 U	0.00456	0.000649	U	mg/kg	08.06.19 19.39	1
Delta-BHC	319-86-8	0.00228 U	0.00456	0.00228	U	mg/kg	08.06.19 19.39	1
Dieldrin	60-57-1	0.000232 U	0.00456	0.000232	U	mg/kg	08.06.19 19.39	1
Endosulfan I	959-98-8	0.000276 U	0.00456	0.000276	U	mg/kg	08.06.19 19.39	1
Endosulfan II	33213-65-9	0.000510 U	0.00456	0.000510	U	mg/kg	08.06.19 19.39	1
Endosulfan Sulfate	1031-07-8	0.000378 U	0.00456	0.000378	U	mg/kg	08.06.19 19.39	1
Endrin	72-20-8	0.000398 U	0.00456	0.000398	U	mg/kg	08.06.19 19.39	1
Endrin Aldehyde	7421-93-4	0.000339 U	0.00456	0.000339	U	mg/kg	08.06.19 19.39	1
Endrin Ketone	53494-70-5	0.000494 U	0.00456	0.000494	U	mg/kg	08.06.19 19.39	1
Gamma-BHC (Lindane)	58-89-9	0.000601 U	0.00456	0.000601	U	mg/kg	08.06.19 19.39	1
Gamma-Chlordane	5103-74-2	0.00105 U	0.00456	0.00105	U	mg/kg	08.06.19 19.39	1
Heptachlor	76-44-8	0.000770 U	0.00456	0.000770	U	mg/kg	08.06.19 19.39	1
Heptachlor Epoxide	1024-57-3	0.000335 U	0.00456	0.000335	U	mg/kg	08.06.19 19.39	1
Methoxychlor	72-43-5	0.000694 U	0.00456	0.000694	U	mg/kg	08.06.19 19.39	1
Chlordane	12789-03-6	0.0327 U	0.114	0.0327	U	mg/kg	08.06.19 19.39	1
Toxaphene	8001-35-2	0.0155 U	0.114	0.0155	U	mg/kg	08.06.19 19.39	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	49	%	35-135	08.06.19 19.39	
Decachlorobiphenyl	2051-24-3	71	%	25-143	08.06.19 19.39	

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Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-8 (6"-24")** Matrix: Soil Date Received:07.30.19 11.10

Lab Sample Id: 632441-016 Date Collected: 07.29.19 13.46 Sample Depth: 6 - 24

Analytical Method: SPLP Ammonia By EPA 350.1 Prep Method: E350.1P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.07.19 09.00

Seq Number: 3097787 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Ammonia (as N)	7664-41-7	**0.109**	0.100	0.0345		mg/L	08.07.19 15.25	1

Analytical Method: SPLP Nitrate-Nitrite by E353.2 Prep Method: E353.2P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.05.19 11.08

Seq Number: 3097530 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Nitrate-Nitrite	7727-37-9	**0.0442**	0.100	0.0283	I	mg/L	08.05.19 12.52	1

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Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id:	**CS-9 (0-6")**	Matrix:	Soil	Date Received:	07.30.19 11.10
Lab Sample Id:	632441-017	Date Collected:	07.29.19 13.54	Sample Depth:	0 - 6
Analytical Method:	Metals, Total by SW846 6010C			Prep Method:	SW3050B
Tech:	PJB			% Moisture:	34.81
Analyst:	DEP	Date Prep:	08.02.19 10.30	Basis:	Dry Weight
Seq Number:	3097481			SUB:	E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Arsenic	7440-38-2	0.570 U	2.69	0.570	U	mg/kg	08.04.19 15.05	1
Chromium	7440-47-3	**10.3**	1.35	0.0947		mg/kg	08.04.19 15.05	1
Copper	7440-50-8	**31.9**	2.69	0.596		mg/kg	08.04.19 15.05	1
Iron	7439-89-6	**1520**	26.9	3.63		mg/kg	08.04.19 15.05	1
Lead	7439-92-1	**10.6**	2.69	0.640		mg/kg	08.04.19 15.05	1
Manganese	7439-96-5	**223**	2.69	0.373		mg/kg	08.04.19 15.05	1

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Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-9 (0-6")** Matrix: Soil Date Received:07.30.19 11.10

Lab Sample Id: 632441-017 Date Collected: 07.29.19 13.54 Sample Depth: 0 - 6

Analytical Method: EPA 8141 Organophosphorus Pesticides by GC Prep Method: SW3550

Tech: BNS % Moisture:

Analyst: CHD Date Prep: 08.02.19 13.30 Basis: Wet Weight

Seq Number: 3097570 SUB: E871146

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
azinphos-methyl	86-50-0	0.00167 U	0.00333	0.00167	UJ	mg/kg	08.07.19 00.09	1
Chlorpyrifos	2921-88-2	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 00.09	1
Coumaphos	56-72-4	0.00167 U	0.00333	0.00167	UJ	mg/kg	08.07.19 00.09	1
Demeton-O	298-03-3	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 00.09	1
Demeton-S	126-75-0	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 00.09	1
Diazinon	333-41-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 00.09	1
Dimethoate	60-51-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 00.09	1
EPN (Ent)	2104-64-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 00.09	1
Ethoprop	13194-48-4	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 00.09	1
Famphur	52-85-7	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 00.09	1
Fenthion	55-38-9	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 00.09	1
Malathion	121-75-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 00.09	1
Merphos	150-50-5	0.00167 U	0.00333	0.00167	UJ	mg/kg	08.07.19 00.09	1
Mevinphos	7786-34-7	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 00.09	1
Monocrotophos	2157-98-4	0.00167 U	0.00333	0.00167	UJ	mg/kg	08.07.19 00.09	1
Naled	300-76-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 00.09	1
Parathion, Ethyl	56-38-2	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 00.09	1
Parathion, Methyl	298-00-0	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 00.09	1
Phorate	298-02-2	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 00.09	1
Ronnel	299-84-3	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 00.09	1
stirophos	22248-79-9	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 00.09	1
Sulfotep	3689-24-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 00.09	1
Sulprofos	35400-43-2	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 00.09	1
TEPP	21646-99-1	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 00.09	1
Tokuthion	34643-46-4	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 00.09	1
Trichloronate	327-98-0	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 00.09	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tributyl Phosphate	126-73-8	89	%	38-123	08.07.19 00.09	

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Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id:	**CS-9 (0-6")**	Matrix:	Soil	Date Received:	07.30.19 11.10
Lab Sample Id:	632441-017	Date Collected:	07.29.19 13.54	Sample Depth:	0 - 6
Analytical Method:	Pesticides by SW-846 8081B			Prep Method:	SW3550
Tech:	JSE			% Moisture:	34.81
Analyst:	MCK	Date Prep:	08.06.19 08.33	Basis:	Dry Weight
Seq Number:	3097724			SUB:	E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
4,4-DDD	72-54-8	0.00118 U	0.00511	0.00118	U	mg/kg	08.06.19 19.53	1
4,4-DDE	72-55-9	0.00255 U	0.00511	0.00255	U	mg/kg	08.06.19 19.53	1
4,4-DDT	50-29-3	**0.00227**	0.00511	0.000389	I	mg/kg	08.06.19 19.53	1
Aldrin	309-00-2	0.000556 U	0.00511	0.000556	U	mg/kg	08.06.19 19.53	1
Alpha-BHC	319-84-6	0.00104 U	0.00511	0.00104	U	mg/kg	08.06.19 19.53	1
Alpha-Chlordane	5103-71-9	0.000874 U	0.00511	0.000874	U	mg/kg	08.06.19 19.53	1
Beta-BHC	319-85-7	0.000726 U	0.00511	0.000726	U	mg/kg	08.06.19 19.53	1
Delta-BHC	319-86-8	0.00255 U	0.00511	0.00255	U	mg/kg	08.06.19 19.53	1
Dieldrin	60-57-1	0.000259 U	0.00511	0.000259	U	mg/kg	08.06.19 19.53	1
Endosulfan I	959-98-8	0.000309 U	0.00511	0.000309	U	mg/kg	08.06.19 19.53	1
Endosulfan II	33213-65-9	0.000570 U	0.00511	0.000570	U	mg/kg	08.06.19 19.53	1
Endosulfan Sulfate	1031-07-8	0.000423 U	0.00511	0.000423	U	mg/kg	08.06.19 19.53	1
Endrin	72-20-8	0.000445 U	0.00511	0.000445	U	mg/kg	08.06.19 19.53	1
Endrin Aldehyde	7421-93-4	0.000379 U	0.00511	0.000379	U	mg/kg	08.06.19 19.53	1
Endrin Ketone	53494-70-5	0.000553 U	0.00511	0.000553	U	mg/kg	08.06.19 19.53	1
Gamma-BHC (Lindane)	58-89-9	0.000672 U	0.00511	0.000672	U	mg/kg	08.06.19 19.53	1
Gamma-Chlordane	5103-74-2	0.00117 U	0.00511	0.00117	U	mg/kg	08.06.19 19.53	1
Heptachlor	76-44-8	0.000861 U	0.00511	0.000861	U	mg/kg	08.06.19 19.53	1
Heptachlor Epoxide	1024-57-3	0.000375 U	0.00511	0.000375	U	mg/kg	08.06.19 19.53	1
Methoxychlor	72-43-5	0.000776 U	0.00511	0.000776	U	mg/kg	08.06.19 19.53	1
Chlordane	12789-03-6	0.0366 U	0.128	0.0366	U	mg/kg	08.06.19 19.53	1
Toxaphene	8001-35-2	0.0173 U	0.128	0.0173	U	mg/kg	08.06.19 19.53	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	40	%	35-135	08.06.19 19.53	
Decachlorobiphenyl	2051-24-3	64	%	25-143	08.06.19 19.53	

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Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-9 (0-6")** Matrix: Soil Date Received:07.30.19 11.10
Lab Sample Id: 632441-017 Date Collected: 07.29.19 13.54 Sample Depth: 0 - 6

Analytical Method: SPLP Ammonia By EPA 350.1 Prep Method: E350.1P
Tech: KCS % Moisture:
Analyst: KCS Date Prep: 08.07.19 09.00
Seq Number: 3097787 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Ammonia (as N)	7664-41-7	**0.376**	0.100	0.0345		mg/L	08.07.19 15.26	1

Analytical Method: SPLP Nitrate-Nitrite by E353.2 Prep Method: E353.2P
Tech: KCS % Moisture:
Analyst: KCS Date Prep: 08.05.19 11.08
Seq Number: 3097530 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Nitrate-Nitrite	7727-37-9	**0.100**	0.100	0.0283	I	mg/L	08.05.19 12.53	1

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Proposed Publix

Sample Id:	**CS-9 (6"-24")**	Matrix:	Soil	Date Received:	07.30.19 11.10
Lab Sample Id:	632441-018	Date Collected:	07.29.19 13.54	Sample Depth:	6 - 24
Analytical Method:	Metals, Total by SW846 6010C			Prep Method:	SW3050B
Tech:	PJB			% Moisture:	31.23
Analyst:	DEP	Date Prep:	08.02.19 10.30	Basis:	Dry Weight
Seq Number:	3097481			SUB:	E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Arsenic	7440-38-2	0.522 U	2.46	0.522	U	mg/kg	08.04.19 15.09	1
Chromium	7440-47-3	0.0867 U	1.23	0.0867	U	mg/kg	08.04.19 15.09	1
Copper	7440-50-8	0.546 U	2.46	0.546	U	mg/kg	08.04.19 15.09	1
Iron	7439-89-6	**1140**	24.6	3.32		mg/kg	08.04.19 15.09	1
Lead	7439-92-1	0.586 U	2.46	0.586	U	mg/kg	08.04.19 15.09	1
Manganese	7439-96-5	**26.2**	2.46	0.342		mg/kg	08.04.19 15.09	1

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Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-9 (6"-24")** Matrix: Soil Date Received:07.30.19 11.10

Lab Sample Id: 632441-018 Date Collected: 07.29.19 13.54 Sample Depth: 6 - 24

Analytical Method: EPA 8141 Organophosphorus Pesticides by GC Prep Method: SW3550

Tech: BNS % Moisture:

Analyst: CHD Date Prep: 08.02.19 13.30 Basis: Wet Weight

Seq Number: 3097570 SUB: E871146

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
azinphos-methyl	86-50-0	0.00167 U	0.00333	0.00167	UJ	mg/kg	08.07.19 00.40	1
Chlorpyrifos	2921-88-2	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 00.40	1
Coumaphos	56-72-4	0.00167 U	0.00333	0.00167	UJ	mg/kg	08.07.19 00.40	1
Demeton-O	298-03-3	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 00.40	1
Demeton-S	126-75-0	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 00.40	1
Diazinon	333-41-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 00.40	1
Dimethoate	60-51-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 00.40	1
EPN (Ent)	2104-64-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 00.40	1
Ethoprop	13194-48-4	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 00.40	1
Famphur	52-85-7	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 00.40	1
Fenthion	55-38-9	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 00.40	1
Malathion	121-75-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 00.40	1
Merphos	150-50-5	0.00167 U	0.00333	0.00167	UJ	mg/kg	08.07.19 00.40	1
Mevinphos	7786-34-7	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 00.40	1
Monocrotophos	2157-98-4	0.00167 U	0.00333	0.00167	UJ	mg/kg	08.07.19 00.40	1
Naled	300-76-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 00.40	1
Parathion, Ethyl	56-38-2	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 00.40	1
Parathion, Methyl	298-00-0	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 00.40	1
Phorate	298-02-2	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 00.40	1
Ronnel	299-84-3	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 00.40	1
stirophos	22248-79-9	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 00.40	1
Sulfotep	3689-24-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 00.40	1
Sulprofos	35400-43-2	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 00.40	1
TEPP	21646-99-1	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 00.40	1
Tokuthion	34643-46-4	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 00.40	1
Trichloronate	327-98-0	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 00.40	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tributyl Phosphate	126-73-8	84	%	38-123	08.07.19 00.40	

Certificate of Analytical Results 632441

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-9 (6"-24")**
Lab Sample Id: 632441-018

Matrix: Soil
Date Collected: 07.29.19 13.54

Date Received: 07.30.19 11.10
Sample Depth: 6 - 24

Analytical Method: Pesticides by SW-846 8081B
Tech: JSE
Analyst: MCK
Seq Number: 3097724

Date Prep: 08.06.19 08.36

Prep Method: SW3550
% Moisture: 31.23
Basis: Dry Weight
SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
4,4-DDD	72-54-8	0.00112 U	0.00485	0.00112	U	mg/kg	08.06.19 20.07	1
4,4-DDE	72-55-9	0.00242 U	0.00485	0.00242	U	mg/kg	08.06.19 20.07	1
4,4-DDT	50-29-3	0.000369 U	0.00485	0.000369	U	mg/kg	08.06.19 20.07	1
Aldrin	309-00-2	0.000527 U	0.00485	0.000527	U	mg/kg	08.06.19 20.07	1
Alpha-BHC	319-84-6	0.000989 U	0.00485	0.000989	U	mg/kg	08.06.19 20.07	1
Alpha-Chlordane	5103-71-9	0.000829 U	0.00485	0.000829	U	mg/kg	08.06.19 20.07	1
Beta-BHC	319-85-7	0.000689 U	0.00485	0.000689	U	mg/kg	08.06.19 20.07	1
Delta-BHC	319-86-8	0.00242 U	0.00485	0.00242	U	mg/kg	08.06.19 20.07	1
Dieldrin	60-57-1	0.000246 U	0.00485	0.000246	U	mg/kg	08.06.19 20.07	1
Endosulfan I	959-98-8	0.000293 U	0.00485	0.000293	U	mg/kg	08.06.19 20.07	1
Endosulfan II	33213-65-9	0.000541 U	0.00485	0.000541	U	mg/kg	08.06.19 20.07	1
Endosulfan Sulfate	1031-07-8	0.000401 U	0.00485	0.000401	U	mg/kg	08.06.19 20.07	1
Endrin	72-20-8	0.000423 U	0.00485	0.000423	U	mg/kg	08.06.19 20.07	1
Endrin Aldehyde	7421-93-4	0.000360 U	0.00485	0.000360	U	mg/kg	08.06.19 20.07	1
Endrin Ketone	53494-70-5	0.000524 U	0.00485	0.000524	U	mg/kg	08.06.19 20.07	1
Gamma-BHC (Lindane)	58-89-9	0.000638 U	0.00485	0.000638	U	mg/kg	08.06.19 20.07	1
Gamma-Chlordane	5103-74-2	0.00111 U	0.00485	0.00111	U	mg/kg	08.06.19 20.07	1
Heptachlor	76-44-8	0.000817 U	0.00485	0.000817	U	mg/kg	08.06.19 20.07	1
Heptachlor Epoxide	1024-57-3	0.000356 U	0.00485	0.000356	U	mg/kg	08.06.19 20.07	1
Methoxychlor	72-43-5	0.000737 U	0.00485	0.000737	U	mg/kg	08.06.19 20.07	1
Chlordane	12789-03-6	0.0347 U	0.121	0.0347	U	mg/kg	08.06.19 20.07	1
Toxaphene	8001-35-2	0.0165 U	0.121	0.0165	U	mg/kg	08.06.19 20.07	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	40	%	35-135	08.06.19 20.07	
Decachlorobiphenyl	2051-24-3	66	%	25-143	08.06.19 20.07	

Certificate of Analytical Results 632441

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-9 (6"-24")** Matrix: Soil Date Received:07.30.19 11.10

Lab Sample Id: 632441-018 Date Collected: 07.29.19 13.54 Sample Depth: 6 - 24

Analytical Method: SPLP Ammonia By EPA 350.1 Prep Method: E350.1P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.07.19 09.00

Seq Number: 3097787 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Ammonia (as N)	7664-41-7	**0.0358**	0.100	0.0345	I	mg/L	08.07.19 15.27	1

Analytical Method: SPLP Nitrate-Nitrite by E353.2 Prep Method: E353.2P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.05.19 11.08

Seq Number: 3097530 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Nitrate-Nitrite	7727-37-9	**0.0633**	0.100	0.0283	I	mg/L	08.05.19 12.55	1

Certificate of Analytical Results 632441

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id:	**CS-10 (0-6")**	Matrix:	Soil	Date Received:	07.30.19 11.10
Lab Sample Id:	632441-019	Date Collected:	07.29.19 14.05	Sample Depth:	0 - 6
Analytical Method:	Metals, Total by SW846 6010C			Prep Method:	SW3050B
Tech:	PJB			% Moisture:	30.13
Analyst:	DEP	Date Prep:	08.02.19 10.30	Basis:	Dry Weight
Seq Number:	3097481			SUB:	E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Arsenic	7440-38-2	**1.94**	2.47	0.523	I	mg/kg	08.04.19 15.13	1
Chromium	7440-47-3	**13.5**	1.23	0.0868		mg/kg	08.04.19 15.13	1
Copper	7440-50-8	**36.9**	2.47	0.547		mg/kg	08.04.19 15.13	1
Iron	7439-89-6	**1570**	24.7	3.33		mg/kg	08.04.19 15.13	1
Lead	7439-92-1	**12.5**	2.47	0.587		mg/kg	08.04.19 15.13	1
Manganese	7439-96-5	**295**	2.47	0.342		mg/kg	08.04.19 15.13	1

Certificate of Analytical Results 632441

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-10 (0-6")** Matrix: Soil Date Received:07.30.19 11.10

Lab Sample Id: 632441-019 Date Collected: 07.29.19 14.05 Sample Depth: 0 - 6

Analytical Method: EPA 8141 Organophosphorus Pesticides by GC Prep Method: SW3550

Tech: BNS % Moisture:

Analyst: CHD Date Prep: 08.02.19 13.30 Basis: Wet Weight

Seq Number: 3097570 SUB: E871146

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
azinphos-methyl	86-50-0	0.00167 U	0.00333	0.00167	UJ	mg/kg	08.07.19 01.12	1
Chlorpyrifos	2921-88-2	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 01.12	1
Coumaphos	56-72-4	0.00167 U	0.00333	0.00167	UJ	mg/kg	08.07.19 01.12	1
Demeton-O	298-03-3	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 01.12	1
Demeton-S	126-75-0	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 01.12	1
Diazinon	333-41-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 01.12	1
Dimethoate	60-51-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 01.12	1
EPN (Ent)	2104-64-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 01.12	1
Ethoprop	13194-48-4	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 01.12	1
Famphur	52-85-7	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 01.12	1
Fenthion	55-38-9	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 01.12	1
Malathion	121-75-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 01.12	1
Merphos	150-50-5	0.00167 U	0.00333	0.00167	UJ	mg/kg	08.07.19 01.12	1
Mevinphos	7786-34-7	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 01.12	1
Monocrotophos	2157-98-4	0.00167 U	0.00333	0.00167	UJ	mg/kg	08.07.19 01.12	1
Naled	300-76-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 01.12	1
Parathion, Ethyl	56-38-2	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 01.12	1
Parathion, Methyl	298-00-0	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 01.12	1
Phorate	298-02-2	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 01.12	1
Ronnel	299-84-3	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 01.12	1
stirophos	22248-79-9	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 01.12	1
Sulfotep	3689-24-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 01.12	1
Sulprofos	35400-43-2	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 01.12	1
TEPP	21646-99-1	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 01.12	1
Tokuthion	34643-46-4	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 01.12	1
Trichloronate	327-98-0	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 01.12	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tributyl Phosphate	126-73-8	83	%	38-123	08.07.19 01.12	

Certificate of Analytical Results 632441

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-10 (0-6")**
Lab Sample Id: 632441-019

Matrix: Soil
Date Collected: 07.29.19 14.05

Date Received: 07.30.19 11.10
Sample Depth: 0 - 6

Analytical Method: Pesticides by SW-846 8081B
Tech: JSE
Analyst: MCK
Seq Number: 3097724

Date Prep: 08.06.19 08.39

Prep Method: SW3550
% Moisture: 30.13
Basis: Dry Weight
SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
4,4-DDD	72-54-8	0.00110 U	0.00477	0.00110	U	mg/kg	08.06.19 20.20	1
4,4-DDE	72-55-9	0.00239 U	0.00477	0.00239	U	mg/kg	08.06.19 20.20	1
4,4-DDT	50-29-3	0.000363 U	0.00477	0.000363	U	mg/kg	08.06.19 20.20	1
Aldrin	309-00-2	0.000519 U	0.00477	0.000519	U	mg/kg	08.06.19 20.20	1
Alpha-BHC	319-84-6	0.000974 U	0.00477	0.000974	U	mg/kg	08.06.19 20.20	1
Alpha-Chlordane	5103-71-9	0.000817 U	0.00477	0.000817	U	mg/kg	08.06.19 20.20	1
Beta-BHC	319-85-7	0.000678 U	0.00477	0.000678	U	mg/kg	08.06.19 20.20	1
Delta-BHC	319-86-8	0.00239 U	0.00477	0.00239	U	mg/kg	08.06.19 20.20	1
Dieldrin	60-57-1	0.000243 U	0.00477	0.000243	U	mg/kg	08.06.19 20.20	1
Endosulfan I	959-98-8	0.000289 U	0.00477	0.000289	U	mg/kg	08.06.19 20.20	1
Endosulfan II	33213-65-9	0.000533 U	0.00477	0.000533	U	mg/kg	08.06.19 20.20	1
Endosulfan Sulfate	1031-07-8	0.000395 U	0.00477	0.000395	U	mg/kg	08.06.19 20.20	1
Endrin	72-20-8	0.000416 U	0.00477	0.000416	U	mg/kg	08.06.19 20.20	1
Endrin Aldehyde	7421-93-4	0.000354 U	0.00477	0.000354	U	mg/kg	08.06.19 20.20	1
Endrin Ketone	53494-70-5	0.000517 U	0.00477	0.000517	U	mg/kg	08.06.19 20.20	1
Gamma-BHC (Lindane)	58-89-9	0.000628 U	0.00477	0.000628	U	mg/kg	08.06.19 20.20	1
Gamma-Chlordane	5103-74-2	0.00109 U	0.00477	0.00109	U	mg/kg	08.06.19 20.20	1
Heptachlor	76-44-8	0.000805 U	0.00477	0.000805	U	mg/kg	08.06.19 20.20	1
Heptachlor Epoxide	1024-57-3	0.000351 U	0.00477	0.000351	U	mg/kg	08.06.19 20.20	1
Methoxychlor	72-43-5	0.000725 U	0.00477	0.000725	U	mg/kg	08.06.19 20.20	1
Chlordane	12789-03-6	0.0342 U	0.119	0.0342	U	mg/kg	08.06.19 20.20	1
Toxaphene	8001-35-2	0.0162 U	0.119	0.0162	U	mg/kg	08.06.19 20.20	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	54	%	35-135	08.06.19 20.20	
Decachlorobiphenyl	2051-24-3	75	%	25-143	08.06.19 20.20	

Certificate of Analytical Results 632441

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-10 (0-6")** Matrix: Soil Date Received:07.30.19 11.10
Lab Sample Id: 632441-019 Date Collected: 07.29.19 14.05 Sample Depth: 0 - 6

Analytical Method: SPLP Ammonia By EPA 350.1 Prep Method: E350.1P
Tech: KCS % Moisture:
Analyst: KCS Date Prep: 08.07.19 09.00
Seq Number: 3097787 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Ammonia (as N)	7664-41-7	**0.121**	0.100	0.0345		mg/L	08.07.19 15.30	1

Analytical Method: SPLP Nitrate-Nitrite by E353.2 Prep Method: E353.2P
Tech: KCS % Moisture:
Analyst: KCS Date Prep: 08.05.19 11.08
Seq Number: 3097530 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Nitrate-Nitrite	7727-37-9	**0.126**	0.100	0.0283		mg/L	08.05.19 12.57	1

Certificate of Analytical Results 632441

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id:	**CS-10 (6"-24")**	Matrix:	Soil	Date Received:	07.30.19 11.10
Lab Sample Id:	632441-020	Date Collected:	07.29.19 14.05	Sample Depth:	6 - 24
Analytical Method:	Metals, Total by SW846 6010C			Prep Method:	SW3050B
Tech:	PJB			% Moisture:	28.51
Analyst:	DEP	Date Prep:	08.02.19 10.30	Basis:	Dry Weight
Seq Number:	3097481			SUB:	E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Arsenic	7440-38-2	0.502 U	2.37	0.502	U	mg/kg	08.04.19 15.17	1
Chromium	7440-47-3	0.0834 U	1.19	0.0834	U	mg/kg	08.04.19 15.17	1
Copper	7440-50-8	0.525 U	2.37	0.525	U	mg/kg	08.04.19 15.17	1
Iron	7439-89-6	**1800**	23.7	3.20		mg/kg	08.04.19 15.17	1
Lead	7439-92-1	0.564 U	2.37	0.564	U	mg/kg	08.04.19 15.17	1
Manganese	7439-96-5	**29.1**	2.37	0.329		mg/kg	08.04.19 15.17	1

Certificate of Analytical Results 632441

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-10 (6"-24")** Matrix: Soil Date Received:07.30.19 11.10

Lab Sample Id: 632441-020 Date Collected: 07.29.19 14.05 Sample Depth: 6 - 24

Analytical Method: EPA 8141 Organophosphorus Pesticides by GC Prep Method: SW3550

Tech: BNS % Moisture:

Analyst: CHD Date Prep: 08.02.19 13.30 Basis: Wet Weight

Seq Number: 3097570 SUB: E871146

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
azinphos-methyl	86-50-0	0.00162 U	0.00325	0.00162	UJ	mg/kg	08.07.19 01.43	1
Chlorpyrifos	2921-88-2	0.00162 U	0.00325	0.00162	U	mg/kg	08.07.19 01.43	1
Coumaphos	56-72-4	0.00162 U	0.00325	0.00162	UJ	mg/kg	08.07.19 01.43	1
Demeton-O	298-03-3	0.00162 U	0.00325	0.00162	U	mg/kg	08.07.19 01.43	1
Demeton-S	126-75-0	0.00162 U	0.00325	0.00162	U	mg/kg	08.07.19 01.43	1
Diazinon	333-41-5	0.00162 U	0.00325	0.00162	U	mg/kg	08.07.19 01.43	1
Dimethoate	60-51-5	0.00162 U	0.00325	0.00162	U	mg/kg	08.07.19 01.43	1
EPN (Ent)	2104-64-5	0.00162 U	0.00325	0.00162	U	mg/kg	08.07.19 01.43	1
Ethoprop	13194-48-4	0.00162 U	0.00325	0.00162	U	mg/kg	08.07.19 01.43	1
Famphur	52-85-7	0.00162 U	0.00325	0.00162	U	mg/kg	08.07.19 01.43	1
Fenthion	55-38-9	0.00162 U	0.00325	0.00162	U	mg/kg	08.07.19 01.43	1
Malathion	121-75-5	0.00162 U	0.00325	0.00162	U	mg/kg	08.07.19 01.43	1
Merphos	150-50-5	0.00162 U	0.00325	0.00162	UJ	mg/kg	08.07.19 01.43	1
Mevinphos	7786-34-7	0.00162 U	0.00325	0.00162	U	mg/kg	08.07.19 01.43	1
Monocrotophos	2157-98-4	0.00162 U	0.00325	0.00162	UJ	mg/kg	08.07.19 01.43	1
Naled	300-76-5	0.00162 U	0.00325	0.00162	U	mg/kg	08.07.19 01.43	1
Parathion, Ethyl	56-38-2	0.00162 U	0.00325	0.00162	U	mg/kg	08.07.19 01.43	1
Parathion, Methyl	298-00-0	0.00162 U	0.00325	0.00162	U	mg/kg	08.07.19 01.43	1
Phorate	298-02-2	0.00162 U	0.00325	0.00162	U	mg/kg	08.07.19 01.43	1
Ronnel	299-84-3	0.00162 U	0.00325	0.00162	U	mg/kg	08.07.19 01.43	1
stirophos	22248-79-9	0.00162 U	0.00325	0.00162	U	mg/kg	08.07.19 01.43	1
Sulfotep	3689-24-5	0.00162 U	0.00325	0.00162	U	mg/kg	08.07.19 01.43	1
Sulprofos	35400-43-2	0.00162 U	0.00325	0.00162	U	mg/kg	08.07.19 01.43	1
TEPP	21646-99-1	0.00162 U	0.00325	0.00162	U	mg/kg	08.07.19 01.43	1
Tokuthion	34643-46-4	0.00162 U	0.00325	0.00162	U	mg/kg	08.07.19 01.43	1
Trichloronate	327-98-0	0.00162 U	0.00325	0.00162	U	mg/kg	08.07.19 01.43	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tributyl Phosphate	126-73-8	75	%	38-123	08.07.19 01.43	

Certificate of Analytical Results 632441

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-10 (6"-24")**
Lab Sample Id: 632441-020

Matrix: Soil
Date Collected: 07.29.19 14.05

Date Received: 07.30.19 11.10
Sample Depth: 6 - 24

Analytical Method: Pesticides by SW-846 8081B
Tech: JSE
Analyst: MCK
Seq Number: 3097724

Date Prep: 08.06.19 08.42

Prep Method: SW3550
% Moisture: 28.51
Basis: Dry Weight
SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
4,4-DDD	72-54-8	0.00108 U	0.00467	0.00108	U	mg/kg	08.06.19 20.34	1
4,4-DDE	72-55-9	0.00233 U	0.00467	0.00233	U	mg/kg	08.06.19 20.34	1
4,4-DDT	50-29-3	0.000355 U	0.00467	0.000355	U	mg/kg	08.06.19 20.34	1
Aldrin	309-00-2	0.000508 U	0.00467	0.000508	U	mg/kg	08.06.19 20.34	1
Alpha-BHC	319-84-6	0.000952 U	0.00467	0.000952	U	mg/kg	08.06.19 20.34	1
Alpha-Chlordane	5103-71-9	0.000799 U	0.00467	0.000799	U	mg/kg	08.06.19 20.34	1
Beta-BHC	319-85-7	0.000663 U	0.00467	0.000663	U	mg/kg	08.06.19 20.34	1
Delta-BHC	319-86-8	0.00233 U	0.00467	0.00233	U	mg/kg	08.06.19 20.34	1
Dieldrin	60-57-1	0.000237 U	0.00467	0.000237	U	mg/kg	08.06.19 20.34	1
Endosulfan I	959-98-8	0.000283 U	0.00467	0.000283	U	mg/kg	08.06.19 20.34	1
Endosulfan II	33213-65-9	0.000521 U	0.00467	0.000521	U	mg/kg	08.06.19 20.34	1
Endosulfan Sulfate	1031-07-8	0.000386 U	0.00467	0.000386	U	mg/kg	08.06.19 20.34	1
Endrin	72-20-8	0.000407 U	0.00467	0.000407	U	mg/kg	08.06.19 20.34	1
Endrin Aldehyde	7421-93-4	0.000346 U	0.00467	0.000346	U	mg/kg	08.06.19 20.34	1
Endrin Ketone	53494-70-5	0.000505 U	0.00467	0.000505	U	mg/kg	08.06.19 20.34	1
Gamma-BHC (Lindane)	58-89-9	0.000614 U	0.00467	0.000614	U	mg/kg	08.06.19 20.34	1
Gamma-Chlordane	5103-74-2	0.00107 U	0.00467	0.00107	U	mg/kg	08.06.19 20.34	1
Heptachlor	76-44-8	0.000787 U	0.00467	0.000787	U	mg/kg	08.06.19 20.34	1
Heptachlor Epoxide	1024-57-3	0.000343 U	0.00467	0.000343	U	mg/kg	08.06.19 20.34	1
Methoxychlor	72-43-5	0.000709 U	0.00467	0.000709	U	mg/kg	08.06.19 20.34	1
Chlordane	12789-03-6	0.0335 U	0.117	0.0335	U	mg/kg	08.06.19 20.34	1
Toxaphene	8001-35-2	0.0158 U	0.117	0.0158	U	mg/kg	08.06.19 20.34	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	49	%	35-135	08.06.19 20.34	
Decachlorobiphenyl	2051-24-3	63	%	25-143	08.06.19 20.34	

Certificate of Analytical Results 632441

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-10 (6"-24")** Matrix: Soil Date Received:07.30.19 11.10

Lab Sample Id: 632441-020 Date Collected: 07.29.19 14.05 Sample Depth: 6 - 24

Analytical Method: SPLP Ammonia By EPA 350.1 Prep Method: E350.1P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.07.19 09.00

Seq Number: 3097787 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Ammonia (as N)	7664-41-7	**0.0647**	0.100	0.0345	I	mg/L	08.07.19 15.30	1

Analytical Method: SPLP Nitrate-Nitrite by E353.2 Prep Method: E353.2P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.05.19 11.08

Seq Number: 3097530 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Nitrate-Nitrite	7727-37-9	0.0283 U	0.100	0.0283	U	mg/L	08.05.19 12.58	1

Certificate of Analytical Results 632441

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id:	**CS-11 (0-6")**	Matrix:	Soil	Date Received:	07.30.19 11.10
Lab Sample Id:	632441-021	Date Collected:	07.29.19 14.13	Sample Depth:	0 - 6
Analytical Method:	Metals, Total by SW846 6010C			Prep Method:	SW3050B
Tech:	PJB			% Moisture:	41.74
Analyst:	DEP	Date Prep:	08.02.19 10.30	Basis:	Dry Weight
Seq Number:	3097481			SUB:	E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Arsenic	7440-38-2	**1.89**	2.96	0.627	I	mg/kg	08.04.19 15.22	1
Chromium	7440-47-3	**14.6**	1.48	0.104		mg/kg	08.04.19 15.22	1
Copper	7440-50-8	**39.6**	2.96	0.656		mg/kg	08.04.19 15.22	1
Iron	7439-89-6	**1810**	29.6	3.99		mg/kg	08.04.19 15.22	1
Lead	7439-92-1	**11.9**	2.96	0.704		mg/kg	08.04.19 15.22	1
Manganese	7439-96-5	**285**	2.96	0.411		mg/kg	08.04.19 15.22	1

Certificate of Analytical Results 632441

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-11 (0-6")** Matrix: Soil Date Received:07.30.19 11.10

Lab Sample Id: 632441-021 Date Collected: 07.29.19 14.13 Sample Depth: 0 - 6

Analytical Method: EPA 8141 Organophosphorus Pesticides by GC Prep Method: SW3550

Tech: BNS % Moisture:

Analyst: CHD Date Prep: 08.02.19 13.30 Basis: Wet Weight

Seq Number: 3097570 SUB: E871146

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
azinphos-methyl	86-50-0	0.00167 U	0.00333	0.00167	UJ	mg/kg	08.07.19 02.15	1
Chlorpyrifos	2921-88-2	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 02.15	1
Coumaphos	56-72-4	0.00167 U	0.00333	0.00167	UJ	mg/kg	08.07.19 02.15	1
Demeton-O	298-03-3	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 02.15	1
Demeton-S	126-75-0	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 02.15	1
Diazinon	333-41-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 02.15	1
Dimethoate	60-51-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 02.15	1
EPN (Ent)	2104-64-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 02.15	1
Ethoprop	13194-48-4	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 02.15	1
Famphur	52-85-7	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 02.15	1
Fenthion	55-38-9	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 02.15	1
Malathion	121-75-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 02.15	1
Merphos	150-50-5	0.00167 U	0.00333	0.00167	UJ	mg/kg	08.07.19 02.15	1
Mevinphos	7786-34-7	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 02.15	1
Monocrotophos	2157-98-4	0.00167 U	0.00333	0.00167	UJ	mg/kg	08.07.19 02.15	1
Naled	300-76-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 02.15	1
Parathion, Ethyl	56-38-2	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 02.15	1
Parathion, Methyl	298-00-0	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 02.15	1
Phorate	298-02-2	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 02.15	1
Ronnel	299-84-3	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 02.15	1
stirophos	22248-79-9	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 02.15	1
Sulfotep	3689-24-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 02.15	1
Sulprofos	35400-43-2	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 02.15	1
TEPP	21646-99-1	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 02.15	1
Tokuthion	34643-46-4	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 02.15	1
Trichloronate	327-98-0	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 02.15	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tributyl Phosphate	126-73-8	71	%	38-123	08.07.19 02.15	

Certificate of Analytical Results 632441

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-11 (0-6")**
Lab Sample Id: 632441-021

Matrix: Soil
Date Collected: 07.29.19 14.13

Date Received: 07.30.19 11.10
Sample Depth: 0 - 6

Analytical Method: Pesticides by SW-846 8081B
Tech: JSE
Analyst: MCK
Seq Number: 3097729

Date Prep: 08.06.19 11.39

Prep Method: SW3550
% Moisture: 41.74
Basis: Dry Weight
SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
4,4-DDD	72-54-8	0.00133 U	0.00573	0.00133	U	mg/kg	08.06.19 20.48	1
4,4-DDE	72-55-9	0.00286 U	0.00573	0.00286	U	mg/kg	08.06.19 20.48	1
4,4-DDT	50-29-3	0.000436 U	0.00573	0.000436	U	mg/kg	08.06.19 20.48	1
Aldrin	309-00-2	0.000623 U	0.00573	0.000623	U	mg/kg	08.06.19 20.48	1
Alpha-BHC	319-84-6	0.00117 U	0.00573	0.00117	U	mg/kg	08.06.19 20.48	1
Alpha-Chlordane	5103-71-9	0.000980 U	0.00573	0.000980	U	mg/kg	08.06.19 20.48	1
Beta-BHC	319-85-7	0.000814 U	0.00573	0.000814	U	mg/kg	08.06.19 20.48	1
Delta-BHC	319-86-8	0.00286 U	0.00573	0.00286	U	mg/kg	08.06.19 20.48	1
Dieldrin	60-57-1	0.000291 U	0.00573	0.000291	U	mg/kg	08.06.19 20.48	1
Endosulfan I	959-98-8	0.000347 U	0.00573	0.000347	U	mg/kg	08.06.19 20.48	1
Endosulfan II	33213-65-9	0.000640 U	0.00573	0.000640	U	mg/kg	08.06.19 20.48	1
Endosulfan Sulfate	1031-07-8	0.000474 U	0.00573	0.000474	U	mg/kg	08.06.19 20.48	1
Endrin	72-20-8	0.000500 U	0.00573	0.000500	U	mg/kg	08.06.19 20.48	1
Endrin Aldehyde	7421-93-4	0.000425 U	0.00573	0.000425	U	mg/kg	08.06.19 20.48	1
Endrin Ketone	53494-70-5	0.000620 U	0.00573	0.000620	U	mg/kg	08.06.19 20.48	1
Gamma-BHC (Lindane)	58-89-9	0.000754 U	0.00573	0.000754	U	mg/kg	08.06.19 20.48	1
Gamma-Chlordane	5103-74-2	0.00131 U	0.00573	0.00131	U	mg/kg	08.06.19 20.48	1
Heptachlor	76-44-8	0.000966 U	0.00573	0.000966	U	mg/kg	08.06.19 20.48	1
Heptachlor Epoxide	1024-57-3	0.000421 U	0.00573	0.000421	U	mg/kg	08.06.19 20.48	1
Methoxychlor	72-43-5	0.000871 U	0.00573	0.000871	U	mg/kg	08.06.19 20.48	1
Chlordane	12789-03-6	0.0411 U	0.143	0.0411	U	mg/kg	08.06.19 20.48	1
Toxaphene	8001-35-2	0.0195 U	0.143	0.0195	U	mg/kg	08.06.19 20.48	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	51	%	35-135	08.06.19 20.48	
Decachlorobiphenyl	2051-24-3	66	%	25-143	08.06.19 20.48	

Certificate of Analytical Results 632441

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-11 (0-6")** Matrix: Soil Date Received:07.30.19 11.10
Lab Sample Id: 632441-021 Date Collected: 07.29.19 14.13 Sample Depth: 0 - 6

Analytical Method: SPLP Ammonia By EPA 350.1 Prep Method: E350.1P
Tech: KCS % Moisture:
Analyst: KCS Date Prep: 08.07.19 09.00
Seq Number: 3097787 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Ammonia (as N)	7664-41-7	**0.132**	0.100	0.0345		mg/L	08.07.19 15.31	1

Analytical Method: SPLP Nitrate-Nitrite by E353.2 Prep Method: E353.2P
Tech: KCS % Moisture:
Analyst: KCS Date Prep: 08.05.19 11.08
Seq Number: 3097532 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Nitrate-Nitrite	7727-37-9	**0.0790**	0.100	0.0283	I	mg/L	08.05.19 13.08	1

Certificate of Analytical Results 632441

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id:	**CS-11 (6"-24")**	Matrix:	Soil	Date Received:	07.30.19 11.10
Lab Sample Id:	632441-022	Date Collected:	07.29.19 14.13	Sample Depth:	6 - 24
Analytical Method:	Metals, Total by SW846 6010C			Prep Method:	SW3050B
Tech:	PJB			% Moisture:	30.73
Analyst:	DEP	Date Prep:	08.02.19 10.30	Basis:	Dry Weight
Seq Number:	3097481			SUB:	E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Arsenic	7440-38-2	0.518 U	2.45	0.518	U	mg/kg	08.04.19 15.26	1
Chromium	7440-47-3	**4.45**	1.22	0.0861		mg/kg	08.04.19 15.26	1
Copper	7440-50-8	**2.42**	2.45	0.542	I	mg/kg	08.04.19 15.26	1
Iron	7439-89-6	**1210**	24.5	3.30		mg/kg	08.04.19 15.26	1
Lead	7439-92-1	**1.23**	2.45	0.582	I	mg/kg	08.04.19 15.26	1
Manganese	7439-96-5	**54.5**	2.45	0.339		mg/kg	08.04.19 15.26	1

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Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-11 (6"-24")** Matrix: Soil Date Received:07.30.19 11.10

Lab Sample Id: 632441-022 Date Collected: 07.29.19 14.13 Sample Depth: 6 - 24

Analytical Method: EPA 8141 Organophosphorus Pesticides by GC Prep Method: SW3550

Tech: BNS % Moisture:

Analyst: CHD Date Prep: 08.05.19 13.20 Basis: Wet Weight

Seq Number: 3097713 SUB: E871146

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
azinphos-methyl	86-50-0	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 03.17	1
Chlorpyrifos	2921-88-2	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 03.17	1
Coumaphos	56-72-4	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 03.17	1
Demeton-O	298-03-3	0.00166 U	0.00332	0.00166	UJ	mg/kg	08.07.19 03.17	1
Demeton-S	126-75-0	0.00166 U	0.00332	0.00166	UJ	mg/kg	08.07.19 03.17	1
Diazinon	333-41-5	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 03.17	1
Dimethoate	60-51-5	0.00166 U	0.00332	0.00166	UJ	mg/kg	08.07.19 03.17	1
EPN (Ent)	2104-64-5	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 03.17	1
Ethoprop	13194-48-4	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 03.17	1
Famphur	52-85-7	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 03.17	1
Fenthion	55-38-9	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 03.17	1
Malathion	121-75-5	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 03.17	1
Merphos	150-50-5	0.00166 U	0.00332	0.00166	UJ	mg/kg	08.07.19 03.17	1
Mevinphos	7786-34-7	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 03.17	1
Monocrotophos	2157-98-4	0.00166 U	0.00332	0.00166	UJ	mg/kg	08.07.19 03.17	1
Naled	300-76-5	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 03.17	1
Parathion, Ethyl	56-38-2	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 03.17	1
Parathion, Methyl	298-00-0	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 03.17	1
Phorate	298-02-2	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 03.17	1
Ronnel	299-84-3	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 03.17	1
stirophos	22248-79-9	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 03.17	1
Sulfotep	3689-24-5	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 03.17	1
Sulprofos	35400-43-2	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 03.17	1
TEPP	21646-99-1	0.00166 U	0.00332	0.00166	UJ	mg/kg	08.07.19 03.17	1
Tokuthion	34643-46-4	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 03.17	1
Trichloronate	327-98-0	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 03.17	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tributyl Phosphate	126-73-8	75	%	38-123	08.07.19 03.17	

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Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-11 (6"-24")**
Lab Sample Id: 632441-022

Matrix: Soil
Date Collected: 07.29.19 14.13

Date Received: 07.30.19 11.10
Sample Depth: 6 - 24

Analytical Method: Pesticides by SW-846 8081B
Tech: JSE
Analyst: MCK
Seq Number: 3097729

Date Prep: 08.06.19 11.42

Prep Method: SW3550
% Moisture: 30.73
Basis: Dry Weight
SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
4,4-DDD	72-54-8	0.00111 U	0.00481	0.00111	U	mg/kg	08.06.19 21.01	1
4,4-DDE	72-55-9	0.00240 U	0.00481	0.00240	U	mg/kg	08.06.19 21.01	1
4,4-DDT	50-29-3	0.000366 U	0.00481	0.000366	U	mg/kg	08.06.19 21.01	1
Aldrin	309-00-2	0.000523 U	0.00481	0.000523	U	mg/kg	08.06.19 21.01	1
Alpha-BHC	319-84-6	0.000981 U	0.00481	0.000981	U	mg/kg	08.06.19 21.01	1
Alpha-Chlordane	5103-71-9	0.000823 U	0.00481	0.000823	U	mg/kg	08.06.19 21.01	1
Beta-BHC	319-85-7	0.000683 U	0.00481	0.000683	U	mg/kg	08.06.19 21.01	1
Delta-BHC	319-86-8	0.00240 U	0.00481	0.00240	U	mg/kg	08.06.19 21.01	1
Dieldrin	60-57-1	0.000244 U	0.00481	0.000244	U	mg/kg	08.06.19 21.01	1
Endosulfan I	959-98-8	0.000291 U	0.00481	0.000291	U	mg/kg	08.06.19 21.01	1
Endosulfan II	33213-65-9	0.000537 U	0.00481	0.000537	U	mg/kg	08.06.19 21.01	1
Endosulfan Sulfate	1031-07-8	0.000398 U	0.00481	0.000398	U	mg/kg	08.06.19 21.01	1
Endrin	72-20-8	0.000419 U	0.00481	0.000419	U	mg/kg	08.06.19 21.01	1
Endrin Aldehyde	7421-93-4	0.000357 U	0.00481	0.000357	U	mg/kg	08.06.19 21.01	1
Endrin Ketone	53494-70-5	0.000520 U	0.00481	0.000520	U	mg/kg	08.06.19 21.01	1
Gamma-BHC (Lindane)	58-89-9	0.000633 U	0.00481	0.000633	U	mg/kg	08.06.19 21.01	1
Gamma-Chlordane	5103-74-2	0.00110 U	0.00481	0.00110	U	mg/kg	08.06.19 21.01	1
Heptachlor	76-44-8	0.000811 U	0.00481	0.000811	U	mg/kg	08.06.19 21.01	1
Heptachlor Epoxide	1024-57-3	0.000353 U	0.00481	0.000353	U	mg/kg	08.06.19 21.01	1
Methoxychlor	72-43-5	0.000731 U	0.00481	0.000731	U	mg/kg	08.06.19 21.01	1
Chlordane	12789-03-6	0.0345 U	0.120	0.0345	U	mg/kg	08.06.19 21.01	1
Toxaphene	8001-35-2	0.0163 U	0.120	0.0163	U	mg/kg	08.06.19 21.01	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	63	%	35-135	08.06.19 21.01	
Decachlorobiphenyl	2051-24-3	65	%	25-143	08.06.19 21.01	

Certificate of Analytical Results 632441

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-11 (6"-24")** Matrix: Soil Date Received:07.30.19 11.10

Lab Sample Id: 632441-022 Date Collected: 07.29.19 14.13 Sample Depth: 6 - 24

Analytical Method: SPLP Ammonia By EPA 350.1 Prep Method: E350.1P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.07.19 09.00

Seq Number: 3097787 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Ammonia (as N)	7664-41-7	**0.0671**	0.100	0.0345	I	mg/L	08.07.19 15.32	1

Analytical Method: SPLP Nitrate-Nitrite by E353.2 Prep Method: E353.2P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.05.19 11.08

Seq Number: 3097532 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Nitrate-Nitrite	7727-37-9	**0.0520**	0.100	0.0283	I	mg/L	08.05.19 13.13	1

Certificate of Analytical Results 632441

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id:	**CS-12 (0-6")**	Matrix:	Soil	Date Received:	07.30.19 11.10
Lab Sample Id:	632441-023	Date Collected:	07.29.19 14.21	Sample Depth:	0 - 6
Analytical Method:	Metals, Total by SW846 6010C			Prep Method:	SW3050B
Tech:	PJB			% Moisture:	33.92
Analyst:	DEP	Date Prep:	08.02.19 10.30	Basis:	Dry Weight
Seq Number:	3097481			SUB:	E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Arsenic	7440-38-2	0.629 U	2.97	0.629	U	mg/kg	08.04.19 15.38	1
Chromium	7440-47-3	**11.5**	1.48	0.104		mg/kg	08.04.19 15.38	1
Copper	7440-50-8	**29.1**	2.97	0.657		mg/kg	08.04.19 15.38	1
Iron	7439-89-6	**1630**	29.7	4.00		mg/kg	08.04.19 15.38	1
Lead	7439-92-1	**7.90**	2.97	0.706		mg/kg	08.04.19 15.38	1
Manganese	7439-96-5	**246**	2.97	0.412		mg/kg	08.04.19 15.38	1

Certificate of Analytical Results 632441

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-12 (0-6")** Matrix: Soil Date Received:07.30.19 11.10

Lab Sample Id: 632441-023 Date Collected: 07.29.19 14.21 Sample Depth: 0 - 6

Analytical Method: EPA 8141 Organophosphorus Pesticides by GC Prep Method: SW3550

Tech: BNS % Moisture:

Analyst: CHD Date Prep: 08.05.19 13.20 Basis: Wet Weight

Seq Number: 3097713 SUB: E871146

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
azinphos-methyl	86-50-0	0.00162 U	0.00324	0.00162	U	mg/kg	08.07.19 03.49	1
Chlorpyrifos	2921-88-2	0.00162 U	0.00324	0.00162	U	mg/kg	08.07.19 03.49	1
Coumaphos	56-72-4	0.00162 U	0.00324	0.00162	U	mg/kg	08.07.19 03.49	1
Demeton-O	298-03-3	0.00162 U	0.00324	0.00162	UJ	mg/kg	08.07.19 03.49	1
Demeton-S	126-75-0	0.00162 U	0.00324	0.00162	UJ	mg/kg	08.07.19 03.49	1
Diazinon	333-41-5	0.00162 U	0.00324	0.00162	U	mg/kg	08.07.19 03.49	1
Dimethoate	60-51-5	0.00162 U	0.00324	0.00162	UJ	mg/kg	08.07.19 03.49	1
EPN (Ent)	2104-64-5	0.00162 U	0.00324	0.00162	U	mg/kg	08.07.19 03.49	1
Ethoprop	13194-48-4	0.00162 U	0.00324	0.00162	U	mg/kg	08.07.19 03.49	1
Famphur	52-85-7	0.00162 U	0.00324	0.00162	U	mg/kg	08.07.19 03.49	1
Fenthion	55-38-9	0.00162 U	0.00324	0.00162	U	mg/kg	08.07.19 03.49	1
Malathion	121-75-5	0.00162 U	0.00324	0.00162	U	mg/kg	08.07.19 03.49	1
Merphos	150-50-5	0.00162 U	0.00324	0.00162	UJ	mg/kg	08.07.19 03.49	1
Mevinphos	7786-34-7	0.00162 U	0.00324	0.00162	U	mg/kg	08.07.19 03.49	1
Monocrotophos	2157-98-4	0.00162 U	0.00324	0.00162	UJ	mg/kg	08.07.19 03.49	1
Naled	300-76-5	0.00162 U	0.00324	0.00162	U	mg/kg	08.07.19 03.49	1
Parathion, Ethyl	56-38-2	0.00162 U	0.00324	0.00162	U	mg/kg	08.07.19 03.49	1
Parathion, Methyl	298-00-0	0.00162 U	0.00324	0.00162	U	mg/kg	08.07.19 03.49	1
Phorate	298-02-2	0.00162 U	0.00324	0.00162	U	mg/kg	08.07.19 03.49	1
Ronnel	299-84-3	0.00162 U	0.00324	0.00162	U	mg/kg	08.07.19 03.49	1
stirophos	22248-79-9	0.00162 U	0.00324	0.00162	U	mg/kg	08.07.19 03.49	1
Sulfotep	3689-24-5	0.00162 U	0.00324	0.00162	U	mg/kg	08.07.19 03.49	1
Sulprofos	35400-43-2	0.00162 U	0.00324	0.00162	U	mg/kg	08.07.19 03.49	1
TEPP	21646-99-1	0.00162 U	0.00324	0.00162	UJ	mg/kg	08.07.19 03.49	1
Tokuthion	34643-46-4	0.00162 U	0.00324	0.00162	U	mg/kg	08.07.19 03.49	1
Trichloronate	327-98-0	0.00162 U	0.00324	0.00162	U	mg/kg	08.07.19 03.49	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tributyl Phosphate	126-73-8	101	%	38-123	08.07.19 03.49	

Certificate of Analytical Results 632441

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-12 (0-6")**
Lab Sample Id: 632441-023

Matrix: Soil
Date Collected: 07.29.19 14.21

Date Received: 07.30.19 11.10
Sample Depth: 0 - 6

Analytical Method: Pesticides by SW-846 8081B
Tech: JSE
Analyst: MCK
Seq Number: 3097729

Date Prep: 08.06.19 11.45

Prep Method: SW3550
% Moisture: 33.92
Basis: Dry Weight
SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
4,4-DDD	72-54-8	0.00117 U	0.00504	0.00117	U	mg/kg	08.06.19 21.15	1
4,4-DDE	72-55-9	0.00252 U	0.00504	0.00252	U	mg/kg	08.06.19 21.15	1
4,4-DDT	50-29-3	0.000384 U	0.00504	0.000384	U	mg/kg	08.06.19 21.15	1
Aldrin	309-00-2	0.000549 U	0.00504	0.000549	U	mg/kg	08.06.19 21.15	1
Alpha-BHC	319-84-6	0.00103 U	0.00504	0.00103	U	mg/kg	08.06.19 21.15	1
Alpha-Chlordane	5103-71-9	0.000864 U	0.00504	0.000864	U	mg/kg	08.06.19 21.15	1
Beta-BHC	319-85-7	0.000717 U	0.00504	0.000717	U	mg/kg	08.06.19 21.15	1
Delta-BHC	319-86-8	0.00252 U	0.00504	0.00252	U	mg/kg	08.06.19 21.15	1
Dieldrin	60-57-1	0.000256 U	0.00504	0.000256	U	mg/kg	08.06.19 21.15	1
Endosulfan I	959-98-8	0.000305 U	0.00504	0.000305	U	mg/kg	08.06.19 21.15	1
Endosulfan II	33213-65-9	0.000563 U	0.00504	0.000563	U	mg/kg	08.06.19 21.15	1
Endosulfan Sulfate	1031-07-8	0.000417 U	0.00504	0.000417	U	mg/kg	08.06.19 21.15	1
Endrin	72-20-8	0.000440 U	0.00504	0.000440	U	mg/kg	08.06.19 21.15	1
Endrin Aldehyde	7421-93-4	0.000374 U	0.00504	0.000374	U	mg/kg	08.06.19 21.15	1
Endrin Ketone	53494-70-5	0.000546 U	0.00504	0.000546	U	mg/kg	08.06.19 21.15	1
Gamma-BHC (Lindane)	58-89-9	0.000664 U	0.00504	0.000664	U	mg/kg	08.06.19 21.15	1
Gamma-Chlordane	5103-74-2	0.00116 U	0.00504	0.00116	U	mg/kg	08.06.19 21.15	1
Heptachlor	76-44-8	0.000851 U	0.00504	0.000851	U	mg/kg	08.06.19 21.15	1
Heptachlor Epoxide	1024-57-3	0.000371 U	0.00504	0.000371	U	mg/kg	08.06.19 21.15	1
Methoxychlor	72-43-5	0.000767 U	0.00504	0.000767	U	mg/kg	08.06.19 21.15	1
Chlordane	12789-03-6	0.0362 U	0.126	0.0362	U	mg/kg	08.06.19 21.15	1
Toxaphene	8001-35-2	0.0171 U	0.126	0.0171	U	mg/kg	08.06.19 21.15	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	40	%	35-135	08.06.19 21.15	
Decachlorobiphenyl	2051-24-3	69	%	25-143	08.06.19 21.15	

Certificate of Analytical Results 632441

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-12 (0-6")** Matrix: Soil Date Received:07.30.19 11.10
Lab Sample Id: 632441-023 Date Collected: 07.29.19 14.21 Sample Depth: 0 - 6

Analytical Method: SPLP Ammonia By EPA 350.1 Prep Method: E350.1P
Tech: KCS % Moisture:
Analyst: KCS Date Prep: 08.07.19 09.00
Seq Number: 3097787 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Ammonia (as N)	7664-41-7	**0.184**	0.100	0.0345		mg/L	08.07.19 15.33	1

Analytical Method: SPLP Nitrate-Nitrite by E353.2 Prep Method: E353.2P
Tech: KCS % Moisture:
Analyst: KCS Date Prep: 08.05.19 11.08
Seq Number: 3097532 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Nitrate-Nitrite	7727-37-9	**0.153**	0.100	0.0283		mg/L	08.05.19 13.15	1

Certificate of Analytical Results 632441

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id:	**CS-12 (6"-24")**	Matrix:	Soil	Date Received:	07.30.19 11.10
Lab Sample Id:	632441-024	Date Collected:	07.29.19 14.21	Sample Depth:	6 - 24
Analytical Method:	Metals, Total by SW846 6010C			Prep Method:	SW3050B
Tech:	PJB			% Moisture:	28.74
Analyst:	DEP	Date Prep:	08.02.19 10.30	Basis:	Dry Weight
Seq Number:	3097481			SUB:	E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Arsenic	7440-38-2	0.513 U	2.42	0.513	U	mg/kg	08.04.19 15.43	1
Chromium	7440-47-3	0.0851 U	1.21	0.0851	U	mg/kg	08.04.19 15.43	1
Copper	7440-50-8	0.536 U	2.42	0.536	U	mg/kg	08.04.19 15.43	1
Iron	7439-89-6	**868**	24.2	3.26		mg/kg	08.04.19 15.43	1
Lead	7439-92-1	0.575 U	2.42	0.575	U	mg/kg	08.04.19 15.43	1
Manganese	7439-96-5	**25.0**	2.42	0.336		mg/kg	08.04.19 15.43	1

Certificate of Analytical Results 632441

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-12 (6"-24")** Matrix: Soil Date Received:07.30.19 11.10

Lab Sample Id: 632441-024 Date Collected: 07.29.19 14.21 Sample Depth: 6 - 24

Analytical Method: EPA 8141 Organophosphorus Pesticides by GC Prep Method: SW3550

Tech: BNS % Moisture:

Analyst: CHD Date Prep: 08.05.19 13.20 Basis: Wet Weight

Seq Number: 3097713 SUB: E871146

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
azinphos-methyl	86-50-0	0.00162 U	0.00325	0.00162	U	mg/kg	08.07.19 04.20	1
Chlorpyrifos	2921-88-2	0.00162 U	0.00325	0.00162	U	mg/kg	08.07.19 04.20	1
Coumaphos	56-72-4	0.00162 U	0.00325	0.00162	U	mg/kg	08.07.19 04.20	1
Demeton-O	298-03-3	0.00162 U	0.00325	0.00162	UJ	mg/kg	08.07.19 04.20	1
Demeton-S	126-75-0	0.00162 U	0.00325	0.00162	UJ	mg/kg	08.07.19 04.20	1
Diazinon	333-41-5	0.00162 U	0.00325	0.00162	U	mg/kg	08.07.19 04.20	1
Dimethoate	60-51-5	0.00162 U	0.00325	0.00162	UJ	mg/kg	08.07.19 04.20	1
EPN (Ent)	2104-64-5	0.00162 U	0.00325	0.00162	U	mg/kg	08.07.19 04.20	1
Ethoprop	13194-48-4	0.00162 U	0.00325	0.00162	U	mg/kg	08.07.19 04.20	1
Famphur	52-85-7	0.00162 U	0.00325	0.00162	U	mg/kg	08.07.19 04.20	1
Fenthion	55-38-9	0.00162 U	0.00325	0.00162	U	mg/kg	08.07.19 04.20	1
Malathion	121-75-5	0.00162 U	0.00325	0.00162	U	mg/kg	08.07.19 04.20	1
Merphos	150-50-5	0.00162 U	0.00325	0.00162	UJ	mg/kg	08.07.19 04.20	1
Mevinphos	7786-34-7	0.00162 U	0.00325	0.00162	U	mg/kg	08.07.19 04.20	1
Monocrotophos	2157-98-4	0.00162 U	0.00325	0.00162	UJ	mg/kg	08.07.19 04.20	1
Naled	300-76-5	0.00162 U	0.00325	0.00162	U	mg/kg	08.07.19 04.20	1
Parathion, Ethyl	56-38-2	0.00162 U	0.00325	0.00162	U	mg/kg	08.07.19 04.20	1
Parathion, Methyl	298-00-0	0.00162 U	0.00325	0.00162	U	mg/kg	08.07.19 04.20	1
Phorate	298-02-2	0.00162 U	0.00325	0.00162	U	mg/kg	08.07.19 04.20	1
Ronnel	299-84-3	0.00162 U	0.00325	0.00162	U	mg/kg	08.07.19 04.20	1
stirophos	22248-79-9	0.00162 U	0.00325	0.00162	U	mg/kg	08.07.19 04.20	1
Sulfotep	3689-24-5	0.00162 U	0.00325	0.00162	U	mg/kg	08.07.19 04.20	1
Sulprofos	35400-43-2	0.00162 U	0.00325	0.00162	U	mg/kg	08.07.19 04.20	1
TEPP	21646-99-1	0.00162 U	0.00325	0.00162	UJ	mg/kg	08.07.19 04.20	1
Tokuthion	34643-46-4	0.00162 U	0.00325	0.00162	U	mg/kg	08.07.19 04.20	1
Trichloronate	327-98-0	0.00162 U	0.00325	0.00162	U	mg/kg	08.07.19 04.20	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tributyl Phosphate	126-73-8	78	%	38-123	08.07.19 04.20	

Certificate of Analytical Results 632441

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-12 (6"-24")**
Lab Sample Id: 632441-024

Matrix: Soil
Date Collected: 07.29.19 14.21

Date Received: 07.30.19 11.10
Sample Depth: 6 - 24

Analytical Method: Pesticides by SW-846 8081B
Tech: JSE
Analyst: MCK
Seq Number: 3097729

Date Prep: 08.06.19 11.48

Prep Method: SW3550
% Moisture: 28.74
Basis: Dry Weight
SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
4,4-DDD	72-54-8	0.00108 U	0.00467	0.00108	U	mg/kg	08.06.19 21.29	1
4,4-DDE	72-55-9	0.00234 U	0.00467	0.00234	U	mg/kg	08.06.19 21.29	1
4,4-DDT	50-29-3	0.000356 U	0.00467	0.000356	U	mg/kg	08.06.19 21.29	1
Aldrin	309-00-2	0.000509 U	0.00467	0.000509	U	mg/kg	08.06.19 21.29	1
Alpha-BHC	319-84-6	0.000953 U	0.00467	0.000953	U	mg/kg	08.06.19 21.29	1
Alpha-Chlordane	5103-71-9	0.000800 U	0.00467	0.000800	U	mg/kg	08.06.19 21.29	1
Beta-BHC	319-85-7	0.000664 U	0.00467	0.000664	U	mg/kg	08.06.19 21.29	1
Delta-BHC	319-86-8	0.00234 U	0.00467	0.00234	U	mg/kg	08.06.19 21.29	1
Dieldrin	60-57-1	0.000237 U	0.00467	0.000237	U	mg/kg	08.06.19 21.29	1
Endosulfan I	959-98-8	0.000283 U	0.00467	0.000283	U	mg/kg	08.06.19 21.29	1
Endosulfan II	33213-65-9	0.000522 U	0.00467	0.000522	U	mg/kg	08.06.19 21.29	1
Endosulfan Sulfate	1031-07-8	0.000387 U	0.00467	0.000387	U	mg/kg	08.06.19 21.29	1
Endrin	72-20-8	0.000408 U	0.00467	0.000408	U	mg/kg	08.06.19 21.29	1
Endrin Aldehyde	7421-93-4	0.000347 U	0.00467	0.000347	U	mg/kg	08.06.19 21.29	1
Endrin Ketone	53494-70-5	0.000506 U	0.00467	0.000506	U	mg/kg	08.06.19 21.29	1
Gamma-BHC (Lindane)	58-89-9	0.000615 U	0.00467	0.000615	U	mg/kg	08.06.19 21.29	1
Gamma-Chlordane	5103-74-2	0.00107 U	0.00467	0.00107	U	mg/kg	08.06.19 21.29	1
Heptachlor	76-44-8	0.000788 U	0.00467	0.000788	U	mg/kg	08.06.19 21.29	1
Heptachlor Epoxide	1024-57-3	0.000343 U	0.00467	0.000343	U	mg/kg	08.06.19 21.29	1
Methoxychlor	72-43-5	0.000710 U	0.00467	0.000710	U	mg/kg	08.06.19 21.29	1
Chlordane	12789-03-6	0.0335 U	0.117	0.0335	U	mg/kg	08.06.19 21.29	1
Toxaphene	8001-35-2	0.0159 U	0.117	0.0159	U	mg/kg	08.06.19 21.29	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	53	%	35-135	08.06.19 21.29	
Decachlorobiphenyl	2051-24-3	65	%	25-143	08.06.19 21.29	

Certificate of Analytical Results 632441

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-12 (6"-24")** Matrix: Soil Date Received:07.30.19 11.10

Lab Sample Id: 632441-024 Date Collected: 07.29.19 14.21 Sample Depth: 6 - 24

Analytical Method: SPLP Ammonia By EPA 350.1 Prep Method: E350.1P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.07.19 09.00

Seq Number: 3097787 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Ammonia (as N)	7664-41-7	**0.0525**	0.100	0.0345	IJ	mg/L	08.07.19 15.34	1

Analytical Method: SPLP Nitrate-Nitrite by E353.2 Prep Method: E353.2P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.05.19 11.08

Seq Number: 3097532 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Nitrate-Nitrite	7727-37-9	**0.0417**	0.100	0.0283	I	mg/L	08.05.19 13.17	1

Certificate of Analytical Results 632441

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id:	**CS-13 (0-6")**	Matrix:	Soil	Date Received:	07.30.19 11.10
Lab Sample Id:	632441-025	Date Collected:	07.29.19 14.30	Sample Depth:	0 - 6
Analytical Method:	Metals, Total by SW846 6010C			Prep Method:	SW3050B
Tech:	PJB			% Moisture:	28.67
Analyst:	DEP	Date Prep:	08.02.19 10.30	Basis:	Dry Weight
Seq Number:	3097481			SUB:	E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Arsenic	7440-38-2	0.594 U	2.80	0.594	U	mg/kg	08.04.19 15.47	1
Chromium	7440-47-3	**10.7**	1.40	0.0987		mg/kg	08.04.19 15.47	1
Copper	7440-50-8	**27.7**	2.80	0.621		mg/kg	08.04.19 15.47	1
Iron	7439-89-6	**1510**	28.0	3.78		mg/kg	08.04.19 15.47	1
Lead	7439-92-1	**8.92**	2.80	0.667		mg/kg	08.04.19 15.47	1
Manganese	7439-96-5	**195**	2.80	0.389		mg/kg	08.04.19 15.47	1

Certificate of Analytical Results 632441

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-13 (0-6")** Matrix: Soil Date Received:07.30.19 11.10

Lab Sample Id: 632441-025 Date Collected: 07.29.19 14.30 Sample Depth: 0 - 6

Analytical Method: EPA 8141 Organophosphorus Pesticides by GC Prep Method: SW3550

Tech: BNS % Moisture:

Analyst: CHD Date Prep: 08.05.19 13.20 Basis: Wet Weight

Seq Number: 3097713 SUB: E871146

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
azinphos-methyl	86-50-0	0.00163 U	0.00327	0.00163	U	mg/kg	08.07.19 04.51	1
Chlorpyrifos	2921-88-2	0.00163 U	0.00327	0.00163	U	mg/kg	08.07.19 04.51	1
Coumaphos	56-72-4	0.00163 U	0.00327	0.00163	U	mg/kg	08.07.19 04.51	1
Demeton-O	298-03-3	0.00163 U	0.00327	0.00163	UJ	mg/kg	08.07.19 04.51	1
Demeton-S	126-75-0	0.00163 U	0.00327	0.00163	UJ	mg/kg	08.07.19 04.51	1
Diazinon	333-41-5	0.00163 U	0.00327	0.00163	U	mg/kg	08.07.19 04.51	1
Dimethoate	60-51-5	0.00163 U	0.00327	0.00163	UJ	mg/kg	08.07.19 04.51	1
EPN (Ent)	2104-64-5	0.00163 U	0.00327	0.00163	U	mg/kg	08.07.19 04.51	1
Ethoprop	13194-48-4	0.00163 U	0.00327	0.00163	U	mg/kg	08.07.19 04.51	1
Famphur	52-85-7	0.00163 U	0.00327	0.00163	U	mg/kg	08.07.19 04.51	1
Fenthion	55-38-9	0.00163 U	0.00327	0.00163	U	mg/kg	08.07.19 04.51	1
Malathion	121-75-5	0.00163 U	0.00327	0.00163	U	mg/kg	08.07.19 04.51	1
Merphos	150-50-5	0.00163 U	0.00327	0.00163	UJ	mg/kg	08.07.19 04.51	1
Mevinphos	7786-34-7	0.00163 U	0.00327	0.00163	U	mg/kg	08.07.19 04.51	1
Monocrotophos	2157-98-4	0.00163 U	0.00327	0.00163	UJ	mg/kg	08.07.19 04.51	1
Naled	300-76-5	0.00163 U	0.00327	0.00163	U	mg/kg	08.07.19 04.51	1
Parathion, Ethyl	56-38-2	0.00163 U	0.00327	0.00163	U	mg/kg	08.07.19 04.51	1
Parathion, Methyl	298-00-0	0.00163 U	0.00327	0.00163	U	mg/kg	08.07.19 04.51	1
Phorate	298-02-2	0.00163 U	0.00327	0.00163	U	mg/kg	08.07.19 04.51	1
Ronnel	299-84-3	0.00163 U	0.00327	0.00163	U	mg/kg	08.07.19 04.51	1
stirophos	22248-79-9	0.00163 U	0.00327	0.00163	U	mg/kg	08.07.19 04.51	1
Sulfotep	3689-24-5	0.00163 U	0.00327	0.00163	U	mg/kg	08.07.19 04.51	1
Sulprofos	35400-43-2	0.00163 U	0.00327	0.00163	U	mg/kg	08.07.19 04.51	1
TEPP	21646-99-1	0.00163 U	0.00327	0.00163	UJ	mg/kg	08.07.19 04.51	1
Tokuthion	34643-46-4	0.00163 U	0.00327	0.00163	U	mg/kg	08.07.19 04.51	1
Trichloronate	327-98-0	0.00163 U	0.00327	0.00163	U	mg/kg	08.07.19 04.51	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tributyl Phosphate	126-73-8	104	%	38-123	08.07.19 04.51	

Certificate of Analytical Results 632441

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id:	**CS-13 (0-6")**	Matrix:	Soil	Date Received:	07.30.19 11.10
Lab Sample Id:	632441-025	Date Collected:	07.29.19 14.30	Sample Depth:	0 - 6
Analytical Method:	Pesticides by SW-846 8081B			Prep Method:	SW3550
Tech:	JSE			% Moisture:	28.67
Analyst:	MCK	Date Prep:	08.06.19 11.51	Basis:	Dry Weight
Seq Number:	3097729			SUB:	E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
4,4-DDD	72-54-8	0.00108 U	0.00467	0.00108	U	mg/kg	08.06.19 22.37	1
4,4-DDE	72-55-9	0.00234 U	0.00467	0.00234	U	mg/kg	08.06.19 22.37	1
4,4-DDT	50-29-3	0.000356 U	0.00467	0.000356	U	mg/kg	08.06.19 22.37	1
Aldrin	309-00-2	0.000508 U	0.00467	0.000508	U	mg/kg	08.06.19 22.37	1
Alpha-BHC	319-84-6	0.000953 U	0.00467	0.000953	U	mg/kg	08.06.19 22.37	1
Alpha-Chlordane	5103-71-9	0.000800 U	0.00467	0.000800	U	mg/kg	08.06.19 22.37	1
Beta-BHC	319-85-7	0.000664 U	0.00467	0.000664	U	mg/kg	08.06.19 22.37	1
Delta-BHC	319-86-8	0.00234 U	0.00467	0.00234	U	mg/kg	08.06.19 22.37	1
Dieldrin	60-57-1	0.000237 U	0.00467	0.000237	U	mg/kg	08.06.19 22.37	1
Endosulfan I	959-98-8	0.000283 U	0.00467	0.000283	U	mg/kg	08.06.19 22.37	1
Endosulfan II	33213-65-9	0.000522 U	0.00467	0.000522	U	mg/kg	08.06.19 22.37	1
Endosulfan Sulfate	1031-07-8	0.000387 U	0.00467	0.000387	U	mg/kg	08.06.19 22.37	1
Endrin	72-20-8	0.000408 U	0.00467	0.000408	U	mg/kg	08.06.19 22.37	1
Endrin Aldehyde	7421-93-4	0.000347 U	0.00467	0.000347	U	mg/kg	08.06.19 22.37	1
Endrin Ketone	53494-70-5	0.000506 U	0.00467	0.000506	U	mg/kg	08.06.19 22.37	1
Gamma-BHC (Lindane)	58-89-9	0.000615 U	0.00467	0.000615	U	mg/kg	08.06.19 22.37	1
Gamma-Chlordane	5103-74-2	0.00107 U	0.00467	0.00107	U	mg/kg	08.06.19 22.37	1
Heptachlor	76-44-8	0.000788 U	0.00467	0.000788	U	mg/kg	08.06.19 22.37	1
Heptachlor Epoxide	1024-57-3	0.000343 U	0.00467	0.000343	U	mg/kg	08.06.19 22.37	1
Methoxychlor	72-43-5	0.000710 U	0.00467	0.000710	U	mg/kg	08.06.19 22.37	1
Chlordane	12789-03-6	0.0335 U	0.117	0.0335	U	mg/kg	08.06.19 22.37	1
Toxaphene	8001-35-2	0.0159 U	0.117	0.0159	U	mg/kg	08.06.19 22.37	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	60	%	35-135	08.06.19 22.37	
Decachlorobiphenyl	2051-24-3	68	%	25-143	08.06.19 22.37	

Certificate of Analytical Results 632441

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-13 (0-6")** Matrix: Soil Date Received:07.30.19 11.10

Lab Sample Id: 632441-025 Date Collected: 07.29.19 14.30 Sample Depth: 0 - 6

Analytical Method: SPLP Ammonia By EPA 350.1 Prep Method: E350.1P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.07.19 09.00

Seq Number: 3097787 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Ammonia (as N)	7664-41-7	**0.115**	0.100	0.0345		mg/L	08.07.19 15.37	1

Analytical Method: SPLP Nitrate-Nitrite by E353.2 Prep Method: E353.2P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.05.19 11.08

Seq Number: 3097532 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Nitrate-Nitrite	7727-37-9	**0.113**	0.100	0.0283		mg/L	08.05.19 13.18	1

Certificate of Analytical Results 632441

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id:	**CS-13 (6"-24")**	Matrix:	Soil	Date Received:	07.30.19 11.10
Lab Sample Id:	632441-026	Date Collected:	07.29.19 14.30	Sample Depth:	6 - 24
Analytical Method:	Metals, Total by SW846 6010C			Prep Method:	SW3050B
Tech:	PJB			% Moisture:	28.76
Analyst:	DEP	Date Prep:	08.02.19 10.30	Basis:	Dry Weight
Seq Number:	3097481			SUB:	E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Arsenic	7440-38-2	0.561 U	2.65	0.561	U	mg/kg	08.04.19 15.51	1
Chromium	7440-47-3	0.0932 U	1.32	0.0932	U	mg/kg	08.04.19 15.51	1
Copper	7440-50-8	0.587 U	2.65	0.587	U	mg/kg	08.04.19 15.51	1
Iron	7439-89-6	**769**	26.5	3.57		mg/kg	08.04.19 15.51	1
Lead	7439-92-1	0.630 U	2.65	0.630	U	mg/kg	08.04.19 15.51	1
Manganese	7439-96-5	**32.8**	2.65	0.367		mg/kg	08.04.19 15.51	1

Certificate of Analytical Results 632441

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-13 (6"-24")** Matrix: Soil Date Received:07.30.19 11.10

Lab Sample Id: 632441-026 Date Collected: 07.29.19 14.30 Sample Depth: 6 - 24

Analytical Method: EPA 8141 Organophosphorus Pesticides by GC Prep Method: SW3550

Tech: BNS % Moisture:

Analyst: CHD Date Prep: 08.05.19 13.20 Basis: Wet Weight

Seq Number: 3097713 SUB: E871146

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
azinphos-methyl	86-50-0	0.00164 U	0.00328	0.00164	U	mg/kg	08.07.19 05.23	1
Chlorpyrifos	2921-88-2	0.00164 U	0.00328	0.00164	U	mg/kg	08.07.19 05.23	1
Coumaphos	56-72-4	0.00164 U	0.00328	0.00164	U	mg/kg	08.07.19 05.23	1
Demeton-O	298-03-3	0.00164 U	0.00328	0.00164	UJ	mg/kg	08.07.19 05.23	1
Demeton-S	126-75-0	0.00164 U	0.00328	0.00164	UJ	mg/kg	08.07.19 05.23	1
Diazinon	333-41-5	0.00164 U	0.00328	0.00164	U	mg/kg	08.07.19 05.23	1
Dimethoate	60-51-5	0.00164 U	0.00328	0.00164	UJ	mg/kg	08.07.19 05.23	1
EPN (Ent)	2104-64-5	0.00164 U	0.00328	0.00164	U	mg/kg	08.07.19 05.23	1
Ethoprop	13194-48-4	0.00164 U	0.00328	0.00164	U	mg/kg	08.07.19 05.23	1
Famphur	52-85-7	0.00164 U	0.00328	0.00164	U	mg/kg	08.07.19 05.23	1
Fenthion	55-38-9	0.00164 U	0.00328	0.00164	U	mg/kg	08.07.19 05.23	1
Malathion	121-75-5	0.00164 U	0.00328	0.00164	U	mg/kg	08.07.19 05.23	1
Merphos	150-50-5	0.00164 U	0.00328	0.00164	UJ	mg/kg	08.07.19 05.23	1
Mevinphos	7786-34-7	0.00164 U	0.00328	0.00164	U	mg/kg	08.07.19 05.23	1
Monocrotophos	2157-98-4	0.00164 U	0.00328	0.00164	UJ	mg/kg	08.07.19 05.23	1
Naled	300-76-5	0.00164 U	0.00328	0.00164	U	mg/kg	08.07.19 05.23	1
Parathion, Ethyl	56-38-2	0.00164 U	0.00328	0.00164	U	mg/kg	08.07.19 05.23	1
Parathion, Methyl	298-00-0	0.00164 U	0.00328	0.00164	U	mg/kg	08.07.19 05.23	1
Phorate	298-02-2	0.00164 U	0.00328	0.00164	U	mg/kg	08.07.19 05.23	1
Ronnel	299-84-3	0.00164 U	0.00328	0.00164	U	mg/kg	08.07.19 05.23	1
stirophos	22248-79-9	0.00164 U	0.00328	0.00164	U	mg/kg	08.07.19 05.23	1
Sulfotep	3689-24-5	0.00164 U	0.00328	0.00164	U	mg/kg	08.07.19 05.23	1
Sulprofos	35400-43-2	0.00164 U	0.00328	0.00164	U	mg/kg	08.07.19 05.23	1
TEPP	21646-99-1	0.00164 U	0.00328	0.00164	UJ	mg/kg	08.07.19 05.23	1
Tokuthion	34643-46-4	0.00164 U	0.00328	0.00164	U	mg/kg	08.07.19 05.23	1
Trichloronate	327-98-0	0.00164 U	0.00328	0.00164	U	mg/kg	08.07.19 05.23	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tributyl Phosphate	126-73-8	80	%	38-123	08.07.19 05.23	

Certificate of Analytical Results 632441

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-13 (6"-24")**
Lab Sample Id: 632441-026

Matrix: Soil
Date Collected: 07.29.19 14.30

Date Received: 07.30.19 11.10
Sample Depth: 6 - 24

Analytical Method: Pesticides by SW-846 8081B
Tech: JSE
Analyst: MCK
Seq Number: 3097729

Date Prep: 08.06.19 11.54

Prep Method: SW3550
% Moisture: 28.76
Basis: Dry Weight
SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
4,4-DDD	72-54-8	0.00108 U	0.00469	0.00108	U	mg/kg	08.06.19 21.43	1
4,4-DDE	72-55-9	0.00234 U	0.00469	0.00234	U	mg/kg	08.06.19 21.43	1
4,4-DDT	50-29-3	0.000357 U	0.00469	0.000357	U	mg/kg	08.06.19 21.43	1
Aldrin	309-00-2	0.000510 U	0.00469	0.000510	U	mg/kg	08.06.19 21.43	1
Alpha-BHC	319-84-6	0.000956 U	0.00469	0.000956	U	mg/kg	08.06.19 21.43	1
Alpha-Chlordane	5103-71-9	0.000802 U	0.00469	0.000802	U	mg/kg	08.06.19 21.43	1
Beta-BHC	319-85-7	0.000666 U	0.00469	0.000666	U	mg/kg	08.06.19 21.43	1
Delta-BHC	319-86-8	0.00234 U	0.00469	0.00234	U	mg/kg	08.06.19 21.43	1
Dieldrin	60-57-1	0.000238 U	0.00469	0.000238	U	mg/kg	08.06.19 21.43	1
Endosulfan I	959-98-8	0.000284 U	0.00469	0.000284	U	mg/kg	08.06.19 21.43	1
Endosulfan II	33213-65-9	0.000523 U	0.00469	0.000523	U	mg/kg	08.06.19 21.43	1
Endosulfan Sulfate	1031-07-8	0.000388 U	0.00469	0.000388	U	mg/kg	08.06.19 21.43	1
Endrin	72-20-8	0.000409 U	0.00469	0.000409	U	mg/kg	08.06.19 21.43	1
Endrin Aldehyde	7421-93-4	0.000348 U	0.00469	0.000348	U	mg/kg	08.06.19 21.43	1
Endrin Ketone	53494-70-5	0.000507 U	0.00469	0.000507	U	mg/kg	08.06.19 21.43	1
Gamma-BHC (Lindane)	58-89-9	0.000617 U	0.00469	0.000617	U	mg/kg	08.06.19 21.43	1
Gamma-Chlordane	5103-74-2	0.00107 U	0.00469	0.00107	U	mg/kg	08.06.19 21.43	1
Heptachlor	76-44-8	0.000790 U	0.00469	0.000790	U	mg/kg	08.06.19 21.43	1
Heptachlor Epoxide	1024-57-3	0.000344 U	0.00469	0.000344	U	mg/kg	08.06.19 21.43	1
Methoxychlor	72-43-5	0.000712 U	0.00469	0.000712	U	mg/kg	08.06.19 21.43	1
Chlordane	12789-03-6	0.0336 U	0.117	0.0336	U	mg/kg	08.06.19 21.43	1
Toxaphene	8001-35-2	0.0159 U	0.117	0.0159	U	mg/kg	08.06.19 21.43	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	48	%	35-135	08.06.19 21.43	
Decachlorobiphenyl	2051-24-3	72	%	25-143	08.06.19 21.43	

Certificate of Analytical Results 632441

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-13 (6"-24")** Matrix: Soil Date Received:07.30.19 11.10

Lab Sample Id: 632441-026 Date Collected: 07.29.19 14.30 Sample Depth: 6 - 24

Analytical Method: SPLP Ammonia By EPA 350.1 Prep Method: E350.1P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.07.19 09.00

Seq Number: 3097787 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Ammonia (as N)	7664-41-7	**0.0548**	0.100	0.0345	I	mg/L	08.07.19 15.38	1

Analytical Method: SPLP Nitrate-Nitrite by E353.2 Prep Method: E353.2P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.05.19 11.08

Seq Number: 3097532 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Nitrate-Nitrite	7727-37-9	0.0283 U	0.100	0.0283	U	mg/L	08.05.19 13.20	1

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Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id:	**CS-14 (0-6")**	Matrix:	Soil	Date Received:	07.30.19 11.10
Lab Sample Id:	632441-027	Date Collected:	07.29.19 14.38	Sample Depth:	0 - 6
Analytical Method:	Metals, Total by SW846 6010C			Prep Method:	SW3050B
Tech:	PJB			% Moisture:	28.41
Analyst:	DEP	Date Prep:	08.02.19 10.30	Basis:	Dry Weight
Seq Number:	3097481			SUB:	E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Arsenic	7440-38-2	**4.74**	2.69	0.569		mg/kg	08.04.19 15.55	1
Chromium	7440-47-3	**13.9**	1.34	0.0945		mg/kg	08.04.19 15.55	1
Copper	7440-50-8	**36.6**	2.69	0.595		mg/kg	08.04.19 15.55	1
Iron	7439-89-6	**1610**	26.9	3.62		mg/kg	08.04.19 15.55	1
Lead	7439-92-1	**14.9**	2.69	0.639		mg/kg	08.04.19 15.55	1
Manganese	7439-96-5	**252**	2.69	0.373		mg/kg	08.04.19 15.55	1

Certificate of Analytical Results 632441

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-14 (0-6")** Matrix: Soil Date Received:07.30.19 11.10

Lab Sample Id: 632441-027 Date Collected: 07.29.19 14.38 Sample Depth: 0 - 6

Analytical Method: EPA 8141 Organophosphorus Pesticides by GC Prep Method: SW3550

Tech: BNS % Moisture:

Analyst: CHD Date Prep: 08.05.19 13.20 Basis: Wet Weight

Seq Number: 3097713 SUB: E871146

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
azinphos-methyl	86-50-0	0.00164 U	0.00329	0.00164	U	mg/kg	08.07.19 05.54	1
Chlorpyrifos	2921-88-2	0.00164 U	0.00329	0.00164	U	mg/kg	08.07.19 05.54	1
Coumaphos	56-72-4	0.00164 U	0.00329	0.00164	U	mg/kg	08.07.19 05.54	1
Demeton-O	298-03-3	0.00164 U	0.00329	0.00164	UJ	mg/kg	08.07.19 05.54	1
Demeton-S	126-75-0	0.00164 U	0.00329	0.00164	UJ	mg/kg	08.07.19 05.54	1
Diazinon	333-41-5	0.00164 U	0.00329	0.00164	U	mg/kg	08.07.19 05.54	1
Dimethoate	60-51-5	0.00164 U	0.00329	0.00164	UJ	mg/kg	08.07.19 05.54	1
EPN (Ent)	2104-64-5	0.00164 U	0.00329	0.00164	U	mg/kg	08.07.19 05.54	1
Ethoprop	13194-48-4	0.00164 U	0.00329	0.00164	U	mg/kg	08.07.19 05.54	1
Famphur	52-85-7	0.00164 U	0.00329	0.00164	U	mg/kg	08.07.19 05.54	1
Fenthion	55-38-9	0.00164 U	0.00329	0.00164	U	mg/kg	08.07.19 05.54	1
Malathion	121-75-5	0.00164 U	0.00329	0.00164	U	mg/kg	08.07.19 05.54	1
Merphos	150-50-5	0.00164 U	0.00329	0.00164	UJ	mg/kg	08.07.19 05.54	1
Mevinphos	7786-34-7	0.00164 U	0.00329	0.00164	U	mg/kg	08.07.19 05.54	1
Monocrotophos	2157-98-4	0.00164 U	0.00329	0.00164	UJ	mg/kg	08.07.19 05.54	1
Naled	300-76-5	0.00164 U	0.00329	0.00164	U	mg/kg	08.07.19 05.54	1
Parathion, Ethyl	56-38-2	0.00164 U	0.00329	0.00164	U	mg/kg	08.07.19 05.54	1
Parathion, Methyl	298-00-0	0.00164 U	0.00329	0.00164	U	mg/kg	08.07.19 05.54	1
Phorate	298-02-2	0.00164 U	0.00329	0.00164	U	mg/kg	08.07.19 05.54	1
Ronnel	299-84-3	0.00164 U	0.00329	0.00164	U	mg/kg	08.07.19 05.54	1
stirophos	22248-79-9	0.00164 U	0.00329	0.00164	U	mg/kg	08.07.19 05.54	1
Sulfotep	3689-24-5	0.00164 U	0.00329	0.00164	U	mg/kg	08.07.19 05.54	1
Sulprofos	35400-43-2	0.00164 U	0.00329	0.00164	U	mg/kg	08.07.19 05.54	1
TEPP	21646-99-1	0.00164 U	0.00329	0.00164	UJ	mg/kg	08.07.19 05.54	1
Tokuthion	34643-46-4	0.00164 U	0.00329	0.00164	U	mg/kg	08.07.19 05.54	1
Trichloronate	327-98-0	0.00164 U	0.00329	0.00164	U	mg/kg	08.07.19 05.54	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tributyl Phosphate	126-73-8	74	%	38-123	08.07.19 05.54	

Certificate of Analytical Results 632441

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id:	**CS-14 (0-6")**	Matrix:	Soil	Date Received:	07.30.19 11.10
Lab Sample Id:	632441-027	Date Collected:	07.29.19 14.38	Sample Depth:	0 - 6
Analytical Method:	Pesticides by SW-846 8081B			Prep Method:	SW3550
Tech:	JSE			% Moisture:	28.41
Analyst:	MCK	Date Prep:	08.06.19 11.57	Basis:	Dry Weight
Seq Number:	3097729			SUB:	E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
4,4-DDD	72-54-8	0.00108 U	0.00466	0.00108	U	mg/kg	08.06.19 22.10	1
4,4-DDE	72-55-9	0.00233 U	0.00466	0.00233	U	mg/kg	08.06.19 22.10	1
4,4-DDT	50-29-3	0.000355 U	0.00466	0.000355	U	mg/kg	08.06.19 22.10	1
Aldrin	309-00-2	0.000507 U	0.00466	0.000507	U	mg/kg	08.06.19 22.10	1
Alpha-BHC	319-84-6	0.000951 U	0.00466	0.000951	U	mg/kg	08.06.19 22.10	1
Alpha-Chlordane	5103-71-9	0.000798 U	0.00466	0.000798	U	mg/kg	08.06.19 22.10	1
Beta-BHC	319-85-7	0.000662 U	0.00466	0.000662	U	mg/kg	08.06.19 22.10	1
Delta-BHC	319-86-8	0.00233 U	0.00466	0.00233	U	mg/kg	08.06.19 22.10	1
Dieldrin	60-57-1	0.000237 U	0.00466	0.000237	U	mg/kg	08.06.19 22.10	1
Endosulfan I	959-98-8	0.000282 U	0.00466	0.000282	U	mg/kg	08.06.19 22.10	1
Endosulfan II	33213-65-9	0.000520 U	0.00466	0.000520	U	mg/kg	08.06.19 22.10	1
Endosulfan Sulfate	1031-07-8	0.000386 U	0.00466	0.000386	U	mg/kg	08.06.19 22.10	1
Endrin	72-20-8	0.000407 U	0.00466	0.000407	U	mg/kg	08.06.19 22.10	1
Endrin Aldehyde	7421-93-4	0.000346 U	0.00466	0.000346	U	mg/kg	08.06.19 22.10	1
Endrin Ketone	53494-70-5	0.000504 U	0.00466	0.000504	U	mg/kg	08.06.19 22.10	1
Gamma-BHC (Lindane)	58-89-9	0.000613 U	0.00466	0.000613	U	mg/kg	08.06.19 22.10	1
Gamma-Chlordane	5103-74-2	0.00107 U	0.00466	0.00107	U	mg/kg	08.06.19 22.10	1
Heptachlor	76-44-8	0.000786 U	0.00466	0.000786	U	mg/kg	08.06.19 22.10	1
Heptachlor Epoxide	1024-57-3	0.000342 U	0.00466	0.000342	U	mg/kg	08.06.19 22.10	1
Methoxychlor	72-43-5	0.000708 U	0.00466	0.000708	U	mg/kg	08.06.19 22.10	1
Chlordane	12789-03-6	0.0334 U	0.117	0.0334	U	mg/kg	08.06.19 22.10	1
Toxaphene	8001-35-2	0.0158 U	0.117	0.0158	U	mg/kg	08.06.19 22.10	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	51	%	35-135	08.06.19 22.10	
Decachlorobiphenyl	2051-24-3	66	%	25-143	08.06.19 22.10	

Certificate of Analytical Results 632441

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-14 (0-6")** Matrix: Soil Date Received:07.30.19 11.10
Lab Sample Id: 632441-027 Date Collected: 07.29.19 14.38 Sample Depth: 0 - 6

Analytical Method: SPLP Ammonia By EPA 350.1 Prep Method: E350.1P
Tech: KCS % Moisture:
Analyst: KCS Date Prep: 08.07.19 09.00
Seq Number: 3097787 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Ammonia (as N)	7664-41-7	**0.0905**	0.100	0.0345	I	mg/L	08.07.19 15.41	1

Analytical Method: SPLP Nitrate-Nitrite by E353.2 Prep Method: E353.2P
Tech: KCS % Moisture:
Analyst: KCS Date Prep: 08.05.19 11.08
Seq Number: 3097532 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Nitrate-Nitrite	7727-37-9	**0.179**	0.100	0.0283		mg/L	08.05.19 13.22	1

Certificate of Analytical Results 632441

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-14 (6"-24")**
Lab Sample Id: 632441-028

Matrix: Soil
Date Collected: 07.29.19 14.38

Date Received: 07.30.19 11.10
Sample Depth: 6 - 24

Analytical Method: Metals, Total by SW846 6010C
Tech: PJB
Analyst: DEP
Seq Number: 3097481

Date Prep: 08.02.19 10.30

Prep Method: SW3050B
% Moisture: 28.29
Basis: Dry Weight
SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Arsenic	7440-38-2	0.591 U	2.79	0.591	U	mg/kg	08.04.19 15.59	1
Chromium	7440-47-3	**0.496**	1.39	0.0982	I	mg/kg	08.04.19 15.59	1
Copper	7440-50-8	0.618 U	2.79	0.618	U	mg/kg	08.04.19 15.59	1
Iron	7439-89-6	**790**	27.9	3.76		mg/kg	08.04.19 15.59	1
Lead	7439-92-1	**1.04**	2.79	0.663	I	mg/kg	08.04.19 15.59	1
Manganese	7439-96-5	**33.0**	2.79	0.387		mg/kg	08.04.19 15.59	1

Certificate of Analytical Results 632441

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-14 (6"-24")** Matrix: Soil Date Received:07.30.19 11.10

Lab Sample Id: 632441-028 Date Collected: 07.29.19 14.38 Sample Depth: 6 - 24

Analytical Method: EPA 8141 Organophosphorus Pesticides by GC Prep Method: SW3550

Tech: BNS % Moisture:

Analyst: CHD Date Prep: 08.05.19 13.20 Basis: Wet Weight

Seq Number: 3097713 SUB: E871146

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
azinphos-methyl	86-50-0	0.00165 U	0.00330	0.00165	U	mg/kg	08.07.19 06.26	1
Chlorpyrifos	2921-88-2	0.00165 U	0.00330	0.00165	U	mg/kg	08.07.19 06.26	1
Coumaphos	56-72-4	0.00165 U	0.00330	0.00165	U	mg/kg	08.07.19 06.26	1
Demeton-O	298-03-3	0.00165 U	0.00330	0.00165	UJ	mg/kg	08.07.19 06.26	1
Demeton-S	126-75-0	0.00165 U	0.00330	0.00165	UJ	mg/kg	08.07.19 06.26	1
Diazinon	333-41-5	0.00165 U	0.00330	0.00165	U	mg/kg	08.07.19 06.26	1
Dimethoate	60-51-5	0.00165 U	0.00330	0.00165	UJ	mg/kg	08.07.19 06.26	1
EPN (Ent)	2104-64-5	0.00165 U	0.00330	0.00165	U	mg/kg	08.07.19 06.26	1
Ethoprop	13194-48-4	0.00165 U	0.00330	0.00165	U	mg/kg	08.07.19 06.26	1
Famphur	52-85-7	0.00165 U	0.00330	0.00165	U	mg/kg	08.07.19 06.26	1
Fenthion	55-38-9	0.00165 U	0.00330	0.00165	U	mg/kg	08.07.19 06.26	1
Malathion	121-75-5	0.00165 U	0.00330	0.00165	U	mg/kg	08.07.19 06.26	1
Merphos	150-50-5	0.00165 U	0.00330	0.00165	UJ	mg/kg	08.07.19 06.26	1
Mevinphos	7786-34-7	0.00165 U	0.00330	0.00165	U	mg/kg	08.07.19 06.26	1
Monocrotophos	2157-98-4	0.00165 U	0.00330	0.00165	UJ	mg/kg	08.07.19 06.26	1
Naled	300-76-5	0.00165 U	0.00330	0.00165	U	mg/kg	08.07.19 06.26	1
Parathion, Ethyl	56-38-2	0.00165 U	0.00330	0.00165	U	mg/kg	08.07.19 06.26	1
Parathion, Methyl	298-00-0	0.00165 U	0.00330	0.00165	U	mg/kg	08.07.19 06.26	1
Phorate	298-02-2	0.00165 U	0.00330	0.00165	U	mg/kg	08.07.19 06.26	1
Ronnel	299-84-3	0.00165 U	0.00330	0.00165	U	mg/kg	08.07.19 06.26	1
stirophos	22248-79-9	0.00165 U	0.00330	0.00165	U	mg/kg	08.07.19 06.26	1
Sulfotep	3689-24-5	0.00165 U	0.00330	0.00165	U	mg/kg	08.07.19 06.26	1
Sulprofos	35400-43-2	0.00165 U	0.00330	0.00165	U	mg/kg	08.07.19 06.26	1
TEPP	21646-99-1	0.00165 U	0.00330	0.00165	UJ	mg/kg	08.07.19 06.26	1
Tokuthion	34643-46-4	0.00165 U	0.00330	0.00165	U	mg/kg	08.07.19 06.26	1
Trichloronate	327-98-0	0.00165 U	0.00330	0.00165	U	mg/kg	08.07.19 06.26	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tributyl Phosphate	126-73-8	83	%	38-123	08.07.19 06.26	

Certificate of Analytical Results 632441

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id:	**CS-14 (6"-24")**	Matrix:	Soil	Date Received:	07.30.19 11.10
Lab Sample Id:	632441-028	Date Collected:	07.29.19 14.38	Sample Depth:	6 - 24
Analytical Method:	Pesticides by SW-846 8081B			Prep Method:	SW3550
Tech:	JSE			% Moisture:	28.29
Analyst:	MCK	Date Prep:	08.06.19 12.00	Basis:	Dry Weight
Seq Number:	3097729			SUB:	E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
4,4-DDD	72-54-8	0.00108 U	0.00465	0.00108	U	mg/kg	08.06.19 22.24	1
4,4-DDE	72-55-9	0.00232 U	0.00465	0.00232	U	mg/kg	08.06.19 22.24	1
4,4-DDT	50-29-3	0.000354 U	0.00465	0.000354	U	mg/kg	08.06.19 22.24	1
Aldrin	309-00-2	0.000506 U	0.00465	0.000506	U	mg/kg	08.06.19 22.24	1
Alpha-BHC	319-84-6	0.000949 U	0.00465	0.000949	U	mg/kg	08.06.19 22.24	1
Alpha-Chlordane	5103-71-9	0.000796 U	0.00465	0.000796	U	mg/kg	08.06.19 22.24	1
Beta-BHC	319-85-7	0.000661 U	0.00465	0.000661	U	mg/kg	08.06.19 22.24	1
Delta-BHC	319-86-8	0.00232 U	0.00465	0.00232	U	mg/kg	08.06.19 22.24	1
Dieldrin	60-57-1	0.000236 U	0.00465	0.000236	U	mg/kg	08.06.19 22.24	1
Endosulfan I	959-98-8	0.000282 U	0.00465	0.000282	U	mg/kg	08.06.19 22.24	1
Endosulfan II	33213-65-9	0.000519 U	0.00465	0.000519	U	mg/kg	08.06.19 22.24	1
Endosulfan Sulfate	1031-07-8	0.000385 U	0.00465	0.000385	U	mg/kg	08.06.19 22.24	1
Endrin	72-20-8	0.000406 U	0.00465	0.000406	U	mg/kg	08.06.19 22.24	1
Endrin Aldehyde	7421-93-4	0.000345 U	0.00465	0.000345	U	mg/kg	08.06.19 22.24	1
Endrin Ketone	53494-70-5	0.000503 U	0.00465	0.000503	U	mg/kg	08.06.19 22.24	1
Gamma-BHC (Lindane)	58-89-9	0.000612 U	0.00465	0.000612	U	mg/kg	08.06.19 22.24	1
Gamma-Chlordane	5103-74-2	0.00107 U	0.00465	0.00107	U	mg/kg	08.06.19 22.24	1
Heptachlor	76-44-8	0.000784 U	0.00465	0.000784	U	mg/kg	08.06.19 22.24	1
Heptachlor Epoxide	1024-57-3	0.000342 U	0.00465	0.000342	U	mg/kg	08.06.19 22.24	1
Methoxychlor	72-43-5	0.000707 U	0.00465	0.000707	U	mg/kg	08.06.19 22.24	1
Chlordane	12789-03-6	0.0333 U	0.116	0.0333	U	mg/kg	08.06.19 22.24	1
Toxaphene	8001-35-2	0.0158 U	0.116	0.0158	U	mg/kg	08.06.19 22.24	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	47	%	35-135	08.06.19 22.24	
Decachlorobiphenyl	2051-24-3	71	%	25-143	08.06.19 22.24	

Certificate of Analytical Results 632441

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-14 (6"-24")** Matrix: Soil Date Received:07.30.19 11.10

Lab Sample Id: 632441-028 Date Collected: 07.29.19 14.38 Sample Depth: 6 - 24

Analytical Method: SPLP Ammonia By EPA 350.1 Prep Method: E350.1P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.07.19 09.00

Seq Number: 3097787 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Ammonia (as N)	7664-41-7	**0.127**	0.100	0.0345		mg/L	08.07.19 15.42	1

Analytical Method: SPLP Nitrate-Nitrite by E353.2 Prep Method: E353.2P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.05.19 11.08

Seq Number: 3097532 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Nitrate-Nitrite	7727-37-9	**0.0295**	0.100	0.0283	I	mg/L	08.05.19 13.23	1

CHRONOLOGY OF HOLDING TIMES

Analytical Method : SPLP Ammonia By EPA 350.1
Work Order #: **632441**
Date Received: 07/30/19

Client : Universal Engineering Services Miam
Project ID: 2110.1900103

Field Sample ID	Lab Sample ID	Date Collected	Date Rotated	Max Holding Time Rotated (Days)	Time Held Rotated (Days)	Date Analyzed	Max Holding Time Analyzed (Days)	Time Held Analyzed (Days)	Q
CS-1 (0-6")	632441-001	07/29/19				08/06/19	28	8	
CS-1 (6"-24")	632441-002	07/29/19				08/06/19	28	8	
CS-2 (0-6")	632441-003	07/29/19				08/06/19	28	8	
CS-2 (6"-24")	632441-004	07/29/19				08/06/19	28	8	
CS-3 (0-6")	632441-005	07/29/19				08/06/19	28	8	
CS-3 (6"-24")	632441-006	07/29/19				08/06/19	28	8	
CS-4 (0-6")	632441-007	07/29/19				08/06/19	28	8	
CS-4 (6"-24")	632441-008	07/29/19				08/06/19	28	8	
CS-5 (0-6")	632441-009	07/29/19				08/06/19	28	8	
CS-5 (6"-24")	632441-010	07/29/19				08/06/19	28	8	
CS-6 (0-6")	632441-011	07/29/19				08/06/19	28	8	
CS-6 (6"-24")	632441-012	07/29/19				08/06/19	28	8	
CS-7 (0-6")	632441-013	07/29/19				08/06/19	28	8	
CS-7 (6"-24")	632441-014	07/29/19				08/07/19	28	9	
CS-8 (0-6")	632441-015	07/29/19				08/07/19	28	9	
CS-8 (6"-24")	632441-016	07/29/19				08/07/19	28	9	
CS-9 (0-6")	632441-017	07/29/19				08/07/19	28	9	
CS-9 (6"-24")	632441-018	07/29/19				08/07/19	28	9	
CS-10 (0-6")	632441-019	07/29/19				08/07/19	28	9	
CS-10 (6"-24")	632441-020	07/29/19				08/07/19	28	9	
CS-11 (0-6")	632441-021	07/29/19				08/07/19	28	9	
CS-11 (6"-24")	632441-022	07/29/19				08/07/19	28	9	
CS-12 (0-6")	632441-023	07/29/19				08/07/19	28	9	
CS-12 (6"-24")	632441-024	07/29/19				08/07/19	28	9	
CS-13 (0-6")	632441-025	07/29/19				08/07/19	28	9	
CS-13 (6"-24")	632441-026	07/29/19				08/07/19	28	9	
CS-14 (0-6")	632441-027	07/29/19				08/07/19	28	9	
CS-14 (6"-24")	632441-028	07/29/19				08/07/19	28	9	

CHRONOLOGY OF HOLDING TIMES

Analytical Method : SPLP Nitrate-Nitrite by E353.2
Work Order #: **632441**
Date Received: 07/30/19

Client : Universal Engineering Services Miam
Project ID: 2110.1900103

Field Sample ID	Lab Sample ID	Date Collected	Date Rotated	Max Holding Time Rotated (Days)	Time Held Rotated (Days)	Date Analyzed	Max Holding Time Analyzed (Days)	Time Held Analyzed (Days)	Q
CS-1 (0-6")	632441-001	07/29/19				08/05/19	28	7	
CS-1 (6"-24")	632441-002	07/29/19				08/05/19	28	7	
CS-2 (0-6")	632441-003	07/29/19				08/05/19	28	7	
CS-2 (6"-24")	632441-004	07/29/19				08/05/19	28	7	
CS-3 (0-6")	632441-005	07/29/19				08/05/19	28	7	
CS-3 (6"-24")	632441-006	07/29/19				08/05/19	28	7	
CS-4 (0-6")	632441-007	07/29/19				08/05/19	28	7	
CS-4 (6"-24")	632441-008	07/29/19				08/05/19	28	7	
CS-5 (0-6")	632441-009	07/29/19				08/05/19	28	7	
CS-5 (6"-24")	632441-010	07/29/19				08/05/19	28	7	
CS-6 (0-6")	632441-011	07/29/19				08/05/19	28	7	
CS-6 (6"-24")	632441-012	07/29/19				08/05/19	28	7	
CS-7 (0-6")	632441-013	07/29/19				08/05/19	28	7	
CS-7 (6"-24")	632441-014	07/29/19				08/05/19	28	7	
CS-8 (0-6")	632441-015	07/29/19				08/05/19	28	7	
CS-8 (6"-24")	632441-016	07/29/19				08/05/19	28	7	
CS-9 (0-6")	632441-017	07/29/19				08/05/19	28	7	
CS-9 (6"-24")	632441-018	07/29/19				08/05/19	28	7	
CS-10 (0-6")	632441-019	07/29/19				08/05/19	28	7	
CS-10 (6"-24")	632441-020	07/29/19				08/05/19	28	7	
CS-11 (0-6")	632441-021	07/29/19				08/05/19	28	7	
CS-11 (6"-24")	632441-022	07/29/19				08/05/19	28	7	
CS-12 (0-6")	632441-023	07/29/19				08/05/19	28	7	
CS-12 (6"-24")	632441-024	07/29/19				08/05/19	28	7	
CS-13 (0-6")	632441-025	07/29/19				08/05/19	28	7	
CS-13 (6"-24")	632441-026	07/29/19				08/05/19	28	7	
CS-14 (0-6")	632441-027	07/29/19				08/05/19	28	7	
CS-14 (6"-24")	632441-028	07/29/19				08/05/19	28	7	

CHRONOLOGY OF HOLDING TIMES

Analytical Method : Percent Moisture by SM2540G
Work Order #: **632441**
Date Received: 07/30/19

Client : Universal Engineering Services Miam
Project ID: 2110.1900103

Field Sample ID	Lab Sample ID	Date Collected	Date Extracted	Max Holding Time Extracted (Days)	Time Held Extracted (Days)	Date Analyzed	Max Holding Time Analyzed (Days)	Time Held Analyzed (Days)	Q
CS-1 (0-6")	632441-001	07/29/19				08/02/19	180	4	
CS-1 (6"-24")	632441-002	07/29/19				08/02/19	180	4	
CS-2 (0-6")	632441-003	07/29/19				08/02/19	180	4	
CS-2 (6"-24")	632441-004	07/29/19				08/02/19	180	4	
CS-3 (0-6")	632441-005	07/29/19				08/02/19	180	4	
CS-3 (6"-24")	632441-006	07/29/19				08/02/19	180	4	
CS-4 (0-6")	632441-007	07/29/19				08/02/19	180	4	
CS-4 (6"-24")	632441-008	07/29/19				08/02/19	180	4	
CS-5 (0-6")	632441-009	07/29/19				08/02/19	180	4	
CS-5 (6"-24")	632441-010	07/29/19				08/02/19	180	4	
CS-6 (0-6")	632441-011	07/29/19				08/02/19	180	4	
CS-6 (6"-24")	632441-012	07/29/19				08/02/19	180	4	
CS-7 (0-6")	632441-013	07/29/19				08/02/19	180	4	
CS-7 (6"-24")	632441-014	07/29/19				08/02/19	180	4	
CS-8 (0-6")	632441-015	07/29/19				08/02/19	180	4	
CS-8 (6"-24")	632441-016	07/29/19				08/02/19	180	4	
CS-9 (0-6")	632441-017	07/29/19				08/02/19	180	4	
CS-9 (6"-24")	632441-018	07/29/19				08/02/19	180	4	
CS-10 (0-6")	632441-019	07/29/19				08/02/19	180	4	
CS-10 (6"-24")	632441-020	07/29/19				08/02/19	180	4	
CS-11 (0-6")	632441-021	07/29/19				08/02/19	180	4	
CS-11 (6"-24")	632441-022	07/29/19				08/02/19	180	4	
CS-12 (0-6")	632441-023	07/29/19				08/02/19	180	4	
CS-12 (6"-24")	632441-024	07/29/19				08/02/19	180	4	
CS-13 (0-6")	632441-025	07/29/19				08/02/19	180	4	
CS-13 (6"-24")	632441-026	07/29/19				08/02/19	180	4	
CS-14 (0-6")	632441-027	07/29/19				08/02/19	180	4	
CS-14 (6"-24")	632441-028	07/29/19				08/02/19	180	4	

CHRONOLOGY OF HOLDING TIMES

Analytical Method : Metals, Total by SW846 6010C
Work Order #: **632441**
Date Received: 07/30/19

Client : Universal Engineering Services Miam
Project ID: 2110.1900103

Field Sample ID	Lab Sample ID	Date Collected	Date Extracted	Max Holding Time Extracted (Days)	Time Held Extracted (Days)	Date Analyzed	Max Holding Time Analyzed (Days)	Time Held Analyzed (Days)	Q
CS-1 (0-6")	632441-001	07/29/19	08/02/19	180	4	08/02/19	180	0	
CS-1 (6"-24")	632441-002	07/29/19	08/02/19	180	4	08/05/19	180	3	
CS-2 (0-6")	632441-003	07/29/19	08/02/19	180	4	08/05/19	180	3	
CS-2 (6"-24")	632441-004	07/29/19	08/02/19	180	4	08/05/19	180	3	
CS-3 (0-6")	632441-005	07/29/19	08/02/19	180	4	08/05/19	180	3	
CS-3 (6"-24")	632441-006	07/29/19	08/02/19	180	4	08/05/19	180	3	
CS-4 (0-6")	632441-007	07/29/19	08/02/19	180	4	08/05/19	180	3	
CS-4 (6"-24")	632441-008	07/29/19	08/02/19	180	4	08/05/19	180	3	
CS-5 (0-6")	632441-009	07/29/19	08/02/19	180	4	08/05/19	180	3	
CS-5 (6"-24")	632441-010	07/29/19	08/02/19	180	4	08/05/19	180	3	
CS-6 (0-6")	632441-011	07/29/19	08/02/19	180	4	08/05/19	180	3	
CS-6 (6"-24")	632441-012	07/29/19	08/02/19	180	4	08/04/19	180	2	
CS-7 (0-6")	632441-013	07/29/19	08/02/19	180	4	08/04/19	180	2	
CS-7 (6"-24")	632441-014	07/29/19	08/02/19	180	4	08/04/19	180	2	
CS-8 (0-6")	632441-015	07/29/19	08/02/19	180	4	08/04/19	180	2	
CS-8 (6"-24")	632441-016	07/29/19	08/02/19	180	4	08/04/19	180	2	
CS-9 (0-6")	632441-017	07/29/19	08/02/19	180	4	08/04/19	180	2	
CS-9 (6"-24")	632441-018	07/29/19	08/02/19	180	4	08/04/19	180	2	
CS-10 (0-6")	632441-019	07/29/19	08/02/19	180	4	08/04/19	180	2	
CS-10 (6"-24")	632441-020	07/29/19	08/02/19	180	4	08/04/19	180	2	
CS-11 (0-6")	632441-021	07/29/19	08/02/19	180	4	08/04/19	180	2	
CS-11 (6"-24")	632441-022	07/29/19	08/02/19	180	4	08/04/19	180	2	
CS-12 (0-6")	632441-023	07/29/19	08/02/19	180	4	08/04/19	180	2	
CS-12 (6"-24")	632441-024	07/29/19	08/02/19	180	4	08/04/19	180	2	
CS-13 (0-6")	632441-025	07/29/19	08/02/19	180	4	08/04/19	180	2	
CS-13 (6"-24")	632441-026	07/29/19	08/02/19	180	4	08/04/19	180	2	
CS-14 (0-6")	632441-027	07/29/19	08/02/19	180	4	08/04/19	180	2	
CS-14 (6"-24")	632441-028	07/29/19	08/02/19	180	4	08/04/19	180	2	

CHRONOLOGY OF HOLDING TIMES

Analytical Method : Pesticides by SW-846 8081B
Work Order #: **632441**
Date Received: 07/30/19

Client : Universal Engineering Services Miam
Project ID: 2110.1900103

Field Sample ID	Lab Sample ID	Date Collected	Date Extracted	Max Holding Time Extracted (Days)	Time Held Extracted (Days)	Date Analyzed	Max Holding Time Analyzed (Days)	Time Held Analyzed (Days)	Q
CS-1 (0-6")	632441-001	07/29/19	08/06/19	14	8	08/06/19	40	0	
CS-1 (6"-24")	632441-002	07/29/19	08/06/19	14	8	08/06/19	40	0	
CS-2 (0-6")	632441-003	07/29/19	08/06/19	14	8	08/06/19	40	0	
CS-2 (6"-24")	632441-004	07/29/19	08/06/19	14	8	08/06/19	40	0	
CS-3 (0-6")	632441-005	07/29/19	08/06/19	14	8	08/06/19	40	0	
CS-3 (6"-24")	632441-006	07/29/19	08/06/19	14	8	08/06/19	40	0	
CS-4 (0-6")	632441-007	07/29/19	08/06/19	14	8	08/06/19	40	0	
CS-4 (6"-24")	632441-008	07/29/19	08/06/19	14	8	08/06/19	40	0	
CS-5 (0-6")	632441-009	07/29/19	08/06/19	14	8	08/06/19	40	0	
CS-5 (6"-24")	632441-010	07/29/19	08/06/19	14	8	08/06/19	40	0	
CS-6 (0-6")	632441-011	07/29/19	08/06/19	14	8	08/06/19	40	0	
CS-6 (6"-24")	632441-012	07/29/19	08/06/19	14	8	08/06/19	40	0	
CS-7 (0-6")	632441-013	07/29/19	08/06/19	14	8	08/06/19	40	0	
CS-7 (6"-24")	632441-014	07/29/19	08/06/19	14	8	08/06/19	40	0	
CS-8 (0-6")	632441-015	07/29/19	08/06/19	14	8	08/06/19	40	0	
CS-8 (6"-24")	632441-016	07/29/19	08/06/19	14	8	08/06/19	40	0	
CS-9 (0-6")	632441-017	07/29/19	08/06/19	14	8	08/06/19	40	0	
CS-9 (6"-24")	632441-018	07/29/19	08/06/19	14	8	08/06/19	40	0	
CS-10 (0-6")	632441-019	07/29/19	08/06/19	14	8	08/06/19	40	0	
CS-10 (6"-24")	632441-020	07/29/19	08/06/19	14	8	08/06/19	40	0	
CS-11 (0-6")	632441-021	07/29/19	08/06/19	14	8	08/06/19	40	0	
CS-11 (6"-24")	632441-022	07/29/19	08/06/19	14	8	08/06/19	40	0	
CS-12 (0-6")	632441-023	07/29/19	08/06/19	14	8	08/06/19	40	0	
CS-12 (6"-24")	632441-024	07/29/19	08/06/19	14	8	08/06/19	40	0	
CS-13 (0-6")	632441-025	07/29/19	08/06/19	14	8	08/06/19	40	0	
CS-13 (6"-24")	632441-026	07/29/19	08/06/19	14	8	08/06/19	40	0	
CS-14 (0-6")	632441-027	07/29/19	08/06/19	14	8	08/06/19	40	0	
CS-14 (6"-24")	632441-028	07/29/19	08/06/19	14	8	08/06/19	40	0	

CHRONOLOGY OF HOLDING TIMES

Analytical Method : EPA 8141 Organophosphorus Pesticides by GC
Work Order #: **632441**
Date Received: 07/30/19

Client : Universal Engineering Services Miam
Project ID: 2110.1900103

Field Sample ID	Lab Sample ID	Date Collected	Date Extracted	Max Holding Time Extracted (Days)	Time Held Extracted (Days)	Date Analyzed	Max Holding Time Analyzed (Days)	Time Held Analyzed (Days)	Q
CS-1 (0-6")	632441-001	07/29/19	08/02/19	14	4	08/05/19	40	3	
CS-1 (6"-24")	632441-002	07/29/19	08/02/19	14	4	08/05/19	40	3	
CS-2 (0-6")	632441-003	07/29/19	08/02/19	14	4	08/06/19	40	4	
CS-2 (6"-24")	632441-004	07/29/19	08/02/19	14	4	08/06/19	40	4	
CS-3 (0-6")	632441-005	07/29/19	08/02/19	14	4	08/06/19	40	4	
CS-3 (6"-24")	632441-006	07/29/19	08/02/19	14	4	08/06/19	40	4	
CS-4 (0-6")	632441-007	07/29/19	08/02/19	14	4	08/06/19	40	4	
CS-4 (6"-24")	632441-008	07/29/19	08/02/19	14	4	08/06/19	40	4	
CS-5 (0-6")	632441-009	07/29/19	08/02/19	14	4	08/06/19	40	4	
CS-5 (6"-24")	632441-010	07/29/19	08/02/19	14	4	08/06/19	40	4	
CS-6 (0-6")	632441-011	07/29/19	08/02/19	14	4	08/06/19	40	4	
CS-6 (6"-24")	632441-012	07/29/19	08/05/19	14	7	08/07/19	40	2	
CS-7 (0-6")	632441-013	07/29/19	08/02/19	14	4	08/06/19	40	4	
CS-7 (6"-24")	632441-014	07/29/19	08/02/19	14	4	08/06/19	40	4	
CS-8 (0-6")	632441-015	07/29/19	08/02/19	14	4	08/06/19	40	4	
CS-8 (6"-24")	632441-016	07/29/19	08/02/19	14	4	08/06/19	40	4	
CS-9 (0-6")	632441-017	07/29/19	08/02/19	14	4	08/07/19	40	5	
CS-9 (6"-24")	632441-018	07/29/19	08/02/19	14	4	08/07/19	40	5	
CS-10 (0-6")	632441-019	07/29/19	08/02/19	14	4	08/07/19	40	5	
CS-10 (6"-24")	632441-020	07/29/19	08/02/19	14	4	08/07/19	40	5	
CS-11 (0-6")	632441-021	07/29/19	08/02/19	14	4	08/07/19	40	5	
CS-11 (6"-24")	632441-022	07/29/19	08/05/19	14	7	08/07/19	40	2	
CS-12 (0-6")	632441-023	07/29/19	08/05/19	14	7	08/07/19	40	2	
CS-12 (6"-24")	632441-024	07/29/19	08/05/19	14	7	08/07/19	40	2	
CS-13 (0-6")	632441-025	07/29/19	08/05/19	14	7	08/07/19	40	2	
CS-13 (6"-24")	632441-026	07/29/19	08/05/19	14	7	08/07/19	40	2	
CS-14 (0-6")	632441-027	07/29/19	08/05/19	14	7	08/07/19	40	2	
CS-14 (6"-24")	632441-028	07/29/19	08/05/19	14	7	08/07/19	40	2	

F = These samples were analyzed outside the recommended holding time.

Flagging Criteria

FLORIDA flagging criteria

Data were reviewed by the
Department Supervisor and QA Director

A Value reported is the mean (average) of two or more determinations.

B Results based upon colony counts outside the acceptable range.

J Estimated value; value not accurate. All results with a "J" qualifier require comment.

- J1: Surrogate Recoveries exceed established QA/QC Limits
- J2: No known QA/QC exists.
- J3: Reported value failed to meet established QA/QC limits or the sample matrix interfered with the ability to make an accurate determination
- J4: The data is questionable due to improper laboratory or field protocols

Q Sample held beyond the accepted holding time

T Value reported is less than the laboratory method detection limit. The value is reported for informational purposes, only and shall not be used in statistical analysis.

U Compound was analyzed for but not detected at the MDL Level.

V Analyte was detected in both the sample and the associated method blank.

Y Laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.

I The reported value is between the laboratory MDL and the laboratory PQL.

R Significant rain in the past 48 hours.

\+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

L Off-scale high. Actual value is known to be greater than value given. To be used when the concentration of the analyte is above the acceptable level for quantitation (exceeds the linear range or highest calibration standard) and the calibration curve is known to exhibit a negative deflection.

QC Summary 632441

Universal Engineering Services Miami

Proposed Publix

Analytical Method: **Percent Moisture by SM2540G**
Seq Number: 3097281 Matrix: Soil
Parent Sample Id: 632441-001 MD Sample Id: 632441-001 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Percent Moisture	8.90	9.13	3	10	%	08.02.19 11:45	

Analytical Method: **Percent Moisture by SM2540G**
Seq Number: 3097281 Matrix: Soil
Parent Sample Id: 632441-011 MD Sample Id: 632441-011 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Percent Moisture	28.0	31.5	12	10	%	08.02.19 11:45	J

Analytical Method: **Percent Moisture by SM2540G**
Seq Number: 3097287 Matrix: Soil
Parent Sample Id: 632441-021 MD Sample Id: 632441-021 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Percent Moisture	41.7	41.6	0	10	%	08.02.19 12:15	

Analytical Method: **Metals, Total by SW846 6010C** Prep Method: SW3050B
Seq Number: 3097365 Matrix: Solid Date Prep: 08.02.19
MB Sample Id: 7683379-1-BLK LCS Sample Id: 7683379-1-BKS LCSD Sample Id: 7683379-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Arsenic	<0.424	100	95.3	95	93.4	93	75-125	2	20	mg/kg	08.02.19 13:02	
Chromium	<0.0704	100	99.0	99	99.1	99	75-125	0	20	mg/kg	08.02.19 13:02	
Copper	<0.443	100	94.8	95	95.0	95	75-125	0	20	mg/kg	08.02.19 13:02	
Iron	<2.70	500	483	97	484	97	75-125	0	20	mg/kg	08.02.19 13:02	
Lead	<0.476	100	96.6	97	97.5	98	75-125	1	20	mg/kg	08.02.19 13:02	
Manganese	<0.278	100	95.3	95	95.2	95	75-125	0	20	mg/kg	08.02.19 13:02	

MS/MSD Percent Recovery [D] = 100*(C-A) / B LCS = Laboratory Control Sample MS = Matrix Spike
Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result B = Spike Added
LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result D = MSD/LCSD % Rec
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

QC Summary 632441

Universal Engineering Services Miami

Proposed Publix

Analytical Method: Metals, Total by SW846 6010C — Prep Method: SW3050B
Seq Number: 3097481 — Matrix: Solid — Date Prep: 08.02.19
MB Sample Id: 7683419-1-BLK — LCS Sample Id: 7683419-1-BKS — LCSD Sample Id: 7683419-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Arsenic	<0.424	100	98.6	99	97.4	97	75-125	1	20	mg/kg	08.04.19 14:10	
Chromium	<0.0704	100	102	102	102	102	75-125	0	20	mg/kg	08.04.19 14:10	
Copper	<0.443	100	99.2	99	98.9	99	75-125	0	20	mg/kg	08.04.19 14:10	
Iron	<2.70	500	491	98	491	98	75-125	0	20	mg/kg	08.04.19 14:10	
Lead	<0.476	100	102	102	102	102	75-125	0	20	mg/kg	08.04.19 14:10	
Manganese	<0.278	100	106	106	105	105	75-125	1	20	mg/kg	08.04.19 14:10	

Analytical Method: Metals, Total by SW846 6010C — Prep Method: SW3050B
Seq Number: 3097365 — Matrix: Soil — Date Prep: 08.02.19
Parent Sample Id: 632441-001 — MS Sample Id: 632441-001 S — MSD Sample Id: 632441-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Arsenic	<0.447	106	88.8	84	91.5	85	75-125	3	20	mg/kg	08.02.19 13:14	
Chromium	5.58	106	99.3	88	101	88	75-125	2	20	mg/kg	08.02.19 13:14	
Copper	13.3	106	107	88	109	89	75-125	2	20	mg/kg	08.02.19 13:14	
Iron	791	528	1440	123	1460	124	75-125	1	20	mg/kg	08.02.19 13:14	
Lead	<0.502	106	87.0	82	90.0	83	75-125	3	20	mg/kg	08.02.19 13:14	
Manganese	103	106	208	99	213	102	75-125	2	20	mg/kg	08.02.19 13:14	

Analytical Method: Metals, Total by SW846 6010C — Prep Method: SW3050B
Seq Number: 3097481 — Matrix: Soil — Date Prep: 08.02.19
Parent Sample Id: 632441-012 — MS Sample Id: 632441-012 S — MSD Sample Id: 632441-012 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Arsenic	<0.558	132	122	92	109	92	75-125	11	20	mg/kg	08.04.19 14:23	
Chromium	0.383	132	132	100	119	101	75-125	10	20	mg/kg	08.04.19 14:23	
Copper	4.20	132	137	101	123	101	75-125	11	20	mg/kg	08.04.19 14:23	
Iron	1280	658	1700	64	1530	42	75-125	11	20	mg/kg	08.04.19 14:23	J
Lead	0.753	132	129	97	116	98	75-125	11	20	mg/kg	08.04.19 14:23	
Manganese	49.7	132	180	99	162	95	75-125	11	20	mg/kg	08.04.19 14:23	

Analytical Method: SPLP Ammonia By EPA 350.1 — Prep Method: E350.1P
Seq Number: 3097678 — Matrix: Water — Date Prep: 08.06.19
MB Sample Id: 7683649-1-BLK — LCS Sample Id: 7683649-1-BKS — LCSD Sample Id: 7683649-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Nitrogen, Ammonia (as N)	<0.0345	1.00	0.982	98	0.972	97	90-110	1	20	mg/L	08.06.19 15:07	

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

QC Summary 632441

Universal Engineering Services Miami

Proposed Publix

Analytical Method: SPLP Ammonia By EPA 350.1 — Prep Method: E350.1P
Seq Number: 3097787 — Matrix: Water — Date Prep: 08.07.19
MB Sample Id: 7683712-1-BLK — LCS Sample Id: 7683712-1-BKS — LCSD Sample Id: 7683712-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Nitrogen, Ammonia (as N)	<0.0345	1.00	1.02	102	1.00	100	90-110	2	20	mg/L	08.07.19 15:19	

Analytical Method: SPLP Ammonia By EPA 350.1 — Prep Method: E350.1P
Seq Number: 3097678 — Matrix: Soil — Date Prep: 08.06.19
Parent Sample Id: 632441-001 — MS Sample Id: 632441-001 S — MSD Sample Id: 632441-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Nitrogen, Ammonia (as N)	0.573	1.00	1.52	95	1.54	97	90-110	1	20	mg/L	08.06.19 15:14	

Analytical Method: SPLP Ammonia By EPA 350.1 — Prep Method: E350.1P
Seq Number: 3097678 — Matrix: Soil — Date Prep: 08.06.19
Parent Sample Id: 632441-011 — MS Sample Id: 632441-011 S — MSD Sample Id: 632441-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Nitrogen, Ammonia (as N)	0.253	1.00	1.25	100	1.27	102	90-110	2	20	mg/L	08.06.19 15:28	

Analytical Method: SPLP Ammonia By EPA 350.1 — Prep Method: E350.1P
Seq Number: 3097787 — Matrix: Soil — Date Prep: 08.07.19
Parent Sample Id: 632441-014 — MS Sample Id: 632441-014 S — MSD Sample Id: 632441-014 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Nitrogen, Ammonia (as N)	0.0850	1.00	1.11	103	1.14	106	90-110	3	20	mg/L	08.07.19 15:22	

Analytical Method: SPLP Ammonia By EPA 350.1 — Prep Method: E350.1P
Seq Number: 3097787 — Matrix: Soil — Date Prep: 08.07.19
Parent Sample Id: 632441-024 — MS Sample Id: 632441-024 S — MSD Sample Id: 632441-024 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Nitrogen, Ammonia (as N)	0.0525	1.00	1.14	109	1.18	113	90-110	3	20	mg/L	08.07.19 15:35	J

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

QC Summary 632441

Universal Engineering Services Miami

Proposed Publix

Analytical Method: SPLP Nitrate-Nitrite by E353.2 — Prep Method: E353.2P
Seq Number: 3097530 — Matrix: Water — Date Prep: 08.05.19
MB Sample Id: 7683537-1-BLK — LCS Sample Id: 7683537-1-BKS — LCSD Sample Id: 7683537-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Nitrogen, Nitrate-Nitrite	<0.0283	1.00	0.949	95	0.975	98	90-110	3	20	mg/L	08.05.19 12:10	

Analytical Method: SPLP Nitrate-Nitrite by E353.2 — Prep Method: E353.2P
Seq Number: 3097532 — Matrix: Water — Date Prep: 08.05.19
MB Sample Id: 7683538-1-BLK — LCS Sample Id: 7683538-1-BKS — LCSD Sample Id: 7683538-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Nitrogen, Nitrate-Nitrite	<0.0283	1.00	0.964	96	0.969	97	90-110	1	20	mg/L	08.05.19 13:02	

Analytical Method: SPLP Nitrate-Nitrite by E353.2 — Prep Method: E353.2P
Seq Number: 3097530 — Matrix: Soil — Date Prep: 08.05.19
Parent Sample Id: 632441-001 — MS Sample Id: 632441-001 S — MSD Sample Id: 632441-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Nitrogen, Nitrate-Nitrite	0.0632	1.00	1.07	101	1.01	95	90-110	6	20	mg/L	08.05.19 12:15	

Analytical Method: SPLP Nitrate-Nitrite by E353.2 — Prep Method: E353.2P
Seq Number: 3097530 — Matrix: Soil — Date Prep: 08.05.19
Parent Sample Id: 632441-011 — MS Sample Id: 632441-011 S — MSD Sample Id: 632441-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Nitrogen, Nitrate-Nitrite	0.0585	1.00	1.01	95	1.05	99	90-110	4	20	mg/L	08.05.19 12:39	

Analytical Method: SPLP Nitrate-Nitrite by E353.2 — Prep Method: E353.2P
Seq Number: 3097532 — Matrix: Soil — Date Prep: 08.05.19
Parent Sample Id: 632441-021 — MS Sample Id: 632441-021 S — MSD Sample Id: 632441-021 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Nitrogen, Nitrate-Nitrite	0.0790	1.00	1.13	105	1.09	101	90-110	4	20	mg/L	08.05.19 13:10	

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* | (C-E) / (C+E) |
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

QC Summary 632441

Universal Engineering Services Miami

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Analytical Method: SPLP Nitrate-Nitrite by E353.2 Prep Method: E353.2P
Seq Number: 3097532 Matrix: Water Date Prep: 08.05.19
Parent Sample Id: 632618-001 MS Sample Id: 632618-001 S MSD Sample Id: 632618-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Nitrogen, Nitrate-Nitrite	<0.0283	1.00	0.986	99	0.968	97	90-110	2	20	mg/L	08.05.19 13:33	

Analytical Method: EPA 8141 Organophosphorus Pesticides by GC Prep Method: SW3550
Seq Number: 3097570 Matrix: Solid Date Prep: 08.02.19
MB Sample Id: 7683485-1-BLK LCS Sample Id: 7683485-1-BKS LCSD Sample Id: 7683485-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
azinphos-methyl	<0.00164	0.0329	0.0539	164	0.0563	170	61-133	4	20	mg/kg	08.05.19 18:43	J
Chlorfenvinphos	<0.00164	0.0329	0.0707	215	0.0695	210	38-132	2	20	mg/kg	08.05.19 18:43	J
Chlorpyrifos	<0.00164	0.0329	0.0312	95	0.0311	94	54-124	0	20	mg/kg	08.05.19 18:43	
Chlorpyrifos methyl	<0.00164	0.0329	0.0349	106	0.0344	104	38-129	1	20	mg/kg	08.05.19 18:43	
Coumaphos	<0.00164	0.0329	0.0431	131	0.0421	127	58-127	2	20	mg/kg	08.05.19 18:43	J
Demeton-O	<0.00164	0.0329	0.0211	64	0.0212	64	21-131	0	20	mg/kg	08.05.19 18:43	
Demeton-S	<0.00164	0.0329	0.0214	65	0.0202	61	13-127	6	20	mg/kg	08.05.19 18:43	
Diazinon	<0.00164	0.0329	0.0293	89	0.0252	76	53-116	15	20	mg/kg	08.05.19 18:43	
Dimethoate	<0.00164	0.0329	0.0342	104	0.0334	101	16-116	2	20	mg/kg	08.05.19 18:43	
EPN (Ent)	<0.00164	0.0329	0.0355	108	0.0351	106	50-135	1	20	mg/kg	08.05.19 18:43	
Ethoprop	<0.00164	0.0329	0.0316	96	0.0311	94	57-122	2	20	mg/kg	08.05.19 18:43	
Fensulfothion	<0.00164	0.0329	0.0368	112	0.0368	111	27-141	0	20	mg/kg	08.05.19 18:43	
Fenthion	<0.00164	0.0329	0.0319	97	0.0318	96	45-125	0	20	mg/kg	08.05.19 18:43	
Malathion	<0.00164	0.0329	0.0306	93	0.0328	99	49-129	7	20	mg/kg	08.05.19 18:43	
Merphos	<0.00164	0.0329	0.0497	151	0.0477	144	31-130	4	20	mg/kg	08.05.19 18:43	J
Mevinphos	<0.00164	0.0329	0.0309	94	0.0305	92	40-117	1	20	mg/kg	08.05.19 18:43	
Monocrotophos	<0.00164	0.0329	0.0378	115	0.0351	106	54-105	7	20	mg/kg	08.05.19 18:43	J
Naled	<0.00164	0.0658	0.0615	93	0.0589	89	53-130	4	20	mg/kg	08.05.19 18:43	
Parathion, Ethyl	<0.00164	0.0658	0.0707	107	0.0695	105	54-127	2	20	mg/kg	08.05.19 18:43	
Parathion, Methyl	<0.00164	0.0329	0.0349	106	0.0351	106	57-125	1	20	mg/kg	08.05.19 18:43	
Phorate	<0.00164	0.0329	0.0286	87	0.0281	85	46-126	2	20	mg/kg	08.05.19 18:43	
Ronnel	<0.00164	0.0658	0.0493	75	0.0474	72	42-130	4	20	mg/kg	08.05.19 18:43	
stirophos	<0.00164	0.0329	0.0332	101	0.0331	100	56-126	0	20	mg/kg	08.05.19 18:43	
Sulfotep	<0.00164	0.0658	0.0595	90	0.0613	93	45-127	3	20	mg/kg	08.05.19 18:43	
Sulprofos	<0.00164	0.0329	0.0293	89	0.0288	87	62-124	2	20	mg/kg	08.05.19 18:43	
TEPP	<0.00164	0.0329	0.0322	98	0.0298	90	2-106	8	20	mg/kg	08.05.19 18:43	
Tokuthion	<0.00164	0.0329	0.0332	101	0.0328	99	63-119	1	20	mg/kg	08.05.19 18:43	
Trichlorfon	<0.00164	0.0329	0.0329	100	0.0348	105	12-120	6	20	mg/kg	08.05.19 18:43	
Trichloronate	<0.00164	0.0329	0.0309	94	0.0311	94	51-133	1	20	mg/kg	08.05.19 18:43	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
Tributyl Phosphate	71		112		118		38-123	%	08.05.19 18:43

MS/MSD Percent Recovery [D] = 100*(C-A) / B LCS = Laboratory Control Sample MS = Matrix Spike
Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result B = Spike Added
LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result D = MSD/LCSD % Rec
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

QC Summary 632441

Universal Engineering Services Miami

Proposed Publix

Analytical Method: **EPA 8141 Organophosphorus Pesticides by GC** Prep Method: SW3550

Seq Number: 3097713 Matrix: Solid Date Prep: 08.05.19

MB Sample Id: 7683543-1-BLK LCS Sample Id: 7683543-1-BKS LCSD Sample Id: 7683543-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
azinphos-methyl	<0.00166	0.0331	0.0374	113	0.0388	119	61-133	4	20	mg/kg	08.06.19 21:32	
Chlorfenvinphos	<0.00166	0.0331	0.0762	230	0.0759	233	38-132	0	20	mg/kg	08.06.19 21:32	J
Chlorpyrifos	<0.00166	0.0331	0.0354	107	0.0378	116	54-124	7	20	mg/kg	08.06.19 21:32	
Chlorpyrifos methyl	<0.00166	0.0331	0.0384	116	0.0391	120	38-129	2	20	mg/kg	08.06.19 21:32	
Coumaphos	<0.00166	0.0331	0.0364	110	0.0381	117	58-127	5	20	mg/kg	08.06.19 21:32	
Demeton-O	<0.00166	0.0331	0.0185	56	0.0150	46	21-131	21	20	mg/kg	08.06.19 21:32	J
Demeton-S	<0.00166	0.0331	0.0169	51	0.0134	41	13-127	23	20	mg/kg	08.06.19 21:32	J
Diazinon	<0.00166	0.0331	0.0334	101	0.0322	99	53-116	4	20	mg/kg	08.06.19 21:32	
Dimethoate	<0.00166	0.0331	0.0377	114	0.0384	118	16-116	2	20	mg/kg	08.06.19 21:32	J
EPN (Ent)	<0.00166	0.0331	0.0368	111	0.0371	114	50-135	1	20	mg/kg	08.06.19 21:32	
Ethoprop	<0.00166	0.0331	0.0368	111	0.0365	112	57-122	1	20	mg/kg	08.06.19 21:32	
Fensulfothion	<0.00166	0.0331	0.0348	105	0.0349	107	27-141	0	20	mg/kg	08.06.19 21:32	
Fenthion	<0.00166	0.0331	0.0334	101	0.0332	102	45-125	1	20	mg/kg	08.06.19 21:32	
Malathion	<0.00166	0.0331	0.0358	108	0.0355	109	49-129	1	20	mg/kg	08.06.19 21:32	
Merphos	<0.00166	0.0331	0.0586	177	0.0586	180	31-130	0	20	mg/kg	08.06.19 21:32	J
Mevinphos	<0.00166	0.0331	0.0351	106	0.0349	107	40-117	1	20	mg/kg	08.06.19 21:32	
Monocrotophos	<0.00166	0.0331	0.0401	121	0.0414	127	54-105	3	20	mg/kg	08.06.19 21:32	J
Naled	<0.00166	0.0662	0.0699	106	0.0694	107	53-130	1	20	mg/kg	08.06.19 21:32	
Parathion, Ethyl	<0.00166	0.0662	0.0765	116	0.0759	117	54-127	1	20	mg/kg	08.06.19 21:32	
Parathion, Methyl	<0.00166	0.0331	0.0374	113	0.0371	114	57-125	1	20	mg/kg	08.06.19 21:32	
Phorate	<0.00166	0.0331	0.0305	92	0.0293	90	46-126	4	20	mg/kg	08.06.19 21:32	
Ronnel	<0.00166	0.0662	0.0583	88	0.0583	90	42-130	0	20	mg/kg	08.06.19 21:32	
stirophos	<0.00166	0.0331	0.0361	109	0.0362	111	56-126	0	20	mg/kg	08.06.19 21:32	
Sulfotep	<0.00166	0.0662	0.0685	103	0.0681	105	45-127	1	20	mg/kg	08.06.19 21:32	
Sulprofos	<0.00166	0.0331	0.0298	90	0.0290	89	62-124	3	20	mg/kg	08.06.19 21:32	
TEPP	<0.00166	0.0331	0.0358	108	0.0352	108	2-106	2	20	mg/kg	08.06.19 21:32	J
Tokuthion	<0.00166	0.0331	0.0374	113	0.0371	114	63-119	1	20	mg/kg	08.06.19 21:32	
Trichlorfon	<0.00166	0.0331	0.0384	116	0.0378	116	12-120	2	20	mg/kg	08.06.19 21:32	
Trichloronate	<0.00166	0.0331	0.0348	105	0.0345	106	51-133	1	20	mg/kg	08.06.19 21:32	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
Tributyl Phosphate	61		114		111		38-123	%	08.06.19 21:32

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* | (C-E) / (C+E) |
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

QC Summary 632441

Universal Engineering Services Miami

Proposed Publix

Analytical Method: **EPA 8141 Organophosphorus Pesticides by GC** Prep Method: SW3550

Seq Number: 3097713 Matrix: Soil Date Prep: 08.05.19

Parent Sample Id: 632441-027 MS Sample Id: 632441-027 S MSD Sample Id: 632441-027 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
azinphos-methyl	<0.00167	0.0333	0.0417	125	0.0408	124	61-133	2	20	mg/kg	08.07.19 06:57	
Chlorfenvinphos	<0.00167	0.0333	0.0703	211	0.0694	211	38-132	1	20	mg/kg	08.07.19 06:57	J
Chlorpyrifos	<0.00167	0.0333	0.0330	99	0.0319	97	54-124	3	20	mg/kg	08.07.19 06:57	
Chlorpyrifos methyl	<0.00167	0.0333	0.0377	113	0.0372	113	38-129	1	20	mg/kg	08.07.19 06:57	
Coumaphos	<0.00167	0.0333	0.0360	108	0.0365	111	58-127	1	20	mg/kg	08.07.19 06:57	
Demeton-O	<0.00167	0.0333	0.0233	70	0.0240	73	21-131	3	20	mg/kg	08.07.19 06:57	
Demeton-S	<0.00167	0.0333	0.0240	72	0.0247	75	13-127	3	20	mg/kg	08.07.19 06:57	
Diazinon	<0.00167	0.0333	0.0323	97	0.0312	95	53-116	3	20	mg/kg	08.07.19 06:57	
Dimethoate	<0.00167	0.0333	0.0363	109	0.0349	106	16-116	4	20	mg/kg	08.07.19 06:57	
EPN (Ent)	<0.00167	0.0333	0.0370	111	0.0375	114	50-135	1	20	mg/kg	08.07.19 06:57	
Ethoprop	<0.00167	0.0333	0.0347	104	0.0332	101	57-122	4	20	mg/kg	08.07.19 06:57	
Fensulfothion	<0.00167	0.0333	0.0363	109	0.0362	110	27-141	0	20	mg/kg	08.07.19 06:57	
Fenthion	<0.00167	0.0333	0.0353	106	0.0342	104	45-125	3	20	mg/kg	08.07.19 06:57	
Malathion	<0.00167	0.0333	0.0327	98	0.0322	98	49-129	2	20	mg/kg	08.07.19 06:57	
Merphos	<0.00167	0.0333	0.0550	165	0.0533	162	31-130	3	20	mg/kg	08.07.19 06:57	J
Mevinphos	<0.00167	0.0333	0.0327	98	0.0306	93	40-117	7	20	mg/kg	08.07.19 06:57	
Monocrotophos	<0.00167	0.0333	0.0417	125	0.0398	121	54-105	5	20	mg/kg	08.07.19 06:57	J
Naled	<0.00167	0.0667	0.0657	99	0.0638	97	53-130	3	20	mg/kg	08.07.19 06:57	
Parathion, Ethyl	<0.00167	0.0667	0.0703	105	0.0694	105	54-127	1	20	mg/kg	08.07.19 06:57	
Parathion, Methyl	<0.00167	0.0333	0.0343	103	0.0349	106	57-125	2	20	mg/kg	08.07.19 06:57	
Phorate	<0.00167	0.0333	0.0297	89	0.0286	87	46-126	4	20	mg/kg	08.07.19 06:57	
Ronnel	<0.00167	0.0667	0.0547	82	0.0530	81	42-130	3	20	mg/kg	08.07.19 06:57	
stirophos	<0.00167	0.0333	0.0343	103	0.0336	102	56-126	2	20	mg/kg	08.07.19 06:57	
Sulfotep	<0.00167	0.0667	0.0657	99	0.0635	97	45-127	3	20	mg/kg	08.07.19 06:57	
Sulprofos	<0.00167	0.0333	0.0320	96	0.0319	97	62-124	0	20	mg/kg	08.07.19 06:57	
TEPP	<0.00167	0.0333	0.0337	101	0.0303	92	2-106	11	20	mg/kg	08.07.19 06:57	
Tokuthion	<0.00167	0.0333	0.0347	104	0.0339	103	63-119	2	20	mg/kg	08.07.19 06:57	
Trichlorfon	<0.00167	0.0333	0.0410	123	0.0355	108	12-120	14	20	mg/kg	08.07.19 06:57	J
Trichloronate	<0.00167	0.0333	0.0317	95	0.0306	93	51-133	4	20	mg/kg	08.07.19 06:57	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
Tributyl Phosphate	110		98		38-123	%	08.07.19 06:57

MS/MSD Percent Recovery [D] = 100*(C-A) / B LCS = Laboratory Control Sample MS = Matrix Spike

Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result B = Spike Added

LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result D = MSD/LCSD % Rec

Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

QC Summary 632441

Universal Engineering Services Miami

Proposed Publix

Analytical Method: **EPA 8141 Organophosphorus Pesticides by GC** Prep Method: SW3550

Seq Number: 3097570 Matrix: Soil Date Prep: 08.02.19

Parent Sample Id: 632441-003 MS Sample Id: 632441-003 S

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
azinphos-methyl	<0.00167	0.0333	0.0370	111	61-133	mg/kg	08.06.19 22:35	
Chlorfenvinphos	<0.00167	0.0333	0.0717	215	38-132	mg/kg	08.06.19 22:35	J
Chlorpyrifos	<0.00167	0.0333	0.0340	102	54-124	mg/kg	08.06.19 22:35	
Chlorpyrifos methyl	<0.00167	0.0333	0.0373	112	38-129	mg/kg	08.06.19 22:35	
Coumaphos	<0.00167	0.0333	0.0363	109	58-127	mg/kg	08.06.19 22:35	
Demeton-O	<0.00167	0.0333	0.0250	75	21-131	mg/kg	08.06.19 22:35	
Demeton-S	<0.00167	0.0333	0.0253	76	13-127	mg/kg	08.06.19 22:35	
Diazinon	<0.00167	0.0333	0.0330	99	53-116	mg/kg	08.06.19 22:35	
Dimethoate	<0.00167	0.0333	0.0370	111	16-116	mg/kg	08.06.19 22:35	
EPN (Ent)	<0.00167	0.0333	0.0390	117	50-135	mg/kg	08.06.19 22:35	
Ethoprop	<0.00167	0.0333	0.0347	104	57-122	mg/kg	08.06.19 22:35	
Fensulfothion	<0.00167	0.0333	0.0370	111	27-141	mg/kg	08.06.19 22:35	
Fenthion	<0.00167	0.0333	0.0353	106	45-125	mg/kg	08.06.19 22:35	
Malathion	<0.00167	0.0333	0.0340	102	49-129	mg/kg	08.06.19 22:35	
Merphos	<0.00167	0.0333	0.0563	169	31-130	mg/kg	08.06.19 22:35	J
Mevinphos	<0.00167	0.0333	0.0337	101	40-117	mg/kg	08.06.19 22:35	
Monocrotophos	<0.00167	0.0333	0.0413	124	54-105	mg/kg	08.06.19 22:35	J
Naled	<0.00167	0.0667	0.0660	99	53-130	mg/kg	08.06.19 22:35	
Parathion, Ethyl	<0.00167	0.0667	0.0717	107	54-127	mg/kg	08.06.19 22:35	
Parathion, Methyl	<0.00167	0.0333	0.0357	107	57-125	mg/kg	08.06.19 22:35	
Phorate	<0.00167	0.0333	0.0310	93	46-126	mg/kg	08.06.19 22:35	
Ronnel	<0.00167	0.0667	0.0560	84	42-130	mg/kg	08.06.19 22:35	
stirophos	<0.00167	0.0333	0.0350	105	56-126	mg/kg	08.06.19 22:35	
Sulfotep	<0.00167	0.0667	0.0640	96	45-127	mg/kg	08.06.19 22:35	
Sulprofos	<0.00167	0.0333	0.0323	97	62-124	mg/kg	08.06.19 22:35	
TEPP	<0.00167	0.0333	0.0360	108	2-106	mg/kg	08.06.19 22:35	J
Tokuthion	<0.00167	0.0333	0.0350	105	63-119	mg/kg	08.06.19 22:35	
Trichlorfon	<0.00167	0.0333	0.0403	121	12-120	mg/kg	08.06.19 22:35	J
Trichloronate	<0.00167	0.0333	0.0327	98	51-133	mg/kg	08.06.19 22:35	

Surrogate	MS %Rec	MS Flag	Limits	Units	Analysis Date
Tributyl Phosphate	112		38-123	%	08.06.19 22:35

MS/MSD Percent Recovery [D] = 100*(C-A) / B LCS = Laboratory Control Sample MS = Matrix Spike

Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result B = Spike Added

LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result D = MSD/LCSD % Rec

Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

QC Summary 632441

Universal Engineering Services Miami

Proposed Publix

Analytical Method: **Pesticides by SW-846 8081B** Prep Method: SW3550

Seq Number: 3097724 Matrix: Solid Date Prep: 08.06.19

MB Sample Id: 7683565-1-BLK LCS Sample Id: 7683565-1-BKS LCSD Sample Id: 7683565-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
4,4-DDD	<0.000771	0.0167	0.0152	91	0.0146	87	20-164	4	25	mg/kg	08.06.19 12:00	
4,4-DDE	<0.00167	0.0167	0.0149	89	0.0144	86	29-157	3	25	mg/kg	08.06.19 12:00	
4,4-DDT	<0.000254	0.0167	0.0171	102	0.0165	99	13-192	4	25	mg/kg	08.06.19 12:00	
Aldrin	<0.000363	0.0167	0.0119	71	0.0112	67	30-152	6	25	mg/kg	08.06.19 12:00	
Alpha-BHC	<0.000680	0.0167	0.0116	69	0.0106	63	29-160	9	25	mg/kg	08.06.19 12:00	
Alpha-Chlordane	<0.000571	0.0167	0.0137	82	0.0132	79	30-154	4	25	mg/kg	08.06.19 12:00	
Beta-BHC	<0.000474	0.0167	0.0145	87	0.0140	84	30-155	4	25	mg/kg	08.06.19 12:00	
Delta-BHC	<0.00167	0.0167	0.00961	58	0.00930	56	20-161	3	25	mg/kg	08.06.19 12:00	
Dieldrin	<0.000169	0.0167	0.0147	88	0.0141	84	33-153	4	25	mg/kg	08.06.19 12:00	
Endosulfan I	<0.000202	0.0167	0.0136	81	0.0129	77	30-151	5	25	mg/kg	08.06.19 12:00	
Endosulfan II	<0.000372	0.0167	0.0157	94	0.0148	89	27-153	6	25	mg/kg	08.06.19 12:00	
Endosulfan Sulfate	<0.000276	0.0167	0.0144	86	0.0136	81	15-170	6	25	mg/kg	08.06.19 12:00	
Endrin	<0.000291	0.0167	0.0177	106	0.0172	103	25-162	3	25	mg/kg	08.06.19 12:00	
Endrin Aldehyde	<0.000247	0.0167	0.0107	64	0.00984	59	49-117	8	25	mg/kg	08.06.19 12:00	
Endrin Ketone	<0.000361	0.0167	0.0150	90	0.0142	85	15-168	5	25	mg/kg	08.06.19 12:00	
Gamma-BHC (Lindane)	<0.000439	0.0167	0.0122	73	0.0113	68	30-158	8	25	mg/kg	08.06.19 12:00	
Gamma-Chlordane	<0.000763	0.0167	0.0134	80	0.0129	77	30-154	4	25	mg/kg	08.06.19 12:00	
Heptachlor	<0.000562	0.0167	0.0130	78	0.0119	71	29-163	9	25	mg/kg	08.06.19 12:00	
Heptachlor Epoxide	<0.000245	0.0167	0.0139	83	0.0134	80	30-150	4	25	mg/kg	08.06.19 12:00	
Methoxychlor	<0.000507	0.0167	0.0183	110	0.0172	103	33-174	6	25	mg/kg	08.06.19 12:00	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
Tetrachloro-m-xylene	57		63		57		35-135	%	08.06.19 12:00
Decachlorobiphenyl	60		64		61		25-143	%	08.06.19 12:00

MS/MSD Percent Recovery [D] = 100*(C-A) / B LCS = Laboratory Control Sample MS = Matrix Spike

Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result B = Spike Added

LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result D = MSD/LCSD % Rec

Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

QC Summary 632441

Universal Engineering Services Miami

Proposed Publix

Analytical Method: **Pesticides by SW-846 8081B** Prep Method: SW3550

Seq Number: 3097729 Matrix: Solid Date Prep: 08.06.19

MB Sample Id: 7683601-1-BLK LCS Sample Id: 7683601-1-BKS LCSD Sample Id: 7683601-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
4,4-DDD	<0.000771	0.0167	0.0164	98	0.0164	98	20-164	0	25	mg/kg	08.06.19 16:41	
4,4-DDE	<0.00167	0.0167	0.0153	92	0.0163	98	29-157	6	25	mg/kg	08.06.19 16:41	
4,4-DDT	<0.000254	0.0167	0.0181	108	0.0190	114	13-192	5	25	mg/kg	08.06.19 16:41	
Aldrin	<0.000363	0.0167	0.0146	87	0.0141	84	30-152	3	25	mg/kg	08.06.19 16:41	
Alpha-BHC	<0.000680	0.0167	0.0147	88	0.0141	84	29-160	4	25	mg/kg	08.06.19 16:41	
Alpha-Chlordane	<0.000571	0.0167	0.0149	89	0.0155	93	30-154	4	25	mg/kg	08.06.19 16:41	
Beta-BHC	<0.000474	0.0167	0.0161	96	0.0162	97	30-155	1	25	mg/kg	08.06.19 16:41	
Delta-BHC	<0.00167	0.0167	0.0101	60	0.0104	62	20-161	3	25	mg/kg	08.06.19 16:41	
Dieldrin	<0.000169	0.0167	0.0157	94	0.0163	98	33-153	4	25	mg/kg	08.06.19 16:41	
Endosulfan I	<0.000202	0.0167	0.0149	89	0.0156	93	30-151	5	25	mg/kg	08.06.19 16:41	
Endosulfan II	<0.000372	0.0167	0.0161	96	0.0165	99	27-153	2	25	mg/kg	08.06.19 16:41	
Endosulfan Sulfate	<0.000276	0.0167	0.0150	90	0.0155	93	15-170	3	25	mg/kg	08.06.19 16:41	
Endrin	<0.000291	0.0167	0.0190	114	0.0193	116	25-162	2	25	mg/kg	08.06.19 16:41	
Endrin Aldehyde	<0.000247	0.0167	0.0118	71	0.0119	71	49-117	1	25	mg/kg	08.06.19 16:41	
Endrin Ketone	<0.000361	0.0167	0.0157	94	0.0162	97	15-168	3	25	mg/kg	08.06.19 16:41	
Gamma-BHC (Lindane)	<0.000439	0.0167	0.0150	90	0.0146	87	30-158	3	25	mg/kg	08.06.19 16:41	
Gamma-Chlordane	<0.000763	0.0167	0.0150	90	0.0146	87	30-154	3	25	mg/kg	08.06.19 16:41	
Heptachlor	<0.000562	0.0167	0.0163	98	0.0158	95	29-163	3	25	mg/kg	08.06.19 16:41	
Heptachlor Epoxide	<0.000245	0.0167	0.0154	92	0.0155	93	30-150	1	25	mg/kg	08.06.19 16:41	
Methoxychlor	<0.000507	0.0167	0.0194	116	0.0200	120	33-174	3	25	mg/kg	08.06.19 16:41	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
Tetrachloro-m-xylene	80		81		75		35-135	%	08.06.19 16:41
Decachlorobiphenyl	70		69		71		25-143	%	08.06.19 16:41

MS/MSD Percent Recovery [D] = 100*(C-A) / B LCS = Laboratory Control Sample MS = Matrix Spike

Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result B = Spike Added

LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result D = MSD/LCSD % Rec

Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

QC Summary 632441

Universal Engineering Services Miami

Proposed Publix

Analytical Method: **Pesticides by SW-846 8081B** Prep Method: SW3550

Seq Number: 3097724 Matrix: Soil Date Prep: 08.06.19

Parent Sample Id: 632441-002 MS Sample Id: 632441-002 S MSD Sample Id: 632441-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
4,4-DDD	<0.00110	0.0237	0.0167	70	0.0182	77	20-164	9	25	mg/kg	08.06.19 12:27	
4,4-DDE	<0.00237	0.0237	0.0185	78	0.0199	84	29-157	7	25	mg/kg	08.06.19 12:27	
4,4-DDT	0.000375	0.0237	0.0183	76	0.0196	81	13-192	7	25	mg/kg	08.06.19 12:27	
Aldrin	<0.000516	0.0237	0.0128	54	0.0166	70	30-152	26	25	mg/kg	08.06.19 12:27	J
Alpha-BHC	<0.000967	0.0237	0.0111	47	0.0154	65	29-160	32	25	mg/kg	08.06.19 12:27	J
Alpha-Chlordane	<0.000811	0.0237	0.0162	68	0.0185	78	30-154	13	25	mg/kg	08.06.19 12:27	
Beta-BHC	<0.000673	0.0237	0.0185	78	0.0187	79	30-155	1	25	mg/kg	08.06.19 12:27	
Delta-BHC	<0.00237	0.0237	0.0104	44	0.0120	51	20-161	14	25	mg/kg	08.06.19 12:27	
Dieldrin	<0.000241	0.0237	0.0164	69	0.0189	80	33-153	14	25	mg/kg	08.06.19 12:27	
Endosulfan I	<0.000287	0.0237	0.0151	64	0.0173	73	30-151	14	25	mg/kg	08.06.19 12:27	
Endosulfan II	<0.000529	0.0237	0.0166	70	0.0187	79	27-153	12	25	mg/kg	08.06.19 12:27	
Endosulfan Sulfate	<0.000392	0.0237	0.0154	65	0.0168	71	15-170	9	25	mg/kg	08.06.19 12:27	
Endrin	<0.000413	0.0237	0.0197	83	0.0224	95	25-162	13	25	mg/kg	08.06.19 12:27	
Endrin Aldehyde	<0.000352	0.0237	0.0117	49	0.0126	53	49-117	7	25	mg/kg	08.06.19 12:27	
Endrin Ketone	<0.000513	0.0237	0.0166	70	0.0175	74	15-168	5	25	mg/kg	08.06.19 12:27	
Gamma-BHC (Lindane)	<0.000624	0.0237	0.0128	54	0.0168	71	30-158	27	25	mg/kg	08.06.19 12:27	J
Gamma-Chlordane	<0.00109	0.0237	0.0147	62	0.0165	70	30-154	12	25	mg/kg	08.06.19 12:27	
Heptachlor	<0.000799	0.0237	0.0137	58	0.0170	72	29-163	21	25	mg/kg	08.06.19 12:27	
Heptachlor Epoxide	<0.000348	0.0237	0.0157	66	0.0183	77	30-150	15	25	mg/kg	08.06.19 12:27	
Methoxychlor	<0.000720	0.0237	0.0189	80	0.0206	87	33-174	9	25	mg/kg	08.06.19 12:27	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
Tetrachloro-m-xylene	37		54		35-135	%	08.06.19 12:27
Decachlorobiphenyl	48		55		25-143	%	08.06.19 12:27

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* | (C-E) / (C+E) |
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

QC Summary 632441

Universal Engineering Services Miami

Proposed Publix

Analytical Method: **Pesticides by SW-846 8081B** Prep Method: SW3550

Seq Number: 3097729 Matrix: Soil Date Prep: 08.06.19

Parent Sample Id: 632441-028 MS Sample Id: 632441-028 S MSD Sample Id: 632441-028 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
4,4-DDD	<0.00107	0.0232	0.0228	98	0.0218	94	20-164	4	25	mg/kg	08.06.19 17:08	
4,4-DDE	<0.00232	0.0232	0.0214	92	0.0202	87	29-157	6	25	mg/kg	08.06.19 17:08	
4,4-DDT	<0.000354	0.0232	0.0255	110	0.0242	104	13-192	5	25	mg/kg	08.06.19 17:08	
Aldrin	<0.000505	0.0232	0.0171	74	0.0153	66	30-152	11	25	mg/kg	08.06.19 17:08	
Alpha-BHC	<0.000947	0.0232	0.0166	72	0.0144	62	29-160	14	25	mg/kg	08.06.19 17:08	
Alpha-Chlordane	<0.000795	0.0232	0.0203	88	0.0189	81	30-154	7	25	mg/kg	08.06.19 17:08	
Beta-BHC	<0.000660	0.0232	0.0221	95	0.0198	85	30-155	11	25	mg/kg	08.06.19 17:08	
Delta-BHC	<0.00232	0.0232	0.0137	59	0.0127	55	20-161	8	25	mg/kg	08.06.19 17:08	
Dieldrin	<0.000236	0.0232	0.0216	93	0.0202	87	33-153	7	25	mg/kg	08.06.19 17:08	
Endosulfan I	<0.000281	0.0232	0.0199	86	0.0185	79	30-151	7	25	mg/kg	08.06.19 17:08	
Endosulfan II	<0.000519	0.0232	0.0223	96	0.0214	92	27-153	4	25	mg/kg	08.06.19 17:08	
Endosulfan Sulfate	<0.000384	0.0232	0.0209	90	0.0196	84	15-170	6	25	mg/kg	08.06.19 17:08	
Endrin	<0.000405	0.0232	0.0262	113	0.0247	106	25-162	6	25	mg/kg	08.06.19 17:08	
Endrin Aldehyde	<0.000345	0.0232	0.0165	71	0.0153	66	49-117	8	25	mg/kg	08.06.19 17:08	
Endrin Ketone	<0.000503	0.0232	0.0218	94	0.0205	88	15-168	6	25	mg/kg	08.06.19 17:08	
Gamma-BHC (Lindane)	<0.000611	0.0232	0.0178	77	0.0157	67	30-158	13	25	mg/kg	08.06.19 17:08	
Gamma-Chlordane	<0.00106	0.0232	0.0196	84	0.0183	79	30-154	7	25	mg/kg	08.06.19 17:08	
Heptachlor	<0.000783	0.0232	0.0191	82	0.0169	73	29-163	12	25	mg/kg	08.06.19 17:08	
Heptachlor Epoxide	<0.000341	0.0232	0.0206	89	0.0186	80	30-150	10	25	mg/kg	08.06.19 17:08	
Methoxychlor	<0.000706	0.0232	0.0272	117	0.0259	111	33-174	5	25	mg/kg	08.06.19 17:08	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
Tetrachloro-m-xylene	60		52		35-135	%	08.06.19 17:08
Decachlorobiphenyl	71		66		25-143	%	08.06.19 17:08

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* | (C-E) / (C+E) |
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

Exhibit "D" (Page 237 of 503)

Chain of Custody

XENCO LABORATORIES
Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334
Midland,TX (432) 704-5440 EL Paso,TX (915) 585-3443 Lubbock,TX (806) 794-1296 Craslbad, NM (432) 704-5440
Phoenix,AZ (480) 355-0900 Atlanta,GA (770) 449-8800 Tampa,FL (813) 620-2000 West Palm Beach, FL (561) 689-6701
www.xenco.com

Work Order No: 632441

Project Manager:	Leigh Marshallsay	Bill to: (if different)	
Company Name:	Universal Engineering Sciences	Company Name:	
Address:	9960 NW 116th Way, Suite 8	Address:	
City, State ZIP:	Medley, FL 33178	City, State ZIP:	
Phone:	305 249 8434	Email:	LMarshallsay@universal engineering.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Proposed Publix	Turn Around	
Project Number:	2110.1900103.	Routine ☐	
Project Location		Rush:	
Sampler's Name:		Due Date:	
PO #:		Quote #:	WPB031319

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Temperature (°C):	3.9	Thermometer ID	
Received Intact:	(Yes) No		
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	
Sample Custody Seals:	Yes No (N/A)	Total Containers:	20

Preservative Codes

MeOH: Me
None: NO
HNO3: HN
H2S04: H2
HCL: HL
NaOH: Na
Zn Acetate+ NaOH: Zn

TAT starts the day recevied by the lab, if received by 4:00pm

Lab ID	Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	Ammonia, Nitrates, Nitrite, Nox - spLp	Mn, As, Cr, Cu, Pb + Fe	8081 Pesticides EPA Method 8081	Pesticides by EPA Method 8141	Sample Comments
	CS-1 (0-6")	Soil	7/29/19	10:30		2	X	X	X	X	
	CS-1 (6"-24")			10:30		2	X	X	X	X	
	CS-2 (0-6")			12:43		2	X	X	X	X	
	CS-2 (6"-24")			12:43		2	X	X	X	X	
	CS-3 (0-6")			12:45		2	X	X	X	X	
	CS-3 (6"-24")			12:45		2	X	X	X	X	
	CS-4 (0-6")			12:52		2	X	X	X	X	
	CS-4 (6"-24")			12:52		2	X	X	X	X	
	CS-5 (0-6")			13:15		2	X	X	X	X	
	CS-5 (6"-24")	↓		13:15		2	X	X	X	X	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U 1631 / 245.1 / 7470 / 7471 : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of $75.00 will be applied to each project and a charge of $5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1			7/30/19 - 11:10	2		
3				4		
5				6		

Final 1.000
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XENCO LABORATORIES

Chain of Custody

Work Order No: 632441

Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334
Midland,TX (432) 704-5440 EL Paso,TX (915) 585-3443 Lubbock,TX (806) 794-1296 Craslbad, NM (432) 704-5440
Phoenix,AZ (480) 355-0900 Atlanta,GA (770) 449-8800 Tampa,FL (813) 620-2000 West Palm Beach, FL (561) 689-6701 www.xenco.com Page 2 of 3

Project Manager:	Leigh Marshallsay	Bill to: (if different)	
Company Name:	VES	Company Name:	
Address:	9960 NW 116th Way, Suite 8	Address:	
City, State ZIP:	Medley, FL 33178	City, State ZIP:	
Phone:	305 249 8434	Email:	LMarshallsay@universalengineering.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Proposed Publix	Turn Around	
Project Number:	2110.1900103	Routine ☐	
Project Location		Rush:	
Sampler's Name:		Due Date:	
PO #:		Quote #:	WPB031319

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Temperature (°C):		Thermometer ID	
Received Intact:	Yes No		
Cooler Custody Seals:	Yes No N/A	Correction Factor:	
Sample Custody Seals:	Yes No N/A	Total Containers:	20

Lab ID	Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	Pres. Code	Ammonia, Nitrates/Nitrites/NOx - SPLP	Mn, As, Cr, Cu, Pb + Fe	Organochlorine Pesticides EPA 8081	organophosphorous Pesticides EPA 8141
	CS-6 (0-6")	Soil	7/29/19	13:25		2		X	X	X	X
	CS-6 (6"-24")			13:25				X	X	X	X
	CS-7 (0-6")			13:33				X	X	X	X
	CS-7 (6"-24")			13:33				X	X	X	X
	CS-8 (0-6")			13:46				X	X	X	X
	CS-8 (6"-24")			13:46				X	X	X	X
	CS-9 (0-6")			13:54				X	X	X	X
	CS-9 (6"-24")			13:54				X	X	X	X
	CS-10 (0-6")			14:05				X	X	X	X
	CS-10 (6"-24")			14:05				X	X	X	X

ANALYSIS REQUEST

Preservative Codes

MeOH: Me
None: NO
HNO3: HN
H2S04: H2
HCL: HL
NaOH: Na
Zn Acetate+ NaOH: Zn

TAT starts the day recevied by the lab, if received by 4:00pm

Sample Comments

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U 1631 / 245.1 / 7470 / 7471 : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of $75.00 will be applied to each project and a charge of $5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		7/30/19 - 11:10	2		
3			4		
5			6		

Revised Date 022619 Rev. 2019.1

Exhibit "D" (Page 239 of 503)

Final 1.000

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XENCO LABORATORIES

Chain of Custody

Work Order No: 632441

Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334
Midland,TX (432) 704-5440 EL Paso,TX (915) 585-3443 Lubbock,TX (806) 794-1296 Craslbad, NM (432) 704-5440
Phoenix,AZ (480) 355-0900 Atlanta,GA (770) 449-8800 Tampa,FL (813) 620-2000 West Palm Beach, FL (561) 689-6701
www.xenco.com

Project Manager:	Leigh Marshallsay	Bill to: (if different)	
Company Name:	UES	Company Name:	
Address:	9960 NW 116th Way, Suite 8	Address:	
City, State ZIP:	Medley, FL 33178	City, State ZIP:	
Phone:	305 249 8434	Email:	LMarshallsay@universalengineering.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Proposed Publix	Turn Around	
Project Number:	2110.1900103	Routine ☐	
Project Location		Rush:	
Sampler's Name:		Due Date:	
PO #:		Quote #:	WPB031319.

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Temperature (°C):		Thermometer ID	
Received Intact:	Yes No		
Cooler Custody Seals:	Yes No N/A	Correction Factor:	
Sample Custody Seals:	Yes No N/A	Total Containers:	~~20~~ 16

Preservative Codes

MeOH: Me
None: NO
HNO3: HN
H2S04: H2
HCL: HL
NaOH: Na
Zn Acetate+ NaOH: Zn

TAT starts the day recevied by the lab, if received by 4:00pm

Lab ID	Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	Pres. Code	Ammonia, Nitrate/Nitrite/ NOX - SPLP	Mn, As, Cr, Cu, Pb + Fe	Organochlorine Pesticides EPA 8081	Organophosphorus Pesticides EPA 8141	Sample Comments
	CS-11 (0-6")		7/29/19	14:13		2		X	X	X	X	
	CS-11 (6"-24")			14:13				X	X	X	X	
	CS-12 (0-6")			14:21				X	X	X	X	
	CS-12 (6"-24")			14:21				X	X	X	X	
	CS-13 (0-6")			14:30				X	X	X	X	
	CS-13 (6"-24")			14:30				X	X	X	X	
	CS-14 (0-6")			14:38				X	X	X	X	
	CS-14 (6"-24")			14:38				X	X	X	X	

ANALYSIS REQUEST

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U 1631 / 245.1 / 7470 / 7471 : Hg

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		7/30/19 - 11:10	2		
3			4		
5			6		

Inter-Office Shipment

IOS Number : 45241

Date/Time:	07.30.2019 15:21	Created by:	Jessica Magierowski	Please send report to:	Matthew Jones
Lab# From:	**South Florida**	Delivery Priority:		Address:	Xenco Laboratories
Lab# To:	**Houston**	Air Bill No.:	775872799070	E-Mail:	matthew.jones@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
632441-001	S	CS-1	07.29.2019 10:30	E350.1	SPLP Nitrogen Ammonia by EPA 350.1	HOLD	08.26.2019	MAJ	NH3N	
632441-001	S	CS-1	07.29.2019 10:30	SW6010C	Metals, Total by SW846 6010C	08.05.2019	01.25.2020	MAJ	AS CR CU FE MN PB	
632441-001	S	CS-1	07.29.2019 10:30	SW8081B	Pesticides by SW-846 8081B	08.05.2019	08.12.2019	MAJ	ALDRIN BHCALPHA BI	
632441-001	S	CS-1	07.29.2019 10:30	E300_Select	Select Nitrate SPLP Anions By EPA 300	HOLD	**07.31.2019 10:30**	MAJ	NO2N NO3N	
632441-001	W	CS-1	07.29.2019 10:30	E300SPLP	SPLP Nitrate/Nitrite by EPA 300.0	08.05.2019	01.25.2020	MAJ	NO2N NO3N	
632441-001	S	CS-1	07.29.2019 10:30	E300_Select	Select Nitrate SPLP Anions By EPA 300	HOLD	**07.31.2019 10:30**	MAJ	NO2N NO3N	
632441-001	S	CS-1	07.29.2019 10:30	E350.1	SPLP Nitrogen Ammonia by EPA 350.1	HOLD	08.26.2019	MAJ	NH3N	
632441-001	S	CS-1	07.29.2019 10:30	E300_Select	Select Nitrate SPLP Anions By EPA 300	HOLD	**07.31.2019 10:30**	MAJ	NO2N NO3N	
632441-001	S	CS-1	07.29.2019 10:30	E350.1	SPLP Nitrogen Ammonia by EPA 350.1	HOLD	08.26.2019	MAJ	NH3N	
632441-001	W	CS-1	07.29.2019 10:30	E350.1_SPLP	SPLP Ammonia By EPA 350.1	08.05.2019	08.26.2019	MAJ	NH3N	
632441-002	S	CS-1	07.29.2019 10:30	E300_Select	Select Nitrate SPLP Anions By EPA 300	HOLD	**07.31.2019 10:30**	MAJ	NO2N NO3N	
632441-002	S	CS-1	07.29.2019 10:30	E350.1	SPLP Nitrogen Ammonia by EPA 350.1	HOLD	08.26.2019	MAJ	NH3N	
632441-002	W	CS-1	07.29.2019 10:30	E350.1_SPLP	SPLP Ammonia By EPA 350.1	08.05.2019	08.26.2019	MAJ	NH3N	
632441-002	S	CS-1	07.29.2019 10:30	E300_Select	Select Nitrate SPLP Anions By EPA 300	HOLD	**07.31.2019 10:30**	MAJ	NO2N NO3N	
632441-002	W	CS-1	07.29.2019 10:30	E300SPLP	SPLP Nitrate/Nitrite by EPA 300.0	08.05.2019	01.25.2020	MAJ	NO2N NO3N	
632441-002	S	CS-1	07.29.2019 10:30	E350.1	SPLP Nitrogen Ammonia by EPA 350.1	HOLD	08.26.2019	MAJ	NH3N	
632441-002	S	CS-1	07.29.2019 10:30	SW6010C	Metals, Total by SW846 6010C	08.05.2019	01.25.2020	MAJ	AS CR CU FE MN PB	
632441-002	S	CS-1	07.29.2019 10:30	E350.1	SPLP Nitrogen Ammonia by EPA 350.1	HOLD	08.26.2019	MAJ	NH3N	
632441-002	S	CS-1	07.29.2019 10:30	SW8081B	Pesticides by SW-846 8081B	08.05.2019	08.12.2019	MAJ	ALDRIN BHCALPHA BI	
632441-002	S	CS-1	07.29.2019 10:30	E300_Select	Select Nitrate SPLP Anions By EPA 300	HOLD	**07.31.2019 10:30**	MAJ	NO2N NO3N	
632441-003	S	CS-2	07.29.2019 12:43	SW6010C	Metals, Total by SW846 6010C	08.05.2019	01.25.2020	MAJ	AS CR CU FE MN PB	
632441-003	S	CS-2	07.29.2019 12:43	E350.1	SPLP Nitrogen Ammonia by EPA 350.1	HOLD	08.26.2019	MAJ	NH3N	
632441-003	S	CS-2	07.29.2019 12:43	SW8081B	Pesticides by SW-846 8081B	08.05.2019	08.12.2019	MAJ	ALDRIN BHCALPHA BI	
632441-003	S	CS-2	07.29.2019 12:43	E300_Select	Select Nitrate SPLP Anions By EPA 300	HOLD	**07.31.2019 12:43**	MAJ	NO2N NO3N	
632441-003	S	CS-2	07.29.2019 12:43	E300_Select	Select Nitrate SPLP Anions By EPA 300	HOLD	**07.31.2019 12:43**	MAJ	NO2N NO3N	

Inter-Office Shipment

IOS Number : 45241

Date/Time:	07.30.2019 15:21	Created by:	Jessica Magierowski	Please send report to:	Matthew Jones
Lab# From:	**South Florida**	Delivery Priority:		Address:	Xenco Laboratories
Lab# To:	**Houston**	Air Bill No.:	775872799070	E-Mail:	matthew.jones@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
632441-003	W	CS-2	07.29.2019 12:43	E300SPLP	SPLP Nitrate/Nitrite by EPA 300.0	08.05.2019	01.25.2020	MAJ	NO2N NO3N	
632441-003	S	CS-2	07.29.2019 12:43	E350.1	SPLP Nitrogen Ammonia by EPA 350.1	HOLD	08.26.2019	MAJ	NH3N	
632441-003	S	CS-2	07.29.2019 12:43	E350.1	SPLP Nitrogen Ammonia by EPA 350.1	HOLD	08.26.2019	MAJ	NH3N	
632441-003	S	CS-2	07.29.2019 12:43	E300_Select	Select Nitrate SPLP Anions By EPA 300	HOLD	**07.31.2019 12:43**	MAJ	NO2N NO3N	
632441-003	W	CS-2	07.29.2019 12:43	E350.1_SPLP	SPLP Ammonia By EPA 350.1	08.05.2019	08.26.2019	MAJ	NH3N	
632441-004	W	CS-2	07.29.2019 12:43	E350.1_SPLP	SPLP Ammonia By EPA 350.1	08.05.2019	08.26.2019	MAJ	NH3N	
632441-004	S	CS-2	07.29.2019 12:43	E350.1	SPLP Nitrogen Ammonia by EPA 350.1	HOLD	08.26.2019	MAJ	NH3N	
632441-004	S	CS-2	07.29.2019 12:43	E300_Select	Select Nitrate SPLP Anions By EPA 300	HOLD	**07.31.2019 12:43**	MAJ	NO2N NO3N	
632441-004	W	CS-2	07.29.2019 12:43	E300SPLP	SPLP Nitrate/Nitrite by EPA 300.0	08.05.2019	01.25.2020	MAJ	NO2N NO3N	
632441-004	S	CS-2	07.29.2019 12:43	E300_Select	Select Nitrate SPLP Anions By EPA 300	HOLD	**07.31.2019 12:43**	MAJ	NO2N NO3N	
632441-004	S	CS-2	07.29.2019 12:43	E350.1	SPLP Nitrogen Ammonia by EPA 350.1	HOLD	08.26.2019	MAJ	NH3N	
632441-004	S	CS-2	07.29.2019 12:43	E350.1	SPLP Nitrogen Ammonia by EPA 350.1	HOLD	08.26.2019	MAJ	NH3N	
632441-004	S	CS-2	07.29.2019 12:43	E300_Select	Select Nitrate SPLP Anions By EPA 300	HOLD	**07.31.2019 12:43**	MAJ	NO2N NO3N	
632441-004	S	CS-2	07.29.2019 12:43	SW6010C	Metals, Total by SW846 6010C	08.05.2019	01.25.2020	MAJ	AS CR CU FE MN PB	
632441-004	S	CS-2	07.29.2019 12:43	SW8081B	Pesticides by SW-846 8081B	08.05.2019	08.12.2019	MAJ	ALDRIN BHCALPHA BI	
632441-005	S	CS-3	07.29.2019 12:45	SW8081B	Pesticides by SW-846 8081B	08.05.2019	08.12.2019	MAJ	ALDRIN BHCALPHA BI	
632441-005	S	CS-3	07.29.2019 12:45	SW6010C	Metals, Total by SW846 6010C	08.05.2019	01.25.2020	MAJ	AS CR CU FE MN PB	
632441-005	S	CS-3	07.29.2019 12:45	E350.1	SPLP Nitrogen Ammonia by EPA 350.1	HOLD	08.26.2019	MAJ	NH3N	
632441-005	S	CS-3	07.29.2019 12:45	E300_Select	Select Nitrate SPLP Anions By EPA 300	HOLD	**07.31.2019 12:45**	MAJ	NO2N NO3N	
632441-005	S	CS-3	07.29.2019 12:45	E300_Select	Select Nitrate SPLP Anions By EPA 300	HOLD	**07.31.2019 12:45**	MAJ	NO2N NO3N	
632441-005	S	CS-3	07.29.2019 12:45	E350.1	SPLP Nitrogen Ammonia by EPA 350.1	HOLD	08.26.2019	MAJ	NH3N	
632441-005	W	CS-3	07.29.2019 12:45	E300SPLP	SPLP Nitrate/Nitrite by EPA 300.0	08.05.2019	01.25.2020	MAJ	NO2N NO3N	
632441-005	S	CS-3	07.29.2019 12:45	E350.1	SPLP Nitrogen Ammonia by EPA 350.1	HOLD	08.26.2019	MAJ	NH3N	
632441-005	W	CS-3	07.29.2019 12:45	E350.1_SPLP	SPLP Ammonia By EPA 350.1	08.05.2019	08.26.2019	MAJ	NH3N	
632441-005	S	CS-3	07.29.2019 12:45	E300_Select	Select Nitrate SPLP Anions By EPA 300	HOLD	**07.31.2019 12:45**	MAJ	NO2N NO3N	

Inter Office Shipment or Sample Comments:

Inter-Office Shipment

IOS Number : 45241

Date/Time:	07.30.2019 15:21	Created by:	Jessica Magierowski	Please send report to:	Matthew Jones
Lab# From:	**South Florida**	Delivery Priority:		Address:	Xenco Laboratories
Lab# To:	**Houston**	Air Bill No.:	775872799070	E-Mail:	matthew.jones@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
632441-006	S	CS-3	07.29.2019 12:45	E350.1	SPLP Nitrogen Ammonia by EPA 350.1	HOLD	08.26.2019	MAJ	NH3N	
632441-006	W	CS-3	07.29.2019 12:45	E350.1_SPLP	SPLP Ammonia By EPA 350.1	08.05.2019	08.26.2019	MAJ	NH3N	
632441-006	S	CS-3	07.29.2019 12:45	E300_Select	Select Nitrate SPLP Anions By EPA 300	HOLD	**07.31.2019 12:45**	MAJ	NO2N NO3N	
632441-006	W	CS-3	07.29.2019 12:45	E300SPLP	SPLP Nitrate/Nitrite by EPA 300.0	08.05.2019	01.25.2020	MAJ	NO2N NO3N	
632441-006	S	CS-3	07.29.2019 12:45	E300_Select	Select Nitrate SPLP Anions By EPA 300	HOLD	**07.31.2019 12:45**	MAJ	NO2N NO3N	
632441-006	S	CS-3	07.29.2019 12:45	E350.1	SPLP Nitrogen Ammonia by EPA 350.1	HOLD	08.26.2019	MAJ	NH3N	
632441-006	S	CS-3	07.29.2019 12:45	E300_Select	Select Nitrate SPLP Anions By EPA 300	HOLD	**07.31.2019 12:45**	MAJ	NO2N NO3N	
632441-006	S	CS-3	07.29.2019 12:45	E350.1	SPLP Nitrogen Ammonia by EPA 350.1	HOLD	08.26.2019	MAJ	NH3N	
632441-006	S	CS-3	07.29.2019 12:45	SW8081B	Pesticides by SW-846 8081B	08.05.2019	08.12.2019	MAJ	ALDRIN BHCALPHA BI	
632441-006	S	CS-3	07.29.2019 12:45	SW6010C	Metals, Total by SW846 6010C	08.05.2019	01.25.2020	MAJ	AS CR CU FE MN PB	
632441-007	S	CS-4	07.29.2019 12:52	E350.1	SPLP Nitrogen Ammonia by EPA 350.1	HOLD	08.26.2019	MAJ	NH3N	
632441-007	S	CS-4	07.29.2019 12:52	E300_Select	Select Nitrate SPLP Anions By EPA 300	HOLD	**07.31.2019 12:52**	MAJ	NO2N NO3N	
632441-007	S	CS-4	07.29.2019 12:52	SW6010C	Metals, Total by SW846 6010C	08.05.2019	01.25.2020	MAJ	AS CR CU FE MN PB	
632441-007	S	CS-4	07.29.2019 12:52	SW8081B	Pesticides by SW-846 8081B	08.05.2019	08.12.2019	MAJ	ALDRIN BHCALPHA BI	
632441-007	W	CS-4	07.29.2019 12:52	E300SPLP	SPLP Nitrate/Nitrite by EPA 300.0	08.05.2019	01.25.2020	MAJ	NO2N NO3N	
632441-007	S	CS-4	07.29.2019 12:52	E300_Select	Select Nitrate SPLP Anions By EPA 300	HOLD	**07.31.2019 12:52**	MAJ	NO2N NO3N	
632441-007	S	CS-4	07.29.2019 12:52	E350.1	SPLP Nitrogen Ammonia by EPA 350.1	HOLD	08.26.2019	MAJ	NH3N	
632441-007	W	CS-4	07.29.2019 12:52	E350.1_SPLP	SPLP Ammonia By EPA 350.1	08.05.2019	08.26.2019	MAJ	NH3N	
632441-007	S	CS-4	07.29.2019 12:52	E350.1	SPLP Nitrogen Ammonia by EPA 350.1	HOLD	08.26.2019	MAJ	NH3N	
632441-007	S	CS-4	07.29.2019 12:52	E300_Select	Select Nitrate SPLP Anions By EPA 300	HOLD	**07.31.2019 12:52**	MAJ	NO2N NO3N	
632441-008	S	CS-4	07.29.2019 12:52	E300_Select	Select Nitrate SPLP Anions By EPA 300	HOLD	**07.31.2019 12:52**	MAJ	NO2N NO3N	
632441-008	W	CS-4	07.29.2019 12:52	E350.1_SPLP	SPLP Ammonia By EPA 350.1	08.05.2019	08.26.2019	MAJ	NH3N	
632441-008	S	CS-4	07.29.2019 12:52	E350.1	SPLP Nitrogen Ammonia by EPA 350.1	HOLD	08.26.2019	MAJ	NH3N	
632441-008	S	CS-4	07.29.2019 12:52	E350.1	SPLP Nitrogen Ammonia by EPA 350.1	HOLD	08.26.2019	MAJ	NH3N	
632441-008	W	CS-4	07.29.2019 12:52	E300SPLP	SPLP Nitrate/Nitrite by EPA 300.0	08.05.2019	01.25.2020	MAJ	NO2N NO3N	

Inter Office Shipment or Sample Comments:

Relinquished By:

Received By:

Inter-Office Shipment

IOS Number : 45241

Date/Time:	07.30.2019 15:21	Created by:	Jessica Magierowski	Please send report to:	Matthew Jones
Lab# From:	**South Florida**	Delivery Priority:		Address:	Xenco Laboratories
Lab# To:	**Houston**	Air Bill No.:	775872799070	E-Mail:	matthew.jones@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
632441-008	S	CS-4	07.29.2019 12:52	E300_Select	Select Nitrate SPLP Anions By EPA 300	HOLD	**07.31.2019 12:52**	MAJ	NO2N NO3N	
632441-008	S	CS-4	07.29.2019 12:52	SW6010C	Metals, Total by SW846 6010C	08.05.2019	01.25.2020	MAJ	AS CR CU FE MN PB	
632441-008	S	CS-4	07.29.2019 12:52	E300_Select	Select Nitrate SPLP Anions By EPA 300	HOLD	**07.31.2019 12:52**	MAJ	NO2N NO3N	
632441-008	S	CS-4	07.29.2019 12:52	SW8081B	Pesticides by SW-846 8081B	08.05.2019	08.12.2019	MAJ	ALDRIN BHCALPHA BI	
632441-008	S	CS-4	07.29.2019 12:52	E350.1	SPLP Nitrogen Ammonia by EPA 350.1	HOLD	08.26.2019	MAJ	NH3N	
632441-009	S	CS-5	07.29.2019 13:15	SW8081B	Pesticides by SW-846 8081B	08.05.2019	08.12.2019	MAJ	ALDRIN BHCALPHA BI	
632441-009	S	CS-5	07.29.2019 13:15	SW6010C	Metals, Total by SW846 6010C	08.05.2019	01.25.2020	MAJ	AS CR CU FE MN PB	
632441-009	S	CS-5	07.29.2019 13:15	E350.1	SPLP Nitrogen Ammonia by EPA 350.1	HOLD	08.26.2019	MAJ	NH3N	
632441-009	S	CS-5	07.29.2019 13:15	E300_Select	Select Nitrate SPLP Anions By EPA 300	HOLD	**07.31.2019 13:15**	MAJ	NO2N NO3N	
632441-009	W	CS-5	07.29.2019 13:15	E300SPLP	SPLP Nitrate/Nitrite by EPA 300.0	08.05.2019	01.25.2020	MAJ	NO2N NO3N	
632441-009	S	CS-5	07.29.2019 13:15	E350.1	SPLP Nitrogen Ammonia by EPA 350.1	HOLD	08.26.2019	MAJ	NH3N	
632441-009	S	CS-5	07.29.2019 13:15	E300_Select	Select Nitrate SPLP Anions By EPA 300	HOLD	**07.31.2019 13:15**	MAJ	NO2N NO3N	
632441-009	S	CS-5	07.29.2019 13:15	E300_Select	Select Nitrate SPLP Anions By EPA 300	HOLD	**07.31.2019 13:15**	MAJ	NO2N NO3N	
632441-009	S	CS-5	07.29.2019 13:15	E350.1	SPLP Nitrogen Ammonia by EPA 350.1	HOLD	08.26.2019	MAJ	NH3N	
632441-009	W	CS-5	07.29.2019 13:15	E350.1_SPLP	SPLP Ammonia By EPA 350.1	08.05.2019	08.26.2019	MAJ	NH3N	
632441-010	S	CS-5	07.29.2019 13:15	E300_Select	Select Nitrate SPLP Anions By EPA 300	HOLD	**07.31.2019 13:15**	MAJ	NO2N NO3N	
632441-010	S	CS-5	07.29.2019 13:15	E350.1	SPLP Nitrogen Ammonia by EPA 350.1	HOLD	08.26.2019	MAJ	NH3N	
632441-010	W	CS-5	07.29.2019 13:15	E350.1_SPLP	SPLP Ammonia By EPA 350.1	08.05.2019	08.26.2019	MAJ	NH3N	
632441-010	W	CS-5	07.29.2019 13:15	E300SPLP	SPLP Nitrate/Nitrite by EPA 300.0	08.05.2019	01.25.2020	MAJ	NO2N NO3N	
632441-010	S	CS-5	07.29.2019 13:15	E300_Select	Select Nitrate SPLP Anions By EPA 300	HOLD	**07.31.2019 13:15**	MAJ	NO2N NO3N	
632441-010	S	CS-5	07.29.2019 13:15	E350.1	SPLP Nitrogen Ammonia by EPA 350.1	HOLD	08.26.2019	MAJ	NH3N	
632441-010	S	CS-5	07.29.2019 13:15	SW8081B	Pesticides by SW-846 8081B	08.05.2019	08.12.2019	MAJ	ALDRIN BHCALPHA BI	
632441-010	S	CS-5	07.29.2019 13:15	SW6010C	Metals, Total by SW846 6010C	08.05.2019	01.25.2020	MAJ	AS CR CU FE MN PB	
632441-010	S	CS-5	07.29.2019 13:15	E300_Select	Select Nitrate SPLP Anions By EPA 300	HOLD	**07.31.2019 13:15**	MAJ	NO2N NO3N	
632441-010	S	CS-5	07.29.2019 13:15	E350.1	SPLP Nitrogen Ammonia by EPA 350.1	HOLD	08.26.2019	MAJ	NH3N	

Inter Office Shipment or Sample Comments:

Date Relinquished:

Date Received:

Inter-Office Shipment

IOS Number : 45241

Date/Time:	07.30.2019 15:21	Created by:	Jessica Magierowski	Please send report to:	Matthew Jones
Lab# From:	**South Florida**	Delivery Priority:		Address:	Xenco Laboratories
Lab# To:	**Houston**	Air Bill No.:	775872799070	E-Mail:	matthew.jones@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
632441-011	S	CS-6	07.29.2019 13:25	SW8081B	Pesticides by SW-846 8081B	08.05.2019	08.12.2019	MAJ	ALDRIN BHCALPHA BI	
632441-011	S	CS-6	07.29.2019 13:25	E350.1	SPLP Nitrogen Ammonia by EPA 350.1	HOLD	08.26.2019	MAJ	NH3N	
632441-011	S	CS-6	07.29.2019 13:25	SW6010C	Metals, Total by SW846 6010C	08.05.2019	01.25.2020	MAJ	AS CR CU FE MN PB	
632441-011	S	CS-6	07.29.2019 13:25	E300_Select	Select Nitrate SPLP Anions By EPA 300	HOLD	**07.31.2019 13:25**	MAJ	NO2N NO3N	
632441-011	S	CS-6	07.29.2019 13:25	E350.1	SPLP Nitrogen Ammonia by EPA 350.1	HOLD	08.26.2019	MAJ	NH3N	
632441-011	S	CS-6	07.29.2019 13:25	E300_Select	Select Nitrate SPLP Anions By EPA 300	HOLD	**07.31.2019 13:25**	MAJ	NO2N NO3N	
632441-011	W	CS-6	07.29.2019 13:25	E300SPLP	SPLP Nitrate/Nitrite by EPA 300.0	08.05.2019	01.25.2020	MAJ	NO2N NO3N	
632441-011	W	CS-6	07.29.2019 13:25	E350.1_SPLP	SPLP Ammonia By EPA 350.1	08.05.2019	08.26.2019	MAJ	NH3N	
632441-011	S	CS-6	07.29.2019 13:25	E350.1	SPLP Nitrogen Ammonia by EPA 350.1	HOLD	08.26.2019	MAJ	NH3N	
632441-011	S	CS-6	07.29.2019 13:25	E300_Select	Select Nitrate SPLP Anions By EPA 300	HOLD	**07.31.2019 13:25**	MAJ	NO2N NO3N	
632441-012	W	CS-6	07.29.2019 13:25	E350.1_SPLP	SPLP Ammonia By EPA 350.1	08.05.2019	08.26.2019	MAJ	NH3N	
632441-012	S	CS-6	07.29.2019 13:25	E300_Select	Select Nitrate SPLP Anions By EPA 300	HOLD	**07.31.2019 13:25**	MAJ	NO2N NO3N	
632441-012	S	CS-6	07.29.2019 13:25	E350.1	SPLP Nitrogen Ammonia by EPA 350.1	HOLD	08.26.2019	MAJ	NH3N	
632441-012	S	CS-6	07.29.2019 13:25	E350.1	SPLP Nitrogen Ammonia by EPA 350.1	HOLD	08.26.2019	MAJ	NH3N	
632441-012	S	CS-6	07.29.2019 13:25	E300_Select	Select Nitrate SPLP Anions By EPA 300	HOLD	**07.31.2019 13:25**	MAJ	NO2N NO3N	
632441-012	W	CS-6	07.29.2019 13:25	E300SPLP	SPLP Nitrate/Nitrite by EPA 300.0	08.05.2019	01.25.2020	MAJ	NO2N NO3N	
632441-012	S	CS-6	07.29.2019 13:25	SW6010C	Metals, Total by SW846 6010C	08.05.2019	01.25.2020	MAJ	AS CR CU FE MN PB	
632441-012	S	CS-6	07.29.2019 13:25	SW8081B	Pesticides by SW-846 8081B	08.05.2019	08.12.2019	MAJ	ALDRIN BHCALPHA BI	
632441-012	S	CS-6	07.29.2019 13:25	E350.1	SPLP Nitrogen Ammonia by EPA 350.1	HOLD	08.26.2019	MAJ	NH3N	
632441-012	S	CS-6	07.29.2019 13:25	E300_Select	Select Nitrate SPLP Anions By EPA 300	HOLD	**07.31.2019 13:25**	MAJ	NO2N NO3N	
632441-013	S	CS-7	07.29.2019 13:33	E300_Select	Select Nitrate SPLP Anions By EPA 300	HOLD	**07.31.2019 13:33**	MAJ	NO2N NO3N	
632441-013	S	CS-7	07.29.2019 13:33	SW8081B	Pesticides by SW-846 8081B	08.05.2019	08.12.2019	MAJ	ALDRIN BHCALPHA BI	
632441-013	S	CS-7	07.29.2019 13:33	SW6010C	Metals, Total by SW846 6010C	08.05.2019	01.25.2020	MAJ	AS CR CU FE MN PB	
632441-013	S	CS-7	07.29.2019 13:33	E350.1	SPLP Nitrogen Ammonia by EPA 350.1	HOLD	08.26.2019	MAJ	NH3N	
632441-013	S	CS-7	07.29.2019 13:33	E350.1	SPLP Nitrogen Ammonia by EPA 350.1	HOLD	08.26.2019	MAJ	NH3N	

Inter Office Shipment or Sample Comments:

Inter-Office Shipment

IOS Number : 45241

Date/Time:	07.30.2019 15:21	Created by:	Jessica Magierowski	Please send report to:	Matthew Jones
Lab# From:	**South Florida**	Delivery Priority:		Address:	Xenco Laboratories
Lab# To:	**Houston**	Air Bill No.:	775872799070	E-Mail:	matthew.jones@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
632441-013	W	CS-7	07.29.2019 13:33	E300SPLP	SPLP Nitrate/Nitrite by EPA 300.0	08.05.2019	01.25.2020	MAJ	NO2N NO3N	
632441-013	S	CS-7	07.29.2019 13:33	E300_Select	Select Nitrate SPLP Anions By EPA 300	HOLD	**07.31.2019 13:33**	MAJ	NO2N NO3N	
632441-013	W	CS-7	07.29.2019 13:33	E350.1_SPLP	SPLP Ammonia By EPA 350.1	08.05.2019	08.26.2019	MAJ	NH3N	
632441-013	S	CS-7	07.29.2019 13:33	E350.1	SPLP Nitrogen Ammonia by EPA 350.1	HOLD	08.26.2019	MAJ	NH3N	
632441-013	S	CS-7	07.29.2019 13:33	E300_Select	Select Nitrate SPLP Anions By EPA 300	HOLD	**07.31.2019 13:33**	MAJ	NO2N NO3N	
632441-014	W	CS-7	07.29.2019 13:33	E350.1_SPLP	SPLP Ammonia By EPA 350.1	08.05.2019	08.26.2019	MAJ	NH3N	
632441-014	S	CS-7	07.29.2019 13:33	E350.1	SPLP Nitrogen Ammonia by EPA 350.1	HOLD	08.26.2019	MAJ	NH3N	
632441-014	S	CS-7	07.29.2019 13:33	E300_Select	Select Nitrate SPLP Anions By EPA 300	HOLD	**07.31.2019 13:33**	MAJ	NO2N NO3N	
632441-014	W	CS-7	07.29.2019 13:33	E350.1_SPLP	SPLP Ammonia By EPA 350.1	**08.01.2019**	01.25.2020	MAJ	NH3N	
632441-014	S	CS-7	07.29.2019 13:33	E350.1	SPLP Nitrogen Ammonia by EPA 350.1	HOLD	08.26.2019	MAJ	NH3N	
632441-014	S	CS-7	07.29.2019 13:33	E300_Select	Select Nitrate SPLP Anions By EPA 300	HOLD	**07.31.2019 13:33**	MAJ	NO2N NO3N	
632441-014	W	CS-7	07.29.2019 13:33	E300SPLP	SPLP Nitrate/Nitrite by EPA 300.0	08.05.2019	01.25.2020	MAJ	NO2N NO3N	
632441-014	S	CS-7	07.29.2019 13:33	E350.1	SPLP Nitrogen Ammonia by EPA 350.1	HOLD	08.26.2019	MAJ	NH3N	
632441-014	S	CS-7	07.29.2019 13:33	E300_Select	Select Nitrate SPLP Anions By EPA 300	HOLD	**07.31.2019 13:33**	MAJ	NO2N NO3N	
632441-014	S	CS-7	07.29.2019 13:33	SW6010C	Metals, Total by SW846 6010C	08.05.2019	01.25.2020	MAJ	AS CR CU FE MN PB	
632441-014	S	CS-7	07.29.2019 13:33	SW8081B	Pesticides by SW-846 8081B	08.05.2019	08.12.2019	MAJ	ALDRIN BHCALPHA BI	
632441-015	S	CS-8	07.29.2019 13:46	SW6010C	Metals, Total by SW846 6010C	08.05.2019	01.25.2020	MAJ	AS CR CU FE MN PB	
632441-015	S	CS-8	07.29.2019 13:46	SW8081B	Pesticides by SW-846 8081B	08.05.2019	08.12.2019	MAJ	ALDRIN BHCALPHA BI	
632441-015	S	CS-8	07.29.2019 13:46	E350.1	SPLP Nitrogen Ammonia by EPA 350.1	HOLD	08.26.2019	MAJ	NH3N	
632441-015	S	CS-8	07.29.2019 13:46	E300_Select	Select Nitrate SPLP Anions By EPA 300	HOLD	**07.31.2019 13:46**	MAJ	NO2N NO3N	
632441-015	S	CS-8	07.29.2019 13:46	E300_Select	Select Nitrate SPLP Anions By EPA 300	HOLD	**07.31.2019 13:46**	MAJ	NO2N NO3N	
632441-015	S	CS-8	07.29.2019 13:46	E350.1	SPLP Nitrogen Ammonia by EPA 350.1	HOLD	08.26.2019	MAJ	NH3N	
632441-015	W	CS-8	07.29.2019 13:46	E300SPLP	SPLP Nitrate/Nitrite by EPA 300.0	08.05.2019	01.25.2020	MAJ	NO2N NO3N	
632441-015	W	CS-8	07.29.2019 13:46	E350.1_SPLP	SPLP Ammonia By EPA 350.1	08.05.2019	08.26.2019	MAJ	NH3N	
632441-015	S	CS-8	07.29.2019 13:46	E350.1	SPLP Nitrogen Ammonia by EPA 350.1	HOLD	08.26.2019	MAJ	NH3N	

Inter Office Shipment or Sample Comments:

Inter-Office Shipment

IOS Number : 45241

Date/Time:	07.30.2019 15:21	Created by:	Jessica Magierowski	Please send report to:	Matthew Jones
Lab# From:	**South Florida**	Delivery Priority:		Address:	Xenco Laboratories
Lab# To:	**Houston**	Air Bill No.:	775872799070	E-Mail:	matthew.jones@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
632441-015	S	CS-8	07.29.2019 13:46	E300_Select	Select Nitrate SPLP Anions By EPA 300	HOLD	**07.31.2019 13:46**	MAJ	NO2N NO3N	
632441-016	W	CS-8	07.29.2019 13:46	E350.1_SPLP	SPLP Ammonia By EPA 350.1	08.05.2019	08.26.2019	MAJ	NH3N	
632441-016	S	CS-8	07.29.2019 13:46	E350.1	SPLP Nitrogen Ammonia by EPA 350.1	HOLD	08.26.2019	MAJ	NH3N	
632441-016	S	CS-8	07.29.2019 13:46	E300_Select	Select Nitrate SPLP Anions By EPA 300	HOLD	**07.31.2019 13:46**	MAJ	NO2N NO3N	
632441-016	W	CS-8	07.29.2019 13:46	E300SPLP	SPLP Nitrate/Nitrite by EPA 300.0	08.05.2019	01.25.2020	MAJ	NO2N NO3N	
632441-016	S	CS-8	07.29.2019 13:46	E300_Select	Select Nitrate SPLP Anions By EPA 300	HOLD	**07.31.2019 13:46**	MAJ	NO2N NO3N	
632441-016	S	CS-8	07.29.2019 13:46	E350.1	SPLP Nitrogen Ammonia by EPA 350.1	HOLD	08.26.2019	MAJ	NH3N	
632441-016	S	CS-8	07.29.2019 13:46	E350.1	SPLP Nitrogen Ammonia by EPA 350.1	HOLD	08.26.2019	MAJ	NH3N	
632441-016	S	CS-8	07.29.2019 13:46	SW8081B	Pesticides by SW-846 8081B	08.05.2019	08.12.2019	MAJ	ALDRIN BHCALPHA BI	
632441-016	S	CS-8	07.29.2019 13:46	SW6010C	Metals, Total by SW846 6010C	08.05.2019	01.25.2020	MAJ	AS CR CU FE MN PB	
632441-016	S	CS-8	07.29.2019 13:46	E300_Select	Select Nitrate SPLP Anions By EPA 300	HOLD	**07.31.2019 13:46**	MAJ	NO2N NO3N	
632441-017	S	CS-9	07.29.2019 13:54	SW8081B	Pesticides by SW-846 8081B	08.05.2019	08.12.2019	MAJ	ALDRIN BHCALPHA BI	
632441-017	S	CS-9	07.29.2019 13:54	SW6010C	Metals, Total by SW846 6010C	08.05.2019	01.25.2020	MAJ	AS CR CU FE MN PB	
632441-017	S	CS-9	07.29.2019 13:54	E350.1	SPLP Nitrogen Ammonia by EPA 350.1	HOLD	08.26.2019	MAJ	NH3N	
632441-017	S	CS-9	07.29.2019 13:54	E300_Select	Select Nitrate SPLP Anions By EPA 300	HOLD	**07.31.2019 13:54**	MAJ	NO2N NO3N	
632441-017	S	CS-9	07.29.2019 13:54	E350.1	SPLP Nitrogen Ammonia by EPA 350.1	HOLD	08.26.2019	MAJ	NH3N	
632441-017	S	CS-9	07.29.2019 13:54	E300_Select	Select Nitrate SPLP Anions By EPA 300	HOLD	**07.31.2019 13:54**	MAJ	NO2N NO3N	
632441-017	W	CS-9	07.29.2019 13:54	E300SPLP	SPLP Nitrate/Nitrite by EPA 300.0	08.05.2019	01.25.2020	MAJ	NO2N NO3N	
632441-017	W	CS-9	07.29.2019 13:54	E350.1_SPLP	SPLP Ammonia By EPA 350.1	08.05.2019	08.26.2019	MAJ	NH3N	
632441-017	S	CS-9	07.29.2019 13:54	E350.1	SPLP Nitrogen Ammonia by EPA 350.1	HOLD	08.26.2019	MAJ	NH3N	
632441-017	S	CS-9	07.29.2019 13:54	E300_Select	Select Nitrate SPLP Anions By EPA 300	HOLD	**07.31.2019 13:54**	MAJ	NO2N NO3N	
632441-018	W	CS-9	07.29.2019 13:54	E350.1_SPLP	SPLP Ammonia By EPA 350.1	08.05.2019	08.26.2019	MAJ	NH3N	
632441-018	S	CS-9	07.29.2019 13:54	E300_Select	Select Nitrate SPLP Anions By EPA 300	HOLD	**07.31.2019 13:54**	MAJ	NO2N NO3N	
632441-018	S	CS-9	07.29.2019 13:54	E350.1	SPLP Nitrogen Ammonia by EPA 350.1	HOLD	08.26.2019	MAJ	NH3N	
632441-018	S	CS-9	07.29.2019 13:54	E300_Select	Select Nitrate SPLP Anions By EPA 300	HOLD	**07.31.2019 13:54**	MAJ	NO2N NO3N	

Inter Office Shipment or Sample Comments:

Inter-Office Shipment

IOS Number : 45241

Date/Time:	07.30.2019 15:21	Created by:	Jessica Magierowski	Please send report to:	Matthew Jones
Lab# From:	**South Florida**	Delivery Priority:		Address:	Xenco Laboratories
Lab# To:	**Houston**	Air Bill No.:	775872799070	E-Mail:	matthew.jones@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
632441-018	W	CS-9	07.29.2019 13:54	E300SPLP	SPLP Nitrate/Nitrite by EPA 300.0	08.05.2019	01.25.2020	MAJ	NO2N NO3N	
632441-018	S	CS-9	07.29.2019 13:54	E350.1	SPLP Nitrogen Ammonia by EPA 350.1	HOLD	08.26.2019	MAJ	NH3N	
632441-018	S	CS-9	07.29.2019 13:54	SW8081B	Pesticides by SW-846 8081B	08.05.2019	08.12.2019	MAJ	ALDRIN BHCALPHA BI	
632441-018	S	CS-9	07.29.2019 13:54	SW6010C	Metals, Total by SW846 6010C	08.05.2019	01.25.2020	MAJ	AS CR CU FE MN PB	
632441-018	S	CS-9	07.29.2019 13:54	E300_Select	Select Nitrate SPLP Anions By EPA 300	HOLD	**07.31.2019 13:54**	MAJ	NO2N NO3N	
632441-018	S	CS-9	07.29.2019 13:54	E350.1	SPLP Nitrogen Ammonia by EPA 350.1	HOLD	08.26.2019	MAJ	NH3N	
632441-019	S	CS-10	07.29.2019 14:05	SW8081B	Pesticides by SW-846 8081B	08.05.2019	08.12.2019	MAJ	ALDRIN BHCALPHA BI	
632441-019	S	CS-10	07.29.2019 14:05	E350.1	SPLP Nitrogen Ammonia by EPA 350.1	HOLD	08.26.2019	MAJ	NH3N	
632441-019	S	CS-10	07.29.2019 14:05	SW6010C	Metals, Total by SW846 6010C	08.05.2019	01.25.2020	MAJ	AS CR CU FE MN PB	
632441-019	S	CS-10	07.29.2019 14:05	E300_Select	Select Nitrate SPLP Anions By EPA 300	HOLD	**07.31.2019 14:05**	MAJ	NO2N NO3N	
632441-019	S	CS-10	07.29.2019 14:05	E350.1	SPLP Nitrogen Ammonia by EPA 350.1	HOLD	08.26.2019	MAJ	NH3N	
632441-019	S	CS-10	07.29.2019 14:05	E300_Select	Select Nitrate SPLP Anions By EPA 300	HOLD	**07.31.2019 14:05**	MAJ	NO2N NO3N	
632441-019	W	CS-10	07.29.2019 14:05	E300SPLP	SPLP Nitrate/Nitrite by EPA 300.0	08.05.2019	01.25.2020	MAJ	NO2N NO3N	
632441-019	S	CS-10	07.29.2019 14:05	E300_Select	Select Nitrate SPLP Anions By EPA 300	HOLD	**07.31.2019 14:05**	MAJ	NO2N NO3N	
632441-019	W	CS-10	07.29.2019 14:05	E350.1_SPLP	SPLP Ammonia By EPA 350.1	08.05.2019	08.26.2019	MAJ	NH3N	
632441-019	S	CS-10	07.29.2019 14:05	E350.1	SPLP Nitrogen Ammonia by EPA 350.1	HOLD	08.26.2019	MAJ	NH3N	
632441-020	W	CS-10	07.29.2019 14:05	E350.1_SPLP	SPLP Ammonia By EPA 350.1	08.05.2019	08.26.2019	MAJ	NH3N	
632441-020	S	CS-10	07.29.2019 14:05	E350.1	SPLP Nitrogen Ammonia by EPA 350.1	HOLD	08.26.2019	MAJ	NH3N	
632441-020	S	CS-10	07.29.2019 14:05	E300_Select	Select Nitrate SPLP Anions By EPA 300	HOLD	**07.31.2019 14:05**	MAJ	NO2N NO3N	
632441-020	S	CS-10	07.29.2019 14:05	E350.1	SPLP Nitrogen Ammonia by EPA 350.1	HOLD	08.26.2019	MAJ	NH3N	
632441-020	S	CS-10	07.29.2019 14:05	E300_Select	Select Nitrate SPLP Anions By EPA 300	HOLD	**07.31.2019 14:05**	MAJ	NO2N NO3N	
632441-020	W	CS-10	07.29.2019 14:05	E300SPLP	SPLP Nitrate/Nitrite by EPA 300.0	08.05.2019	01.25.2020	MAJ	NO2N NO3N	
632441-020	S	CS-10	07.29.2019 14:05	SW6010C	Metals, Total by SW846 6010C	08.05.2019	01.25.2020	MAJ	AS CR CU FE MN PB	
632441-020	S	CS-10	07.29.2019 14:05	SW8081B	Pesticides by SW-846 8081B	08.05.2019	08.12.2019	MAJ	ALDRIN BHCALPHA BI	
632441-020	S	CS-10	07.29.2019 14:05	E350.1	SPLP Nitrogen Ammonia by EPA 350.1	HOLD	08.26.2019	MAJ	NH3N	

Inter Office Shipment or Sample Comments:

Inter-Office Shipment

IOS Number : 45241

Date/Time:	07.30.2019 15:21	Created by:	Jessica Magierowski	Please send report to:	Matthew Jones
Lab# From:	**South Florida**	Delivery Priority:		Address:	Xenco Laboratories
Lab# To:	**Houston**	Air Bill No.:	775872799070	E-Mail:	matthew.jones@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
632441-020	S	CS-10	07.29.2019 14:05	E300_Select	Select Nitrate SPLP Anions By EPA 300	HOLD	**07.31.2019 14:05**	MAJ	NO2N NO3N	
632441-021	S	CS-11	07.29.2019 14:13	E350.1	SPLP Nitrogen Ammonia by EPA 350.1	HOLD	08.26.2019	MAJ	NH3N	
632441-021	S	CS-11	07.29.2019 14:13	SW6010C	Metals, Total by SW846 6010C	08.05.2019	01.25.2020	MAJ	AS CR CU FE MN PB	
632441-021	S	CS-11	07.29.2019 14:13	SW8081B	Pesticides by SW-846 8081B	08.05.2019	08.12.2019	MAJ	ALDRIN BHCALPHA BI	
632441-021	S	CS-11	07.29.2019 14:13	E300_Select	Select Nitrate SPLP Anions By EPA 300	HOLD	**07.31.2019 14:13**	MAJ	NO2N NO3N	
632441-021	S	CS-11	07.29.2019 14:13	E300_Select	Select Nitrate SPLP Anions By EPA 300	HOLD	**07.31.2019 14:13**	MAJ	NO2N NO3N	
632441-021	W	CS-11	07.29.2019 14:13	E300SPLP	SPLP Nitrate/Nitrite by EPA 300.0	08.05.2019	01.25.2020	MAJ	NO2N NO3N	
632441-021	S	CS-11	07.29.2019 14:13	E350.1	SPLP Nitrogen Ammonia by EPA 350.1	HOLD	08.26.2019	MAJ	NH3N	
632441-021	W	CS-11	07.29.2019 14:13	E350.1_SPLP	SPLP Ammonia By EPA 350.1	08.05.2019	08.26.2019	MAJ	NH3N	
632441-021	S	CS-11	07.29.2019 14:13	E350.1	SPLP Nitrogen Ammonia by EPA 350.1	HOLD	08.26.2019	MAJ	NH3N	
632441-021	S	CS-11	07.29.2019 14:13	E300_Select	Select Nitrate SPLP Anions By EPA 300	HOLD	**07.31.2019 14:13**	MAJ	NO2N NO3N	
632441-022	W	CS-11	07.29.2019 14:13	E350.1_SPLP	SPLP Ammonia By EPA 350.1	08.05.2019	08.26.2019	MAJ	NH3N	
632441-022	S	CS-11	07.29.2019 14:13	E350.1	SPLP Nitrogen Ammonia by EPA 350.1	HOLD	08.26.2019	MAJ	NH3N	
632441-022	S	CS-11	07.29.2019 14:13	E300_Select	Select Nitrate SPLP Anions By EPA 300	HOLD	**07.31.2019 14:13**	MAJ	NO2N NO3N	
632441-022	W	CS-11	07.29.2019 14:13	E300SPLP	SPLP Nitrate/Nitrite by EPA 300.0	08.05.2019	01.25.2020	MAJ	NO2N NO3N	
632441-022	S	CS-11	07.29.2019 14:13	E350.1	SPLP Nitrogen Ammonia by EPA 350.1	HOLD	08.26.2019	MAJ	NH3N	
632441-022	S	CS-11	07.29.2019 14:13	E350.1	SPLP Nitrogen Ammonia by EPA 350.1	HOLD	08.26.2019	MAJ	NH3N	
632441-022	S	CS-11	07.29.2019 14:13	SW6010C	Metals, Total by SW846 6010C	08.05.2019	01.25.2020	MAJ	AS CR CU FE MN PB	
632441-022	S	CS-11	07.29.2019 14:13	SW8081B	Pesticides by SW-846 8081B	08.05.2019	08.12.2019	MAJ	ALDRIN BHCALPHA BI	
632441-022	S	CS-11	07.29.2019 14:13	E300_Select	Select Nitrate SPLP Anions By EPA 300	HOLD	**07.31.2019 14:13**	MAJ	NO2N NO3N	
632441-022	S	CS-11	07.29.2019 14:13	E300_Select	Select Nitrate SPLP Anions By EPA 300	HOLD	**07.31.2019 14:13**	MAJ	NO2N NO3N	
632441-023	W	CS-12	07.29.2019 14:21	E350.1_SPLP	SPLP Ammonia By EPA 350.1	08.05.2019	08.26.2019	MAJ	NH3N	
632441-023	S	CS-12	07.29.2019 14:21	E350.1	SPLP Nitrogen Ammonia by EPA 350.1	HOLD	08.26.2019	MAJ	NH3N	
632441-023	S	CS-12	07.29.2019 14:21	E300_Select	Select Nitrate SPLP Anions By EPA 300	HOLD	**07.31.2019 14:21**	MAJ	NO2N NO3N	
632441-023	S	CS-12	07.29.2019 14:21	SW8081B	Pesticides by SW-846 8081B	08.05.2019	08.12.2019	MAJ	ALDRIN BHCALPHA BI	

Inter Office Shipment or Sample Comments:

Inter-Office Shipment

IOS Number : 45241

Date/Time:	07.30.2019 15:21	Created by:	Jessica Magierowski	Please send report to:	Matthew Jones
Lab# From:	**South Florida**	Delivery Priority:		Address:	Xenco Laboratories
Lab# To:	**Houston**	Air Bill No.:	775872799070	E-Mail:	matthew.jones@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
632441-023	S	CS-12	07.29.2019 14:21	SW6010C	Metals, Total by SW846 6010C	08.05.2019	01.25.2020	MAJ	AS CR CU FE MN PB	
632441-023	S	CS-12	07.29.2019 14:21	E350.1	SPLP Nitrogen Ammonia by EPA 350.1	HOLD	08.26.2019	MAJ	NH3N	
632441-023	S	CS-12	07.29.2019 14:21	E300_Select	Select Nitrate SPLP Anions By EPA 300	HOLD	**07.31.2019 14:21**	MAJ	NO2N NO3N	
632441-023	S	CS-12	07.29.2019 14:21	E300_Select	Select Nitrate SPLP Anions By EPA 300	HOLD	**07.31.2019 14:21**	MAJ	NO2N NO3N	
632441-023	W	CS-12	07.29.2019 14:21	E300SPLP	SPLP Nitrate/Nitrite by EPA 300.0	08.05.2019	01.25.2020	MAJ	NO2N NO3N	
632441-023	S	CS-12	07.29.2019 14:21	E350.1	SPLP Nitrogen Ammonia by EPA 350.1	HOLD	08.26.2019	MAJ	NH3N	
632441-024	W	CS-12	07.29.2019 14:21	E300SPLP	SPLP Nitrate/Nitrite by EPA 300.0	08.05.2019	01.25.2020	MAJ	NO2N NO3N	
632441-024	S	CS-12	07.29.2019 14:21	E300_Select	Select Nitrate SPLP Anions By EPA 300	HOLD	**07.31.2019 14:21**	MAJ	NO2N NO3N	
632441-024	S	CS-12	07.29.2019 14:21	E350.1	SPLP Nitrogen Ammonia by EPA 350.1	HOLD	08.26.2019	MAJ	NH3N	
632441-024	S	CS-12	07.29.2019 14:21	SW8081B	Pesticides by SW-846 8081B	08.05.2019	08.12.2019	MAJ	ALDRIN BHCALPHA BI	
632441-024	S	CS-12	07.29.2019 14:21	SW6010C	Metals, Total by SW846 6010C	08.05.2019	01.25.2020	MAJ	AS CR CU FE MN PB	
632441-024	S	CS-12	07.29.2019 14:21	E350.1	SPLP Nitrogen Ammonia by EPA 350.1	HOLD	08.26.2019	MAJ	NH3N	
632441-024	S	CS-12	07.29.2019 14:21	E300_Select	Select Nitrate SPLP Anions By EPA 300	HOLD	**07.31.2019 14:21**	MAJ	NO2N NO3N	
632441-024	S	CS-12	07.29.2019 14:21	E300_Select	Select Nitrate SPLP Anions By EPA 300	HOLD	**07.31.2019 14:21**	MAJ	NO2N NO3N	
632441-024	W	CS-12	07.29.2019 14:21	E350.1_SPLP	SPLP Ammonia By EPA 350.1	08.05.2019	08.26.2019	MAJ	NH3N	
632441-024	S	CS-12	07.29.2019 14:21	E350.1	SPLP Nitrogen Ammonia by EPA 350.1	HOLD	08.26.2019	MAJ	NH3N	
632441-025	S	CS-13	07.29.2019 14:30	E300_Select	Select Nitrate SPLP Anions By EPA 300	HOLD	**07.31.2019 14:30**	MAJ	NO2N NO3N	
632441-025	S	CS-13	07.29.2019 14:30	E350.1	SPLP Nitrogen Ammonia by EPA 350.1	HOLD	08.26.2019	MAJ	NH3N	
632441-025	W	CS-13	07.29.2019 14:30	E350.1_SPLP	SPLP Ammonia By EPA 350.1	08.05.2019	08.26.2019	MAJ	NH3N	
632441-025	S	CS-13	07.29.2019 14:30	SW8081B	Pesticides by SW-846 8081B	08.05.2019	08.12.2019	MAJ	ALDRIN BHCALPHA BI	
632441-025	S	CS-13	07.29.2019 14:30	E300_Select	Select Nitrate SPLP Anions By EPA 300	HOLD	**07.31.2019 14:30**	MAJ	NO2N NO3N	
632441-025	S	CS-13	07.29.2019 14:30	SW6010C	Metals, Total by SW846 6010C	08.05.2019	01.25.2020	MAJ	AS CR CU FE MN PB	
632441-025	S	CS-13	07.29.2019 14:30	E350.1	SPLP Nitrogen Ammonia by EPA 350.1	HOLD	08.26.2019	MAJ	NH3N	
632441-025	S	CS-13	07.29.2019 14:30	E300_Select	Select Nitrate SPLP Anions By EPA 300	HOLD	**07.31.2019 14:30**	MAJ	NO2N NO3N	
632441-025	W	CS-13	07.29.2019 14:30	E300SPLP	SPLP Nitrate/Nitrite by EPA 300.0	08.05.2019	01.25.2020	MAJ	NO2N NO3N	

Inter Office Shipment or Sample Comments:

Inter-Office Shipment

IOS Number : 45241

Date/Time:	07.30.2019 15:21	Created by:	Jessica Magierowski	Please send report to:	Matthew Jones
Lab# From:	**South Florida**	Delivery Priority:		Address:	Xenco Laboratories
Lab# To:	**Houston**	Air Bill No.:	775872799070	E-Mail:	matthew.jones@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
632441-025	S	CS-13	07.29.2019 14:30	E350.1	SPLP Nitrogen Ammonia by EPA 350.1	HOLD	08.26.2019	MAJ	NH3N	
632441-026	W	CS-13	07.29.2019 14:30	E300SPLP	SPLP Nitrate/Nitrite by EPA 300.0	08.05.2019	01.25.2020	MAJ	NO2N NO3N	
632441-026	S	CS-13	07.29.2019 14:30	E350.1	SPLP Nitrogen Ammonia by EPA 350.1	HOLD	08.26.2019	MAJ	NH3N	
632441-026	S	CS-13	07.29.2019 14:30	E300_Select	Select Nitrate SPLP Anions By EPA 300	HOLD	**07.31.2019 14:30**	MAJ	NO2N NO3N	
632441-026	S	CS-13	07.29.2019 14:30	SW8081B	Pesticides by SW-846 8081B	08.05.2019	08.12.2019	MAJ	ALDRIN BHCALPHA BI	
632441-026	S	CS-13	07.29.2019 14:30	E300_Select	Select Nitrate SPLP Anions By EPA 300	HOLD	**07.31.2019 14:30**	MAJ	NO2N NO3N	
632441-026	S	CS-13	07.29.2019 14:30	E350.1	SPLP Nitrogen Ammonia by EPA 350.1	HOLD	08.26.2019	MAJ	NH3N	
632441-026	S	CS-13	07.29.2019 14:30	SW6010C	Metals, Total by SW846 6010C	08.05.2019	01.25.2020	MAJ	AS CR CU FE MN PB	
632441-026	S	CS-13	07.29.2019 14:30	E350.1	SPLP Nitrogen Ammonia by EPA 350.1	HOLD	08.26.2019	MAJ	NH3N	
632441-026	W	CS-13	07.29.2019 14:30	E350.1_SPLP	SPLP Ammonia By EPA 350.1	08.05.2019	08.26.2019	MAJ	NH3N	
632441-026	S	CS-13	07.29.2019 14:30	E300_Select	Select Nitrate SPLP Anions By EPA 300	HOLD	**07.31.2019 14:30**	MAJ	NO2N NO3N	
632441-027	W	CS-14	07.29.2019 14:38	E350.1_SPLP	SPLP Ammonia By EPA 350.1	08.05.2019	08.26.2019	MAJ	NH3N	
632441-027	S	CS-14	07.29.2019 14:38	E300_Select	Select Nitrate SPLP Anions By EPA 300	HOLD	**07.31.2019 14:38**	MAJ	NO2N NO3N	
632441-027	S	CS-14	07.29.2019 14:38	E350.1	SPLP Nitrogen Ammonia by EPA 350.1	HOLD	08.26.2019	MAJ	NH3N	
632441-027	S	CS-14	07.29.2019 14:38	E300_Select	Select Nitrate SPLP Anions By EPA 300	HOLD	**07.31.2019 14:38**	MAJ	NO2N NO3N	
632441-027	S	CS-14	07.29.2019 14:38	SW6010C	Metals, Total by SW846 6010C	08.05.2019	01.25.2020	MAJ	AS CR CU FE MN PB	
632441-027	S	CS-14	07.29.2019 14:38	E350.1	SPLP Nitrogen Ammonia by EPA 350.1	HOLD	08.26.2019	MAJ	NH3N	
632441-027	S	CS-14	07.29.2019 14:38	SW8081B	Pesticides by SW-846 8081B	08.05.2019	08.12.2019	MAJ	ALDRIN BHCALPHA BI	
632441-027	S	CS-14	07.29.2019 14:38	E300_Select	Select Nitrate SPLP Anions By EPA 300	HOLD	**07.31.2019 14:38**	MAJ	NO2N NO3N	
632441-027	W	CS-14	07.29.2019 14:38	E300SPLP	SPLP Nitrate/Nitrite by EPA 300.0	08.05.2019	01.25.2020	MAJ	NO2N NO3N	
632441-027	S	CS-14	07.29.2019 14:38	E350.1	SPLP Nitrogen Ammonia by EPA 350.1	HOLD	08.26.2019	MAJ	NH3N	
632441-028	S	CS-14	07.29.2019 14:38	E350.1	SPLP Nitrogen Ammonia by EPA 350.1	HOLD	08.26.2019	MAJ	NH3N	
632441-028	S	CS-14	07.29.2019 14:38	E300_Select	Select Nitrate SPLP Anions By EPA 300	HOLD	**07.31.2019 14:38**	MAJ	NO2N NO3N	
632441-028	S	CS-14	07.29.2019 14:38	SW8081B	Pesticides by SW-846 8081B	08.05.2019	08.12.2019	MAJ	ALDRIN BHCALPHA BI	
632441-028	S	CS-14	07.29.2019 14:38	E350.1	SPLP Nitrogen Ammonia by EPA 350.1	HOLD	08.26.2019	MAJ	NH3N	

Inter Office Shipment or Sample Comments:

Inter-Office Shipment

IOS Number : 45241

Date/Time:	07.30.2019 15:21	Created by:	Jessica Magierowski	Please send report to:	Matthew Jones
Lab# From:	**South Florida**	Delivery Priority:		Address:	Xenco Laboratories
Lab# To:	**Houston**	Air Bill No.:	775872799070	E-Mail:	matthew.jones@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
632441-028	S	CS-14	07.29.2019 14:38	SW6010C	Metals, Total by SW846 6010C	08.05.2019	01.25.2020	MAJ	AS CR CU FE MN PB	
632441-028	S	CS-14	07.29.2019 14:38	E300_Select	Select Nitrate SPLP Anions By EPA 300	HOLD	**07.31.2019 14:38**	MAJ	NO2N NO3N	
632441-028	S	CS-14	07.29.2019 14:38	E300_Select	Select Nitrate SPLP Anions By EPA 300	HOLD	**07.31.2019 14:38**	MAJ	NO2N NO3N	
632441-028	W	CS-14	07.29.2019 14:38	E350.1_SPLP	SPLP Ammonia By EPA 350.1	08.05.2019	08.26.2019	MAJ	NH3N	
632441-028	S	CS-14	07.29.2019 14:38	E350.1	SPLP Nitrogen Ammonia by EPA 350.1	HOLD	08.26.2019	MAJ	NH3N	
632441-028	W	CS-14	07.29.2019 14:38	E300SPLP	SPLP Nitrate/Nitrite by EPA 300.0	08.05.2019	01.25.2020	MAJ	NO2N NO3N	

Inter Office Shipment or Sample Comments:

Jessica Magierowski

07.30.2019

Monica Shakhshir

07.31.2019 09:35

Cooler Temperature: 1.6

Inter-Office Shipment

IOS Number : 45242

Date/Time:	07.30.2019 15:21	Created by:	Jessica Magierowski	Please send report to:	Matthew Jones
Lab# From:	**South Florida**	Delivery Priority:	Fedex	Address:	Xenco Laboratories
Lab# To:	**Dallas**	Air Bill No.:	775872758058	E-Mail:	matthew.jones@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
632441-001	S	CS-1	07.29.2019 10:30	SM2540G-MOIST	Percent Moisture by SM2540G	08.05.2019	01.25.2020	MAJ	MOIST	
632441-001	S	CS-1	07.29.2019 10:30	SW8141B	EPA 8141 Organophosphorus Pesticides b	08.05.2019	08.12.2019	MAJ	ATRAZINE N/A N/A N/A	
632441-002	S	CS-1	07.29.2019 10:30	SM2540G-MOIST	Percent Moisture by SM2540G	08.05.2019	01.25.2020	MAJ	MOIST	
632441-002	S	CS-1	07.29.2019 10:30	SW8141B	EPA 8141 Organophosphorus Pesticides b	08.05.2019	08.12.2019	MAJ	ATRAZINE N/A N/A N/A	
632441-003	S	CS-2	07.29.2019 12:43	SW8141B	EPA 8141 Organophosphorus Pesticides b	08.05.2019	08.12.2019	MAJ	ATRAZINE N/A N/A N/A	
632441-003	S	CS-2	07.29.2019 12:43	SM2540G-MOIST	Percent Moisture by SM2540G	08.05.2019	01.25.2020	MAJ	MOIST	
632441-004	S	CS-2	07.29.2019 12:43	SW8141B	EPA 8141 Organophosphorus Pesticides b	08.05.2019	08.12.2019	MAJ	ATRAZINE N/A N/A N/A	
632441-004	S	CS-2	07.29.2019 12:43	SM2540G-MOIST	Percent Moisture by SM2540G	08.05.2019	01.25.2020	MAJ	MOIST	
632441-005	S	CS-3	07.29.2019 12:45	SW8141B	EPA 8141 Organophosphorus Pesticides b	08.05.2019	08.12.2019	MAJ	ATRAZINE N/A N/A N/A	
632441-005	S	CS-3	07.29.2019 12:45	SM2540G-MOIST	Percent Moisture by SM2540G	08.05.2019	01.25.2020	MAJ	MOIST	
632441-006	S	CS-3	07.29.2019 12:45	SW8141B	EPA 8141 Organophosphorus Pesticides b	08.05.2019	08.12.2019	MAJ	ATRAZINE N/A N/A N/A	
632441-006	S	CS-3	07.29.2019 12:45	SM2540G-MOIST	Percent Moisture by SM2540G	08.05.2019	01.25.2020	MAJ	MOIST	
632441-007	S	CS-4	07.29.2019 12:52	SM2540G-MOIST	Percent Moisture by SM2540G	08.05.2019	01.25.2020	MAJ	MOIST	
632441-007	S	CS-4	07.29.2019 12:52	SW8141B	EPA 8141 Organophosphorus Pesticides b	08.05.2019	08.12.2019	MAJ	ATRAZINE N/A N/A N/A	
632441-008	S	CS-4	07.29.2019 12:52	SW8141B	EPA 8141 Organophosphorus Pesticides b	08.05.2019	08.12.2019	MAJ	ATRAZINE N/A N/A N/A	
632441-008	S	CS-4	07.29.2019 12:52	SM2540G-MOIST	Percent Moisture by SM2540G	08.05.2019	01.25.2020	MAJ	MOIST	
632441-009	S	CS-5	07.29.2019 13:15	SW8141B	EPA 8141 Organophosphorus Pesticides b	08.05.2019	08.12.2019	MAJ	ATRAZINE N/A N/A N/A	
632441-009	S	CS-5	07.29.2019 13:15	SM2540G-MOIST	Percent Moisture by SM2540G	08.05.2019	01.25.2020	MAJ	MOIST	
632441-010	S	CS-5	07.29.2019 13:15	SW8141B	EPA 8141 Organophosphorus Pesticides b	08.05.2019	08.12.2019	MAJ	ATRAZINE N/A N/A N/A	
632441-010	S	CS-5	07.29.2019 13:15	SM2540G-MOIST	Percent Moisture by SM2540G	08.05.2019	01.25.2020	MAJ	MOIST	
632441-011	S	CS-6	07.29.2019 13:25	SM2540G-MOIST	Percent Moisture by SM2540G	08.05.2019	01.25.2020	MAJ	MOIST	
632441-011	S	CS-6	07.29.2019 13:25	SW8141B	EPA 8141 Organophosphorus Pesticides b	08.05.2019	08.12.2019	MAJ	ATRAZINE N/A N/A N/A	
632441-012	S	CS-6	07.29.2019 13:25	SW8141B	EPA 8141 Organophosphorus Pesticides b	08.05.2019	08.12.2019	MAJ	ATRAZINE N/A N/A N/A	
632441-012	S	CS-6	07.29.2019 13:25	SM2540G-MOIST	Percent Moisture by SM2540G	08.05.2019	01.25.2020	MAJ	MOIST	
632441-013	S	CS-7	07.29.2019 13:33	SW8141B	EPA 8141 Organophosphorus Pesticides b	08.05.2019	08.12.2019	MAJ	ATRAZINE N/A N/A N/A	

Inter-Office Shipment

IOS Number : 45242

Date/Time:	07.30.2019 15:21	Created by:	Jessica Magierowski	Please send report to:	Matthew Jones
Lab# From:	**South Florida**	Delivery Priority:	Fedex	Address:	Xenco Laboratories
Lab# To:	**Dallas**	Air Bill No.:	775872758058	E-Mail:	matthew.jones@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
632441-013	S	CS-7	07.29.2019 13:33	SM2540G-MOIST	Percent Moisture by SM2540G	08.05.2019	01.25.2020	MAJ	MOIST	
632441-014	S	CS-7	07.29.2019 13:33	SM2540G-MOIST	Percent Moisture by SM2540G	08.05.2019	01.25.2020	MAJ	MOIST	
632441-014	S	CS-7	07.29.2019 13:33	SW8141B	EPA 8141 Organophosphorus Pesticides b	08.05.2019	08.12.2019	MAJ	ATRAZINE N/A N/A N/A	
632441-015	S	CS-8	07.29.2019 13:46	SW8141B	EPA 8141 Organophosphorus Pesticides b	08.05.2019	08.12.2019	MAJ	ATRAZINE N/A N/A N/A	
632441-015	S	CS-8	07.29.2019 13:46	SM2540G-MOIST	Percent Moisture by SM2540G	08.05.2019	01.25.2020	MAJ	MOIST	
632441-016	S	CS-8	07.29.2019 13:46	SM2540G-MOIST	Percent Moisture by SM2540G	08.05.2019	01.25.2020	MAJ	MOIST	
632441-016	S	CS-8	07.29.2019 13:46	SW8141B	EPA 8141 Organophosphorus Pesticides b	08.05.2019	08.12.2019	MAJ	ATRAZINE N/A N/A N/A	
632441-017	S	CS-9	07.29.2019 13:54	SW8141B	EPA 8141 Organophosphorus Pesticides b	08.05.2019	08.12.2019	MAJ	ATRAZINE N/A N/A N/A	
632441-017	S	CS-9	07.29.2019 13:54	SM2540G-MOIST	Percent Moisture by SM2540G	08.05.2019	01.25.2020	MAJ	MOIST	
632441-018	S	CS-9	07.29.2019 13:54	SM2540G-MOIST	Percent Moisture by SM2540G	08.05.2019	01.25.2020	MAJ	MOIST	
632441-018	S	CS-9	07.29.2019 13:54	SW8141B	EPA 8141 Organophosphorus Pesticides b	08.05.2019	08.12.2019	MAJ	ATRAZINE N/A N/A N/A	
632441-019	S	CS-10	07.29.2019 14:05	SM2540G-MOIST	Percent Moisture by SM2540G	08.05.2019	01.25.2020	MAJ	MOIST	
632441-019	S	CS-10	07.29.2019 14:05	SW8141B	EPA 8141 Organophosphorus Pesticides b	08.05.2019	08.12.2019	MAJ	ATRAZINE N/A N/A N/A	
632441-020	S	CS-10	07.29.2019 14:05	SW8141B	EPA 8141 Organophosphorus Pesticides b	08.05.2019	08.12.2019	MAJ	ATRAZINE N/A N/A N/A	
632441-020	S	CS-10	07.29.2019 14:05	SM2540G-MOIST	Percent Moisture by SM2540G	08.05.2019	01.25.2020	MAJ	MOIST	
632441-021	S	CS-11	07.29.2019 14:13	SM2540G-MOIST	Percent Moisture by SM2540G	08.05.2019	01.25.2020	MAJ	MOIST	
632441-021	S	CS-11	07.29.2019 14:13	SW8141B	EPA 8141 Organophosphorus Pesticides b	08.05.2019	08.12.2019	MAJ	ATRAZINE N/A N/A N/A	
632441-022	S	CS-11	07.29.2019 14:13	SW8141B	EPA 8141 Organophosphorus Pesticides b	08.05.2019	08.12.2019	MAJ	ATRAZINE N/A N/A N/A	
632441-022	S	CS-11	07.29.2019 14:13	SM2540G-MOIST	Percent Moisture by SM2540G	08.05.2019	01.25.2020	MAJ	MOIST	
632441-023	S	CS-12	07.29.2019 14:21	SW8141B	EPA 8141 Organophosphorus Pesticides b	08.05.2019	08.12.2019	MAJ	ATRAZINE N/A N/A N/A	
632441-023	S	CS-12	07.29.2019 14:21	SM2540G-MOIST	Percent Moisture by SM2540G	08.05.2019	01.25.2020	MAJ	MOIST	
632441-024	S	CS-12	07.29.2019 14:21	SM2540G-MOIST	Percent Moisture by SM2540G	08.05.2019	01.25.2020	MAJ	MOIST	
632441-024	S	CS-12	07.29.2019 14:21	SW8141B	EPA 8141 Organophosphorus Pesticides b	08.05.2019	08.12.2019	MAJ	ATRAZINE N/A N/A N/A	
632441-025	S	CS-13	07.29.2019 14:30	SM2540G-MOIST	Percent Moisture by SM2540G	08.05.2019	01.25.2020	MAJ	MOIST	
632441-025	S	CS-13	07.29.2019 14:30	SW8141B	EPA 8141 Organophosphorus Pesticides b	08.05.2019	08.12.2019	MAJ	ATRAZINE N/A N/A N/A	

Inter Office Shipment or Sample Comments:

Inter-Office Shipment

IOS Number : 45242

Date/Time:	07.30.2019 15:21	Created by:	Jessica Magierowski	Please send report to:	Matthew Jones
Lab# From:	**South Florida**	Delivery Priority:	Fedex	Address:	Xenco Laboratories
Lab# To:	**Dallas**	Air Bill No.:	775872758058	E-Mail:	matthew.jones@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
632441-026	S	CS-13	07.29.2019 14:30	SM2540G-MOIST	Percent Moisture by SM2540G	08.05.2019	01.25.2020	MAJ	MOIST	
632441-026	S	CS-13	07.29.2019 14:30	SW8141B	EPA 8141 Organophosphorus Pesticides b	08.05.2019	08.12.2019	MAJ	ATRAZINE N/A N/A N/A	
632441-027	S	CS-14	07.29.2019 14:38	SM2540G-MOIST	Percent Moisture by SM2540G	08.05.2019	01.25.2020	MAJ	MOIST	
632441-027	S	CS-14	07.29.2019 14:38	SW8141B	EPA 8141 Organophosphorus Pesticides b	08.05.2019	08.12.2019	MAJ	ATRAZINE N/A N/A N/A	
632441-028	S	CS-14	07.29.2019 14:38	SW8141B	EPA 8141 Organophosphorus Pesticides b	08.05.2019	08.12.2019	MAJ	ATRAZINE N/A N/A N/A	
632441-028	S	CS-14	07.29.2019 14:38	SM2540G-MOIST	Percent Moisture by SM2540G	08.05.2019	01.25.2020	MAJ	MOIST	

Inter Office Shipment or Sample Comments:

Relinquished By: Jessica Magierowski

Date Relinquished: 07.30.2019

Received By: Angelica Martinez

Date Received: 07.31.2019 11:45

Cooler Temperature: 1.1

XENCO Laboratories

Inter Office Report- Sample Receipt Checklist

Sent To: Houston

IOS #: 45241

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient
Temperature Measuring device used : HOU-068

Sent By: Jessica Magierowski **Date Sent:** 07.30.2019 03.21 PM

Received By: Monica Shakhshir **Date Received:** 07.31.2019 09.35 AM

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	1.6	
#2 *Shipping container in good condition?	**Yes**	
#3 *Samples received with appropriate temperature?	**Yes**	
#4 *Custody Seals intact on shipping container/ cooler?	**Yes**	
#5 *Custody Seals Signed and dated for Containers/coolers	**Yes**	
#6 *IOS present?	**Yes**	
#7 Any missing/extra samples?	**No**	
#8 IOS agrees with sample label(s)/matrix?	**Yes**	
#9 Sample matrix/ properties agree with IOS?	**Yes**	
#10 Samples in proper container/ bottle?	**Yes**	
#11 Samples properly preserved?	**Yes**	
#12 Sample container(s) intact?	**Yes**	
#13 Sufficient sample amount for indicated test(s)?	**Yes**	
#14 All samples received within hold time?	**Yes**	

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

NonConformance:

Corrective Action Taken:

Nonconformance Documentation

Contact: _____ **Contacted by :** _____ **Date:** _____

Checklist reviewed by: _____ Date: 07.31.2019

Monica Shakhshir

XENCO Laboratories

Inter Office Report- Sample Receipt Checklist

Sent To: Dallas

IOS #: 45242

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient
Temperature Measuring device used :

Sent By: Jessica Magierowski **Date Sent:** 07.30.2019 03.21 PM

Received By: Angelica Martinez **Date Received:** 07.31.2019 11.45 AM

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	1.1	
#2 *Shipping container in good condition?	**Yes**	
#3 *Samples received with appropriate temperature?	**Yes**	
#4 *Custody Seals intact on shipping container/ cooler?	**Yes**	
#5 *Custody Seals Signed and dated for Containers/coolers	**Yes**	
#6 *IOS present?	**Yes**	
#7 Any missing/extra samples?	**No**	
#8 IOS agrees with sample label(s)/matrix?	**Yes**	
#9 Sample matrix/ properties agree with IOS?	**Yes**	
#10 Samples in proper container/ bottle?	**Yes**	
#11 Samples properly preserved?	**Yes**	
#12 Sample container(s) intact?	**Yes**	
#13 Sufficient sample amount for indicated test(s)?	**Yes**	
#14 All samples received within hold time?	**Yes**	

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

NonConformance:

Corrective Action Taken:

Nonconformance Documentation

Contact: _____ **Contacted by :** _____ **Date:** _____

Checklist reviewed by: Angelica Martinez Date: 07.31.2019

Angelica Martinez

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Universal Engineering Services Miami

Date/ Time Received: 07/30/2019 11:10:00 AM

Work Order #: 632441

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : IR#1

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	3.9
#2 *Shipping container in good condition?	**Yes**
#3 *Samples received on ice?	**Yes**
#4 *Custody Seals intact on shipping container/ cooler?	**N/A**
#5 Custody Seals intact on sample bottles?	**N/A**
#6*Custody Seals Signed and dated?	**N/A**
#7 *Chain of Custody present?	**Yes**
#8 Any missing/extra samples?	**No**
#9 Chain of Custody signed when relinquished/ received?	**Yes**
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**
#11 Container label(s) legible and intact?	**Yes**
#12 Samples in proper container/ bottle?	**Yes**
#13 Samples properly preserved?	**Yes**
#14 Sample container(s) intact?	**Yes**
#15 Sufficient sample amount for indicated test(s)?	**Yes**
#16 All samples received within hold time?	**Yes**
#17 Subcontract of sample(s)?	**Yes**
#18 Water VOC samples have zero headspace?	**N/A**

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: PH Device/Lot#:

Checklist completed by: Jessica Magierowski Date: 07/30/2019

Checklist reviewed by: Matthew Jones Date: 07/31/2019

Analytical Report 632582

for

Universal Engineering Services Miami

Project Manager: Leigh Marshallsay

Proposed Publix

2110.1900103.0000

12-AUG-19

Xenco Laboratories
1395 NW 17th Avenue, Suite 112A
Delray Beach, FL 33445
Ph:(561) 689-6701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-29), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142), North Carolina (681)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-19-19), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-14)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-20)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-18)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Atlanta (LELAP Lab ID #04176)
Xenco-Tampa: Florida (E87429), North Carolina (483)

12-AUG-19

Project Manager: **Leigh Marshallsay**
Universal Engineering Services Miami
9960 NW 116th Way Suite 8

Miami, FL 33178

Reference: XENCO Report No(s): **632582**
Proposed Publix
Project Address:

Leigh Marshallsay:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 632582. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 632582 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Matthew Jones
Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America

Sample Cross Reference 632582

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
CS-15 (0-6")	S	07-30-19 09:00	0 - 0.5 ft	632582-001
CS-15 (6"-24")	S	07-30-19 09:00	0.5 - 2 ft	632582-002
CS-16 (0-6")	S	07-30-19 09:15	0 - 0.5 ft	632582-003
CS-16 (6"-24")	S	07-30-19 09:15	0.5 - 2 ft	632582-004
CS-17 (0-6")	S	07-30-19 09:22	0 - 0.5 ft	632582-005
CS-17 (6"-24")	S	07-30-19 09:22	0.5 - 2 ft	632582-006
CS-18 (0-6")	S	07-30-19 09:45	0 - 0.5 ft	632582-007
CS-18 (6"-24")	S	07-30-19 09:45	0.5 - 2 ft	632582-008
CS-19 (0-6")	S	07-30-19 10:15	0 - 0.5 ft	632582-009
CS-19 (6"-24")	S	07-30-19 10:15	0.5 - 2 ft	632582-010
CS-20 (0-6")	S	07-30-19 10:31	0 - 0.5 ft	632582-011
CS-20 (6"-24")	S	07-30-19 10:31	0.5 - 2 ft	632582-012
CS-21 (0-6")	S	07-30-19 11:03	0 - 0.5 ft	632582-013
CS-21 (6"-24")	S	07-30-19 11:03	0.5 - 2 ft	632582-014
CS-22 (0-6")	S	07-30-19 11:39	0 - 0.5 ft	632582-015
CS-22 (6"-24")	S	07-30-19 11:39	0.5 - 2 ft	632582-016
CS-23 (0-6")	S	07-30-19 12:56	0 - 0.5 ft	632582-017
CS-23 (6"-24")	S	07-30-19 12:56	0.5 - 2 ft	632582-018
CS-24 (0-6")	S	07-30-19 13:24	0 - 0.5 ft	632582-019
CS-24 (6"-24")	S	07-30-19 13:24	0.5 - 2 ft	632582-020
CS-25 (0-6")	S	07-30-19 13:30	0 - 0.5 ft	632582-021
CS-25 (6"-24")	S	07-30-19 13:30	0.5 - 2 ft	632582-022
CS-26 (0-6")	S	07-30-19 13:51	0 - 0.5 ft	632582-023
CS-26 (6"-24")	S	07-30-19 13:51	0.5 - 2 ft	632582-024
CS-27 (0-6")	S	07-30-19 11:18	0 - 0.5 ft	632582-025
CS-27 (6-24")	S	07-30-19 11:18	0.5 - 2 ft	632582-026

CASE NARRATIVE

Client Name: Universal Engineering Services Miami

Project Name: Proposed Publix

Project ID: *2110.1900103.0000*
Work Order Number(s): *632582*

Report Date: *12-AUG-19*
Date Received: *07/31/2019*

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3097619 Total Metals by EPA 6010B
The matrix spike (MS) and / or matrix spike duplicate (MSD) associated with batch 3097619 recovered outside control limits for Manganese. The associated laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) met acceptance criteria; therefore, the results have been reported and qualified.

Batch: LBA-3097830 SPLP Nitrate-Nitrite by E353.2
The matrix spike (MS) and / or matrix spike duplicate (MSD) associated with batch 3097830 recovered outside control limits for Nitrogen, Nitrate-Nitrite. The associated laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) met acceptance criteria; therefore, the results have been reported and qualified.

Batch: LBA-3097841 EPA 8141 Organophosphorus Pesticides by GC
The laboratory control sample (LCS), laboratory control sample duplicate (LCSD), matrix spike (MS), and matrix spike duplicate (MSD) associated with batch 3097841 recovered outside control limits for Chlorfenvinphos, Merphos, Monocrotophos. These analytes were biased high were not detected in any of the associated samples; therefore, the results have been reported and qualified.

Batch: LBA-3097874 SPLP Nitrate-Nitrite by E353.2
The matrix spike (MS) and / or matrix spike duplicate (MSD) associated with batch 3097874 recovered outside control limits for Nitrogen, Nitrate-Nitrite. The associated laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) met acceptance criteria; therefore, the results have been reported and qualified.

CASE NARRATIVE

Client Name: Universal Engineering Services Miami

Project Name: Proposed Publix

Project ID: *2110.1900103.0000*
Work Order Number(s): *632582*

Report Date: *12-AUG-19*
Date Received: *07/31/2019*

Batch: LBA-3098000 EPA 8141 Organophosphorus Pesticides by GC
Surrogate recovery for the following sample was outside control limits: CS-27 (0-6") (632582-025.). Evidence of matrix interference is present and the data was confirmed by re-analysis; therefore, the results have been reported and qualified.

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) associated with batch 3098000 recovered outside control limits for azinphos-methyl, Monocrotophos, TEPP, and Trichlorfon. These target analytes were biased high in the LCS/LCSD and were not detected in any of the associated samples; therefore, the results have been reported and qualified.

The matrix spike (MS), laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) associated with batch 3098000 recovered outside control limits for Chlorfenvinphos and Merphos. These analytes were biased high and were not detected in any of the associated samples; therefore, the results have been reported and qualified.

Batch: LBA-3098027 Pesticides by SW-846 8081B
Surrogates for the method blank (MB) associated with batch 3098027 were inadvertantly omitted during sample preparation and recovered outside control limits. The results have been reported and qualified.

The precision (%RPD) of the matrix spike (MS) and matrix spike duplicate (MSD) associated with batch 3098027 recovered outside control limits for Aldrin, Alpha-BHC, Gamma-BHC (Lindane), and Heptachlor. Accuracy (%Rec.) for both the MS and MSD recovered within limits; therefore, the associated results have been reported and qualified.

Hits Summary 632582

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Below is a summary of the analytes which were found to be present in the samples associated with this work order. This should only be used in conjunction with the included analytical results.

Sample ID: CS-15 (0-6") **Sample ID: 632582-001** **Date/Time Sampled: 07/30/2019 09:00** **Matrix: Solid**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
4,4-DDT	SW8081B	50-29-3	2	0.000975	0.00717	0.000546	mg/kg	I
Arsenic	SW6010C	7440-38-2	1	19.4	2.70	0.573	mg/kg	
Chromium	SW6010C	7440-47-3	1	10.4	1.35	0.0952	mg/kg	
Copper	SW6010C	7440-50-8	1	34.1	2.70	0.599	mg/kg	
Iron	SW6010C	7439-89-6	1	1360	27.0	3.64	mg/kg	
Lead	SW6010C	7439-92-1	1	9.05	2.70	0.643	mg/kg	
Manganese	SW6010C	7439-96-5	1	307	2.70	0.375	mg/kg	
Percent Moisture	SM2540G	MOIST	1	30.2			%	

Sample ID: CS-15 (0-6") **Sample ID: 632582-001** **Date/Time Sampled: 07/30/2019 09:00** **Matrix: Water**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Nitrogen, Ammonia (as N)	SPLP-EPA 350.1	7664-41-7	1	0.255	0.100	0.0345	mg/L	
Nitrogen, Nitrate-Nitrite	SPLP-EPA353.2	7727-37-9	1	0.172	0.100	0.0283	mg/L	

Sample ID: CS-15 (6"-24") **Sample ID: 632582-002** **Date/Time Sampled: 07/30/2019 09:00** **Matrix: Solid**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Iron	SW6010C	7439-89-6	1	814	23.3	3.14	mg/kg	
Manganese	SW6010C	7439-96-5	1	32.6	2.33	0.323	mg/kg	
Percent Moisture	SM2540G	MOIST	1	28.5			%	

Sample ID: CS-15 (6"-24") **Sample ID: 632582-002** **Date/Time Sampled: 07/30/2019 09:00** **Matrix: Water**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Nitrogen, Ammonia (as N)	SPLP-EPA 350.1	7664-41-7	1	0.0657	0.100	0.0345	mg/L	I
Nitrogen, Nitrate-Nitrite	SPLP-EPA353.2	7727-37-9	1	0.0881	0.100	0.0283	mg/L	I

Sample ID: CS-16 (0-6") **Sample ID: 632582-003** **Date/Time Sampled: 07/30/2019 09:15** **Matrix: Solid**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Arsenic	SW6010C	7440-38-2	1	14.8	2.41	0.510	mg/kg	
Chromium	SW6010C	7440-47-3	1	8.22	1.20	0.0848	mg/kg	
Copper	SW6010C	7440-50-8	1	28.9	2.41	0.534	mg/kg	
Dieldrin	SW8081B	60-57-1	2	0.000540	0.00964	0.000490	mg/kg	I
Iron	SW6010C	7439-89-6	1	1310	24.1	3.25	mg/kg	
Lead	SW6010C	7439-92-1	1	6.43	2.41	0.573	mg/kg	
Manganese	SW6010C	7439-96-5	1	209	2.41	0.334	mg/kg	
Percent Moisture	SM2540G	MOIST	1	30.8			%	

Sample ID: CS-16 (0-6") **Sample ID: 632582-003** **Date/Time Sampled: 07/30/2019 09:15** **Matrix: Water**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Nitrogen, Ammonia (as N)	SPLP-EPA 350.1	7664-41-7	1	0.110	0.100	0.0345	mg/L	
Nitrogen, Nitrate-Nitrite	SPLP-EPA353.2	7727-37-9	1	0.135	0.100	0.0283	mg/L	

Sample ID: CS-16 (6"-24") **Sample ID: 632582-004** **Date/Time Sampled: 07/30/2019 09:15** **Matrix: Solid**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Arsenic	SW6010C	7440-38-2	1	0.845	2.26	0.478	mg/kg	I

Hits Summary 632582

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample ID: 632582-004 **Date/Time Sampled: 07/30/2019 09:15** **Matrix: Solid**

Iron	SW6010C	7439-89-6	1	1000	22.6	3.04	mg/kg	
Manganese	SW6010C	7439-96-5	1	22.9	2.26	0.313	mg/kg	
Percent Moisture	SM2540G	MOIST	1	26.2			%	

Sample ID: CS-16 (6''-24'') **Sample ID: 632582-004** **Date/Time Sampled: 07/30/2019 09:15** **Matrix: Water**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Nitrogen, Ammonia (as N)	SPLP-EPA 350.1	7664-41-7	1	0.0432	0.100	0.0345	mg/L	I
Nitrogen, Nitrate-Nitrite	SPLP-EPA353.2	7727-37-9	1	0.0865	0.100	0.0283	mg/L	I

Sample ID: CS-17 (0-6'') **Sample ID: 632582-005** **Date/Time Sampled: 07/30/2019 09:22** **Matrix: Solid**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
4,4-DDT	SW8081B	50-29-3	1	0.000728	0.00479	0.000365	mg/kg	I
Arsenic	SW6010C	7440-38-2	1	13.1	2.82	0.597	mg/kg	
Chromium	SW6010C	7440-47-3	1	8.71	1.41	0.0992	mg/kg	
Copper	SW6010C	7440-50-8	1	27.5	2.82	0.625	mg/kg	
Iron	SW6010C	7439-89-6	1	1170	28.2	3.80	mg/kg	
Lead	SW6010C	7439-92-1	1	7.59	2.82	0.670	mg/kg	
Manganese	SW6010C	7439-96-5	1	178	2.82	0.391	mg/kg	
Percent Moisture	SM2540G	MOIST	1	30.5			%	

Sample ID: CS-17 (0-6'') **Sample ID: 632582-005** **Date/Time Sampled: 07/30/2019 09:22** **Matrix: Water**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Nitrogen, Nitrate-Nitrite	SPLP-EPA353.2	7727-37-9	1	0.178	0.100	0.0283	mg/L	

Sample ID: CS-17 (6''-24'') **Sample ID: 632582-006** **Date/Time Sampled: 07/30/2019 09:22** **Matrix: Solid**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Arsenic	SW6010C	7440-38-2	1	2.45	2.29	0.484	mg/kg	
Chromium	SW6010C	7440-47-3	1	0.995	1.14	0.0804	mg/kg	I
Iron	SW6010C	7439-89-6	1	417	22.9	3.08	mg/kg	
Manganese	SW6010C	7439-96-5	1	11.7	2.29	0.317	mg/kg	
Percent Moisture	SM2540G	MOIST	1	21.9			%	

Sample ID: CS-17 (6''-24'') **Sample ID: 632582-006** **Date/Time Sampled: 07/30/2019 09:22** **Matrix: Water**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Nitrogen, Nitrate-Nitrite	SPLP-EPA353.2	7727-37-9	1	0.0705	0.100	0.0283	mg/L	I

Sample ID: CS-18 (0-6'') **Sample ID: 632582-007** **Date/Time Sampled: 07/30/2019 09:45** **Matrix: Solid**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
4,4-DDE	SW8081B	72-55-9	1	0.00874	0.00427	0.00214	mg/kg	
4,4-DDT	SW8081B	50-29-3	1	0.00174	0.00427	0.000325	mg/kg	I
Alpha-Chlordane	SW8081B	5103-71-9	1	0.00128	0.00427	0.000732	mg/kg	I
Arsenic	SW6010C	7440-38-2	1	11.0	2.14	0.453	mg/kg	
Chromium	SW6010C	7440-47-3	1	7.94	1.07	0.0752	mg/kg	
Copper	SW6010C	7440-50-8	1	35.4	2.14	0.473	mg/kg	
Dieldrin	SW8081B	60-57-1	1	0.00212	0.00427	0.000217	mg/kg	I
Iron	SW6010C	7439-89-6	1	2000	21.4	2.88	mg/kg	

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Sample ID: 632582-007			**Date/Time Sampled: 07/30/2019 09:45**					**Matrix: Solid**
Lead	SW6010C	7439-92-1	1	7.12	2.14	0.508	mg/kg	
Manganese	SW6010C	7439-96-5	1	122	2.14	0.296	mg/kg	
Percent Moisture	SM2540G	MOIST	1	22.0			%	
Sample ID: CS-18 (0-6")	**Sample ID: 632582-007**		**Date/Time Sampled: 07/30/2019 09:45**					**Matrix: Water**
Analyte Name	**Method**	**CAS No.**	**Dil.**	**Result**	**RL/PQL**	**MDL**	**Units**	**Qual**
Nitrogen, Ammonia (as N)	SPLP-EPA 350.1	7664-41-7	1	0.469	0.100	0.0345	mg/L	
Nitrogen, Nitrate-Nitrite	SPLP-EPA353.2	7727-37-9	1	0.235	0.100	0.0283	mg/L	
Sample ID: CS-18 (6"-24")	**Sample ID: 632582-008**		**Date/Time Sampled: 07/30/2019 09:45**					**Matrix: Solid**
Analyte Name	**Method**	**CAS No.**	**Dil.**	**Result**	**RL/PQL**	**MDL**	**Units**	**Qual**
Arsenic	SW6010C	7440-38-2	1	1.35	2.01	0.426	mg/kg	I
Chromium	SW6010C	7440-47-3	1	8.78	1.01	0.0708	mg/kg	
Iron	SW6010C	7439-89-6	1	2380	20.1	2.71	mg/kg	
Manganese	SW6010C	7439-96-5	1	9.60	2.01	0.279	mg/kg	
Percent Moisture	SM2540G	MOIST	1	17.2			%	
Sample ID: CS-18 (6"-24")	**Sample ID: 632582-008**		**Date/Time Sampled: 07/30/2019 09:45**					**Matrix: Water**
Analyte Name	**Method**	**CAS No.**	**Dil.**	**Result**	**RL/PQL**	**MDL**	**Units**	**Qual**
Nitrogen, Nitrate-Nitrite	SPLP-EPA353.2	7727-37-9	1	0.0909	0.100	0.0283	mg/L	I
Sample ID: CS-19 (0-6")	**Sample ID: 632582-009**		**Date/Time Sampled: 07/30/2019 10:15**					**Matrix: Solid**
Analyte Name	**Method**	**CAS No.**	**Dil.**	**Result**	**RL/PQL**	**MDL**	**Units**	**Qual**
Arsenic	SW6010C	7440-38-2	1	7.03	2.65	0.561	mg/kg	
Chromium	SW6010C	7440-47-3	1	6.36	1.32	0.0932	mg/kg	
Copper	SW6010C	7440-50-8	1	25.0	2.65	0.586	mg/kg	
Iron	SW6010C	7439-89-6	1	1400	26.5	3.57	mg/kg	
Lead	SW6010C	7439-92-1	1	18.4	2.65	0.630	mg/kg	
Manganese	SW6010C	7439-96-5	1	102	2.65	0.367	mg/kg	
Percent Moisture	SM2540G	MOIST	1	24.5			%	
Sample ID: CS-19 (0-6")	**Sample ID: 632582-009**		**Date/Time Sampled: 07/30/2019 10:15**					**Matrix: Water**
Analyte Name	**Method**	**CAS No.**	**Dil.**	**Result**	**RL/PQL**	**MDL**	**Units**	**Qual**
Nitrogen, Ammonia (as N)	SPLP-EPA 350.1	7664-41-7	1	0.133	0.100	0.0345	mg/L	
Nitrogen, Nitrate-Nitrite	SPLP-EPA353.2	7727-37-9	1	0.816	0.100	0.0283	mg/L	
Sample ID: CS-19 (6"-24")	**Sample ID: 632582-010**		**Date/Time Sampled: 07/30/2019 10:15**					**Matrix: Solid**
Analyte Name	**Method**	**CAS No.**	**Dil.**	**Result**	**RL/PQL**	**MDL**	**Units**	**Qual**
4,4-DDT	SW8081B	50-29-3	2	0.000772	0.00808	0.000615	mg/kg	I
Arsenic	SW6010C	7440-38-2	1	2.87	2.43	0.514	mg/kg	
Chromium	SW6010C	7440-47-3	1	6.27	1.21	0.0853	mg/kg	
Copper	SW6010C	7440-50-8	1	8.01	2.43	0.537	mg/kg	
Dieldrin	SW8081B	60-57-1	2	0.000428	0.00808	0.000411	mg/kg	I
Iron	SW6010C	7439-89-6	1	1370	24.3	3.27	mg/kg	
Lead	SW6010C	7439-92-1	1	4.92	2.43	0.577	mg/kg	
Manganese	SW6010C	7439-96-5	1	45.7	2.43	0.336	mg/kg	

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Sample ID: 632582-010 **Date/Time Sampled: 07/30/2019 10:15** **Matrix: Solid**

Percent Moisture	SM2540G	MOIST	1	17.5		%

Sample ID: CS-19 (6''-24'') **Sample ID: 632582-010** **Date/Time Sampled: 07/30/2019 10:15** **Matrix: Water**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Nitrogen, Ammonia (as N)	SPLP-EPA 350.1	7664-41-7	1	0.0914	0.100	0.0345	mg/L	I
Nitrogen, Nitrate-Nitrite	SPLP-EPA353.2	7727-37-9	1	0.184	0.100	0.0283	mg/L	

Sample ID: CS-20 (0-6'') **Sample ID: 632582-011** **Date/Time Sampled: 07/30/2019 10:31** **Matrix: Solid**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
4,4-DDD	SW8081B	72-54-8	2	0.00513	0.00875	0.00202	mg/kg	I
4,4-DDE	SW8081B	72-55-9	2	0.0347	0.00875	0.00437	mg/kg	
4,4-DDT	SW8081B	50-29-3	2	0.0108	0.00875	0.000666	mg/kg	
Alpha-Chlordane	SW8081B	5103-71-9	2	0.0124	0.00875	0.00150	mg/kg	
Arsenic	SW6010C	7440-38-2	1	8.22	2.30	0.487	mg/kg	
Chromium	SW6010C	7440-47-3	1	8.62	1.15	0.0809	mg/kg	
Copper	SW6010C	7440-50-8	1	22.1	2.30	0.509	mg/kg	
Dieldrin	SW8081B	60-57-1	2	0.00376	0.00875	0.000445	mg/kg	I
Endrin	SW8081B	72-20-8	2	0.00582	0.00875	0.000763	mg/kg	I
Gamma-Chlordane	SW8081B	5103-74-2	2	0.00907	0.00875	0.00200	mg/kg	
Heptachlor Epoxide	SW8081B	1024-57-3	2	0.00207	0.00875	0.000643	mg/kg	I
Iron	SW6010C	7439-89-6	1	4890	23.0	3.10	mg/kg	
Lead	SW6010C	7439-92-1	1	454	2.30	0.547	mg/kg	
Manganese	SW6010C	7439-96-5	1	133	2.30	0.319	mg/kg	
Percent Moisture	SM2540G	MOIST	1	23.7			%	

Sample ID: CS-20 (0-6'') **Sample ID: 632582-011** **Date/Time Sampled: 07/30/2019 10:31** **Matrix: Water**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Nitrogen, Ammonia (as N)	SPLP-EPA 350.1	7664-41-7	1	0.161	0.100	0.0345	mg/L	
Nitrogen, Nitrate-Nitrite	SPLP-EPA353.2	7727-37-9	1	1.05	0.100	0.0283	mg/L	

Sample ID: CS-20 (6''-24'') **Sample ID: 632582-012** **Date/Time Sampled: 07/30/2019 10:31** **Matrix: Solid**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
4,4-DDD	SW8081B	72-54-8	2	0.0122	0.00819	0.00190	mg/kg	
4,4-DDE	SW8081B	72-55-9	2	0.0590	0.00819	0.00410	mg/kg	
4,4-DDT	SW8081B	50-29-3	2	0.00921	0.00819	0.000624	mg/kg	
Alpha-Chlordane	SW8081B	5103-71-9	2	0.0186	0.00819	0.00140	mg/kg	
Arsenic	SW6010C	7440-38-2	1	5.68	2.23	0.473	mg/kg	
Chromium	SW6010C	7440-47-3	1	8.35	1.12	0.0786	mg/kg	
Copper	SW6010C	7440-50-8	1	10.1	2.23	0.495	mg/kg	
Dieldrin	SW8081B	60-57-1	2	0.00597	0.00819	0.000416	mg/kg	I
Endrin	SW8081B	72-20-8	2	0.00668	0.00819	0.000715	mg/kg	I
Gamma-Chlordane	SW8081B	5103-74-2	2	0.0163	0.00819	0.00188	mg/kg	
Heptachlor Epoxide	SW8081B	1024-57-3	2	0.00278	0.00819	0.000602	mg/kg	I
Iron	SW6010C	7439-89-6	20	11600	447	60.2	mg/kg	
Lead	SW6010C	7439-92-1	20	1510	44.7	10.6	mg/kg	

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Sample ID: 632582-012 **Date/Time Sampled: 07/30/2019 10:31** **Matrix: Solid**

Manganese	SW6010C	7439-96-5	1	108	2.23	0.310	mg/kg	
Percent Moisture	SM2540G	MOIST	1	18.6			%	

Sample ID: CS-20 (6''-24'') **Sample ID: 632582-012** **Date/Time Sampled: 07/30/2019 10:31** **Matrix: Water**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Nitrogen, Ammonia (as N)	SPLP-EPA 350.1	7664-41-7	1	0.0908	0.100	0.0345	mg/L	I
Nitrogen, Nitrate-Nitrite	SPLP-EPA353.2	7727-37-9	1	0.344	0.100	0.0283	mg/L	

Sample ID: CS-21 (0-6'') **Sample ID: 632582-013** **Date/Time Sampled: 07/30/2019 11:03** **Matrix: Solid**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
4,4-DDT	SW8081B	50-29-3	2	0.000683	0.00860	0.000655	mg/kg	I
Arsenic	SW6010C	7440-38-2	1	9.59	2.53	0.536	mg/kg	
Chromium	SW6010C	7440-47-3	1	10.6	1.26	0.0890	mg/kg	
Copper	SW6010C	7440-50-8	1	19.6	2.53	0.560	mg/kg	
Iron	SW6010C	7439-89-6	1	2700	25.3	3.41	mg/kg	
Lead	SW6010C	7439-92-1	1	17.8	2.53	0.601	mg/kg	
Manganese	SW6010C	7439-96-5	1	135	2.53	0.351	mg/kg	
Percent Moisture	SM2540G	MOIST	1	22.4			%	

Sample ID: CS-21 (0-6'') **Sample ID: 632582-013** **Date/Time Sampled: 07/30/2019 11:03** **Matrix: Water**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Nitrogen, Ammonia (as N)	SPLP-EPA 350.1	7664-41-7	1	0.0728	0.100	0.0345	mg/L	I
Nitrogen, Nitrate-Nitrite	SPLP-EPA353.2	7727-37-9	1	0.413	0.100	0.0283	mg/L	

Sample ID: CS-21 (6''-24'') **Sample ID: 632582-014** **Date/Time Sampled: 07/30/2019 11:03** **Matrix: Solid**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
4,4-DDT	SW8081B	50-29-3	1	0.000477	0.00430	0.000327	mg/kg	I
Arsenic	SW6010C	7440-38-2	1	2.16	2.34	0.496	mg/kg	I
Chromium	SW6010C	7440-47-3	1	11.0	1.17	0.0825	mg/kg	
Copper	SW6010C	7440-50-8	1	3.26	2.34	0.519	mg/kg	
Iron	SW6010C	7439-89-6	1	2200	23.4	3.16	mg/kg	
Lead	SW6010C	7439-92-1	1	2.25	2.34	0.557	mg/kg	I
Manganese	SW6010C	7439-96-5	1	24.9	2.34	0.325	mg/kg	
Percent Moisture	SM2540G	MOIST	1	22.4			%	

Sample ID: CS-21 (6''-24'') **Sample ID: 632582-014** **Date/Time Sampled: 07/30/2019 11:03** **Matrix: Water**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Nitrogen, Ammonia (as N)	SPLP-EPA 350.1	7664-41-7	1	0.437	0.100	0.0345	mg/L	
Nitrogen, Nitrate-Nitrite	SPLP-EPA353.2	7727-37-9	1	0.142	0.100	0.0283	mg/L	

Sample ID: CS-22 (0-6'') **Sample ID: 632582-015** **Date/Time Sampled: 07/30/2019 11:39** **Matrix: Solid**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
4,4-DDD	SW8081B	72-54-8	1	0.00124	0.00469	0.00109	mg/kg	I
4,4-DDE	SW8081B	72-55-9	1	0.00408	0.00469	0.00235	mg/kg	I
4,4-DDT	SW8081B	50-29-3	1	0.00486	0.00469	0.000357	mg/kg	
Arsenic	SW6010C	7440-38-2	1	12.5	2.71	0.574	mg/kg	

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Sample ID: 632582-015 **Date/Time Sampled: 07/30/2019 11:39** **Matrix: Solid**

Chromium	SW6010C	7440-47-3	1	9.88	1.35	0.0953	mg/kg	
Copper	SW6010C	7440-50-8	1	25.5	2.71	0.600	mg/kg	
Endosulfan Sulfate	SW8081B	1031-07-8	1	0.000692	0.00469	0.000388	mg/kg	I
Iron	SW6010C	7439-89-6	1	1490	27.1	3.65	mg/kg	
Lead	SW6010C	7439-92-1	1	9.00	2.71	0.644	mg/kg	
Manganese	SW6010C	7439-96-5	1	174	2.71	0.376	mg/kg	
Percent Moisture	SM2540G	MOIST	1	29.0			%	

Sample ID: CS-22 (0-6") **Sample ID: 632582-015** **Date/Time Sampled: 07/30/2019 11:39** **Matrix: Water**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Nitrogen, Ammonia (as N)	SPLP-EPA 350.1	7664-41-7	1	0.0707	0.100	0.0345	mg/L	I
Nitrogen, Nitrate-Nitrite	SPLP-EPA353.2	7727-37-9	1	0.250	0.100	0.0283	mg/L	

Sample ID: CS-22 (6"-24") **Sample ID: 632582-016** **Date/Time Sampled: 07/30/2019 11:39** **Matrix: Solid**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
4,4-DDT	SW8081B	50-29-3	1	0.000396	0.00439	0.000335	mg/kg	I
Arsenic	SW6010C	7440-38-2	1	4.88	2.54	0.537	mg/kg	
Chromium	SW6010C	7440-47-3	1	7.99	1.27	0.0892	mg/kg	
Copper	SW6010C	7440-50-8	1	9.41	2.54	0.562	mg/kg	
Iron	SW6010C	7439-89-6	1	775	25.4	3.42	mg/kg	
Lead	SW6010C	7439-92-1	1	2.60	2.54	0.603	mg/kg	
Manganese	SW6010C	7439-96-5	1	74.6	2.54	0.352	mg/kg	
Percent Moisture	SM2540G	MOIST	1	24.2			%	

Sample ID: CS-22 (6"-24") **Sample ID: 632582-016** **Date/Time Sampled: 07/30/2019 11:39** **Matrix: Water**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Nitrogen, Nitrate-Nitrite	SPLP-EPA353.2	7727-37-9	1	0.0805	0.100	0.0283	mg/L	I

Sample ID: CS-23 (0-6") **Sample ID: 632582-017** **Date/Time Sampled: 07/30/2019 12:56** **Matrix: Solid**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
4,4-DDT	SW8081B	50-29-3	1	0.000773	0.00491	0.000374	mg/kg	I
Arsenic	SW6010C	7440-38-2	1	11.2	2.89	0.612	mg/kg	
Chromium	SW6010C	7440-47-3	1	6.26	1.44	0.102	mg/kg	
Copper	SW6010C	7440-50-8	1	23.7	2.89	0.640	mg/kg	
Iron	SW6010C	7439-89-6	1	1110	28.9	3.89	mg/kg	
Lead	SW6010C	7439-92-1	1	6.61	2.89	0.687	mg/kg	
Manganese	SW6010C	7439-96-5	1	179	2.89	0.401	mg/kg	
Percent Moisture	SM2540G	MOIST	1	32.1			%	

Sample ID: CS-23 (0-6") **Sample ID: 632582-017** **Date/Time Sampled: 07/30/2019 12:56** **Matrix: Water**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Nitrogen, Ammonia (as N)	SPLP-EPA 350.1	7664-41-7	1	0.136	0.100	0.0345	mg/L	
Nitrogen, Nitrate-Nitrite	SPLP-EPA353.2	7727-37-9	1	0.226	0.100	0.0283	mg/L	

Sample ID: CS-23 (6"-24") **Sample ID: 632582-018** **Date/Time Sampled: 07/30/2019 12:56** **Matrix: Solid**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual

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	Sample ID: 632582-018		**Date/Time Sampled: 07/30/2019 12:56**					**Matrix: Solid**
Arsenic	SW6010C	7440-38-2	1	9.39	2.71	0.575	mg/kg	
Chromium	SW6010C	7440-47-3	1	2.74	1.36	0.0955	mg/kg	
Iron	SW6010C	7439-89-6	1	666	27.1	3.66	mg/kg	
Manganese	SW6010C	7439-96-5	1	21.0	2.71	0.376	mg/kg	
Percent Moisture	SM2540G	MOIST	1	27.7			%	
Sample ID: CS-23 (6''-24'')	**Sample ID: 632582-018**		**Date/Time Sampled: 07/30/2019 12:56**					**Matrix: Water**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Nitrogen, Nitrate-Nitrite	SPLP-EPA353.2	7727-37-9	1	0.0486	0.100	0.0283	mg/L	I
Sample ID: CS-24 (0-6'')	**Sample ID: 632582-019**		**Date/Time Sampled: 07/30/2019 13:24**					**Matrix: Solid**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
4,4-DDT	SW8081B	50-29-3	1	0.000952	0.00497	0.000379	mg/kg	I
Arsenic	SW6010C	7440-38-2	1	33.4	2.81	0.596	mg/kg	
Chromium	SW6010C	7440-47-3	1	16.4	1.41	0.0990	mg/kg	
Copper	SW6010C	7440-50-8	1	36.0	2.81	0.623	mg/kg	
Iron	SW6010C	7439-89-6	1	1640	28.1	3.79	mg/kg	
Lead	SW6010C	7439-92-1	1	2.34	2.81	0.669	mg/kg	I
Manganese	SW6010C	7439-96-5	1	249	2.81	0.390	mg/kg	
Percent Moisture	SM2540G	MOIST	1	32.9			%	
Sample ID: CS-24 (0-6'')	**Sample ID: 632582-019**		**Date/Time Sampled: 07/30/2019 13:24**					**Matrix: Water**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Nitrogen, Ammonia (as N)	SPLP-EPA 350.1	7664-41-7	1	0.0849	0.100	0.0345	mg/L	I
Nitrogen, Nitrate-Nitrite	SPLP-EPA353.2	7727-37-9	1	0.267	0.100	0.0283	mg/L	
Sample ID: CS-24 (6''-24'')	**Sample ID: 632582-020**		**Date/Time Sampled: 07/30/2019 13:24**					**Matrix: Solid**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
4,4-DDE	SW8081B	72-55-9	1	0.00396	0.00462	0.00231	mg/kg	I
4,4-DDT	SW8081B	50-29-3	1	0.00188	0.00462	0.000352	mg/kg	I
Arsenic	SW6010C	7440-38-2	1	12.8	2.72	0.577	mg/kg	
Chromium	SW6010C	7440-47-3	1	3.89	1.36	0.0959	mg/kg	
Copper	SW6010C	7440-50-8	1	1.97	2.72	0.603	mg/kg	I
Iron	SW6010C	7439-89-6	1	1110	27.2	3.67	mg/kg	
Manganese	SW6010C	7439-96-5	1	64.5	2.72	0.378	mg/kg	
Percent Moisture	SM2540G	MOIST	1	28.0			%	
Sample ID: CS-24 (6''-24'')	**Sample ID: 632582-020**		**Date/Time Sampled: 07/30/2019 13:24**					**Matrix: Water**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Nitrogen, Nitrate-Nitrite	SPLP-EPA353.2	7727-37-9	1	0.0859	0.100	0.0283	mg/L	I
Sample ID: CS-25 (0-6'')	**Sample ID: 632582-021**		**Date/Time Sampled: 07/30/2019 13:30**					**Matrix: Solid**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Arsenic	SW6010C	7440-38-2	1	28.6	2.56	0.542	mg/kg	
Chromium	SW6010C	7440-47-3	1	12.9	1.28	0.0900	mg/kg	
Copper	SW6010C	7440-50-8	1	29.2	2.56	0.566	mg/kg	

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Sample ID: 632582-021 **Date/Time Sampled: 07/30/2019 13:30** **Matrix: Solid**

Endosulfan I	SW8081B	959-98-8	1	0.00654	0.00716	0.000433	mg/kg	I
Endosulfan II	SW8081B	33213-65-9	1	0.00467	0.00716	0.000799	mg/kg	I
Iron	SW6010C	7439-89-6	1	1480	25.6	3.45	mg/kg	
Manganese	SW6010C	7439-96-5	1	201	2.56	0.355	mg/kg	
Percent Moisture	SM2540G	MOIST	1	30.2			%	

Sample ID: CS-25 (0-6'') **Sample ID: 632582-021** **Date/Time Sampled: 07/30/2019 13:30** **Matrix: Water**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Nitrogen, Ammonia (as N)	SPLP-EPA 350.1	7664-41-7	1	0.129	0.100	0.0345	mg/L	
Nitrogen, Nitrate-Nitrite	SPLP-EPA353.2	7727-37-9	1	0.343	0.100	0.0283	mg/L	

Sample ID: CS-25 (6''-24'') **Sample ID: 632582-022** **Date/Time Sampled: 07/30/2019 13:30** **Matrix: Solid**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
4,4-DDE	SW8081B	72-55-9	1	0.00302	0.00464	0.00232	mg/kg	I
Arsenic	SW6010C	7440-38-2	1	18.2	2.68	0.568	mg/kg	
Chromium	SW6010C	7440-47-3	1	11.1	1.34	0.0943	mg/kg	
Copper	SW6010C	7440-50-8	1	13.0	2.68	0.594	mg/kg	
Dieldrin	SW8081B	60-57-1	1	0.000265	0.00464	0.000236	mg/kg	I
Iron	SW6010C	7439-89-6	1	1390	26.8	3.61	mg/kg	
Manganese	SW6010C	7439-96-5	1	101	2.68	0.372	mg/kg	
Percent Moisture	SM2540G	MOIST	1	28.2			%	

Sample ID: CS-26 (0-6'') **Sample ID: 632582-023** **Date/Time Sampled: 07/30/2019 13:51** **Matrix: Solid**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Arsenic	SW6010C	7440-38-2	1	26.9	2.62	0.554	mg/kg	
Chromium	SW6010C	7440-47-3	1	14.4	1.31	0.0920	mg/kg	
Copper	SW6010C	7440-50-8	1	31.8	2.62	0.579	mg/kg	
Iron	SW6010C	7439-89-6	1	2170	26.2	3.52	mg/kg	
Manganese	SW6010C	7439-96-5	1	182	2.62	0.363	mg/kg	
Percent Moisture	SM2540G	MOIST	1	34.1			%	

Sample ID: CS-26 (0-6'') **Sample ID: 632582-023** **Date/Time Sampled: 07/30/2019 13:51** **Matrix: Water**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Nitrogen, Ammonia (as N)	SPLP-EPA 350.1	7664-41-7	1	0.0775	0.100	0.0345	mg/L	I
Nitrogen, Nitrate-Nitrite	SPLP-EPA353.2	7727-37-9	1	0.279	0.100	0.0283	mg/L	

Sample ID: CS-26 (6''-24'') **Sample ID: 632582-024** **Date/Time Sampled: 07/30/2019 13:51** **Matrix: Solid**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Arsenic	SW6010C	7440-38-2	1	17.4	2.70	0.571	mg/kg	
Chromium	SW6010C	7440-47-3	1	8.06	1.35	0.0948	mg/kg	
Copper	SW6010C	7440-50-8	1	16.2	2.70	0.597	mg/kg	
Iron	SW6010C	7439-89-6	1	1120	27.0	3.63	mg/kg	
Manganese	SW6010C	7439-96-5	1	136	2.70	0.374	mg/kg	
Percent Moisture	SM2540G	MOIST	1	30.0			%	

Sample ID: CS-26 (6''-24'') **Sample ID: 632582-024** **Date/Time Sampled: 07/30/2019 13:51** **Matrix: Water**

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Sample ID: 632582-024 **Date/Time Sampled: 07/30/2019 13:51** **Matrix: Water**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Nitrogen, Ammonia (as N)	SPLP-EPA 350.1	7664-41-7	1	0.0719	0.100	0.0345	mg/L	I
Nitrogen, Nitrate-Nitrite	SPLP-EPA353.2	7727-37-9	1	0.0702	0.100	0.0283	mg/L	I

Sample ID: CS-27 (0-6") **Sample ID: 632582-025** **Date/Time Sampled: 07/30/2019 11:18** **Matrix: Solid**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
4,4-DDD	SW8081B	72-54-8	2	0.0162	0.00880	0.00204	mg/kg	
4,4-DDE	SW8081B	72-55-9	2	0.0860	0.00880	0.00440	mg/kg	
4,4-DDT	SW8081B	50-29-3	2	0.0207	0.00880	0.000670	mg/kg	
Alpha-Chlordane	SW8081B	5103-71-9	2	0.128	0.00880	0.00151	mg/kg	
Arsenic	SW6010C	7440-38-2	1	14.1	2.28	0.482	mg/kg	
Chlordane	SW8081B	12789-03-6	2	0.0631 U	0.220	0.0631	mg/kg	
Chromium	SW6010C	7440-47-3	1	11.1	1.14	0.0801	mg/kg	
Copper	SW6010C	7440-50-8	1	21.6	2.28	0.504	mg/kg	
Dieldrin	SW8081B	60-57-1	2	0.00960	0.00880	0.000447	mg/kg	
Endrin	SW8081B	72-20-8	2	0.0110	0.00880	0.000767	mg/kg	
Gamma-Chlordane	SW8081B	5103-74-2	2	0.0379	0.00880	0.00201	mg/kg	
Heptachlor Epoxide	SW8081B	1024-57-3	2	0.00824	0.00880	0.000646	mg/kg	I
Iron	SW6010C	7439-89-6	1	2250	22.8	3.07	mg/kg	
Lead	SW6010C	7439-92-1	1	52.0	2.28	0.541	mg/kg	
Manganese	SW6010C	7439-96-5	1	94.0	2.28	0.316	mg/kg	
Percent Moisture	SM2540G	MOIST	1	24.2			%	

Sample ID: CS-27 (0-6") **Sample ID: 632582-025** **Date/Time Sampled: 07/30/2019 11:18** **Matrix: Water**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Nitrogen, Ammonia (as N)	SPLP-EPA 350.1	7664-41-7	1	0.366	0.100	0.0345	mg/L	
Nitrogen, Nitrate-Nitrite	SPLP-EPA353.2	7727-37-9	1	0.224	0.100	0.0283	mg/L	

Sample ID: CS-27 (6-24") **Sample ID: 632582-026** **Date/Time Sampled: 07/30/2019 11:18** **Matrix: Solid**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
4,4-DDE	SW8081B	72-55-9	1	0.00393	0.00410	0.00205	mg/kg	I
4,4-DDT	SW8081B	50-29-3	1	0.00308	0.00410	0.000312	mg/kg	I
Arsenic	SW6010C	7440-38-2	1	8.36	2.32	0.492	mg/kg	
Chromium	SW6010C	7440-47-3	1	6.17	1.16	0.0817	mg/kg	
Gamma-Chlordane	SW8081B	5103-74-2	1	0.00155	0.00410	0.000938	mg/kg	I
Iron	SW6010C	7439-89-6	1	968	23.2	3.13	mg/kg	
Manganese	SW6010C	7439-96-5	1	15.7	2.32	0.322	mg/kg	
Percent Moisture	SM2540G	MOIST	1	18.7			%	
Toxaphene	SW8081B	8001-35-2	1	0.172	0.102	0.0139	mg/kg	

Sample ID: CS-27 (6-24") **Sample ID: 632582-026** **Date/Time Sampled: 07/30/2019 11:18** **Matrix: Water**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Nitrogen, Ammonia (as N)	SPLP-EPA 350.1	7664-41-7	1	0.135	0.100	0.0345	mg/L	
Nitrogen, Nitrate-Nitrite	SPLP-EPA353.2	7727-37-9	1	0.0479	0.100	0.0283	mg/L	I

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Sample Id: **CS-15 (0-6")**
Lab Sample Id: 632582-001

Matrix: Soil
Date Collected: 07.30.19 09.00

Date Received: 07.31.19 12.10
Sample Depth: 0 - 0.5 ft

Analytical Method: Metals, Total by SW846 6010C
Tech: PJB
Analyst: DEP
Seq Number: 3097619

Date Prep: 08.05.19 13.20

Prep Method: SW3050B
% Moisture: 30.23
Basis: Dry Weight
SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Arsenic	7440-38-2	**19.4**	2.70	0.573		mg/kg	08.05.19 22.19	1
Chromium	7440-47-3	**10.4**	1.35	0.0952		mg/kg	08.05.19 22.19	1
Copper	7440-50-8	**34.1**	2.70	0.599		mg/kg	08.05.19 22.19	1
Iron	7439-89-6	**1360**	27.0	3.64		mg/kg	08.05.19 22.19	1
Lead	7439-92-1	**9.05**	2.70	0.643		mg/kg	08.05.19 22.19	1
Manganese	7439-96-5	**307**	2.70	0.375		mg/kg	08.05.19 22.19	1

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Sample Id: **CS-15 (0-6'')** Matrix: Soil Date Received:07.31.19 12.10

Lab Sample Id: 632582-001 Date Collected: 07.30.19 09.00 Sample Depth: 0 - 0.5 ft

Analytical Method: EPA 8141 Organophosphorus Pesticides by GC Prep Method: SW3550

Tech: BNS % Moisture:

Analyst: CHD Date Prep: 08.07.19 10.10 Basis: Wet Weight

Seq Number: 3097841 SUB: E871146

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
azinphos-methyl	86-50-0	0.00166 U	0.00331	0.00166	U	mg/kg	08.07.19 16.38	1
Chlorpyrifos	2921-88-2	0.00166 U	0.00331	0.00166	U	mg/kg	08.07.19 16.38	1
Coumaphos	56-72-4	0.00166 U	0.00331	0.00166	U	mg/kg	08.07.19 16.38	1
Demeton-O	298-03-3	0.00166 U	0.00331	0.00166	U	mg/kg	08.07.19 16.38	1
Demeton-S	126-75-0	0.00166 U	0.00331	0.00166	U	mg/kg	08.07.19 16.38	1
Diazinon	333-41-5	0.00166 U	0.00331	0.00166	U	mg/kg	08.07.19 16.38	1
Dimethoate	60-51-5	0.00166 U	0.00331	0.00166	U	mg/kg	08.07.19 16.38	1
EPN (Ent)	2104-64-5	0.00166 U	0.00331	0.00166	U	mg/kg	08.07.19 16.38	1
Ethoprop	13194-48-4	0.00166 U	0.00331	0.00166	U	mg/kg	08.07.19 16.38	1
Famphur	52-85-7	0.00166 U	0.00331	0.00166	U	mg/kg	08.07.19 16.38	1
Fenthion	55-38-9	0.00166 U	0.00331	0.00166	U	mg/kg	08.07.19 16.38	1
Malathion	121-75-5	0.00166 U	0.00331	0.00166	U	mg/kg	08.07.19 16.38	1
Merphos	150-50-5	0.00166 U	0.00331	0.00166	UJ	mg/kg	08.07.19 16.38	1
Mevinphos	7786-34-7	0.00166 U	0.00331	0.00166	U	mg/kg	08.07.19 16.38	1
Monocrotophos	2157-98-4	0.00166 U	0.00331	0.00166	UJ	mg/kg	08.07.19 16.38	1
Naled	300-76-5	0.00166 U	0.00331	0.00166	U	mg/kg	08.07.19 16.38	1
Parathion, Ethyl	56-38-2	0.00166 U	0.00331	0.00166	U	mg/kg	08.07.19 16.38	1
Parathion, Methyl	298-00-0	0.00166 U	0.00331	0.00166	U	mg/kg	08.07.19 16.38	1
Phorate	298-02-2	0.00166 U	0.00331	0.00166	U	mg/kg	08.07.19 16.38	1
Ronnel	299-84-3	0.00166 U	0.00331	0.00166	U	mg/kg	08.07.19 16.38	1
stirophos	22248-79-9	0.00166 U	0.00331	0.00166	U	mg/kg	08.07.19 16.38	1
Sulfotep	3689-24-5	0.00166 U	0.00331	0.00166	U	mg/kg	08.07.19 16.38	1
Sulprofos	35400-43-2	0.00166 U	0.00331	0.00166	U	mg/kg	08.07.19 16.38	1
TEPP	21646-99-1	0.00166 U	0.00331	0.00166	U	mg/kg	08.07.19 16.38	1
Tokuthion	34643-46-4	0.00166 U	0.00331	0.00166	U	mg/kg	08.07.19 16.38	1
Trichloronate	327-98-0	0.00166 U	0.00331	0.00166	U	mg/kg	08.07.19 16.38	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tributyl Phosphate	126-73-8	76	%	38-123	08.07.19 16.38	

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Proposed Publix

Sample Id: **CS-15 (0-6")**
Lab Sample Id: 632582-001

Matrix: Soil
Date Collected: 07.30.19 09.00

Date Received: 07.31.19 12.10
Sample Depth: 0 - 0.5 ft

Analytical Method: Pesticides by SW-846 8081B
Tech: JSE
Analyst: VIC
Seq Number: 3098123

Date Prep: 08.08.19 11.09

Prep Method: SW3550
% Moisture: 30.23
Basis: Dry Weight
SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
4,4-DDD	72-54-8	0.00166 U	0.00717	0.00166	U	mg/kg	08.09.19 13.59	1
4,4-DDE	72-55-9	0.00358 U	0.00717	0.00358	U	mg/kg	08.09.19 13.59	1
4,4-DDT	50-29-3	**0.000975**	0.00717	0.000546	I	mg/kg	08.09.19 13.59	1
Aldrin	309-00-2	0.000780 U	0.00717	0.000780	U	mg/kg	08.09.19 13.59	1
Alpha-BHC	319-84-6	0.00146 U	0.00717	0.00146	U	mg/kg	08.09.19 13.59	1
Alpha-Chlordane	5103-71-9	0.00123 U	0.00717	0.00123	U	mg/kg	08.09.19 13.59	1
Beta-BHC	319-85-7	0.00102 U	0.00717	0.00102	U	mg/kg	08.09.19 13.59	1
Delta-BHC	319-86-8	0.00358 U	0.00717	0.00358	U	mg/kg	08.09.19 13.59	1
Dieldrin	60-57-1	0.000364 U	0.00717	0.000364	U	mg/kg	08.09.19 13.59	1
Endosulfan I	959-98-8	0.000434 U	0.00717	0.000434	U	mg/kg	08.09.19 13.59	1
Endosulfan II	33213-65-9	0.000800 U	0.00717	0.000800	U	mg/kg	08.09.19 13.59	1
Endosulfan Sulfate	1031-07-8	0.000593 U	0.00717	0.000593	U	mg/kg	08.09.19 13.59	1
Endrin	72-20-8	0.000625 U	0.00717	0.000625	U	mg/kg	08.09.19 13.59	1
Endrin Aldehyde	7421-93-4	0.000532 U	0.00717	0.000532	U	mg/kg	08.09.19 13.59	1
Endrin Ketone	53494-70-5	0.000776 U	0.00717	0.000776	U	mg/kg	08.09.19 13.59	1
Gamma-BHC (Lindane)	58-89-9	0.000943 U	0.00717	0.000943	U	mg/kg	08.09.19 13.59	1
Gamma-Chlordane	5103-74-2	0.00164 U	0.00717	0.00164	U	mg/kg	08.09.19 13.59	1
Heptachlor	76-44-8	0.00121 U	0.00717	0.00121	U	mg/kg	08.09.19 13.59	1
Heptachlor Epoxide	1024-57-3	0.000526 U	0.00717	0.000526	U	mg/kg	08.09.19 13.59	1
Methoxychlor	72-43-5	0.00109 U	0.00717	0.00109	U	mg/kg	08.09.19 13.59	1
Chlordane	12789-03-6	0.0514 U	0.179	0.0514	U	mg/kg	08.09.19 13.59	1
Toxaphene	8001-35-2	0.0243 U	0.179	0.0243	U	mg/kg	08.09.19 13.59	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	39	%	35-135	08.09.19 13.59	
Decachlorobiphenyl	2051-24-3	52	%	25-143	08.09.19 13.59	

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Sample Id: **CS-15 (0-6'')** Matrix: Soil Date Received:07.31.19 12.10

Lab Sample Id: 632582-001 Date Collected: 07.30.19 09.00 Sample Depth: 0 - 0.5 ft

Analytical Method: SPLP Ammonia By EPA 350.1 Prep Method: E350.1P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.07.19 09.00

Seq Number: 3097787 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Ammonia (as N)	7664-41-7	**0.255**	0.100	0.0345		mg/L	08.07.19 15.43	1

Analytical Method: SPLP Nitrate-Nitrite by E353.2 Prep Method: E353.2P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.07.19 16.30

Seq Number: 3097830 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Nitrate-Nitrite	7727-37-9	**0.172**	0.100	0.0283		mg/L	08.07.19 20.16	1

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Sample Id: **CS-15 (6"-24")**
Lab Sample Id: 632582-002

Matrix: Soil
Date Collected: 07.30.19 09.00

Date Received: 07.31.19 12.10
Sample Depth: 0.5 - 2 ft

Analytical Method: Metals, Total by SW846 6010C
Tech: PJB
Analyst: DEP
Seq Number: 3097619

Date Prep: 08.05.19 13.20

Prep Method: SW3050B
% Moisture: 28.5
Basis: Dry Weight
SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Arsenic	7440-38-2	0.494 U	2.33	0.494	U	mg/kg	08.05.19 22.49	1
Chromium	7440-47-3	0.0820 U	1.17	0.0820	U	mg/kg	08.05.19 22.49	1
Copper	7440-50-8	0.516 U	2.33	0.516	U	mg/kg	08.05.19 22.49	1
Iron	7439-89-6	**814**	23.3	3.14		mg/kg	08.05.19 22.49	1
Lead	7439-92-1	0.554 U	2.33	0.554	U	mg/kg	08.05.19 22.49	1
Manganese	7439-96-5	**32.6**	2.33	0.323		mg/kg	08.05.19 22.49	1

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Sample Id: **CS-15 (6"-24")** Matrix: Soil Date Received:07.31.19 12.10

Lab Sample Id: 632582-002 Date Collected: 07.30.19 09.00 Sample Depth: 0.5 - 2 ft

Analytical Method: EPA 8141 Organophosphorus Pesticides by GC Prep Method: SW3550

Tech: BNS % Moisture:

Analyst: CHD Date Prep: 08.07.19 10.10 Basis: Wet Weight

Seq Number: 3097841 SUB: E871146

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
azinphos-methyl	86-50-0	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 17.09	1
Chlorpyrifos	2921-88-2	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 17.09	1
Coumaphos	56-72-4	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 17.09	1
Demeton-O	298-03-3	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 17.09	1
Demeton-S	126-75-0	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 17.09	1
Diazinon	333-41-5	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 17.09	1
Dimethoate	60-51-5	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 17.09	1
EPN (Ent)	2104-64-5	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 17.09	1
Ethoprop	13194-48-4	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 17.09	1
Famphur	52-85-7	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 17.09	1
Fenthion	55-38-9	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 17.09	1
Malathion	121-75-5	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 17.09	1
Merphos	150-50-5	0.00166 U	0.00332	0.00166	UJ	mg/kg	08.07.19 17.09	1
Mevinphos	7786-34-7	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 17.09	1
Monocrotophos	2157-98-4	0.00166 U	0.00332	0.00166	UJ	mg/kg	08.07.19 17.09	1
Naled	300-76-5	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 17.09	1
Parathion, Ethyl	56-38-2	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 17.09	1
Parathion, Methyl	298-00-0	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 17.09	1
Phorate	298-02-2	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 17.09	1
Ronnel	299-84-3	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 17.09	1
stirophos	22248-79-9	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 17.09	1
Sulfotep	3689-24-5	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 17.09	1
Sulprofos	35400-43-2	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 17.09	1
TEPP	21646-99-1	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 17.09	1
Tokuthion	34643-46-4	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 17.09	1
Trichloronate	327-98-0	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 17.09	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tributyl Phosphate	126-73-8	86	%	38-123	08.07.19 17.09	

Certificate of Analytical Results 632582

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-15 (6"-24")**
Lab Sample Id: 632582-002

Matrix: Soil
Date Collected: 07.30.19 09.00

Date Received: 07.31.19 12.10
Sample Depth: 0.5 - 2 ft

Analytical Method: Pesticides by SW-846 8081B
Tech: JSE
Analyst: VIC
Seq Number: 3098123

Date Prep: 08.08.19 11.18

Prep Method: SW3550
% Moisture: 28.5
Basis: Dry Weight
SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
4,4-DDD	72-54-8	0.00108 U	0.00466	0.00108	U	mg/kg	08.09.19 14.13	1
4,4-DDE	72-55-9	0.00233 U	0.00466	0.00233	U	mg/kg	08.09.19 14.13	1
4,4-DDT	50-29-3	0.000355 U	0.00466	0.000355	U	mg/kg	08.09.19 14.13	1
Aldrin	309-00-2	0.000507 U	0.00466	0.000507	U	mg/kg	08.09.19 14.13	1
Alpha-BHC	319-84-6	0.000951 U	0.00466	0.000951	U	mg/kg	08.09.19 14.13	1
Alpha-Chlordane	5103-71-9	0.000798 U	0.00466	0.000798	U	mg/kg	08.09.19 14.13	1
Beta-BHC	319-85-7	0.000662 U	0.00466	0.000662	U	mg/kg	08.09.19 14.13	1
Delta-BHC	319-86-8	0.00233 U	0.00466	0.00233	U	mg/kg	08.09.19 14.13	1
Dieldrin	60-57-1	0.000237 U	0.00466	0.000237	U	mg/kg	08.09.19 14.13	1
Endosulfan I	959-98-8	0.000282 U	0.00466	0.000282	U	mg/kg	08.09.19 14.13	1
Endosulfan II	33213-65-9	0.000521 U	0.00466	0.000521	U	mg/kg	08.09.19 14.13	1
Endosulfan Sulfate	1031-07-8	0.000386 U	0.00466	0.000386	U	mg/kg	08.09.19 14.13	1
Endrin	72-20-8	0.000407 U	0.00466	0.000407	U	mg/kg	08.09.19 14.13	1
Endrin Aldehyde	7421-93-4	0.000346 U	0.00466	0.000346	U	mg/kg	08.09.19 14.13	1
Endrin Ketone	53494-70-5	0.000505 U	0.00466	0.000505	U	mg/kg	08.09.19 14.13	1
Gamma-BHC (Lindane)	58-89-9	0.000614 U	0.00466	0.000614	U	mg/kg	08.09.19 14.13	1
Gamma-Chlordane	5103-74-2	0.00107 U	0.00466	0.00107	U	mg/kg	08.09.19 14.13	1
Heptachlor	76-44-8	0.000786 U	0.00466	0.000786	U	mg/kg	08.09.19 14.13	1
Heptachlor Epoxide	1024-57-3	0.000342 U	0.00466	0.000342	U	mg/kg	08.09.19 14.13	1
Methoxychlor	72-43-5	0.000709 U	0.00466	0.000709	U	mg/kg	08.09.19 14.13	1
Chlordane	12789-03-6	0.0334 U	0.117	0.0334	U	mg/kg	08.09.19 14.13	1
Toxaphene	8001-35-2	0.0158 U	0.117	0.0158	U	mg/kg	08.09.19 14.13	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	47	%	35-135	08.09.19 14.13	
Decachlorobiphenyl	2051-24-3	62	%	25-143	08.09.19 14.13	

Certificate of Analytical Results 632582

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-15 (6"-24")** Matrix: Soil Date Received:07.31.19 12.10

Lab Sample Id: 632582-002 Date Collected: 07.30.19 09.00 Sample Depth: 0.5 - 2 ft

Analytical Method: SPLP Ammonia By EPA 350.1 Prep Method: E350.1P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.07.19 09.00

Seq Number: 3097787 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Ammonia (as N)	7664-41-7	**0.0657**	0.100	0.0345	I	mg/L	08.07.19 15.44	1

Analytical Method: SPLP Nitrate-Nitrite by E353.2 Prep Method: E353.2P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.07.19 16.30

Seq Number: 3097830 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Nitrate-Nitrite	7727-37-9	**0.0881**	0.100	0.0283	I	mg/L	08.07.19 20.21	1

Certificate of Analytical Results 632582

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id:	**CS-16 (0-6")**	Matrix:	Soil	Date Received:	07.31.19 12.10
Lab Sample Id:	632582-003	Date Collected:	07.30.19 09.15	Sample Depth:	0 - 0.5 ft
Analytical Method:	Metals, Total by SW846 6010C			Prep Method:	SW3050B
Tech:	PJB			% Moisture:	30.8
Analyst:	DEP	Date Prep:	08.05.19 13.20	Basis:	Dry Weight
Seq Number:	3097619			SUB:	E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Arsenic	7440-38-2	**14.8**	2.41	0.510		mg/kg	08.05.19 22.53	1
Chromium	7440-47-3	**8.22**	1.20	0.0848		mg/kg	08.05.19 22.53	1
Copper	7440-50-8	**28.9**	2.41	0.534		mg/kg	08.05.19 22.53	1
Iron	7439-89-6	**1310**	24.1	3.25		mg/kg	08.05.19 22.53	1
Lead	7439-92-1	**6.43**	2.41	0.573		mg/kg	08.05.19 22.53	1
Manganese	7439-96-5	**209**	2.41	0.334		mg/kg	08.05.19 22.53	1

Certificate of Analytical Results 632582

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-16 (0-6")** Matrix: Soil Date Received:07.31.19 12.10

Lab Sample Id: 632582-003 Date Collected: 07.30.19 09.15 Sample Depth: 0 - 0.5 ft

Analytical Method: EPA 8141 Organophosphorus Pesticides by GC Prep Method: SW3550

Tech: BNS % Moisture:

Analyst: CHD Date Prep: 08.07.19 10.10 Basis: Wet Weight

Seq Number: 3097841 SUB: E871146

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
azinphos-methyl	86-50-0	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 17.40	1
Chlorpyrifos	2921-88-2	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 17.40	1
Coumaphos	56-72-4	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 17.40	1
Demeton-O	298-03-3	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 17.40	1
Demeton-S	126-75-0	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 17.40	1
Diazinon	333-41-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 17.40	1
Dimethoate	60-51-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 17.40	1
EPN (Ent)	2104-64-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 17.40	1
Ethoprop	13194-48-4	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 17.40	1
Famphur	52-85-7	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 17.40	1
Fenthion	55-38-9	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 17.40	1
Malathion	121-75-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 17.40	1
Merphos	150-50-5	0.00167 U	0.00333	0.00167	UJ	mg/kg	08.07.19 17.40	1
Mevinphos	7786-34-7	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 17.40	1
Monocrotophos	2157-98-4	0.00167 U	0.00333	0.00167	UJ	mg/kg	08.07.19 17.40	1
Naled	300-76-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 17.40	1
Parathion, Ethyl	56-38-2	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 17.40	1
Parathion, Methyl	298-00-0	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 17.40	1
Phorate	298-02-2	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 17.40	1
Ronnel	299-84-3	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 17.40	1
stirophos	22248-79-9	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 17.40	1
Sulfotep	3689-24-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 17.40	1
Sulprofos	35400-43-2	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 17.40	1
TEPP	21646-99-1	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 17.40	1
Tokuthion	34643-46-4	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 17.40	1
Trichloronate	327-98-0	0.00167 U	0.00333	0.00167	U	mg/kg	08.07.19 17.40	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tributyl Phosphate	126-73-8	83	%	38-123	08.07.19 17.40	

Certificate of Analytical Results 632582

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-16 (0-6")**
Lab Sample Id: 632582-003

Matrix: Soil
Date Collected: 07.30.19 09.15

Date Received: 07.31.19 12.10
Sample Depth: 0 - 0.5 ft

Analytical Method: Pesticides by SW-846 8081B
Tech: JSE
Analyst: VIC
Seq Number: 3098123

Date Prep: 08.08.19 11.21

Prep Method: SW3550
% Moisture: 30.8
Basis: Dry Weight
SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
4,4-DDD	72-54-8	0.00223 U	0.00964	0.00223	U	mg/kg	08.09.19 23.08	2
4,4-DDE	72-55-9	0.00482 U	0.00964	0.00482	U	mg/kg	08.09.19 23.08	2
4,4-DDT	50-29-3	0.000734 U	0.00964	0.000734	U	mg/kg	08.09.19 23.08	2
Aldrin	309-00-2	0.00105 U	0.00964	0.00105	U	mg/kg	08.09.19 23.08	2
Alpha-BHC	319-84-6	0.00197 U	0.00964	0.00197	U	mg/kg	08.09.19 23.08	2
Alpha-Chlordane	5103-71-9	0.00165 U	0.00964	0.00165	U	mg/kg	08.09.19 23.08	2
Beta-BHC	319-85-7	0.00137 U	0.00964	0.00137	U	mg/kg	08.09.19 23.08	2
Delta-BHC	319-86-8	0.00482 U	0.00964	0.00482	U	mg/kg	08.09.19 23.08	2
Dieldrin	60-57-1	**0.000540**	0.00964	0.000490	I	mg/kg	08.09.19 23.08	2
Endosulfan I	959-98-8	0.000584 U	0.00964	0.000584	U	mg/kg	08.09.19 23.08	2
Endosulfan II	33213-65-9	0.00108 U	0.00964	0.00108	U	mg/kg	08.09.19 23.08	2
Endosulfan Sulfate	1031-07-8	0.000798 U	0.00964	0.000798	U	mg/kg	08.09.19 23.08	2
Endrin	72-20-8	0.000841 U	0.00964	0.000841	U	mg/kg	08.09.19 23.08	2
Endrin Aldehyde	7421-93-4	0.000716 U	0.00964	0.000716	U	mg/kg	08.09.19 23.08	2
Endrin Ketone	53494-70-5	0.00104 U	0.00964	0.00104	U	mg/kg	08.09.19 23.08	2
Gamma-BHC (Lindane)	58-89-9	0.00127 U	0.00964	0.00127	U	mg/kg	08.09.19 23.08	2
Gamma-Chlordane	5103-74-2	0.00221 U	0.00964	0.00221	U	mg/kg	08.09.19 23.08	2
Heptachlor	76-44-8	0.00163 U	0.00964	0.00163	U	mg/kg	08.09.19 23.08	2
Heptachlor Epoxide	1024-57-3	0.000708 U	0.00964	0.000708	U	mg/kg	08.09.19 23.08	2
Methoxychlor	72-43-5	0.00147 U	0.00964	0.00147	U	mg/kg	08.09.19 23.08	2
Chlordane	12789-03-6	0.0691 U	0.241	0.0691	U	mg/kg	08.09.19 23.08	2
Toxaphene	8001-35-2	0.0328 U	0.241	0.0328	U	mg/kg	08.09.19 23.08	2

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	76	%	35-135	08.09.19 23.08	
Decachlorobiphenyl	2051-24-3	69	%	25-143	08.09.19 23.08	

Certificate of Analytical Results 632582

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-16 (0-6")** Matrix: Soil Date Received:07.31.19 12.10

Lab Sample Id: 632582-003 Date Collected: 07.30.19 09.15 Sample Depth: 0 - 0.5 ft

Analytical Method: SPLP Ammonia By EPA 350.1 Prep Method: E350.1P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.07.19 09.00

Seq Number: 3097787 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Ammonia (as N)	7664-41-7	**0.110**	0.100	0.0345		mg/L	08.07.19 15.44	1

Analytical Method: SPLP Nitrate-Nitrite by E353.2 Prep Method: E353.2P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.07.19 16.30

Seq Number: 3097830 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Nitrate-Nitrite	7727-37-9	**0.135**	0.100	0.0283		mg/L	08.07.19 20.23	1

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Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id:	**CS-16 (6"-24")**	Matrix:	Soil	Date Received:	07.31.19 12.10
Lab Sample Id:	632582-004	Date Collected:	07.30.19 09.15	Sample Depth:	0.5 - 2 ft
Analytical Method:	Metals, Total by SW846 6010C			Prep Method:	SW3050B
Tech:	PJB			% Moisture:	26.18
Analyst:	DEP	Date Prep:	08.05.19 13.20	Basis:	Dry Weight
Seq Number:	3097619			SUB:	E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Arsenic	7440-38-2	**0.845**	2.26	0.478	I	mg/kg	08.05.19 22.57	1
Chromium	7440-47-3	0.0795 U	1.13	0.0795	U	mg/kg	08.05.19 22.57	1
Copper	7440-50-8	0.500 U	2.26	0.500	U	mg/kg	08.05.19 22.57	1
Iron	7439-89-6	**1000**	22.6	3.04		mg/kg	08.05.19 22.57	1
Lead	7439-92-1	0.537 U	2.26	0.537	U	mg/kg	08.05.19 22.57	1
Manganese	7439-96-5	**22.9**	2.26	0.313		mg/kg	08.05.19 22.57	1

Certificate of Analytical Results 632582

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-16 (6"-24")** Matrix: Soil Date Received:07.31.19 12.10

Lab Sample Id: 632582-004 Date Collected: 07.30.19 09.15 Sample Depth: 0.5 - 2 ft

Analytical Method: EPA 8141 Organophosphorus Pesticides by GC Prep Method: SW3550

Tech: BNS % Moisture:

Analyst: CHD Date Prep: 08.07.19 10.10 Basis: Wet Weight

Seq Number: 3097841 SUB: E871146

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
azinphos-methyl	86-50-0	0.00164 U	0.00329	0.00164	U	mg/kg	08.07.19 18.12	1
Chlorpyrifos	2921-88-2	0.00164 U	0.00329	0.00164	U	mg/kg	08.07.19 18.12	1
Coumaphos	56-72-4	0.00164 U	0.00329	0.00164	U	mg/kg	08.07.19 18.12	1
Demeton-O	298-03-3	0.00164 U	0.00329	0.00164	U	mg/kg	08.07.19 18.12	1
Demeton-S	126-75-0	0.00164 U	0.00329	0.00164	U	mg/kg	08.07.19 18.12	1
Diazinon	333-41-5	0.00164 U	0.00329	0.00164	U	mg/kg	08.07.19 18.12	1
Dimethoate	60-51-5	0.00164 U	0.00329	0.00164	U	mg/kg	08.07.19 18.12	1
EPN (Ent)	2104-64-5	0.00164 U	0.00329	0.00164	U	mg/kg	08.07.19 18.12	1
Ethoprop	13194-48-4	0.00164 U	0.00329	0.00164	U	mg/kg	08.07.19 18.12	1
Famphur	52-85-7	0.00164 U	0.00329	0.00164	U	mg/kg	08.07.19 18.12	1
Fenthion	55-38-9	0.00164 U	0.00329	0.00164	U	mg/kg	08.07.19 18.12	1
Malathion	121-75-5	0.00164 U	0.00329	0.00164	U	mg/kg	08.07.19 18.12	1
Merphos	150-50-5	0.00164 U	0.00329	0.00164	UJ	mg/kg	08.07.19 18.12	1
Mevinphos	7786-34-7	0.00164 U	0.00329	0.00164	U	mg/kg	08.07.19 18.12	1
Monocrotophos	2157-98-4	0.00164 U	0.00329	0.00164	UJ	mg/kg	08.07.19 18.12	1
Naled	300-76-5	0.00164 U	0.00329	0.00164	U	mg/kg	08.07.19 18.12	1
Parathion, Ethyl	56-38-2	0.00164 U	0.00329	0.00164	U	mg/kg	08.07.19 18.12	1
Parathion, Methyl	298-00-0	0.00164 U	0.00329	0.00164	U	mg/kg	08.07.19 18.12	1
Phorate	298-02-2	0.00164 U	0.00329	0.00164	U	mg/kg	08.07.19 18.12	1
Ronnel	299-84-3	0.00164 U	0.00329	0.00164	U	mg/kg	08.07.19 18.12	1
stirophos	22248-79-9	0.00164 U	0.00329	0.00164	U	mg/kg	08.07.19 18.12	1
Sulfotep	3689-24-5	0.00164 U	0.00329	0.00164	U	mg/kg	08.07.19 18.12	1
Sulprofos	35400-43-2	0.00164 U	0.00329	0.00164	U	mg/kg	08.07.19 18.12	1
TEPP	21646-99-1	0.00164 U	0.00329	0.00164	U	mg/kg	08.07.19 18.12	1
Tokuthion	34643-46-4	0.00164 U	0.00329	0.00164	U	mg/kg	08.07.19 18.12	1
Trichloronate	327-98-0	0.00164 U	0.00329	0.00164	U	mg/kg	08.07.19 18.12	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tributyl Phosphate	126-73-8	79	%	38-123	08.07.19 18.12	

Certificate of Analytical Results 632582

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-16 (6"-24")**
Lab Sample Id: 632582-004

Matrix: Soil
Date Collected: 07.30.19 09.15

Date Received: 07.31.19 12.10
Sample Depth: 0.5 - 2 ft

Analytical Method: Pesticides by SW-846 8081B
Tech: JSE
Analyst: VIC
Seq Number: 3098123

Date Prep: 08.08.19 11.24

Prep Method: SW3550
% Moisture: 26.18
Basis: Dry Weight
SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
4,4-DDD	72-54-8	0.00105 U	0.00452	0.00105	U	mg/kg	08.09.19 14.26	1
4,4-DDE	72-55-9	0.00226 U	0.00452	0.00226	U	mg/kg	08.09.19 14.26	1
4,4-DDT	50-29-3	0.000344 U	0.00452	0.000344	U	mg/kg	08.09.19 14.26	1
Aldrin	309-00-2	0.000491 U	0.00452	0.000491	U	mg/kg	08.09.19 14.26	1
Alpha-BHC	319-84-6	0.000921 U	0.00452	0.000921	U	mg/kg	08.09.19 14.26	1
Alpha-Chlordane	5103-71-9	0.000773 U	0.00452	0.000773	U	mg/kg	08.09.19 14.26	1
Beta-BHC	319-85-7	0.000642 U	0.00452	0.000642	U	mg/kg	08.09.19 14.26	1
Delta-BHC	319-86-8	0.00226 U	0.00452	0.00226	U	mg/kg	08.09.19 14.26	1
Dieldrin	60-57-1	0.000229 U	0.00452	0.000229	U	mg/kg	08.09.19 14.26	1
Endosulfan I	959-98-8	0.000273 U	0.00452	0.000273	U	mg/kg	08.09.19 14.26	1
Endosulfan II	33213-65-9	0.000504 U	0.00452	0.000504	U	mg/kg	08.09.19 14.26	1
Endosulfan Sulfate	1031-07-8	0.000374 U	0.00452	0.000374	U	mg/kg	08.09.19 14.26	1
Endrin	72-20-8	0.000394 U	0.00452	0.000394	U	mg/kg	08.09.19 14.26	1
Endrin Aldehyde	7421-93-4	0.000335 U	0.00452	0.000335	U	mg/kg	08.09.19 14.26	1
Endrin Ketone	53494-70-5	0.000489 U	0.00452	0.000489	U	mg/kg	08.09.19 14.26	1
Gamma-BHC (Lindane)	58-89-9	0.000594 U	0.00452	0.000594	U	mg/kg	08.09.19 14.26	1
Gamma-Chlordane	5103-74-2	0.00103 U	0.00452	0.00103	U	mg/kg	08.09.19 14.26	1
Heptachlor	76-44-8	0.000761 U	0.00452	0.000761	U	mg/kg	08.09.19 14.26	1
Heptachlor Epoxide	1024-57-3	0.000332 U	0.00452	0.000332	U	mg/kg	08.09.19 14.26	1
Methoxychlor	72-43-5	0.000686 U	0.00452	0.000686	U	mg/kg	08.09.19 14.26	1
Chlordane	12789-03-6	0.0324 U	0.113	0.0324	U	mg/kg	08.09.19 14.26	1
Toxaphene	8001-35-2	0.0153 U	0.113	0.0153	U	mg/kg	08.09.19 14.26	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	52	%	35-135	08.09.19 14.26	
Decachlorobiphenyl	2051-24-3	62	%	25-143	08.09.19 14.26	

Certificate of Analytical Results 632582

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-16 (6"-24")** Matrix: Soil Date Received:07.31.19 12.10

Lab Sample Id: 632582-004 Date Collected: 07.30.19 09.15 Sample Depth: 0.5 - 2 ft

Analytical Method: SPLP Ammonia By EPA 350.1 Prep Method: E350.1P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.07.19 13.00

Seq Number: 3097801 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Ammonia (as N)	7664-41-7	**0.0432**	0.100	0.0345	I	mg/L	08.07.19 16.20	1

Analytical Method: SPLP Nitrate-Nitrite by E353.2 Prep Method: E353.2P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.07.19 16.30

Seq Number: 3097830 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Nitrate-Nitrite	7727-37-9	**0.0865**	0.100	0.0283	I	mg/L	08.07.19 20.25	1

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Proposed Publix

Sample Id:	**CS-17 (0-6")**	Matrix:	Soil	Date Received:	07.31.19 12.10
Lab Sample Id:	632582-005	Date Collected:	07.30.19 09.22	Sample Depth:	0 - 0.5 ft
Analytical Method:	Metals, Total by SW846 6010C			Prep Method:	SW3050B
Tech:	PJB			% Moisture:	30.45
Analyst:	DEP	Date Prep:	08.05.19 13.20	Basis:	Dry Weight
Seq Number:	3097619			SUB:	E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Arsenic	7440-38-2	**13.1**	2.82	0.597		mg/kg	08.05.19 23.01	1
Chromium	7440-47-3	**8.71**	1.41	0.0992		mg/kg	08.05.19 23.01	1
Copper	7440-50-8	**27.5**	2.82	0.625		mg/kg	08.05.19 23.01	1
Iron	7439-89-6	**1170**	28.2	3.80		mg/kg	08.05.19 23.01	1
Lead	7439-92-1	**7.59**	2.82	0.670		mg/kg	08.05.19 23.01	1
Manganese	7439-96-5	**178**	2.82	0.391		mg/kg	08.05.19 23.01	1

Certificate of Analytical Results 632582

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-17 (0-6'')** Matrix: Soil Date Received:07.31.19 12.10

Lab Sample Id: 632582-005 Date Collected: 07.30.19 09.22 Sample Depth: 0 - 0.5 ft

Analytical Method: EPA 8141 Organophosphorus Pesticides by GC Prep Method: SW3550

Tech: BNS % Moisture:

Analyst: CHD Date Prep: 08.07.19 10.10 Basis: Wet Weight

Seq Number: 3097841 SUB: E871146

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
azinphos-methyl	86-50-0	0.00163 U	0.00327	0.00163	U	mg/kg	08.07.19 18.43	1
Chlorpyrifos	2921-88-2	0.00163 U	0.00327	0.00163	U	mg/kg	08.07.19 18.43	1
Coumaphos	56-72-4	0.00163 U	0.00327	0.00163	U	mg/kg	08.07.19 18.43	1
Demeton-O	298-03-3	0.00163 U	0.00327	0.00163	U	mg/kg	08.07.19 18.43	1
Demeton-S	126-75-0	0.00163 U	0.00327	0.00163	U	mg/kg	08.07.19 18.43	1
Diazinon	333-41-5	0.00163 U	0.00327	0.00163	U	mg/kg	08.07.19 18.43	1
Dimethoate	60-51-5	0.00163 U	0.00327	0.00163	U	mg/kg	08.07.19 18.43	1
EPN (Ent)	2104-64-5	0.00163 U	0.00327	0.00163	U	mg/kg	08.07.19 18.43	1
Ethoprop	13194-48-4	0.00163 U	0.00327	0.00163	U	mg/kg	08.07.19 18.43	1
Famphur	52-85-7	0.00163 U	0.00327	0.00163	U	mg/kg	08.07.19 18.43	1
Fenthion	55-38-9	0.00163 U	0.00327	0.00163	U	mg/kg	08.07.19 18.43	1
Malathion	121-75-5	0.00163 U	0.00327	0.00163	U	mg/kg	08.07.19 18.43	1
Merphos	150-50-5	0.00163 U	0.00327	0.00163	UJ	mg/kg	08.07.19 18.43	1
Mevinphos	7786-34-7	0.00163 U	0.00327	0.00163	U	mg/kg	08.07.19 18.43	1
Monocrotophos	2157-98-4	0.00163 U	0.00327	0.00163	UJ	mg/kg	08.07.19 18.43	1
Naled	300-76-5	0.00163 U	0.00327	0.00163	U	mg/kg	08.07.19 18.43	1
Parathion, Ethyl	56-38-2	0.00163 U	0.00327	0.00163	U	mg/kg	08.07.19 18.43	1
Parathion, Methyl	298-00-0	0.00163 U	0.00327	0.00163	U	mg/kg	08.07.19 18.43	1
Phorate	298-02-2	0.00163 U	0.00327	0.00163	U	mg/kg	08.07.19 18.43	1
Ronnel	299-84-3	0.00163 U	0.00327	0.00163	U	mg/kg	08.07.19 18.43	1
stirophos	22248-79-9	0.00163 U	0.00327	0.00163	U	mg/kg	08.07.19 18.43	1
Sulfotep	3689-24-5	0.00163 U	0.00327	0.00163	U	mg/kg	08.07.19 18.43	1
Sulprofos	35400-43-2	0.00163 U	0.00327	0.00163	U	mg/kg	08.07.19 18.43	1
TEPP	21646-99-1	0.00163 U	0.00327	0.00163	U	mg/kg	08.07.19 18.43	1
Tokuthion	34643-46-4	0.00163 U	0.00327	0.00163	U	mg/kg	08.07.19 18.43	1
Trichloronate	327-98-0	0.00163 U	0.00327	0.00163	U	mg/kg	08.07.19 18.43	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tributyl Phosphate	126-73-8	90	%	38-123	08.07.19 18.43	

Certificate of Analytical Results 632582

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-17 (0-6")**
Lab Sample Id: 632582-005

Matrix: Soil
Date Collected: 07.30.19 09.22

Date Received: 07.31.19 12.10
Sample Depth: 0 - 0.5 ft

Analytical Method: Pesticides by SW-846 8081B
Tech: JSE
Analyst: VIC
Seq Number: 3098123

Date Prep: 08.08.19 11.27

Prep Method: SW3550
% Moisture: 30.45
Basis: Dry Weight
SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
4,4-DDD	72-54-8	0.00111 U	0.00479	0.00111	U	mg/kg	08.09.19 14.42	1
4,4-DDE	72-55-9	0.00240 U	0.00479	0.00240	U	mg/kg	08.09.19 14.42	1
4,4-DDT	50-29-3	**0.000728**	0.00479	0.000365	I	mg/kg	08.09.19 14.42	1
Aldrin	309-00-2	0.000521 U	0.00479	0.000521	U	mg/kg	08.09.19 14.42	1
Alpha-BHC	319-84-6	0.000977 U	0.00479	0.000977	U	mg/kg	08.09.19 14.42	1
Alpha-Chlordane	5103-71-9	0.000820 U	0.00479	0.000820	U	mg/kg	08.09.19 14.42	1
Beta-BHC	319-85-7	0.000681 U	0.00479	0.000681	U	mg/kg	08.09.19 14.42	1
Delta-BHC	319-86-8	0.00240 U	0.00479	0.00240	U	mg/kg	08.09.19 14.42	1
Dieldrin	60-57-1	0.000243 U	0.00479	0.000243	U	mg/kg	08.09.19 14.42	1
Endosulfan I	959-98-8	0.000290 U	0.00479	0.000290	U	mg/kg	08.09.19 14.42	1
Endosulfan II	33213-65-9	0.000535 U	0.00479	0.000535	U	mg/kg	08.09.19 14.42	1
Endosulfan Sulfate	1031-07-8	0.000396 U	0.00479	0.000396	U	mg/kg	08.09.19 14.42	1
Endrin	72-20-8	0.000418 U	0.00479	0.000418	U	mg/kg	08.09.19 14.42	1
Endrin Aldehyde	7421-93-4	0.000356 U	0.00479	0.000356	U	mg/kg	08.09.19 14.42	1
Endrin Ketone	53494-70-5	0.000519 U	0.00479	0.000519	U	mg/kg	08.09.19 14.42	1
Gamma-BHC (Lindane)	58-89-9	0.000631 U	0.00479	0.000631	U	mg/kg	08.09.19 14.42	1
Gamma-Chlordane	5103-74-2	0.00110 U	0.00479	0.00110	U	mg/kg	08.09.19 14.42	1
Heptachlor	76-44-8	0.000808 U	0.00479	0.000808	U	mg/kg	08.09.19 14.42	1
Heptachlor Epoxide	1024-57-3	0.000352 U	0.00479	0.000352	U	mg/kg	08.09.19 14.42	1
Methoxychlor	72-43-5	0.000728 U	0.00479	0.000728	U	mg/kg	08.09.19 14.42	1
Chlordane	12789-03-6	0.0344 U	0.120	0.0344	U	mg/kg	08.09.19 14.42	1
Toxaphene	8001-35-2	0.0163 U	0.120	0.0163	U	mg/kg	08.09.19 14.42	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	54	%	35-135	08.09.19 14.42	
Decachlorobiphenyl	2051-24-3	65	%	25-143	08.09.19 14.42	

Certificate of Analytical Results 632582

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-17 (0-6")** Matrix: Soil Date Received:07.31.19 12.10
Lab Sample Id: 632582-005 Date Collected: 07.30.19 09.22 Sample Depth: 0 - 0.5 ft

Analytical Method: SPLP Ammonia By EPA 350.1 Prep Method: E350.1P
Tech: KCS % Moisture:
Analyst: KCS Date Prep: 08.07.19 13.00
Seq Number: 3097801 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Ammonia (as N)	7664-41-7	0.0345 U	0.100	0.0345	U	mg/L	08.07.19 16.22	1

Analytical Method: SPLP Nitrate-Nitrite by E353.2 Prep Method: E353.2P
Tech: KCS % Moisture:
Analyst: KCS Date Prep: 08.07.19 16.30
Seq Number: 3097830 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Nitrate-Nitrite	7727-37-9	**0.178**	0.100	0.0283		mg/L	08.07.19 20.26	1

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Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id:	**CS-17 (6"-24")**	Matrix:	Soil	Date Received:	07.31.19 12.10
Lab Sample Id:	632582-006	Date Collected:	07.30.19 09.22	Sample Depth:	0.5 - 2 ft
Analytical Method:	Metals, Total by SW846 6010C			Prep Method:	SW3050B
Tech:	PJB			% Moisture:	21.86
Analyst:	DEP	Date Prep:	08.05.19 13.20	Basis:	Dry Weight
Seq Number:	3097619			SUB:	E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Arsenic	7440-38-2	**2.45**	2.29	0.484		mg/kg	08.05.19 23.05	1
Chromium	7440-47-3	**0.995**	1.14	0.0804	I	mg/kg	08.05.19 23.05	1
Copper	7440-50-8	0.506 U	2.29	0.506	U	mg/kg	08.05.19 23.05	1
Iron	7439-89-6	**417**	22.9	3.08		mg/kg	08.05.19 23.05	1
Lead	7439-92-1	0.543 U	2.29	0.543	U	mg/kg	08.05.19 23.05	1
Manganese	7439-96-5	**11.7**	2.29	0.317		mg/kg	08.05.19 23.05	1

Certificate of Analytical Results 632582

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-17 (6"-24")** Matrix: Soil Date Received:07.31.19 12.10

Lab Sample Id: 632582-006 Date Collected: 07.30.19 09.22 Sample Depth: 0.5 - 2 ft

Analytical Method: EPA 8141 Organophosphorus Pesticides by GC Prep Method: SW3550

Tech: BNS % Moisture:

Analyst: CHD Date Prep: 08.07.19 10.10 Basis: Wet Weight

Seq Number: 3097841 SUB: E871146

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
azinphos-methyl	86-50-0	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 19.15	1
Chlorpyrifos	2921-88-2	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 19.15	1
Coumaphos	56-72-4	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 19.15	1
Demeton-O	298-03-3	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 19.15	1
Demeton-S	126-75-0	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 19.15	1
Diazinon	333-41-5	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 19.15	1
Dimethoate	60-51-5	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 19.15	1
EPN (Ent)	2104-64-5	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 19.15	1
Ethoprop	13194-48-4	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 19.15	1
Famphur	52-85-7	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 19.15	1
Fenthion	55-38-9	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 19.15	1
Malathion	121-75-5	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 19.15	1
Merphos	150-50-5	0.00166 U	0.00332	0.00166	UJ	mg/kg	08.07.19 19.15	1
Mevinphos	7786-34-7	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 19.15	1
Monocrotophos	2157-98-4	0.00166 U	0.00332	0.00166	UJ	mg/kg	08.07.19 19.15	1
Naled	300-76-5	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 19.15	1
Parathion, Ethyl	56-38-2	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 19.15	1
Parathion, Methyl	298-00-0	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 19.15	1
Phorate	298-02-2	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 19.15	1
Ronnel	299-84-3	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 19.15	1
stirophos	22248-79-9	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 19.15	1
Sulfotep	3689-24-5	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 19.15	1
Sulprofos	35400-43-2	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 19.15	1
TEPP	21646-99-1	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 19.15	1
Tokuthion	34643-46-4	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 19.15	1
Trichloronate	327-98-0	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 19.15	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tributyl Phosphate	126-73-8	84	%	38-123	08.07.19 19.15	

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Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-17 (6"-24")**
Lab Sample Id: 632582-006

Matrix: Soil
Date Collected: 07.30.19 09.22

Date Received: 07.31.19 12.10
Sample Depth: 0.5 - 2 ft

Analytical Method: Pesticides by SW-846 8081B
Tech: JSE
Analyst: VIC
Seq Number: 3098123

Date Prep: 08.08.19 11.30

Prep Method: SW3550
% Moisture: 21.86
Basis: Dry Weight
SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
4,4-DDD	72-54-8	0.000988 U	0.00427	0.000988	U	mg/kg	08.09.19 14.56	1
4,4-DDE	72-55-9	0.00213 U	0.00427	0.00213	U	mg/kg	08.09.19 14.56	1
4,4-DDT	50-29-3	0.000325 U	0.00427	0.000325	U	mg/kg	08.09.19 14.56	1
Aldrin	309-00-2	0.000464 U	0.00427	0.000464	U	mg/kg	08.09.19 14.56	1
Alpha-BHC	319-84-6	0.000871 U	0.00427	0.000871	U	mg/kg	08.09.19 14.56	1
Alpha-Chlordane	5103-71-9	0.000730 U	0.00427	0.000730	U	mg/kg	08.09.19 14.56	1
Beta-BHC	319-85-7	0.000606 U	0.00427	0.000606	U	mg/kg	08.09.19 14.56	1
Delta-BHC	319-86-8	0.00213 U	0.00427	0.00213	U	mg/kg	08.09.19 14.56	1
Dieldrin	60-57-1	0.000217 U	0.00427	0.000217	U	mg/kg	08.09.19 14.56	1
Endosulfan I	959-98-8	0.000258 U	0.00427	0.000258	U	mg/kg	08.09.19 14.56	1
Endosulfan II	33213-65-9	0.000477 U	0.00427	0.000477	U	mg/kg	08.09.19 14.56	1
Endosulfan Sulfate	1031-07-8	0.000353 U	0.00427	0.000353	U	mg/kg	08.09.19 14.56	1
Endrin	72-20-8	0.000372 U	0.00427	0.000372	U	mg/kg	08.09.19 14.56	1
Endrin Aldehyde	7421-93-4	0.000317 U	0.00427	0.000317	U	mg/kg	08.09.19 14.56	1
Endrin Ketone	53494-70-5	0.000462 U	0.00427	0.000462	U	mg/kg	08.09.19 14.56	1
Gamma-BHC (Lindane)	58-89-9	0.000562 U	0.00427	0.000562	U	mg/kg	08.09.19 14.56	1
Gamma-Chlordane	5103-74-2	0.000977 U	0.00427	0.000977	U	mg/kg	08.09.19 14.56	1
Heptachlor	76-44-8	0.000720 U	0.00427	0.000720	U	mg/kg	08.09.19 14.56	1
Heptachlor Epoxide	1024-57-3	0.000313 U	0.00427	0.000313	U	mg/kg	08.09.19 14.56	1
Methoxychlor	72-43-5	0.000649 U	0.00427	0.000649	U	mg/kg	08.09.19 14.56	1
Chlordane	12789-03-6	0.0306 U	0.107	0.0306	U	mg/kg	08.09.19 14.56	1
Toxaphene	8001-35-2	0.0145 U	0.107	0.0145	U	mg/kg	08.09.19 14.56	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	55	%	35-135	08.09.19 14.56	
Decachlorobiphenyl	2051-24-3	60	%	25-143	08.09.19 14.56	

Certificate of Analytical Results 632582

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-17 (6"-24")** Matrix: Soil Date Received:07.31.19 12.10

Lab Sample Id: 632582-006 Date Collected: 07.30.19 09.22 Sample Depth: 0.5 - 2 ft

Analytical Method: SPLP Ammonia By EPA 350.1 Prep Method: E350.1P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.07.19 13.00

Seq Number: 3097801 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Ammonia (as N)	7664-41-7	0.0345 U	0.100	0.0345	U	mg/L	08.07.19 16.23	1

Analytical Method: SPLP Nitrate-Nitrite by E353.2 Prep Method: E353.2P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.07.19 16.30

Seq Number: 3097830 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Nitrate-Nitrite	7727-37-9	**0.0705**	0.100	0.0283	I	mg/L	08.07.19 20.31	1

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Proposed Publix

Sample Id:	**CS-18 (0-6")**	Matrix:	Soil	Date Received:	07.31.19 12.10
Lab Sample Id:	632582-007	Date Collected:	07.30.19 09.45	Sample Depth:	0 - 0.5 ft
Analytical Method:	Metals, Total by SW846 6010C			Prep Method:	SW3050B
Tech:	PJB			% Moisture:	22
Analyst:	DEP	Date Prep:	08.05.19 13.20	Basis:	Dry Weight
Seq Number:	3097619			SUB:	E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Arsenic	7440-38-2	**11.0**	2.14	0.453		mg/kg	08.05.19 23.09	1
Chromium	7440-47-3	**7.94**	1.07	0.0752		mg/kg	08.05.19 23.09	1
Copper	7440-50-8	**35.4**	2.14	0.473		mg/kg	08.05.19 23.09	1
Iron	7439-89-6	**2000**	21.4	2.88		mg/kg	08.05.19 23.09	1
Lead	7439-92-1	**7.12**	2.14	0.508		mg/kg	08.05.19 23.09	1
Manganese	7439-96-5	**122**	2.14	0.296		mg/kg	08.05.19 23.09	1

Certificate of Analytical Results 632582

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-18 (0-6")** Matrix: Soil Date Received:07.31.19 12.10

Lab Sample Id: 632582-007 Date Collected: 07.30.19 09.45 Sample Depth: 0 - 0.5 ft

Analytical Method: EPA 8141 Organophosphorus Pesticides by GC Prep Method: SW3550

Tech: BNS % Moisture:

Analyst: CHD Date Prep: 08.07.19 10.10 Basis: Wet Weight

Seq Number: 3097841 SUB: E871146

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
azinphos-methyl	86-50-0	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 19.46	1
Chlorpyrifos	2921-88-2	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 19.46	1
Coumaphos	56-72-4	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 19.46	1
Demeton-O	298-03-3	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 19.46	1
Demeton-S	126-75-0	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 19.46	1
Diazinon	333-41-5	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 19.46	1
Dimethoate	60-51-5	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 19.46	1
EPN (Ent)	2104-64-5	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 19.46	1
Ethoprop	13194-48-4	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 19.46	1
Famphur	52-85-7	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 19.46	1
Fenthion	55-38-9	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 19.46	1
Malathion	121-75-5	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 19.46	1
Merphos	150-50-5	0.00166 U	0.00332	0.00166	UJ	mg/kg	08.07.19 19.46	1
Mevinphos	7786-34-7	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 19.46	1
Monocrotophos	2157-98-4	0.00166 U	0.00332	0.00166	UJ	mg/kg	08.07.19 19.46	1
Naled	300-76-5	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 19.46	1
Parathion, Ethyl	56-38-2	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 19.46	1
Parathion, Methyl	298-00-0	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 19.46	1
Phorate	298-02-2	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 19.46	1
Ronnel	299-84-3	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 19.46	1
stirophos	22248-79-9	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 19.46	1
Sulfotep	3689-24-5	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 19.46	1
Sulprofos	35400-43-2	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 19.46	1
TEPP	21646-99-1	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 19.46	1
Tokuthion	34643-46-4	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 19.46	1
Trichloronate	327-98-0	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 19.46	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tributyl Phosphate	126-73-8	84	%	38-123	08.07.19 19.46	

Certificate of Analytical Results 632582

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-18 (0-6")**
Lab Sample Id: 632582-007

Matrix: Soil
Date Collected: 07.30.19 09.45

Date Received: 07.31.19 12.10
Sample Depth: 0 - 0.5 ft

Analytical Method: Pesticides by SW-846 8081B
Tech: JSE
Analyst: VIC
Seq Number: 3098123

Date Prep: 08.08.19 11.33

Prep Method: SW3550
% Moisture: 22
Basis: Dry Weight
SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
4,4-DDD	72-54-8	0.000989 U	0.00427	0.000989	U	mg/kg	08.09.19 15.10	1
4,4-DDE	72-55-9	**0.00874**	0.00427	0.00214		mg/kg	08.09.19 15.10	1
4,4-DDT	50-29-3	**0.00174**	0.00427	0.000325	I	mg/kg	08.09.19 15.10	1
Aldrin	309-00-2	0.000465 U	0.00427	0.000465	U	mg/kg	08.09.19 15.10	1
Alpha-BHC	319-84-6	0.000872 U	0.00427	0.000872	U	mg/kg	08.09.19 15.10	1
Alpha-Chlordane	5103-71-9	**0.00128**	0.00427	0.000732	I	mg/kg	08.09.19 15.10	1
Beta-BHC	319-85-7	0.000607 U	0.00427	0.000607	U	mg/kg	08.09.19 15.10	1
Delta-BHC	319-86-8	0.00214 U	0.00427	0.00214	U	mg/kg	08.09.19 15.10	1
Dieldrin	60-57-1	**0.00212**	0.00427	0.000217	I	mg/kg	08.09.19 15.10	1
Endosulfan I	959-98-8	0.000259 U	0.00427	0.000259	U	mg/kg	08.09.19 15.10	1
Endosulfan II	33213-65-9	0.000477 U	0.00427	0.000477	U	mg/kg	08.09.19 15.10	1
Endosulfan Sulfate	1031-07-8	0.000354 U	0.00427	0.000354	U	mg/kg	08.09.19 15.10	1
Endrin	72-20-8	0.000373 U	0.00427	0.000373	U	mg/kg	08.09.19 15.10	1
Endrin Aldehyde	7421-93-4	0.000317 U	0.00427	0.000317	U	mg/kg	08.09.19 15.10	1
Endrin Ketone	53494-70-5	0.000463 U	0.00427	0.000463	U	mg/kg	08.09.19 15.10	1
Gamma-BHC (Lindane)	58-89-9	0.000562 U	0.00427	0.000562	U	mg/kg	08.09.19 15.10	1
Gamma-Chlordane	5103-74-2	0.000979 U	0.00427	0.000979	U	mg/kg	08.09.19 15.10	1
Heptachlor	76-44-8	0.000721 U	0.00427	0.000721	U	mg/kg	08.09.19 15.10	1
Heptachlor Epoxide	1024-57-3	0.000314 U	0.00427	0.000314	U	mg/kg	08.09.19 15.10	1
Methoxychlor	72-43-5	0.000650 U	0.00427	0.000650	U	mg/kg	08.09.19 15.10	1
Chlordane	12789-03-6	0.0306 U	0.107	0.0306	U	mg/kg	08.09.19 15.10	1
Toxaphene	8001-35-2	0.0145 U	0.107	0.0145	U	mg/kg	08.09.19 15.10	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	46	%	35-135	08.09.19 15.10	
Decachlorobiphenyl	2051-24-3	58	%	25-143	08.09.19 15.10	

Certificate of Analytical Results 632582

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-18 (0-6'')** Matrix: Soil Date Received:07.31.19 12.10

Lab Sample Id: 632582-007 Date Collected: 07.30.19 09.45 Sample Depth: 0 - 0.5 ft

Analytical Method: SPLP Ammonia By EPA 350.1 Prep Method: E350.1P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.07.19 13.00

Seq Number: 3097801 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Ammonia (as N)	7664-41-7	**0.469**	0.100	0.0345		mg/L	08.07.19 16.24	1

Analytical Method: SPLP Nitrate-Nitrite by E353.2 Prep Method: E353.2P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.07.19 16.30

Seq Number: 3097830 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Nitrate-Nitrite	7727-37-9	**0.235**	0.100	0.0283		mg/L	08.07.19 20.33	1

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Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id:	**CS-18 (6"-24")**	Matrix:	Soil	Date Received:	07.31.19 12.10
Lab Sample Id:	632582-008	Date Collected:	07.30.19 09.45	Sample Depth:	0.5 - 2 ft
Analytical Method:	Metals, Total by SW846 6010C			Prep Method:	SW3050B
Tech:	PJB			% Moisture:	17.2
Analyst:	DEP	Date Prep:	08.05.19 13.20	Basis:	Dry Weight
Seq Number:	3097619			SUB:	E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Arsenic	7440-38-2	**1.35**	2.01	0.426	I	mg/kg	08.05.19 23.14	1
Chromium	7440-47-3	**8.78**	1.01	0.0708		mg/kg	08.05.19 23.14	1
Copper	7440-50-8	0.446 U	2.01	0.446	U	mg/kg	08.05.19 23.14	1
Iron	7439-89-6	**2380**	20.1	2.71		mg/kg	08.05.19 23.14	1
Lead	7439-92-1	0.479 U	2.01	0.479	U	mg/kg	08.05.19 23.14	1
Manganese	7439-96-5	**9.60**	2.01	0.279		mg/kg	08.05.19 23.14	1

Certificate of Analytical Results 632582

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-18 (6"-24")** Matrix: Soil Date Received:07.31.19 12.10

Lab Sample Id: 632582-008 Date Collected: 07.30.19 09.45 Sample Depth: 0.5 - 2 ft

Analytical Method: EPA 8141 Organophosphorus Pesticides by GC Prep Method: SW3550

Tech: BNS % Moisture:

Analyst: CHD Date Prep: 08.07.19 10.10 Basis: Wet Weight

Seq Number: 3097841 SUB: E871146

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
azinphos-methyl	86-50-0	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 20.18	1
Chlorpyrifos	2921-88-2	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 20.18	1
Coumaphos	56-72-4	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 20.18	1
Demeton-O	298-03-3	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 20.18	1
Demeton-S	126-75-0	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 20.18	1
Diazinon	333-41-5	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 20.18	1
Dimethoate	60-51-5	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 20.18	1
EPN (Ent)	2104-64-5	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 20.18	1
Ethoprop	13194-48-4	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 20.18	1
Famphur	52-85-7	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 20.18	1
Fenthion	55-38-9	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 20.18	1
Malathion	121-75-5	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 20.18	1
Merphos	150-50-5	0.00166 U	0.00332	0.00166	UJ	mg/kg	08.07.19 20.18	1
Mevinphos	7786-34-7	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 20.18	1
Monocrotophos	2157-98-4	0.00166 U	0.00332	0.00166	UJ	mg/kg	08.07.19 20.18	1
Naled	300-76-5	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 20.18	1
Parathion, Ethyl	56-38-2	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 20.18	1
Parathion, Methyl	298-00-0	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 20.18	1
Phorate	298-02-2	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 20.18	1
Ronnel	299-84-3	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 20.18	1
stirophos	22248-79-9	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 20.18	1
Sulfotep	3689-24-5	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 20.18	1
Sulprofos	35400-43-2	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 20.18	1
TEPP	21646-99-1	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 20.18	1
Tokuthion	34643-46-4	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 20.18	1
Trichloronate	327-98-0	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 20.18	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tributyl Phosphate	126-73-8	90	%	38-123	08.07.19 20.18	

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Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-18 (6"-24")**
Lab Sample Id: 632582-008

Matrix: Soil
Date Collected: 07.30.19 09.45

Date Received: 07.31.19 12.10
Sample Depth: 0.5 - 2 ft

Analytical Method: Pesticides by SW-846 8081B
Tech: JSE
Analyst: VIC
Seq Number: 3098123

Date Prep: 08.08.19 11.36

Prep Method: SW3550
% Moisture: 17.2
Basis: Dry Weight
SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
4,4-DDD	72-54-8	0.000931 U	0.00402	0.000931	U	mg/kg	08.09.19 15.23	1
4,4-DDE	72-55-9	0.00201 U	0.00402	0.00201	U	mg/kg	08.09.19 15.23	1
4,4-DDT	50-29-3	0.000306 U	0.00402	0.000306	U	mg/kg	08.09.19 15.23	1
Aldrin	309-00-2	0.000438 U	0.00402	0.000438	U	mg/kg	08.09.19 15.23	1
Alpha-BHC	319-84-6	0.000821 U	0.00402	0.000821	U	mg/kg	08.09.19 15.23	1
Alpha-Chlordane	5103-71-9	0.000689 U	0.00402	0.000689	U	mg/kg	08.09.19 15.23	1
Beta-BHC	319-85-7	0.000572 U	0.00402	0.000572	U	mg/kg	08.09.19 15.23	1
Delta-BHC	319-86-8	0.00201 U	0.00402	0.00201	U	mg/kg	08.09.19 15.23	1
Dieldrin	60-57-1	0.000205 U	0.00402	0.000205	U	mg/kg	08.09.19 15.23	1
Endosulfan I	959-98-8	0.000244 U	0.00402	0.000244	U	mg/kg	08.09.19 15.23	1
Endosulfan II	33213-65-9	0.000449 U	0.00402	0.000449	U	mg/kg	08.09.19 15.23	1
Endosulfan Sulfate	1031-07-8	0.000333 U	0.00402	0.000333	U	mg/kg	08.09.19 15.23	1
Endrin	72-20-8	0.000351 U	0.00402	0.000351	U	mg/kg	08.09.19 15.23	1
Endrin Aldehyde	7421-93-4	0.000299 U	0.00402	0.000299	U	mg/kg	08.09.19 15.23	1
Endrin Ketone	53494-70-5	0.000436 U	0.00402	0.000436	U	mg/kg	08.09.19 15.23	1
Gamma-BHC (Lindane)	58-89-9	0.000530 U	0.00402	0.000530	U	mg/kg	08.09.19 15.23	1
Gamma-Chlordane	5103-74-2	0.000922 U	0.00402	0.000922	U	mg/kg	08.09.19 15.23	1
Heptachlor	76-44-8	0.000679 U	0.00402	0.000679	U	mg/kg	08.09.19 15.23	1
Heptachlor Epoxide	1024-57-3	0.000296 U	0.00402	0.000296	U	mg/kg	08.09.19 15.23	1
Methoxychlor	72-43-5	0.000612 U	0.00402	0.000612	U	mg/kg	08.09.19 15.23	1
Chlordane	12789-03-6	0.0289 U	0.101	0.0289	U	mg/kg	08.09.19 15.23	1
Toxaphene	8001-35-2	0.0137 U	0.101	0.0137	U	mg/kg	08.09.19 15.23	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	59	%	35-135	08.09.19 15.23	
Decachlorobiphenyl	2051-24-3	61	%	25-143	08.09.19 15.23	

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Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-18 (6''-24'')** Matrix: Soil Date Received:07.31.19 12.10

Lab Sample Id: 632582-008 Date Collected: 07.30.19 09.45 Sample Depth: 0.5 - 2 ft

Analytical Method: SPLP Ammonia By EPA 350.1 Prep Method: E350.1P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.07.19 13.00

Seq Number: 3097801 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Ammonia (as N)	7664-41-7	0.0345 U	0.100	0.0345	U	mg/L	08.07.19 16.25	1

Analytical Method: SPLP Nitrate-Nitrite by E353.2 Prep Method: E353.2P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.07.19 16.30

Seq Number: 3097830 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Nitrate-Nitrite	7727-37-9	**0.0909**	0.100	0.0283	I	mg/L	08.07.19 20.35	1

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Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id:	**CS-19 (0-6")**	Matrix:	Soil	Date Received:	07.31.19 12.10
Lab Sample Id:	632582-009	Date Collected:	07.30.19 10.15	Sample Depth:	0 - 0.5 ft
Analytical Method:	Metals, Total by SW846 6010C			Prep Method:	SW3050B
Tech:	PJB			% Moisture:	24.45
Analyst:	DEP	Date Prep:	08.05.19 13.20	Basis:	Dry Weight
Seq Number:	3097619			SUB:	E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Arsenic	7440-38-2	**7.03**	2.65	0.561		mg/kg	08.05.19 23.18	1
Chromium	7440-47-3	**6.36**	1.32	0.0932		mg/kg	08.05.19 23.18	1
Copper	7440-50-8	**25.0**	2.65	0.586		mg/kg	08.05.19 23.18	1
Iron	7439-89-6	**1400**	26.5	3.57		mg/kg	08.05.19 23.18	1
Lead	7439-92-1	**18.4**	2.65	0.630		mg/kg	08.05.19 23.18	1
Manganese	7439-96-5	**102**	2.65	0.367		mg/kg	08.05.19 23.18	1

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Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-19 (0-6")** Matrix: Soil Date Received:07.31.19 12.10

Lab Sample Id: 632582-009 Date Collected: 07.30.19 10.15 Sample Depth: 0 - 0.5 ft

Analytical Method: EPA 8141 Organophosphorus Pesticides by GC Prep Method: SW3550

Tech: BNS % Moisture:

Analyst: CHD Date Prep: 08.07.19 10.10 Basis: Wet Weight

Seq Number: 3097841 SUB: E871146

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
azinphos-methyl	86-50-0	0.00166 U	0.00331	0.00166	U	mg/kg	08.07.19 20.49	1
Chlorpyrifos	2921-88-2	0.00166 U	0.00331	0.00166	U	mg/kg	08.07.19 20.49	1
Coumaphos	56-72-4	0.00166 U	0.00331	0.00166	U	mg/kg	08.07.19 20.49	1
Demeton-O	298-03-3	0.00166 U	0.00331	0.00166	U	mg/kg	08.07.19 20.49	1
Demeton-S	126-75-0	0.00166 U	0.00331	0.00166	U	mg/kg	08.07.19 20.49	1
Diazinon	333-41-5	0.00166 U	0.00331	0.00166	U	mg/kg	08.07.19 20.49	1
Dimethoate	60-51-5	0.00166 U	0.00331	0.00166	U	mg/kg	08.07.19 20.49	1
EPN (Ent)	2104-64-5	0.00166 U	0.00331	0.00166	U	mg/kg	08.07.19 20.49	1
Ethoprop	13194-48-4	0.00166 U	0.00331	0.00166	U	mg/kg	08.07.19 20.49	1
Famphur	52-85-7	0.00166 U	0.00331	0.00166	U	mg/kg	08.07.19 20.49	1
Fenthion	55-38-9	0.00166 U	0.00331	0.00166	U	mg/kg	08.07.19 20.49	1
Malathion	121-75-5	0.00166 U	0.00331	0.00166	U	mg/kg	08.07.19 20.49	1
Merphos	150-50-5	0.00166 U	0.00331	0.00166	UJ	mg/kg	08.07.19 20.49	1
Mevinphos	7786-34-7	0.00166 U	0.00331	0.00166	U	mg/kg	08.07.19 20.49	1
Monocrotophos	2157-98-4	0.00166 U	0.00331	0.00166	UJ	mg/kg	08.07.19 20.49	1
Naled	300-76-5	0.00166 U	0.00331	0.00166	U	mg/kg	08.07.19 20.49	1
Parathion, Ethyl	56-38-2	0.00166 U	0.00331	0.00166	U	mg/kg	08.07.19 20.49	1
Parathion, Methyl	298-00-0	0.00166 U	0.00331	0.00166	U	mg/kg	08.07.19 20.49	1
Phorate	298-02-2	0.00166 U	0.00331	0.00166	U	mg/kg	08.07.19 20.49	1
Ronnel	299-84-3	0.00166 U	0.00331	0.00166	U	mg/kg	08.07.19 20.49	1
stirophos	22248-79-9	0.00166 U	0.00331	0.00166	U	mg/kg	08.07.19 20.49	1
Sulfotep	3689-24-5	0.00166 U	0.00331	0.00166	U	mg/kg	08.07.19 20.49	1
Sulprofos	35400-43-2	0.00166 U	0.00331	0.00166	U	mg/kg	08.07.19 20.49	1
TEPP	21646-99-1	0.00166 U	0.00331	0.00166	U	mg/kg	08.07.19 20.49	1
Tokuthion	34643-46-4	0.00166 U	0.00331	0.00166	U	mg/kg	08.07.19 20.49	1
Trichloronate	327-98-0	0.00166 U	0.00331	0.00166	U	mg/kg	08.07.19 20.49	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tributyl Phosphate	126-73-8	89	%	38-123	08.07.19 20.49	

Certificate of Analytical Results 632582

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-19 (0-6")**
Lab Sample Id: 632582-009

Matrix: Soil
Date Collected: 07.30.19 10.15

Date Received: 07.31.19 12.10
Sample Depth: 0 - 0.5 ft

Analytical Method: Pesticides by SW-846 8081B
Tech: JSE
Analyst: VIC
Seq Number: 3098123

Date Prep: 08.08.19 11.39

Prep Method: SW3550
% Moisture: 24.45
Basis: Dry Weight
SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
4,4-DDD	72-54-8	0.00204 U	0.00883	0.00204	U	mg/kg	08.09.19 23.22	2
4,4-DDE	72-55-9	0.00441 U	0.00883	0.00441	U	mg/kg	08.09.19 23.22	2
4,4-DDT	50-29-3	0.000672 U	0.00883	0.000672	U	mg/kg	08.09.19 23.22	2
Aldrin	309-00-2	0.000961 U	0.00883	0.000961	U	mg/kg	08.09.19 23.22	2
Alpha-BHC	319-84-6	0.00180 U	0.00883	0.00180	U	mg/kg	08.09.19 23.22	2
Alpha-Chlordane	5103-71-9	0.00151 U	0.00883	0.00151	U	mg/kg	08.09.19 23.22	2
Beta-BHC	319-85-7	0.00125 U	0.00883	0.00125	U	mg/kg	08.09.19 23.22	2
Delta-BHC	319-86-8	0.00441 U	0.00883	0.00441	U	mg/kg	08.09.19 23.22	2
Dieldrin	60-57-1	0.000449 U	0.00883	0.000449	U	mg/kg	08.09.19 23.22	2
Endosulfan I	959-98-8	0.000535 U	0.00883	0.000535	U	mg/kg	08.09.19 23.22	2
Endosulfan II	33213-65-9	0.000986 U	0.00883	0.000986	U	mg/kg	08.09.19 23.22	2
Endosulfan Sulfate	1031-07-8	0.000730 U	0.00883	0.000730	U	mg/kg	08.09.19 23.22	2
Endrin	72-20-8	0.000770 U	0.00883	0.000770	U	mg/kg	08.09.19 23.22	2
Endrin Aldehyde	7421-93-4	0.000655 U	0.00883	0.000655	U	mg/kg	08.09.19 23.22	2
Endrin Ketone	53494-70-5	0.000955 U	0.00883	0.000955	U	mg/kg	08.09.19 23.22	2
Gamma-BHC (Lindane)	58-89-9	0.00116 U	0.00883	0.00116	U	mg/kg	08.09.19 23.22	2
Gamma-Chlordane	5103-74-2	0.00202 U	0.00883	0.00202	U	mg/kg	08.09.19 23.22	2
Heptachlor	76-44-8	0.00149 U	0.00883	0.00149	U	mg/kg	08.09.19 23.22	2
Heptachlor Epoxide	1024-57-3	0.000648 U	0.00883	0.000648	U	mg/kg	08.09.19 23.22	2
Methoxychlor	72-43-5	0.00134 U	0.00883	0.00134	U	mg/kg	08.09.19 23.22	2
Chlordane	12789-03-6	0.0633 U	0.221	0.0633	U	mg/kg	08.09.19 23.22	2
Toxaphene	8001-35-2	0.0300 U	0.221	0.0300	U	mg/kg	08.09.19 23.22	2

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	49	%	35-135	08.09.19 23.22	
Decachlorobiphenyl	2051-24-3	64	%	25-143	08.09.19 23.22	

Certificate of Analytical Results 632582

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-19 (0-6'')** Matrix: Soil Date Received:07.31.19 12.10

Lab Sample Id: 632582-009 Date Collected: 07.30.19 10.15 Sample Depth: 0 - 0.5 ft

Analytical Method: SPLP Ammonia By EPA 350.1 Prep Method: E350.1P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.08.19 10.30

Seq Number: 3097930 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Ammonia (as N)	7664-41-7	**0.133**	0.100	0.0345		mg/L	08.08.19 15.52	1

Analytical Method: SPLP Nitrate-Nitrite by E353.2 Prep Method: E353.2P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.07.19 16.30

Seq Number: 3097830 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Nitrate-Nitrite	7727-37-9	**0.816**	0.100	0.0283		mg/L	08.07.19 20.36	1

Certificate of Analytical Results 632582

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id:	**CS-19 (6"-24")**	Matrix:	Soil	Date Received:	07.31.19 12.10
Lab Sample Id:	632582-010	Date Collected:	07.30.19 10.15	Sample Depth:	0.5 - 2 ft
Analytical Method:	Metals, Total by SW846 6010C			Prep Method:	SW3050B
Tech:	PJB			% Moisture:	17.53
Analyst:	DEP	Date Prep:	08.05.19 13.20	Basis:	Dry Weight
Seq Number:	3097619			SUB:	E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Arsenic	7440-38-2	**2.87**	2.43	0.514		mg/kg	08.05.19 23.22	1
Chromium	7440-47-3	**6.27**	1.21	0.0853		mg/kg	08.05.19 23.22	1
Copper	7440-50-8	**8.01**	2.43	0.537		mg/kg	08.05.19 23.22	1
Iron	7439-89-6	**1370**	24.3	3.27		mg/kg	08.05.19 23.22	1
Lead	7439-92-1	**4.92**	2.43	0.577		mg/kg	08.05.19 23.22	1
Manganese	7439-96-5	**45.7**	2.43	0.336		mg/kg	08.05.19 23.22	1

Certificate of Analytical Results 632582

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-19 (6"-24")** Matrix: Soil Date Received:07.31.19 12.10

Lab Sample Id: 632582-010 Date Collected: 07.30.19 10.15 Sample Depth: 0.5 - 2 ft

Analytical Method: EPA 8141 Organophosphorus Pesticides by GC Prep Method: SW3550

Tech: BNS % Moisture:

Analyst: CHD Date Prep: 08.07.19 10.10 Basis: Wet Weight

Seq Number: 3097841 SUB: E871146

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
azinphos-methyl	86-50-0	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 21.20	1
Chlorpyrifos	2921-88-2	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 21.20	1
Coumaphos	56-72-4	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 21.20	1
Demeton-O	298-03-3	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 21.20	1
Demeton-S	126-75-0	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 21.20	1
Diazinon	333-41-5	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 21.20	1
Dimethoate	60-51-5	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 21.20	1
EPN (Ent)	2104-64-5	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 21.20	1
Ethoprop	13194-48-4	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 21.20	1
Famphur	52-85-7	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 21.20	1
Fenthion	55-38-9	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 21.20	1
Malathion	121-75-5	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 21.20	1
Merphos	150-50-5	0.00166 U	0.00332	0.00166	UJ	mg/kg	08.07.19 21.20	1
Mevinphos	7786-34-7	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 21.20	1
Monocrotophos	2157-98-4	0.00166 U	0.00332	0.00166	UJ	mg/kg	08.07.19 21.20	1
Naled	300-76-5	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 21.20	1
Parathion, Ethyl	56-38-2	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 21.20	1
Parathion, Methyl	298-00-0	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 21.20	1
Phorate	298-02-2	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 21.20	1
Ronnel	299-84-3	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 21.20	1
stirophos	22248-79-9	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 21.20	1
Sulfotep	3689-24-5	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 21.20	1
Sulprofos	35400-43-2	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 21.20	1
TEPP	21646-99-1	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 21.20	1
Tokuthion	34643-46-4	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 21.20	1
Trichloronate	327-98-0	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 21.20	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tributyl Phosphate	126-73-8	92	%	38-123	08.07.19 21.20	

Certificate of Analytical Results 632582

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-19 (6"-24")**
Lab Sample Id: 632582-010

Matrix: Soil
Date Collected: 07.30.19 10.15

Date Received: 07.31.19 12.10
Sample Depth: 0.5 - 2 ft

Analytical Method: Pesticides by SW-846 8081B
Tech: JSE
Analyst: VIC
Seq Number: 3098123

Date Prep: 08.08.19 11.42

Prep Method: SW3550
% Moisture: 17.53
Basis: Dry Weight
SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
4,4-DDD	72-54-8	0.00187 U	0.00808	0.00187	U	mg/kg	08.09.19 23.49	2
4,4-DDE	72-55-9	0.00404 U	0.00808	0.00404	U	mg/kg	08.09.19 23.49	2
4,4-DDT	50-29-3	**0.000772**	0.00808	0.000615	I	mg/kg	08.09.19 23.49	2
Aldrin	309-00-2	0.000879 U	0.00808	0.000879	U	mg/kg	08.09.19 23.49	2
Alpha-BHC	319-84-6	0.00165 U	0.00808	0.00165	U	mg/kg	08.09.19 23.49	2
Alpha-Chlordane	5103-71-9	0.00138 U	0.00808	0.00138	U	mg/kg	08.09.19 23.49	2
Beta-BHC	319-85-7	0.00115 U	0.00808	0.00115	U	mg/kg	08.09.19 23.49	2
Delta-BHC	319-86-8	0.00404 U	0.00808	0.00404	U	mg/kg	08.09.19 23.49	2
Dieldrin	60-57-1	**0.000428**	0.00808	0.000411	I	mg/kg	08.09.19 23.49	2
Endosulfan I	959-98-8	0.000489 U	0.00808	0.000489	U	mg/kg	08.09.19 23.49	2
Endosulfan II	33213-65-9	0.000902 U	0.00808	0.000902	U	mg/kg	08.09.19 23.49	2
Endosulfan Sulfate	1031-07-8	0.000669 U	0.00808	0.000669	U	mg/kg	08.09.19 23.49	2
Endrin	72-20-8	0.000705 U	0.00808	0.000705	U	mg/kg	08.09.19 23.49	2
Endrin Aldehyde	7421-93-4	0.000600 U	0.00808	0.000600	U	mg/kg	08.09.19 23.49	2
Endrin Ketone	53494-70-5	0.000875 U	0.00808	0.000875	U	mg/kg	08.09.19 23.49	2
Gamma-BHC (Lindane)	58-89-9	0.00106 U	0.00808	0.00106	U	mg/kg	08.09.19 23.49	2
Gamma-Chlordane	5103-74-2	0.00185 U	0.00808	0.00185	U	mg/kg	08.09.19 23.49	2
Heptachlor	76-44-8	0.00136 U	0.00808	0.00136	U	mg/kg	08.09.19 23.49	2
Heptachlor Epoxide	1024-57-3	0.000594 U	0.00808	0.000594	U	mg/kg	08.09.19 23.49	2
Methoxychlor	72-43-5	0.00123 U	0.00808	0.00123	U	mg/kg	08.09.19 23.49	2
Chlordane	12789-03-6	0.0579 U	0.202	0.0579	U	mg/kg	08.09.19 23.49	2
Toxaphene	8001-35-2	0.0274 U	0.202	0.0274	U	mg/kg	08.09.19 23.49	2

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	59	%	35-135	08.09.19 23.49	
Decachlorobiphenyl	2051-24-3	69	%	25-143	08.09.19 23.49	

Certificate of Analytical Results 632582

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-19 (6"-24")** Matrix: Soil Date Received:07.31.19 12.10

Lab Sample Id: 632582-010 Date Collected: 07.30.19 10.15 Sample Depth: 0.5 - 2 ft

Analytical Method: SPLP Ammonia By EPA 350.1 Prep Method: E350.1P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.07.19 13.00

Seq Number: 3097801 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Ammonia (as N)	7664-41-7	**0.0914**	0.100	0.0345	I	mg/L	08.07.19 16.29	1

Analytical Method: SPLP Nitrate-Nitrite by E353.2 Prep Method: E353.2P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.07.19 16.30

Seq Number: 3097830 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Nitrate-Nitrite	7727-37-9	**0.184**	0.100	0.0283		mg/L	08.07.19 20.38	1

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Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id:	**CS-20 (0-6")**	Matrix:	Soil	Date Received:	07.31.19 12.10
Lab Sample Id:	632582-011	Date Collected:	07.30.19 10.31	Sample Depth:	0 - 0.5 ft
Analytical Method:	Metals, Total by SW846 6010C			Prep Method:	SW3050B
Tech:	PJB			% Moisture:	23.71
Analyst:	DEP	Date Prep:	08.05.19 13.20	Basis:	Dry Weight
Seq Number:	3097619			SUB:	E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Arsenic	7440-38-2	**8.22**	2.30	0.487		mg/kg	08.05.19 23.26	1
Chromium	7440-47-3	**8.62**	1.15	0.0809		mg/kg	08.05.19 23.26	1
Copper	7440-50-8	**22.1**	2.30	0.509		mg/kg	08.05.19 23.26	1
Iron	7439-89-6	**4890**	23.0	3.10		mg/kg	08.05.19 23.26	1
Lead	7439-92-1	**454**	2.30	0.547		mg/kg	08.05.19 23.26	1
Manganese	7439-96-5	**133**	2.30	0.319		mg/kg	08.05.19 23.26	1

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Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-20 (0-6")** Matrix: Soil Date Received:07.31.19 12.10

Lab Sample Id: 632582-011 Date Collected: 07.30.19 10.31 Sample Depth: 0 - 0.5 ft

Analytical Method: EPA 8141 Organophosphorus Pesticides by GC Prep Method: SW3550

Tech: BNS % Moisture:

Analyst: CHD Date Prep: 08.07.19 10.10 Basis: Wet Weight

Seq Number: 3097841 SUB: E871146

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
azinphos-methyl	86-50-0	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 23.26	1
Chlorpyrifos	2921-88-2	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 23.26	1
Coumaphos	56-72-4	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 23.26	1
Demeton-O	298-03-3	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 23.26	1
Demeton-S	126-75-0	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 23.26	1
Diazinon	333-41-5	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 23.26	1
Dimethoate	60-51-5	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 23.26	1
EPN (Ent)	2104-64-5	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 23.26	1
Ethoprop	13194-48-4	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 23.26	1
Famphur	52-85-7	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 23.26	1
Fenthion	55-38-9	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 23.26	1
Malathion	121-75-5	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 23.26	1
Merphos	150-50-5	0.00166 U	0.00332	0.00166	UJ	mg/kg	08.07.19 23.26	1
Mevinphos	7786-34-7	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 23.26	1
Monocrotophos	2157-98-4	0.00166 U	0.00332	0.00166	UJ	mg/kg	08.07.19 23.26	1
Naled	300-76-5	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 23.26	1
Parathion, Ethyl	56-38-2	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 23.26	1
Parathion, Methyl	298-00-0	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 23.26	1
Phorate	298-02-2	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 23.26	1
Ronnel	299-84-3	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 23.26	1
stirophos	22248-79-9	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 23.26	1
Sulfotep	3689-24-5	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 23.26	1
Sulprofos	35400-43-2	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 23.26	1
TEPP	21646-99-1	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 23.26	1
Tokuthion	34643-46-4	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 23.26	1
Trichloronate	327-98-0	0.00166 U	0.00332	0.00166	U	mg/kg	08.07.19 23.26	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tributyl Phosphate	126-73-8	105	%	38-123	08.07.19 23.26	

Certificate of Analytical Results 632582

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-20 (0-6")**
Lab Sample Id: 632582-011

Matrix: Soil
Date Collected: 07.30.19 10.31

Date Received: 07.31.19 12.10
Sample Depth: 0 - 0.5 ft

Analytical Method: Pesticides by SW-846 8081B
Tech: JSE
Analyst: VIC
Seq Number: 3098123

Date Prep: 08.08.19 11.45

Prep Method: SW3550
% Moisture: 23.71
Basis: Dry Weight
SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
4,4-DDD	72-54-8	**0.00513**	0.00875	0.00202	I	mg/kg	08.10.19 00.03	2
4,4-DDE	72-55-9	**0.0347**	0.00875	0.00437		mg/kg	08.10.19 00.03	2
4,4-DDT	50-29-3	**0.0108**	0.00875	0.000666		mg/kg	08.10.19 00.03	2
Aldrin	309-00-2	0.000952 U	0.00875	0.000952	U	mg/kg	08.10.19 00.03	2
Alpha-BHC	319-84-6	0.00178 U	0.00875	0.00178	U	mg/kg	08.10.19 00.03	2
Alpha-Chlordane	5103-71-9	**0.0124**	0.00875	0.00150		mg/kg	08.10.19 00.03	2
Beta-BHC	319-85-7	0.00124 U	0.00875	0.00124	U	mg/kg	08.10.19 00.03	2
Delta-BHC	319-86-8	0.00437 U	0.00875	0.00437	U	mg/kg	08.10.19 00.03	2
Dieldrin	60-57-1	**0.00376**	0.00875	0.000445	I	mg/kg	08.10.19 00.03	2
Endosulfan I	959-98-8	0.000530 U	0.00875	0.000530	U	mg/kg	08.10.19 00.03	2
Endosulfan II	33213-65-9	0.000977 U	0.00875	0.000977	U	mg/kg	08.10.19 00.03	2
Endosulfan Sulfate	1031-07-8	0.000724 U	0.00875	0.000724	U	mg/kg	08.10.19 00.03	2
Endrin	72-20-8	**0.00582**	0.00875	0.000763	I	mg/kg	08.10.19 00.03	2
Endrin Aldehyde	7421-93-4	0.000649 U	0.00875	0.000649	U	mg/kg	08.10.19 00.03	2
Endrin Ketone	53494-70-5	0.000947 U	0.00875	0.000947	U	mg/kg	08.10.19 00.03	2
Gamma-BHC (Lindane)	58-89-9	0.00115 U	0.00875	0.00115	U	mg/kg	08.10.19 00.03	2
Gamma-Chlordane	5103-74-2	**0.00907**	0.00875	0.00200		mg/kg	08.10.19 00.03	2
Heptachlor	76-44-8	0.00148 U	0.00875	0.00148	U	mg/kg	08.10.19 00.03	2
Heptachlor Epoxide	1024-57-3	**0.00207**	0.00875	0.000643	I	mg/kg	08.10.19 00.03	2
Methoxychlor	72-43-5	0.00133 U	0.00875	0.00133	U	mg/kg	08.10.19 00.03	2
Chlordane	12789-03-6	0.0627 U	0.219	0.0627	U	mg/kg	08.10.19 00.03	2
Toxaphene	8001-35-2	0.0297 U	0.219	0.0297	U	mg/kg	08.10.19 00.03	2

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	69	%	35-135	08.10.19 00.03	
Decachlorobiphenyl	2051-24-3	72	%	25-143	08.10.19 00.03	

Certificate of Analytical Results 632582

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-20 (0-6'')** Matrix: Soil Date Received:07.31.19 12.10

Lab Sample Id: 632582-011 Date Collected: 07.30.19 10.31 Sample Depth: 0 - 0.5 ft

Analytical Method: SPLP Ammonia By EPA 350.1 Prep Method: E350.1P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.07.19 13.00

Seq Number: 3097801 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Ammonia (as N)	7664-41-7	**0.161**	0.100	0.0345		mg/L	08.07.19 16.30	1

Analytical Method: SPLP Nitrate-Nitrite by E353.2 Prep Method: E353.2P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.07.19 16.30

Seq Number: 3097830 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Nitrate-Nitrite	7727-37-9	**1.05**	0.100	0.0283		mg/L	08.07.19 20.40	1

Certificate of Analytical Results 632582

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-20 (6"-24")**
Lab Sample Id: 632582-012

Matrix: Soil
Date Collected: 07.30.19 10.31

Date Received: 07.31.19 12.10
Sample Depth: 0.5 - 2 ft

Analytical Method: Metals, Total by SW846 6010C
Tech: PJB
Analyst: DEP
Seq Number: 3097619

Date Prep: 08.05.19 13.20

Prep Method: SW3050B
% Moisture: 18.63
Basis: Dry Weight
SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Arsenic	7440-38-2	**5.68**	2.23	0.473		mg/kg	08.05.19 23.39	1
Chromium	7440-47-3	**8.35**	1.12	0.0786		mg/kg	08.05.19 23.39	1
Copper	7440-50-8	**10.1**	2.23	0.495		mg/kg	08.05.19 23.39	1
Iron	7439-89-6	**11600**	447	60.2		mg/kg	08.07.19 01.55	20
Lead	7439-92-1	**1510**	44.7	10.6		mg/kg	08.07.19 01.55	20
Manganese	7439-96-5	**108**	2.23	0.310		mg/kg	08.05.19 23.39	1

Certificate of Analytical Results 632582

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-20 (6"-24")** Matrix: Soil Date Received:07.31.19 12.10

Lab Sample Id: 632582-012 Date Collected: 07.30.19 10.31 Sample Depth: 0.5 - 2 ft

Analytical Method: EPA 8141 Organophosphorus Pesticides by GC Prep Method: SW3550

Tech: BNS % Moisture:

Analyst: CHD Date Prep: 08.07.19 10.10 Basis: Wet Weight

Seq Number: 3097841 SUB: E871146

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
azinphos-methyl	86-50-0	0.00166 U	0.00331	0.00166	U	mg/kg	08.07.19 23.57	1
Chlorpyrifos	2921-88-2	0.00166 U	0.00331	0.00166	U	mg/kg	08.07.19 23.57	1
Coumaphos	56-72-4	0.00166 U	0.00331	0.00166	U	mg/kg	08.07.19 23.57	1
Demeton-O	298-03-3	0.00166 U	0.00331	0.00166	U	mg/kg	08.07.19 23.57	1
Demeton-S	126-75-0	0.00166 U	0.00331	0.00166	U	mg/kg	08.07.19 23.57	1
Diazinon	333-41-5	0.00166 U	0.00331	0.00166	U	mg/kg	08.07.19 23.57	1
Dimethoate	60-51-5	0.00166 U	0.00331	0.00166	U	mg/kg	08.07.19 23.57	1
EPN (Ent)	2104-64-5	0.00166 U	0.00331	0.00166	U	mg/kg	08.07.19 23.57	1
Ethoprop	13194-48-4	0.00166 U	0.00331	0.00166	U	mg/kg	08.07.19 23.57	1
Famphur	52-85-7	0.00166 U	0.00331	0.00166	U	mg/kg	08.07.19 23.57	1
Fenthion	55-38-9	0.00166 U	0.00331	0.00166	U	mg/kg	08.07.19 23.57	1
Malathion	121-75-5	0.00166 U	0.00331	0.00166	U	mg/kg	08.07.19 23.57	1
Merphos	150-50-5	0.00166 U	0.00331	0.00166	UJ	mg/kg	08.07.19 23.57	1
Mevinphos	7786-34-7	0.00166 U	0.00331	0.00166	U	mg/kg	08.07.19 23.57	1
Monocrotophos	2157-98-4	0.00166 U	0.00331	0.00166	UJ	mg/kg	08.07.19 23.57	1
Naled	300-76-5	0.00166 U	0.00331	0.00166	U	mg/kg	08.07.19 23.57	1
Parathion, Ethyl	56-38-2	0.00166 U	0.00331	0.00166	U	mg/kg	08.07.19 23.57	1
Parathion, Methyl	298-00-0	0.00166 U	0.00331	0.00166	U	mg/kg	08.07.19 23.57	1
Phorate	298-02-2	0.00166 U	0.00331	0.00166	U	mg/kg	08.07.19 23.57	1
Ronnel	299-84-3	0.00166 U	0.00331	0.00166	U	mg/kg	08.07.19 23.57	1
stirophos	22248-79-9	0.00166 U	0.00331	0.00166	U	mg/kg	08.07.19 23.57	1
Sulfotep	3689-24-5	0.00166 U	0.00331	0.00166	U	mg/kg	08.07.19 23.57	1
Sulprofos	35400-43-2	0.00166 U	0.00331	0.00166	U	mg/kg	08.07.19 23.57	1
TEPP	21646-99-1	0.00166 U	0.00331	0.00166	U	mg/kg	08.07.19 23.57	1
Tokuthion	34643-46-4	0.00166 U	0.00331	0.00166	U	mg/kg	08.07.19 23.57	1
Trichloronate	327-98-0	0.00166 U	0.00331	0.00166	U	mg/kg	08.07.19 23.57	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tributyl Phosphate	126-73-8	97	%	38-123	08.07.19 23.57	

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Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-20 (6"-24")**
Lab Sample Id: 632582-012

Matrix: Soil
Date Collected: 07.30.19 10.31

Date Received: 07.31.19 12.10
Sample Depth: 0.5 - 2 ft

Analytical Method: Pesticides by SW-846 8081B
Tech: JSE
Analyst: VIC
Seq Number: 3098123

Date Prep: 08.08.19 11.48

Prep Method: SW3550
% Moisture: 18.63
Basis: Dry Weight
SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
4,4-DDD	72-54-8	**0.0122**	0.00819	0.00190		mg/kg	08.10.19 00.17	2
4,4-DDE	72-55-9	**0.0590**	0.00819	0.00410		mg/kg	08.10.19 00.17	2
4,4-DDT	50-29-3	**0.00921**	0.00819	0.000624		mg/kg	08.10.19 00.17	2
Aldrin	309-00-2	0.000891 U	0.00819	0.000891	U	mg/kg	08.10.19 00.17	2
Alpha-BHC	319-84-6	0.00167 U	0.00819	0.00167	U	mg/kg	08.10.19 00.17	2
Alpha-Chlordane	5103-71-9	**0.0186**	0.00819	0.00140		mg/kg	08.10.19 00.17	2
Beta-BHC	319-85-7	0.00116 U	0.00819	0.00116	U	mg/kg	08.10.19 00.17	2
Delta-BHC	319-86-8	0.00410 U	0.00819	0.00410	U	mg/kg	08.10.19 00.17	2
Dieldrin	60-57-1	**0.00597**	0.00819	0.000416	I	mg/kg	08.10.19 00.17	2
Endosulfan I	959-98-8	0.000496 U	0.00819	0.000496	U	mg/kg	08.10.19 00.17	2
Endosulfan II	33213-65-9	0.000915 U	0.00819	0.000915	U	mg/kg	08.10.19 00.17	2
Endosulfan Sulfate	1031-07-8	0.000678 U	0.00819	0.000678	U	mg/kg	08.10.19 00.17	2
Endrin	72-20-8	**0.00668**	0.00819	0.000715	I	mg/kg	08.10.19 00.17	2
Endrin Aldehyde	7421-93-4	0.000608 U	0.00819	0.000608	U	mg/kg	08.10.19 00.17	2
Endrin Ketone	53494-70-5	0.000886 U	0.00819	0.000886	U	mg/kg	08.10.19 00.17	2
Gamma-BHC (Lindane)	58-89-9	0.00108 U	0.00819	0.00108	U	mg/kg	08.10.19 00.17	2
Gamma-Chlordane	5103-74-2	**0.0163**	0.00819	0.00188		mg/kg	08.10.19 00.17	2
Heptachlor	76-44-8	0.00138 U	0.00819	0.00138	U	mg/kg	08.10.19 00.17	2
Heptachlor Epoxide	1024-57-3	**0.00278**	0.00819	0.000602	I	mg/kg	08.10.19 00.17	2
Methoxychlor	72-43-5	0.00124 U	0.00819	0.00124	U	mg/kg	08.10.19 00.17	2
Chlordane	12789-03-6	0.0587 U	0.205	0.0587	U	mg/kg	08.10.19 00.17	2
Toxaphene	8001-35-2	0.0278 U	0.205	0.0278	U	mg/kg	08.10.19 00.17	2

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	71	%	35-135	08.10.19 00.17	
Decachlorobiphenyl	2051-24-3	102	%	25-143	08.10.19 00.17	

Certificate of Analytical Results 632582

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-20 (6"-24")** Matrix: Soil Date Received:07.31.19 12.10

Lab Sample Id: 632582-012 Date Collected: 07.30.19 10.31 Sample Depth: 0.5 - 2 ft

Analytical Method: SPLP Ammonia By EPA 350.1 Prep Method: E350.1P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.07.19 13.00

Seq Number: 3097801 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Ammonia (as N)	7664-41-7	**0.0908**	0.100	0.0345	I	mg/L	08.07.19 16.31	1

Analytical Method: SPLP Nitrate-Nitrite by E353.2 Prep Method: E353.2P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.07.19 16.30

Seq Number: 3097830 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Nitrate-Nitrite	7727-37-9	**0.344**	0.100	0.0283		mg/L	08.07.19 20.44	1

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Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id:	**CS-21 (0-6")**	Matrix:	Soil	Date Received:	07.31.19 12.10
Lab Sample Id:	632582-013	Date Collected:	07.30.19 11.03	Sample Depth:	0 - 0.5 ft
Analytical Method:	Metals, Total by SW846 6010C			Prep Method:	SW3050B
Tech:	PJB			% Moisture:	22.44
Analyst:	DEP	Date Prep:	08.05.19 13.20	Basis:	Dry Weight
Seq Number:	3097619			SUB:	E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Arsenic	7440-38-2	**9.59**	2.53	0.536		mg/kg	08.05.19 23.43	1
Chromium	7440-47-3	**10.6**	1.26	0.0890		mg/kg	08.05.19 23.43	1
Copper	7440-50-8	**19.6**	2.53	0.560		mg/kg	08.05.19 23.43	1
Iron	7439-89-6	**2700**	25.3	3.41		mg/kg	08.05.19 23.43	1
Lead	7439-92-1	**17.8**	2.53	0.601		mg/kg	08.05.19 23.43	1
Manganese	7439-96-5	**135**	2.53	0.351		mg/kg	08.05.19 23.43	1

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Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-21 (0-6")** Matrix: Soil Date Received:07.31.19 12.10

Lab Sample Id: 632582-013 Date Collected: 07.30.19 11.03 Sample Depth: 0 - 0.5 ft

Analytical Method: EPA 8141 Organophosphorus Pesticides by GC Prep Method: SW3550

Tech: BNS % Moisture:

Analyst: CHD Date Prep: 08.07.19 10.10 Basis: Wet Weight

Seq Number: 3097841 SUB: E871146

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
azinphos-methyl	86-50-0	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 00.28	1
Chlorpyrifos	2921-88-2	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 00.28	1
Coumaphos	56-72-4	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 00.28	1
Demeton-O	298-03-3	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 00.28	1
Demeton-S	126-75-0	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 00.28	1
Diazinon	333-41-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 00.28	1
Dimethoate	60-51-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 00.28	1
EPN (Ent)	2104-64-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 00.28	1
Ethoprop	13194-48-4	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 00.28	1
Famphur	52-85-7	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 00.28	1
Fenthion	55-38-9	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 00.28	1
Malathion	121-75-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 00.28	1
Merphos	150-50-5	0.00167 U	0.00333	0.00167	UJ	mg/kg	08.08.19 00.28	1
Mevinphos	7786-34-7	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 00.28	1
Monocrotophos	2157-98-4	0.00167 U	0.00333	0.00167	UJ	mg/kg	08.08.19 00.28	1
Naled	300-76-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 00.28	1
Parathion, Ethyl	56-38-2	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 00.28	1
Parathion, Methyl	298-00-0	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 00.28	1
Phorate	298-02-2	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 00.28	1
Ronnel	299-84-3	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 00.28	1
stirophos	22248-79-9	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 00.28	1
Sulfotep	3689-24-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 00.28	1
Sulprofos	35400-43-2	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 00.28	1
TEPP	21646-99-1	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 00.28	1
Tokuthion	34643-46-4	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 00.28	1
Trichloronate	327-98-0	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 00.28	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tributyl Phosphate	126-73-8	97	%	38-123	08.08.19 00.28	

Certificate of Analytical Results 632582

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-21 (0-6")**
Lab Sample Id: 632582-013

Matrix: Soil
Date Collected: 07.30.19 11.03

Date Received: 07.31.19 12.10
Sample Depth: 0 - 0.5 ft

Analytical Method: Pesticides by SW-846 8081B
Tech: JSE
Analyst: VIC
Seq Number: 3098123

Date Prep: 08.08.19 11.51

Prep Method: SW3550
% Moisture: 22.44
Basis: Dry Weight
SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
4,4-DDD	72-54-8	0.00199 U	0.00860	0.00199	U	mg/kg	08.10.19 00.30	2
4,4-DDE	72-55-9	0.00430 U	0.00860	0.00430	U	mg/kg	08.10.19 00.30	2
4,4-DDT	50-29-3	**0.000683**	0.00860	0.000655	I	mg/kg	08.10.19 00.30	2
Aldrin	309-00-2	0.000935 U	0.00860	0.000935	U	mg/kg	08.10.19 00.30	2
Alpha-BHC	319-84-6	0.00175 U	0.00860	0.00175	U	mg/kg	08.10.19 00.30	2
Alpha-Chlordane	5103-71-9	0.00147 U	0.00860	0.00147	U	mg/kg	08.10.19 00.30	2
Beta-BHC	319-85-7	0.00122 U	0.00860	0.00122	U	mg/kg	08.10.19 00.30	2
Delta-BHC	319-86-8	0.00430 U	0.00860	0.00430	U	mg/kg	08.10.19 00.30	2
Dieldrin	60-57-1	0.000437 U	0.00860	0.000437	U	mg/kg	08.10.19 00.30	2
Endosulfan I	959-98-8	0.000521 U	0.00860	0.000521	U	mg/kg	08.10.19 00.30	2
Endosulfan II	33213-65-9	0.000960 U	0.00860	0.000960	U	mg/kg	08.10.19 00.30	2
Endosulfan Sulfate	1031-07-8	0.000711 U	0.00860	0.000711	U	mg/kg	08.10.19 00.30	2
Endrin	72-20-8	0.000750 U	0.00860	0.000750	U	mg/kg	08.10.19 00.30	2
Endrin Aldehyde	7421-93-4	0.000638 U	0.00860	0.000638	U	mg/kg	08.10.19 00.30	2
Endrin Ketone	53494-70-5	0.000930 U	0.00860	0.000930	U	mg/kg	08.10.19 00.30	2
Gamma-BHC (Lindane)	58-89-9	0.00113 U	0.00860	0.00113	U	mg/kg	08.10.19 00.30	2
Gamma-Chlordane	5103-74-2	0.00197 U	0.00860	0.00197	U	mg/kg	08.10.19 00.30	2
Heptachlor	76-44-8	0.00145 U	0.00860	0.00145	U	mg/kg	08.10.19 00.30	2
Heptachlor Epoxide	1024-57-3	0.000631 U	0.00860	0.000631	U	mg/kg	08.10.19 00.30	2
Methoxychlor	72-43-5	0.00131 U	0.00860	0.00131	U	mg/kg	08.10.19 00.30	2
Chlordane	12789-03-6	0.0616 U	0.215	0.0616	U	mg/kg	08.10.19 00.30	2
Toxaphene	8001-35-2	0.0292 U	0.215	0.0292	U	mg/kg	08.10.19 00.30	2

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	46	%	35-135	08.10.19 00.30	
Decachlorobiphenyl	2051-24-3	71	%	25-143	08.10.19 00.30	

Certificate of Analytical Results 632582

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-21 (0-6'')** Matrix: Soil Date Received:07.31.19 12.10

Lab Sample Id: 632582-013 Date Collected: 07.30.19 11.03 Sample Depth: 0 - 0.5 ft

Analytical Method: SPLP Ammonia By EPA 350.1 Prep Method: E350.1P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.07.19 13.00

Seq Number: 3097801 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Ammonia (as N)	7664-41-7	**0.0728**	0.100	0.0345	I	mg/L	08.07.19 16.32	1

Analytical Method: SPLP Nitrate-Nitrite by E353.2 Prep Method: E353.2P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.07.19 16.30

Seq Number: 3097830 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Nitrate-Nitrite	7727-37-9	**0.413**	0.100	0.0283		mg/L	08.07.19 20.46	1

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Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-21 (6"-24")**
Lab Sample Id: 632582-014

Matrix: Soil
Date Collected: 07.30.19 11.03

Date Received: 07.31.19 12.10
Sample Depth: 0.5 - 2 ft

Analytical Method: Metals, Total by SW846 6010C
Tech: PJB
Analyst: DEP
Seq Number: 3097619

Date Prep: 08.05.19 13.20

Prep Method: SW3050B
% Moisture: 22.4
Basis: Dry Weight
SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Arsenic	7440-38-2	**2.16**	2.34	0.496	I	mg/kg	08.05.19 23.47	1
Chromium	7440-47-3	**11.0**	1.17	0.0825		mg/kg	08.05.19 23.47	1
Copper	7440-50-8	**3.26**	2.34	0.519		mg/kg	08.05.19 23.47	1
Iron	7439-89-6	**2200**	23.4	3.16		mg/kg	08.05.19 23.47	1
Lead	7439-92-1	**2.25**	2.34	0.557	I	mg/kg	08.05.19 23.47	1
Manganese	7439-96-5	**24.9**	2.34	0.325		mg/kg	08.05.19 23.47	1

Certificate of Analytical Results 632582

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-21 (6"-24")** Matrix: Soil Date Received:07.31.19 12.10

Lab Sample Id: 632582-014 Date Collected: 07.30.19 11.03 Sample Depth: 0.5 - 2 ft

Analytical Method: EPA 8141 Organophosphorus Pesticides by GC Prep Method: SW3550

Tech: BNS % Moisture:

Analyst: CHD Date Prep: 08.07.19 10.10 Basis: Wet Weight

Seq Number: 3097841 SUB: E871146

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
azinphos-methyl	86-50-0	0.00164 U	0.00329	0.00164	U	mg/kg	08.08.19 01.00	1
Chlorpyrifos	2921-88-2	0.00164 U	0.00329	0.00164	U	mg/kg	08.08.19 01.00	1
Coumaphos	56-72-4	0.00164 U	0.00329	0.00164	U	mg/kg	08.08.19 01.00	1
Demeton-O	298-03-3	0.00164 U	0.00329	0.00164	U	mg/kg	08.08.19 01.00	1
Demeton-S	126-75-0	0.00164 U	0.00329	0.00164	U	mg/kg	08.08.19 01.00	1
Diazinon	333-41-5	0.00164 U	0.00329	0.00164	U	mg/kg	08.08.19 01.00	1
Dimethoate	60-51-5	0.00164 U	0.00329	0.00164	U	mg/kg	08.08.19 01.00	1
EPN (Ent)	2104-64-5	0.00164 U	0.00329	0.00164	U	mg/kg	08.08.19 01.00	1
Ethoprop	13194-48-4	0.00164 U	0.00329	0.00164	U	mg/kg	08.08.19 01.00	1
Famphur	52-85-7	0.00164 U	0.00329	0.00164	U	mg/kg	08.08.19 01.00	1
Fenthion	55-38-9	0.00164 U	0.00329	0.00164	U	mg/kg	08.08.19 01.00	1
Malathion	121-75-5	0.00164 U	0.00329	0.00164	U	mg/kg	08.08.19 01.00	1
Merphos	150-50-5	0.00164 U	0.00329	0.00164	UJ	mg/kg	08.08.19 01.00	1
Mevinphos	7786-34-7	0.00164 U	0.00329	0.00164	U	mg/kg	08.08.19 01.00	1
Monocrotophos	2157-98-4	0.00164 U	0.00329	0.00164	UJ	mg/kg	08.08.19 01.00	1
Naled	300-76-5	0.00164 U	0.00329	0.00164	U	mg/kg	08.08.19 01.00	1
Parathion, Ethyl	56-38-2	0.00164 U	0.00329	0.00164	U	mg/kg	08.08.19 01.00	1
Parathion, Methyl	298-00-0	0.00164 U	0.00329	0.00164	U	mg/kg	08.08.19 01.00	1
Phorate	298-02-2	0.00164 U	0.00329	0.00164	U	mg/kg	08.08.19 01.00	1
Ronnel	299-84-3	0.00164 U	0.00329	0.00164	U	mg/kg	08.08.19 01.00	1
stirophos	22248-79-9	0.00164 U	0.00329	0.00164	U	mg/kg	08.08.19 01.00	1
Sulfotep	3689-24-5	0.00164 U	0.00329	0.00164	U	mg/kg	08.08.19 01.00	1
Sulprofos	35400-43-2	0.00164 U	0.00329	0.00164	U	mg/kg	08.08.19 01.00	1
TEPP	21646-99-1	0.00164 U	0.00329	0.00164	U	mg/kg	08.08.19 01.00	1
Tokuthion	34643-46-4	0.00164 U	0.00329	0.00164	U	mg/kg	08.08.19 01.00	1
Trichloronate	327-98-0	0.00164 U	0.00329	0.00164	U	mg/kg	08.08.19 01.00	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tributyl Phosphate	126-73-8	80	%	38-123	08.08.19 01.00	

Certificate of Analytical Results 632582

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-21 (6"-24")**
Lab Sample Id: 632582-014

Matrix: Soil
Date Collected: 07.30.19 11.03

Date Received: 07.31.19 12.10
Sample Depth: 0.5 - 2 ft

Analytical Method: Pesticides by SW-846 8081B
Tech: JSE
Analyst: VIC
Seq Number: 3098123

Date Prep: 08.08.19 11.54

Prep Method: SW3550
% Moisture: 22.4
Basis: Dry Weight
SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
4,4-DDD	72-54-8	0.000995 U	0.00430	0.000995	U	mg/kg	08.09.19 15.37	1
4,4-DDE	72-55-9	0.00215 U	0.00430	0.00215	U	mg/kg	08.09.19 15.37	1
4,4-DDT	50-29-3	**0.000477**	0.00430	0.000327	I	mg/kg	08.09.19 15.37	1
Aldrin	309-00-2	0.000468 U	0.00430	0.000468	U	mg/kg	08.09.19 15.37	1
Alpha-BHC	319-84-6	0.000877 U	0.00430	0.000877	U	mg/kg	08.09.19 15.37	1
Alpha-Chlordane	5103-71-9	0.000736 U	0.00430	0.000736	U	mg/kg	08.09.19 15.37	1
Beta-BHC	319-85-7	0.000611 U	0.00430	0.000611	U	mg/kg	08.09.19 15.37	1
Delta-BHC	319-86-8	0.00215 U	0.00430	0.00215	U	mg/kg	08.09.19 15.37	1
Dieldrin	60-57-1	0.000219 U	0.00430	0.000219	U	mg/kg	08.09.19 15.37	1
Endosulfan I	959-98-8	0.000260 U	0.00430	0.000260	U	mg/kg	08.09.19 15.37	1
Endosulfan II	33213-65-9	0.000480 U	0.00430	0.000480	U	mg/kg	08.09.19 15.37	1
Endosulfan Sulfate	1031-07-8	0.000356 U	0.00430	0.000356	U	mg/kg	08.09.19 15.37	1
Endrin	72-20-8	0.000375 U	0.00430	0.000375	U	mg/kg	08.09.19 15.37	1
Endrin Aldehyde	7421-93-4	0.000319 U	0.00430	0.000319	U	mg/kg	08.09.19 15.37	1
Endrin Ketone	53494-70-5	0.000465 U	0.00430	0.000465	U	mg/kg	08.09.19 15.37	1
Gamma-BHC (Lindane)	58-89-9	0.000566 U	0.00430	0.000566	U	mg/kg	08.09.19 15.37	1
Gamma-Chlordane	5103-74-2	0.000985 U	0.00430	0.000985	U	mg/kg	08.09.19 15.37	1
Heptachlor	76-44-8	0.000725 U	0.00430	0.000725	U	mg/kg	08.09.19 15.37	1
Heptachlor Epoxide	1024-57-3	0.000316 U	0.00430	0.000316	U	mg/kg	08.09.19 15.37	1
Methoxychlor	72-43-5	0.000654 U	0.00430	0.000654	U	mg/kg	08.09.19 15.37	1
Chlordane	12789-03-6	0.0308 U	0.107	0.0308	U	mg/kg	08.09.19 15.37	1
Toxaphene	8001-35-2	0.0146 U	0.107	0.0146	U	mg/kg	08.09.19 15.37	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	50	%	35-135	08.09.19 15.37	
Decachlorobiphenyl	2051-24-3	61	%	25-143	08.09.19 15.37	

Certificate of Analytical Results 632582

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-21 (6"-24")** Matrix: Soil Date Received:07.31.19 12.10

Lab Sample Id: 632582-014 Date Collected: 07.30.19 11.03 Sample Depth: 0.5 - 2 ft

Analytical Method: SPLP Ammonia By EPA 350.1 Prep Method: E350.1P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.07.19 13.00

Seq Number: 3097801 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Ammonia (as N)	7664-41-7	**0.437**	0.100	0.0345		mg/L	08.07.19 16.33	1

Analytical Method: SPLP Nitrate-Nitrite by E353.2 Prep Method: E353.2P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.07.19 16.30

Seq Number: 3097830 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Nitrate-Nitrite	7727-37-9	**0.142**	0.100	0.0283		mg/L	08.07.19 20.51	1

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Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id:	**CS-22 (0-6")**	Matrix:	Soil	Date Received:	07.31.19 12.10
Lab Sample Id:	632582-015	Date Collected:	07.30.19 11.39	Sample Depth:	0 - 0.5 ft
Analytical Method:	Metals, Total by SW846 6010C			Prep Method:	SW3050B
Tech:	PJB			% Moisture:	28.96
Analyst:	DEP	Date Prep:	08.05.19 13.20	Basis:	Dry Weight
Seq Number:	3097619			SUB:	E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Arsenic	7440-38-2	**12.5**	2.71	0.574		mg/kg	08.05.19 23.51	1
Chromium	7440-47-3	**9.88**	1.35	0.0953		mg/kg	08.05.19 23.51	1
Copper	7440-50-8	**25.5**	2.71	0.600		mg/kg	08.05.19 23.51	1
Iron	7439-89-6	**1490**	27.1	3.65		mg/kg	08.05.19 23.51	1
Lead	7439-92-1	**9.00**	2.71	0.644		mg/kg	08.05.19 23.51	1
Manganese	7439-96-5	**174**	2.71	0.376		mg/kg	08.05.19 23.51	1

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Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-22 (0-6")** Matrix: Soil Date Received:07.31.19 12.10

Lab Sample Id: 632582-015 Date Collected: 07.30.19 11.39 Sample Depth: 0 - 0.5 ft

Analytical Method: EPA 8141 Organophosphorus Pesticides by GC Prep Method: SW3550

Tech: BNS % Moisture:

Analyst: CHD Date Prep: 08.07.19 10.10 Basis: Wet Weight

Seq Number: 3097841 SUB: E871146

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
azinphos-methyl	86-50-0	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 01.31	1
Chlorpyrifos	2921-88-2	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 01.31	1
Coumaphos	56-72-4	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 01.31	1
Demeton-O	298-03-3	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 01.31	1
Demeton-S	126-75-0	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 01.31	1
Diazinon	333-41-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 01.31	1
Dimethoate	60-51-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 01.31	1
EPN (Ent)	2104-64-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 01.31	1
Ethoprop	13194-48-4	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 01.31	1
Famphur	52-85-7	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 01.31	1
Fenthion	55-38-9	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 01.31	1
Malathion	121-75-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 01.31	1
Merphos	150-50-5	0.00167 U	0.00333	0.00167	UJ	mg/kg	08.08.19 01.31	1
Mevinphos	7786-34-7	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 01.31	1
Monocrotophos	2157-98-4	0.00167 U	0.00333	0.00167	UJ	mg/kg	08.08.19 01.31	1
Naled	300-76-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 01.31	1
Parathion, Ethyl	56-38-2	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 01.31	1
Parathion, Methyl	298-00-0	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 01.31	1
Phorate	298-02-2	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 01.31	1
Ronnel	299-84-3	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 01.31	1
stirophos	22248-79-9	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 01.31	1
Sulfotep	3689-24-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 01.31	1
Sulprofos	35400-43-2	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 01.31	1
TEPP	21646-99-1	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 01.31	1
Tokuthion	34643-46-4	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 01.31	1
Trichloronate	327-98-0	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 01.31	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tributyl Phosphate	126-73-8	94	%	38-123	08.08.19 01.31	

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Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-22 (0-6")**
Lab Sample Id: 632582-015

Matrix: Soil
Date Collected: 07.30.19 11.39

Date Received: 07.31.19 12.10
Sample Depth: 0 - 0.5 ft

Analytical Method: Pesticides by SW-846 8081B
Tech: JSE
Analyst: VIC
Seq Number: 3098123

Date Prep: 08.08.19 11.57

Prep Method: SW3550
% Moisture: 28.96
Basis: Dry Weight
SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
4,4-DDD	72-54-8	**0.00124**	0.00469	0.00109	I	mg/kg	08.09.19 19.15	1
4,4-DDE	72-55-9	**0.00408**	0.00469	0.00235	I	mg/kg	08.09.19 19.15	1
4,4-DDT	50-29-3	**0.00486**	0.00469	0.000357		mg/kg	08.09.19 19.15	1
Aldrin	309-00-2	0.000510 U	0.00469	0.000510	U	mg/kg	08.09.19 19.15	1
Alpha-BHC	319-84-6	0.000957 U	0.00469	0.000957	U	mg/kg	08.09.19 19.15	1
Alpha-Chlordane	5103-71-9	0.000803 U	0.00469	0.000803	U	mg/kg	08.09.19 19.15	1
Beta-BHC	319-85-7	0.000667 U	0.00469	0.000667	U	mg/kg	08.09.19 19.15	1
Delta-BHC	319-86-8	0.00235 U	0.00469	0.00235	U	mg/kg	08.09.19 19.15	1
Dieldrin	60-57-1	0.000238 U	0.00469	0.000238	U	mg/kg	08.09.19 19.15	1
Endosulfan I	959-98-8	0.000284 U	0.00469	0.000284	U	mg/kg	08.09.19 19.15	1
Endosulfan II	33213-65-9	0.000524 U	0.00469	0.000524	U	mg/kg	08.09.19 19.15	1
Endosulfan Sulfate	1031-07-8	**0.000692**	0.00469	0.000388	I	mg/kg	08.09.19 19.15	1
Endrin	72-20-8	0.000409 U	0.00469	0.000409	U	mg/kg	08.09.19 19.15	1
Endrin Aldehyde	7421-93-4	0.000348 U	0.00469	0.000348	U	mg/kg	08.09.19 19.15	1
Endrin Ketone	53494-70-5	0.000508 U	0.00469	0.000508	U	mg/kg	08.09.19 19.15	1
Gamma-BHC (Lindane)	58-89-9	0.000617 U	0.00469	0.000617	U	mg/kg	08.09.19 19.15	1
Gamma-Chlordane	5103-74-2	0.00107 U	0.00469	0.00107	U	mg/kg	08.09.19 19.15	1
Heptachlor	76-44-8	0.000791 U	0.00469	0.000791	U	mg/kg	08.09.19 19.15	1
Heptachlor Epoxide	1024-57-3	0.000345 U	0.00469	0.000345	U	mg/kg	08.09.19 19.15	1
Methoxychlor	72-43-5	0.000713 U	0.00469	0.000713	U	mg/kg	08.09.19 19.15	1
Chlordane	12789-03-6	0.0336 U	0.117	0.0336	U	mg/kg	08.09.19 19.15	1
Toxaphene	8001-35-2	0.0159 U	0.117	0.0159	U	mg/kg	08.09.19 19.15	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	37	%	35-135	08.09.19 19.15	
Decachlorobiphenyl	2051-24-3	56	%	25-143	08.09.19 19.15	

Certificate of Analytical Results 632582

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-22 (0-6'')** Matrix: Soil Date Received:07.31.19 12.10

Lab Sample Id: 632582-015 Date Collected: 07.30.19 11.39 Sample Depth: 0 - 0.5 ft

Analytical Method: SPLP Ammonia By EPA 350.1 Prep Method: E350.1P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.07.19 13.00

Seq Number: 3097801 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Ammonia (as N)	7664-41-7	**0.0707**	0.100	0.0345	I	mg/L	08.07.19 16.35	1

Analytical Method: SPLP Nitrate-Nitrite by E353.2 Prep Method: E353.2P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.07.19 16.30

Seq Number: 3097830 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Nitrate-Nitrite	7727-37-9	**0.250**	0.100	0.0283		mg/L	08.07.19 20.53	1

Certificate of Analytical Results 632582

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id:	**CS-22 (6"-24")**	Matrix:	Soil	Date Received:	07.31.19 12.10
Lab Sample Id:	632582-016	Date Collected:	07.30.19 11.39	Sample Depth:	0.5 - 2 ft
Analytical Method:	Metals, Total by SW846 6010C			Prep Method:	SW3050B
Tech:	PJB			% Moisture:	24.15
Analyst:	DEP	Date Prep:	08.05.19 13.20	Basis:	Dry Weight
Seq Number:	3097619			SUB:	E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Arsenic	7440-38-2	**4.88**	2.54	0.537		mg/kg	08.05.19 23.56	1
Chromium	7440-47-3	**7.99**	1.27	0.0892		mg/kg	08.05.19 23.56	1
Copper	7440-50-8	**9.41**	2.54	0.562		mg/kg	08.05.19 23.56	1
Iron	7439-89-6	**775**	25.4	3.42		mg/kg	08.05.19 23.56	1
Lead	7439-92-1	**2.60**	2.54	0.603		mg/kg	08.05.19 23.56	1
Manganese	7439-96-5	**74.6**	2.54	0.352		mg/kg	08.05.19 23.56	1

Certificate of Analytical Results 632582

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-22 (6"-24")** Matrix: Soil Date Received:07.31.19 12.10

Lab Sample Id: 632582-016 Date Collected: 07.30.19 11.39 Sample Depth: 0.5 - 2 ft

Analytical Method: EPA 8141 Organophosphorus Pesticides by GC Prep Method: SW3550

Tech: BNS % Moisture:

Analyst: CHD Date Prep: 08.07.19 10.10 Basis: Wet Weight

Seq Number: 3097841 SUB: E871146

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
azinphos-methyl	86-50-0	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 02.02	1
Chlorpyrifos	2921-88-2	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 02.02	1
Coumaphos	56-72-4	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 02.02	1
Demeton-O	298-03-3	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 02.02	1
Demeton-S	126-75-0	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 02.02	1
Diazinon	333-41-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 02.02	1
Dimethoate	60-51-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 02.02	1
EPN (Ent)	2104-64-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 02.02	1
Ethoprop	13194-48-4	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 02.02	1
Famphur	52-85-7	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 02.02	1
Fenthion	55-38-9	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 02.02	1
Malathion	121-75-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 02.02	1
Merphos	150-50-5	0.00167 U	0.00333	0.00167	UJ	mg/kg	08.08.19 02.02	1
Mevinphos	7786-34-7	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 02.02	1
Monocrotophos	2157-98-4	0.00167 U	0.00333	0.00167	UJ	mg/kg	08.08.19 02.02	1
Naled	300-76-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 02.02	1
Parathion, Ethyl	56-38-2	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 02.02	1
Parathion, Methyl	298-00-0	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 02.02	1
Phorate	298-02-2	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 02.02	1
Ronnel	299-84-3	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 02.02	1
stirophos	22248-79-9	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 02.02	1
Sulfotep	3689-24-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 02.02	1
Sulprofos	35400-43-2	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 02.02	1
TEPP	21646-99-1	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 02.02	1
Tokuthion	34643-46-4	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 02.02	1
Trichloronate	327-98-0	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 02.02	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tributyl Phosphate	126-73-8	85	%	38-123	08.08.19 02.02	

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Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-22 (6"-24")**
Lab Sample Id: 632582-016

Matrix: Soil
Date Collected: 07.30.19 11.39

Date Received: 07.31.19 12.10
Sample Depth: 0.5 - 2 ft

Analytical Method: Pesticides by SW-846 8081B
Tech: JSE
Analyst: VIC
Seq Number: 3098123

Date Prep: 08.08.19 12.00

Prep Method: SW3550
% Moisture: 24.15
Basis: Dry Weight
SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
4,4-DDD	72-54-8	0.00102 U	0.00439	0.00102	U	mg/kg	08.09.19 19.29	1
4,4-DDE	72-55-9	0.00220 U	0.00439	0.00220	U	mg/kg	08.09.19 19.29	1
4,4-DDT	50-29-3	**0.000396**	0.00439	0.000335	I	mg/kg	08.09.19 19.29	1
Aldrin	309-00-2	0.000478 U	0.00439	0.000478	U	mg/kg	08.09.19 19.29	1
Alpha-BHC	319-84-6	0.000897 U	0.00439	0.000897	U	mg/kg	08.09.19 19.29	1
Alpha-Chlordane	5103-71-9	0.000752 U	0.00439	0.000752	U	mg/kg	08.09.19 19.29	1
Beta-BHC	319-85-7	0.000625 U	0.00439	0.000625	U	mg/kg	08.09.19 19.29	1
Delta-BHC	319-86-8	0.00220 U	0.00439	0.00220	U	mg/kg	08.09.19 19.29	1
Dieldrin	60-57-1	0.000223 U	0.00439	0.000223	U	mg/kg	08.09.19 19.29	1
Endosulfan I	959-98-8	0.000266 U	0.00439	0.000266	U	mg/kg	08.09.19 19.29	1
Endosulfan II	33213-65-9	0.000491 U	0.00439	0.000491	U	mg/kg	08.09.19 19.29	1
Endosulfan Sulfate	1031-07-8	0.000364 U	0.00439	0.000364	U	mg/kg	08.09.19 19.29	1
Endrin	72-20-8	0.000383 U	0.00439	0.000383	U	mg/kg	08.09.19 19.29	1
Endrin Aldehyde	7421-93-4	0.000326 U	0.00439	0.000326	U	mg/kg	08.09.19 19.29	1
Endrin Ketone	53494-70-5	0.000476 U	0.00439	0.000476	U	mg/kg	08.09.19 19.29	1
Gamma-BHC (Lindane)	58-89-9	0.000578 U	0.00439	0.000578	U	mg/kg	08.09.19 19.29	1
Gamma-Chlordane	5103-74-2	0.00101 U	0.00439	0.00101	U	mg/kg	08.09.19 19.29	1
Heptachlor	76-44-8	0.000741 U	0.00439	0.000741	U	mg/kg	08.09.19 19.29	1
Heptachlor Epoxide	1024-57-3	0.000323 U	0.00439	0.000323	U	mg/kg	08.09.19 19.29	1
Methoxychlor	72-43-5	0.000668 U	0.00439	0.000668	U	mg/kg	08.09.19 19.29	1
Chlordane	12789-03-6	0.0315 U	0.110	0.0315	U	mg/kg	08.09.19 19.29	1
Toxaphene	8001-35-2	0.0149 U	0.110	0.0149	U	mg/kg	08.09.19 19.29	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	60	%	35-135	08.09.19 19.29	
Decachlorobiphenyl	2051-24-3	63	%	25-143	08.09.19 19.29	

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Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-22 (6"-24")** Matrix: Soil Date Received:07.31.19 12.10

Lab Sample Id: 632582-016 Date Collected: 07.30.19 11.39 Sample Depth: 0.5 - 2 ft

Analytical Method: SPLP Ammonia By EPA 350.1 Prep Method: E350.1P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.07.19 13.00

Seq Number: 3097801 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Ammonia (as N)	7664-41-7	0.0345 U	0.100	0.0345	U	mg/L	08.07.19 16.36	1

Analytical Method: SPLP Nitrate-Nitrite by E353.2 Prep Method: E353.2P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.07.19 16.30

Seq Number: 3097830 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Nitrate-Nitrite	7727-37-9	**0.0805**	0.100	0.0283	I	mg/L	08.07.19 20.54	1

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Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id:	**CS-23 (0-6")**	Matrix:	Soil	Date Received:	07.31.19 12.10
Lab Sample Id:	632582-017	Date Collected:	07.30.19 12.56	Sample Depth:	0 - 0.5 ft
Analytical Method:	Metals, Total by SW846 6010C			Prep Method:	SW3050B
Tech:	PJB			% Moisture:	32.08
Analyst:	DEP	Date Prep:	08.05.19 13.20	Basis:	Dry Weight
Seq Number:	3097619			SUB:	E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Arsenic	7440-38-2	**11.2**	2.89	0.612		mg/kg	08.06.19 00.00	1
Chromium	7440-47-3	**6.26**	1.44	0.102		mg/kg	08.06.19 00.00	1
Copper	7440-50-8	**23.7**	2.89	0.640		mg/kg	08.06.19 00.00	1
Iron	7439-89-6	**1110**	28.9	3.89		mg/kg	08.06.19 00.00	1
Lead	7439-92-1	**6.61**	2.89	0.687		mg/kg	08.06.19 00.00	1
Manganese	7439-96-5	**179**	2.89	0.401		mg/kg	08.06.19 00.00	1

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Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-23 (0-6")** Matrix: Soil Date Received:07.31.19 12.10

Lab Sample Id: 632582-017 Date Collected: 07.30.19 12.56 Sample Depth: 0 - 0.5 ft

Analytical Method: EPA 8141 Organophosphorus Pesticides by GC Prep Method: SW3550

Tech: BNS % Moisture:

Analyst: CHD Date Prep: 08.07.19 10.10 Basis: Wet Weight

Seq Number: 3097841 SUB: E871146

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
azinphos-methyl	86-50-0	0.00166 U	0.00331	0.00166	U	mg/kg	08.08.19 09.10	1
Chlorpyrifos	2921-88-2	0.00166 U	0.00331	0.00166	U	mg/kg	08.08.19 09.10	1
Coumaphos	56-72-4	0.00166 U	0.00331	0.00166	U	mg/kg	08.08.19 09.10	1
Demeton-O	298-03-3	0.00166 U	0.00331	0.00166	U	mg/kg	08.08.19 09.10	1
Demeton-S	126-75-0	0.00166 U	0.00331	0.00166	U	mg/kg	08.08.19 09.10	1
Diazinon	333-41-5	0.00166 U	0.00331	0.00166	U	mg/kg	08.08.19 09.10	1
Dimethoate	60-51-5	0.00166 U	0.00331	0.00166	U	mg/kg	08.08.19 09.10	1
EPN (Ent)	2104-64-5	0.00166 U	0.00331	0.00166	U	mg/kg	08.08.19 09.10	1
Ethoprop	13194-48-4	0.00166 U	0.00331	0.00166	U	mg/kg	08.08.19 09.10	1
Famphur	52-85-7	0.00166 U	0.00331	0.00166	U	mg/kg	08.08.19 09.10	1
Fenthion	55-38-9	0.00166 U	0.00331	0.00166	U	mg/kg	08.08.19 09.10	1
Malathion	121-75-5	0.00166 U	0.00331	0.00166	U	mg/kg	08.08.19 09.10	1
Merphos	150-50-5	0.00166 U	0.00331	0.00166	UJ	mg/kg	08.08.19 09.10	1
Mevinphos	7786-34-7	0.00166 U	0.00331	0.00166	U	mg/kg	08.08.19 09.10	1
Monocrotophos	2157-98-4	0.00166 U	0.00331	0.00166	UJ	mg/kg	08.08.19 09.10	1
Naled	300-76-5	0.00166 U	0.00331	0.00166	U	mg/kg	08.08.19 09.10	1
Parathion, Ethyl	56-38-2	0.00166 U	0.00331	0.00166	U	mg/kg	08.08.19 09.10	1
Parathion, Methyl	298-00-0	0.00166 U	0.00331	0.00166	U	mg/kg	08.08.19 09.10	1
Phorate	298-02-2	0.00166 U	0.00331	0.00166	U	mg/kg	08.08.19 09.10	1
Ronnel	299-84-3	0.00166 U	0.00331	0.00166	U	mg/kg	08.08.19 09.10	1
stirophos	22248-79-9	0.00166 U	0.00331	0.00166	U	mg/kg	08.08.19 09.10	1
Sulfotep	3689-24-5	0.00166 U	0.00331	0.00166	U	mg/kg	08.08.19 09.10	1
Sulprofos	35400-43-2	0.00166 U	0.00331	0.00166	U	mg/kg	08.08.19 09.10	1
TEPP	21646-99-1	0.00166 U	0.00331	0.00166	U	mg/kg	08.08.19 09.10	1
Tokuthion	34643-46-4	0.00166 U	0.00331	0.00166	U	mg/kg	08.08.19 09.10	1
Trichloronate	327-98-0	0.00166 U	0.00331	0.00166	U	mg/kg	08.08.19 09.10	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tributyl Phosphate	126-73-8	93	%	38-123	08.08.19 09.10	

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Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-23 (0-6")**
Lab Sample Id: 632582-017

Matrix: Soil
Date Collected: 07.30.19 12.56

Date Received: 07.31.19 12.10
Sample Depth: 0 - 0.5 ft

Analytical Method: Pesticides by SW-846 8081B
Tech: JSE
Analyst: VIC
Seq Number: 3098123

Date Prep: 08.08.19 12.03

Prep Method: SW3550
% Moisture: 32.08
Basis: Dry Weight
SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
4,4-DDD	72-54-8	0.00114 U	0.00491	0.00114	U	mg/kg	08.09.19 19.43	1
4,4-DDE	72-55-9	0.00245 U	0.00491	0.00245	U	mg/kg	08.09.19 19.43	1
4,4-DDT	50-29-3	**0.000773**	0.00491	0.000374	I	mg/kg	08.09.19 19.43	1
Aldrin	309-00-2	0.000534 U	0.00491	0.000534	U	mg/kg	08.09.19 19.43	1
Alpha-BHC	319-84-6	0.00100 U	0.00491	0.00100	U	mg/kg	08.09.19 19.43	1
Alpha-Chlordane	5103-71-9	0.000840 U	0.00491	0.000840	U	mg/kg	08.09.19 19.43	1
Beta-BHC	319-85-7	0.000697 U	0.00491	0.000697	U	mg/kg	08.09.19 19.43	1
Delta-BHC	319-86-8	0.00245 U	0.00491	0.00245	U	mg/kg	08.09.19 19.43	1
Dieldrin	60-57-1	0.000249 U	0.00491	0.000249	U	mg/kg	08.09.19 19.43	1
Endosulfan I	959-98-8	0.000297 U	0.00491	0.000297	U	mg/kg	08.09.19 19.43	1
Endosulfan II	33213-65-9	0.000548 U	0.00491	0.000548	U	mg/kg	08.09.19 19.43	1
Endosulfan Sulfate	1031-07-8	0.000406 U	0.00491	0.000406	U	mg/kg	08.09.19 19.43	1
Endrin	72-20-8	0.000428 U	0.00491	0.000428	U	mg/kg	08.09.19 19.43	1
Endrin Aldehyde	7421-93-4	0.000364 U	0.00491	0.000364	U	mg/kg	08.09.19 19.43	1
Endrin Ketone	53494-70-5	0.000531 U	0.00491	0.000531	U	mg/kg	08.09.19 19.43	1
Gamma-BHC (Lindane)	58-89-9	0.000646 U	0.00491	0.000646	U	mg/kg	08.09.19 19.43	1
Gamma-Chlordane	5103-74-2	0.00112 U	0.00491	0.00112	U	mg/kg	08.09.19 19.43	1
Heptachlor	76-44-8	0.000827 U	0.00491	0.000827	U	mg/kg	08.09.19 19.43	1
Heptachlor Epoxide	1024-57-3	0.000360 U	0.00491	0.000360	U	mg/kg	08.09.19 19.43	1
Methoxychlor	72-43-5	0.000746 U	0.00491	0.000746	U	mg/kg	08.09.19 19.43	1
Chlordane	12789-03-6	0.0352 U	0.123	0.0352	U	mg/kg	08.09.19 19.43	1
Toxaphene	8001-35-2	0.0167 U	0.123	0.0167	U	mg/kg	08.09.19 19.43	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	38	%	35-135	08.09.19 19.43	
Decachlorobiphenyl	2051-24-3	56	%	25-143	08.09.19 19.43	

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Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-23 (0-6'')** Matrix: Soil Date Received:07.31.19 12.10

Lab Sample Id: 632582-017 Date Collected: 07.30.19 12.56 Sample Depth: 0 - 0.5 ft

Analytical Method: SPLP Ammonia By EPA 350.1 Prep Method: E350.1P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.07.19 13.00

Seq Number: 3097801 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Ammonia (as N)	7664-41-7	**0.136**	0.100	0.0345		mg/L	08.07.19 16.39	1

Analytical Method: SPLP Nitrate-Nitrite by E353.2 Prep Method: E353.2P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.07.19 16.30

Seq Number: 3097830 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Nitrate-Nitrite	7727-37-9	**0.226**	0.100	0.0283		mg/L	08.07.19 20.56	1

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Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id:	**CS-23 (6"-24")**	Matrix:	Soil	Date Received:	07.31.19 12.10
Lab Sample Id:	632582-018	Date Collected:	07.30.19 12.56	Sample Depth:	0.5 - 2 ft
Analytical Method:	Metals, Total by SW846 6010C			Prep Method:	SW3050B
Tech:	PJB			% Moisture:	27.73
Analyst:	DEP	Date Prep:	08.06.19 09.50	Basis:	Dry Weight
Seq Number:	3097748			SUB:	E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Arsenic	7440-38-2	**9.39**	2.71	0.575		mg/kg	08.06.19 18.18	1
Chromium	7440-47-3	**2.74**	1.36	0.0955		mg/kg	08.06.19 18.18	1
Copper	7440-50-8	0.601 U	2.71	0.601	U	mg/kg	08.06.19 18.18	1
Iron	7439-89-6	**666**	27.1	3.66		mg/kg	08.06.19 18.18	1
Lead	7439-92-1	0.645 U	2.71	0.645	U	mg/kg	08.06.19 18.18	1
Manganese	7439-96-5	**21.0**	2.71	0.376		mg/kg	08.06.19 18.18	1

Certificate of Analytical Results 632582

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-23 (6"-24")** Matrix: Soil Date Received:07.31.19 12.10

Lab Sample Id: 632582-018 Date Collected: 07.30.19 12.56 Sample Depth: 0.5 - 2 ft

Analytical Method: EPA 8141 Organophosphorus Pesticides by GC Prep Method: SW3550

Tech: BNS % Moisture:

Analyst: CHD Date Prep: 08.07.19 10.10 Basis: Wet Weight

Seq Number: 3097841 SUB: E871146

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
azinphos-methyl	86-50-0	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 09.42	1
Chlorpyrifos	2921-88-2	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 09.42	1
Coumaphos	56-72-4	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 09.42	1
Demeton-O	298-03-3	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 09.42	1
Demeton-S	126-75-0	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 09.42	1
Diazinon	333-41-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 09.42	1
Dimethoate	60-51-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 09.42	1
EPN (Ent)	2104-64-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 09.42	1
Ethoprop	13194-48-4	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 09.42	1
Famphur	52-85-7	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 09.42	1
Fenthion	55-38-9	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 09.42	1
Malathion	121-75-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 09.42	1
Merphos	150-50-5	0.00167 U	0.00333	0.00167	UJ	mg/kg	08.08.19 09.42	1
Mevinphos	7786-34-7	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 09.42	1
Monocrotophos	2157-98-4	0.00167 U	0.00333	0.00167	UJ	mg/kg	08.08.19 09.42	1
Naled	300-76-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 09.42	1
Parathion, Ethyl	56-38-2	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 09.42	1
Parathion, Methyl	298-00-0	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 09.42	1
Phorate	298-02-2	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 09.42	1
Ronnel	299-84-3	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 09.42	1
stirophos	22248-79-9	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 09.42	1
Sulfotep	3689-24-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 09.42	1
Sulprofos	35400-43-2	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 09.42	1
TEPP	21646-99-1	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 09.42	1
Tokuthion	34643-46-4	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 09.42	1
Trichloronate	327-98-0	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 09.42	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tributyl Phosphate	126-73-8	102	%	38-123	08.08.19 09.42	

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Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-23 (6"-24")**
Lab Sample Id: 632582-018

Matrix: Soil
Date Collected: 07.30.19 12.56

Date Received: 07.31.19 12.10
Sample Depth: 0.5 - 2 ft

Analytical Method: Pesticides by SW-846 8081B
Tech: JSE
Analyst: VIC
Seq Number: 3098123

Date Prep: 08.08.19 12.06

Prep Method: SW3550
% Moisture: 27.73
Basis: Dry Weight
SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
4,4-DDD	72-54-8	0.00107 U	0.00462	0.00107	U	mg/kg	08.09.19 19.56	1
4,4-DDE	72-55-9	0.00231 U	0.00462	0.00231	U	mg/kg	08.09.19 19.56	1
4,4-DDT	50-29-3	0.000352 U	0.00462	0.000352	U	mg/kg	08.09.19 19.56	1
Aldrin	309-00-2	0.000502 U	0.00462	0.000502	U	mg/kg	08.09.19 19.56	1
Alpha-BHC	319-84-6	0.000942 U	0.00462	0.000942	U	mg/kg	08.09.19 19.56	1
Alpha-Chlordane	5103-71-9	0.000790 U	0.00462	0.000790	U	mg/kg	08.09.19 19.56	1
Beta-BHC	319-85-7	0.000656 U	0.00462	0.000656	U	mg/kg	08.09.19 19.56	1
Delta-BHC	319-86-8	0.00231 U	0.00462	0.00231	U	mg/kg	08.09.19 19.56	1
Dieldrin	60-57-1	0.000235 U	0.00462	0.000235	U	mg/kg	08.09.19 19.56	1
Endosulfan I	959-98-8	0.000280 U	0.00462	0.000280	U	mg/kg	08.09.19 19.56	1
Endosulfan II	33213-65-9	0.000516 U	0.00462	0.000516	U	mg/kg	08.09.19 19.56	1
Endosulfan Sulfate	1031-07-8	0.000382 U	0.00462	0.000382	U	mg/kg	08.09.19 19.56	1
Endrin	72-20-8	0.000403 U	0.00462	0.000403	U	mg/kg	08.09.19 19.56	1
Endrin Aldehyde	7421-93-4	0.000343 U	0.00462	0.000343	U	mg/kg	08.09.19 19.56	1
Endrin Ketone	53494-70-5	0.000500 U	0.00462	0.000500	U	mg/kg	08.09.19 19.56	1
Gamma-BHC (Lindane)	58-89-9	0.000608 U	0.00462	0.000608	U	mg/kg	08.09.19 19.56	1
Gamma-Chlordane	5103-74-2	0.00106 U	0.00462	0.00106	U	mg/kg	08.09.19 19.56	1
Heptachlor	76-44-8	0.000779 U	0.00462	0.000779	U	mg/kg	08.09.19 19.56	1
Heptachlor Epoxide	1024-57-3	0.000339 U	0.00462	0.000339	U	mg/kg	08.09.19 19.56	1
Methoxychlor	72-43-5	0.000702 U	0.00462	0.000702	U	mg/kg	08.09.19 19.56	1
Chlordane	12789-03-6	0.0331 U	0.115	0.0331	U	mg/kg	08.09.19 19.56	1
Toxaphene	8001-35-2	0.0157 U	0.115	0.0157	U	mg/kg	08.09.19 19.56	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	35	%	35-135	08.09.19 19.56	
Decachlorobiphenyl	2051-24-3	56	%	25-143	08.09.19 19.56	

Certificate of Analytical Results 632582

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-23 (6"-24")** Matrix: Soil Date Received:07.31.19 12.10

Lab Sample Id: 632582-018 Date Collected: 07.30.19 12.56 Sample Depth: 0.5 - 2 ft

Analytical Method: SPLP Ammonia By EPA 350.1 Prep Method: E350.1P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.07.19 13.00

Seq Number: 3097801 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Ammonia (as N)	7664-41-7	0.0345 U	0.100	0.0345	U	mg/L	08.07.19 16.40	1

Analytical Method: SPLP Nitrate-Nitrite by E353.2 Prep Method: E353.2P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.07.19 16.30

Seq Number: 3097830 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Nitrate-Nitrite	7727-37-9	**0.0486**	0.100	0.0283	I	mg/L	08.07.19 20.58	1

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Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-24 (0-6'')**
Lab Sample Id: 632582-019

Matrix: Soil
Date Collected: 07.30.19 13.24

Date Received: 07.31.19 12.10
Sample Depth: 0 - 0.5 ft

Analytical Method: Metals, Total by SW846 6010C
Tech: PJB
Analyst: DEP
Seq Number: 3097748

Date Prep: 08.06.19 09.50

Prep Method: SW3050B
% Moisture: 32.94
Basis: Dry Weight
SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Arsenic	7440-38-2	**33.4**	2.81	0.596		mg/kg	08.06.19 18.48	1
Chromium	7440-47-3	**16.4**	1.41	0.0990		mg/kg	08.06.19 18.48	1
Copper	7440-50-8	**36.0**	2.81	0.623		mg/kg	08.06.19 18.48	1
Iron	7439-89-6	**1640**	28.1	3.79		mg/kg	08.06.19 18.48	1
Lead	7439-92-1	**2.34**	2.81	0.669	I	mg/kg	08.06.19 18.48	1
Manganese	7439-96-5	**249**	2.81	0.390		mg/kg	08.06.19 18.48	1

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Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-24 (0-6")** Matrix: Soil Date Received:07.31.19 12.10

Lab Sample Id: 632582-019 Date Collected: 07.30.19 13.24 Sample Depth: 0 - 0.5 ft

Analytical Method: EPA 8141 Organophosphorus Pesticides by GC Prep Method: SW3550

Tech: BNS % Moisture:

Analyst: CHD Date Prep: 08.07.19 10.10 Basis: Wet Weight

Seq Number: 3097841 SUB: E871146

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
azinphos-methyl	86-50-0	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 10.13	1
Chlorpyrifos	2921-88-2	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 10.13	1
Coumaphos	56-72-4	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 10.13	1
Demeton-O	298-03-3	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 10.13	1
Demeton-S	126-75-0	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 10.13	1
Diazinon	333-41-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 10.13	1
Dimethoate	60-51-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 10.13	1
EPN (Ent)	2104-64-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 10.13	1
Ethoprop	13194-48-4	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 10.13	1
Famphur	52-85-7	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 10.13	1
Fenthion	55-38-9	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 10.13	1
Malathion	121-75-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 10.13	1
Merphos	150-50-5	0.00167 U	0.00333	0.00167	UJ	mg/kg	08.08.19 10.13	1
Mevinphos	7786-34-7	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 10.13	1
Monocrotophos	2157-98-4	0.00167 U	0.00333	0.00167	UJ	mg/kg	08.08.19 10.13	1
Naled	300-76-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 10.13	1
Parathion, Ethyl	56-38-2	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 10.13	1
Parathion, Methyl	298-00-0	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 10.13	1
Phorate	298-02-2	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 10.13	1
Ronnel	299-84-3	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 10.13	1
stirophos	22248-79-9	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 10.13	1
Sulfotep	3689-24-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 10.13	1
Sulprofos	35400-43-2	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 10.13	1
TEPP	21646-99-1	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 10.13	1
Tokuthion	34643-46-4	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 10.13	1
Trichloronate	327-98-0	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 10.13	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tributyl Phosphate	126-73-8	99	%	38-123	08.08.19 10.13	

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Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-24 (0-6")**
Lab Sample Id: 632582-019

Matrix: Soil
Date Collected: 07.30.19 13.24

Date Received: 07.31.19 12.10
Sample Depth: 0 - 0.5 ft

Analytical Method: Pesticides by SW-846 8081B
Tech: JSE
Analyst: VIC
Seq Number: 3098123

Date Prep: 08.08.19 12.09

Prep Method: SW3550
% Moisture: 32.94
Basis: Dry Weight
SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
4,4-DDD	72-54-8	0.00115 U	0.00497	0.00115	U	mg/kg	08.09.19 20.10	1
4,4-DDE	72-55-9	0.00249 U	0.00497	0.00249	U	mg/kg	08.09.19 20.10	1
4,4-DDT	50-29-3	**0.000952**	0.00497	0.000379	I	mg/kg	08.09.19 20.10	1
Aldrin	309-00-2	0.000541 U	0.00497	0.000541	U	mg/kg	08.09.19 20.10	1
Alpha-BHC	319-84-6	0.00101 U	0.00497	0.00101	U	mg/kg	08.09.19 20.10	1
Alpha-Chlordane	5103-71-9	0.000851 U	0.00497	0.000851	U	mg/kg	08.09.19 20.10	1
Beta-BHC	319-85-7	0.000707 U	0.00497	0.000707	U	mg/kg	08.09.19 20.10	1
Delta-BHC	319-86-8	0.00249 U	0.00497	0.00249	U	mg/kg	08.09.19 20.10	1
Dieldrin	60-57-1	0.000253 U	0.00497	0.000253	U	mg/kg	08.09.19 20.10	1
Endosulfan I	959-98-8	0.000301 U	0.00497	0.000301	U	mg/kg	08.09.19 20.10	1
Endosulfan II	33213-65-9	0.000555 U	0.00497	0.000555	U	mg/kg	08.09.19 20.10	1
Endosulfan Sulfate	1031-07-8	0.000411 U	0.00497	0.000411	U	mg/kg	08.09.19 20.10	1
Endrin	72-20-8	0.000434 U	0.00497	0.000434	U	mg/kg	08.09.19 20.10	1
Endrin Aldehyde	7421-93-4	0.000369 U	0.00497	0.000369	U	mg/kg	08.09.19 20.10	1
Endrin Ketone	53494-70-5	0.000538 U	0.00497	0.000538	U	mg/kg	08.09.19 20.10	1
Gamma-BHC (Lindane)	58-89-9	0.000654 U	0.00497	0.000654	U	mg/kg	08.09.19 20.10	1
Gamma-Chlordane	5103-74-2	0.00114 U	0.00497	0.00114	U	mg/kg	08.09.19 20.10	1
Heptachlor	76-44-8	0.000839 U	0.00497	0.000839	U	mg/kg	08.09.19 20.10	1
Heptachlor Epoxide	1024-57-3	0.000365 U	0.00497	0.000365	U	mg/kg	08.09.19 20.10	1
Methoxychlor	72-43-5	0.000756 U	0.00497	0.000756	U	mg/kg	08.09.19 20.10	1
Chlordane	12789-03-6	0.0357 U	0.124	0.0357	U	mg/kg	08.09.19 20.10	1
Toxaphene	8001-35-2	0.0169 U	0.124	0.0169	U	mg/kg	08.09.19 20.10	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	46	%	35-135	08.09.19 20.10	
Decachlorobiphenyl	2051-24-3	64	%	25-143	08.09.19 20.10	

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Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-24 (0-6'')** Matrix: Soil Date Received:07.31.19 12.10

Lab Sample Id: 632582-019 Date Collected: 07.30.19 13.24 Sample Depth: 0 - 0.5 ft

Analytical Method: SPLP Ammonia By EPA 350.1 Prep Method: E350.1P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.07.19 13.00

Seq Number: 3097801 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Ammonia (as N)	7664-41-7	**0.0849**	0.100	0.0345	I	mg/L	08.07.19 16.41	1

Analytical Method: SPLP Nitrate-Nitrite by E353.2 Prep Method: E353.2P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.07.19 16.30

Seq Number: 3097830 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Nitrate-Nitrite	7727-37-9	**0.267**	0.100	0.0283		mg/L	08.07.19 20.59	1

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Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id:	**CS-24 (6"-24")**	Matrix:	Soil	Date Received:	07.31.19 12.10
Lab Sample Id:	632582-020	Date Collected:	07.30.19 13.24	Sample Depth:	0.5 - 2 ft
Analytical Method:	Metals, Total by SW846 6010C			Prep Method:	SW3050B
Tech:	PJB			% Moisture:	28.02
Analyst:	DEP	Date Prep:	08.06.19 09.50	Basis:	Dry Weight
Seq Number:	3097748			SUB:	E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Arsenic	7440-38-2	**12.8**	2.72	0.577		mg/kg	08.06.19 18.52	1
Chromium	7440-47-3	**3.89**	1.36	0.0959		mg/kg	08.06.19 18.52	1
Copper	7440-50-8	**1.97**	2.72	0.603	I	mg/kg	08.06.19 18.52	1
Iron	7439-89-6	**1110**	27.2	3.67		mg/kg	08.06.19 18.52	1
Lead	7439-92-1	0.648 U	2.72	0.648	U	mg/kg	08.06.19 18.52	1
Manganese	7439-96-5	**64.5**	2.72	0.378		mg/kg	08.06.19 18.52	1

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Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-24 (6"-24")** Matrix: Soil Date Received:07.31.19 12.10

Lab Sample Id: 632582-020 Date Collected: 07.30.19 13.24 Sample Depth: 0.5 - 2 ft

Analytical Method: EPA 8141 Organophosphorus Pesticides by GC Prep Method: SW3550

Tech: BNS % Moisture:

Analyst: CHD Date Prep: 08.07.19 10.10 Basis: Wet Weight

Seq Number: 3097841 SUB: E871146

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
azinphos-methyl	86-50-0	0.00166 U	0.00331	0.00166	U	mg/kg	08.08.19 11.58	1
Chlorpyrifos	2921-88-2	0.00166 U	0.00331	0.00166	U	mg/kg	08.08.19 11.58	1
Coumaphos	56-72-4	0.00166 U	0.00331	0.00166	U	mg/kg	08.08.19 11.58	1
Demeton-O	298-03-3	0.00166 U	0.00331	0.00166	U	mg/kg	08.08.19 11.58	1
Demeton-S	126-75-0	0.00166 U	0.00331	0.00166	U	mg/kg	08.08.19 11.58	1
Diazinon	333-41-5	0.00166 U	0.00331	0.00166	U	mg/kg	08.08.19 11.58	1
Dimethoate	60-51-5	0.00166 U	0.00331	0.00166	U	mg/kg	08.08.19 11.58	1
EPN (Ent)	2104-64-5	0.00166 U	0.00331	0.00166	U	mg/kg	08.08.19 11.58	1
Ethoprop	13194-48-4	0.00166 U	0.00331	0.00166	U	mg/kg	08.08.19 11.58	1
Famphur	52-85-7	0.00166 U	0.00331	0.00166	U	mg/kg	08.08.19 11.58	1
Fenthion	55-38-9	0.00166 U	0.00331	0.00166	U	mg/kg	08.08.19 11.58	1
Malathion	121-75-5	0.00166 U	0.00331	0.00166	U	mg/kg	08.08.19 11.58	1
Merphos	150-50-5	0.00166 U	0.00331	0.00166	UJ	mg/kg	08.08.19 11.58	1
Mevinphos	7786-34-7	0.00166 U	0.00331	0.00166	U	mg/kg	08.08.19 11.58	1
Monocrotophos	2157-98-4	0.00166 U	0.00331	0.00166	UJ	mg/kg	08.08.19 11.58	1
Naled	300-76-5	0.00166 U	0.00331	0.00166	U	mg/kg	08.08.19 11.58	1
Parathion, Ethyl	56-38-2	0.00166 U	0.00331	0.00166	U	mg/kg	08.08.19 11.58	1
Parathion, Methyl	298-00-0	0.00166 U	0.00331	0.00166	U	mg/kg	08.08.19 11.58	1
Phorate	298-02-2	0.00166 U	0.00331	0.00166	U	mg/kg	08.08.19 11.58	1
Ronnel	299-84-3	0.00166 U	0.00331	0.00166	U	mg/kg	08.08.19 11.58	1
stirophos	22248-79-9	0.00166 U	0.00331	0.00166	U	mg/kg	08.08.19 11.58	1
Sulfotep	3689-24-5	0.00166 U	0.00331	0.00166	U	mg/kg	08.08.19 11.58	1
Sulprofos	35400-43-2	0.00166 U	0.00331	0.00166	U	mg/kg	08.08.19 11.58	1
TEPP	21646-99-1	0.00166 U	0.00331	0.00166	U	mg/kg	08.08.19 11.58	1
Tokuthion	34643-46-4	0.00166 U	0.00331	0.00166	U	mg/kg	08.08.19 11.58	1
Trichloronate	327-98-0	0.00166 U	0.00331	0.00166	U	mg/kg	08.08.19 11.58	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tributyl Phosphate	126-73-8	103	%	38-123	08.08.19 11.58	

Certificate of Analytical Results 632582

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-24 (6"-24")**
Lab Sample Id: 632582-020

Matrix: Soil
Date Collected: 07.30.19 13.24

Date Received: 07.31.19 12.10
Sample Depth: 0.5 - 2 ft

Analytical Method: Pesticides by SW-846 8081B
Tech: JSE
Analyst: VIC
Seq Number: 3098123

Date Prep: 08.08.19 12.12

Prep Method: SW3550
% Moisture: 28.02
Basis: Dry Weight
SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
4,4-DDD	72-54-8	0.00107 U	0.00462	0.00107	U	mg/kg	08.09.19 20.24	1
4,4-DDE	72-55-9	**0.00396**	0.00462	0.00231	I	mg/kg	08.09.19 20.24	1
4,4-DDT	50-29-3	**0.00188**	0.00462	0.000352	I	mg/kg	08.09.19 20.24	1
Aldrin	309-00-2	0.000503 U	0.00462	0.000503	U	mg/kg	08.09.19 20.24	1
Alpha-BHC	319-84-6	0.000943 U	0.00462	0.000943	U	mg/kg	08.09.19 20.24	1
Alpha-Chlordane	5103-71-9	0.000791 U	0.00462	0.000791	U	mg/kg	08.09.19 20.24	1
Beta-BHC	319-85-7	0.000657 U	0.00462	0.000657	U	mg/kg	08.09.19 20.24	1
Delta-BHC	319-86-8	0.00231 U	0.00462	0.00231	U	mg/kg	08.09.19 20.24	1
Dieldrin	60-57-1	0.000235 U	0.00462	0.000235	U	mg/kg	08.09.19 20.24	1
Endosulfan I	959-98-8	0.000280 U	0.00462	0.000280	U	mg/kg	08.09.19 20.24	1
Endosulfan II	33213-65-9	0.000516 U	0.00462	0.000516	U	mg/kg	08.09.19 20.24	1
Endosulfan Sulfate	1031-07-8	0.000382 U	0.00462	0.000382	U	mg/kg	08.09.19 20.24	1
Endrin	72-20-8	0.000403 U	0.00462	0.000403	U	mg/kg	08.09.19 20.24	1
Endrin Aldehyde	7421-93-4	0.000343 U	0.00462	0.000343	U	mg/kg	08.09.19 20.24	1
Endrin Ketone	53494-70-5	0.000500 U	0.00462	0.000500	U	mg/kg	08.09.19 20.24	1
Gamma-BHC (Lindane)	58-89-9	0.000608 U	0.00462	0.000608	U	mg/kg	08.09.19 20.24	1
Gamma-Chlordane	5103-74-2	0.00106 U	0.00462	0.00106	U	mg/kg	08.09.19 20.24	1
Heptachlor	76-44-8	0.000779 U	0.00462	0.000779	U	mg/kg	08.09.19 20.24	1
Heptachlor Epoxide	1024-57-3	0.000339 U	0.00462	0.000339	U	mg/kg	08.09.19 20.24	1
Methoxychlor	72-43-5	0.000702 U	0.00462	0.000702	U	mg/kg	08.09.19 20.24	1
Chlordane	12789-03-6	0.0331 U	0.116	0.0331	U	mg/kg	08.09.19 20.24	1
Toxaphene	8001-35-2	0.0157 U	0.116	0.0157	U	mg/kg	08.09.19 20.24	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	45	%	35-135	08.09.19 20.24	
Decachlorobiphenyl	2051-24-3	61	%	25-143	08.09.19 20.24	

Certificate of Analytical Results 632582

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-24 (6"-24")** Matrix: Soil Date Received:07.31.19 12.10

Lab Sample Id: 632582-020 Date Collected: 07.30.19 13.24 Sample Depth: 0.5 - 2 ft

Analytical Method: SPLP Ammonia By EPA 350.1 Prep Method: E350.1P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.07.19 13.00

Seq Number: 3097801 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Ammonia (as N)	7664-41-7	0.0345 U	0.100	0.0345	U	mg/L	08.07.19 16.42	1

Analytical Method: SPLP Nitrate-Nitrite by E353.2 Prep Method: E353.2P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.07.19 16.30

Seq Number: 3097830 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Nitrate-Nitrite	7727-37-9	**0.0859**	0.100	0.0283	I	mg/L	08.07.19 21.01	1

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Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id:	**CS-25 (0-6")**	Matrix:	Soil	Date Received:	07.31.19 12.10
Lab Sample Id:	632582-021	Date Collected:	07.30.19 13.30	Sample Depth:	0 - 0.5 ft
Analytical Method:	Metals, Total by SW846 6010C			Prep Method:	SW3050B
Tech:	PJB			% Moisture:	30.16
Analyst:	DEP	Date Prep:	08.06.19 09.50	Basis:	Dry Weight
Seq Number:	3097748			SUB:	E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Arsenic	7440-38-2	**28.6**	2.56	0.542		mg/kg	08.06.19 18.56	1
Chromium	7440-47-3	**12.9**	1.28	0.0900		mg/kg	08.06.19 18.56	1
Copper	7440-50-8	**29.2**	2.56	0.566		mg/kg	08.06.19 18.56	1
Iron	7439-89-6	**1480**	25.6	3.45		mg/kg	08.06.19 18.56	1
Lead	7439-92-1	0.608 U	2.56	0.608	U	mg/kg	08.06.19 18.56	1
Manganese	7439-96-5	**201**	2.56	0.355		mg/kg	08.06.19 18.56	1

Certificate of Analytical Results 632582

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-25 (0-6")** Matrix: Soil Date Received:07.31.19 12.10

Lab Sample Id: 632582-021 Date Collected: 07.30.19 13.30 Sample Depth: 0 - 0.5 ft

Analytical Method: EPA 8141 Organophosphorus Pesticides by GC Prep Method: SW3550

Tech: BNS % Moisture:

Analyst: CHD Date Prep: 08.08.19 13.00 Basis: Wet Weight

Seq Number: 3098000 SUB: E871146

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
azinphos-methyl	86-50-0	0.00164 U	0.00329	0.00164	UJ	mg/kg	08.08.19 16.57	1
Chlorpyrifos	2921-88-2	0.00164 U	0.00329	0.00164	U	mg/kg	08.08.19 16.57	1
Coumaphos	56-72-4	0.00164 U	0.00329	0.00164	U	mg/kg	08.08.19 16.57	1
Demeton-O	298-03-3	0.00164 U	0.00329	0.00164	U	mg/kg	08.08.19 16.57	1
Demeton-S	126-75-0	0.00164 U	0.00329	0.00164	U	mg/kg	08.08.19 16.57	1
Diazinon	333-41-5	0.00164 U	0.00329	0.00164	U	mg/kg	08.08.19 16.57	1
Dimethoate	60-51-5	0.00164 U	0.00329	0.00164	U	mg/kg	08.08.19 16.57	1
EPN (Ent)	2104-64-5	0.00164 U	0.00329	0.00164	U	mg/kg	08.08.19 16.57	1
Ethoprop	13194-48-4	0.00164 U	0.00329	0.00164	U	mg/kg	08.08.19 16.57	1
Famphur	52-85-7	0.00164 U	0.00329	0.00164	U	mg/kg	08.08.19 16.57	1
Fenthion	55-38-9	0.00164 U	0.00329	0.00164	U	mg/kg	08.08.19 16.57	1
Malathion	121-75-5	0.00164 U	0.00329	0.00164	U	mg/kg	08.08.19 16.57	1
Merphos	150-50-5	0.00164 U	0.00329	0.00164	UJ	mg/kg	08.08.19 16.57	1
Mevinphos	7786-34-7	0.00164 U	0.00329	0.00164	U	mg/kg	08.08.19 16.57	1
Monocrotophos	2157-98-4	0.00164 U	0.00329	0.00164	UJ	mg/kg	08.08.19 16.57	1
Naled	300-76-5	0.00164 U	0.00329	0.00164	U	mg/kg	08.08.19 16.57	1
Parathion, Ethyl	56-38-2	0.00164 U	0.00329	0.00164	U	mg/kg	08.08.19 16.57	1
Parathion, Methyl	298-00-0	0.00164 U	0.00329	0.00164	U	mg/kg	08.08.19 16.57	1
Phorate	298-02-2	0.00164 U	0.00329	0.00164	U	mg/kg	08.08.19 16.57	1
Ronnel	299-84-3	0.00164 U	0.00329	0.00164	U	mg/kg	08.08.19 16.57	1
stirophos	22248-79-9	0.00164 U	0.00329	0.00164	U	mg/kg	08.08.19 16.57	1
Sulfotep	3689-24-5	0.00164 U	0.00329	0.00164	U	mg/kg	08.08.19 16.57	1
Sulprofos	35400-43-2	0.00164 U	0.00329	0.00164	U	mg/kg	08.08.19 16.57	1
TEPP	21646-99-1	0.00164 U	0.00329	0.00164	UJ	mg/kg	08.08.19 16.57	1
Tokuthion	34643-46-4	0.00164 U	0.00329	0.00164	U	mg/kg	08.08.19 16.57	1
Trichloronate	327-98-0	0.00164 U	0.00329	0.00164	U	mg/kg	08.08.19 16.57	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tributyl Phosphate	126-73-8	88	%	38-123	08.08.19 16.57	

Certificate of Analytical Results 632582

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-25 (0-6")**
Lab Sample Id: 632582-021

Matrix: Soil
Date Collected: 07.30.19 13.30

Date Received: 07.31.19 12.10
Sample Depth: 0 - 0.5 ft

Analytical Method: Pesticides by SW-846 8081B
Tech: JSE
Analyst: VIC
Seq Number: 3098125

Date Prep: 08.09.19 12.09

Prep Method: SW3550
% Moisture: 30.16
Basis: Dry Weight
SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
4,4-DDD	72-54-8	0.00166 U	0.00716	0.00166	U	mg/kg	08.09.19 20.51	1
4,4-DDE	72-55-9	0.00358 U	0.00716	0.00358	U	mg/kg	08.09.19 20.51	1
4,4-DDT	50-29-3	0.000545 U	0.00716	0.000545	U	mg/kg	08.09.19 20.51	1
Aldrin	309-00-2	0.000779 U	0.00716	0.000779	U	mg/kg	08.09.19 20.51	1
Alpha-BHC	319-84-6	0.00146 U	0.00716	0.00146	U	mg/kg	08.09.19 20.51	1
Alpha-Chlordane	5103-71-9	0.00122 U	0.00716	0.00122	U	mg/kg	08.09.19 20.51	1
Beta-BHC	319-85-7	0.00102 U	0.00716	0.00102	U	mg/kg	08.09.19 20.51	1
Delta-BHC	319-86-8	0.00358 U	0.00716	0.00358	U	mg/kg	08.09.19 20.51	1
Dieldrin	60-57-1	0.000364 U	0.00716	0.000364	U	mg/kg	08.09.19 20.51	1
Endosulfan I	959-98-8	**0.00654**	0.00716	0.000433	I	mg/kg	08.09.19 20.51	1
Endosulfan II	33213-65-9	**0.00467**	0.00716	0.000799	I	mg/kg	08.09.19 20.51	1
Endosulfan Sulfate	1031-07-8	0.000592 U	0.00716	0.000592	U	mg/kg	08.09.19 20.51	1
Endrin	72-20-8	0.000624 U	0.00716	0.000624	U	mg/kg	08.09.19 20.51	1
Endrin Aldehyde	7421-93-4	0.000531 U	0.00716	0.000531	U	mg/kg	08.09.19 20.51	1
Endrin Ketone	53494-70-5	0.000774 U	0.00716	0.000774	U	mg/kg	08.09.19 20.51	1
Gamma-BHC (Lindane)	58-89-9	0.000942 U	0.00716	0.000942	U	mg/kg	08.09.19 20.51	1
Gamma-Chlordane	5103-74-2	0.00164 U	0.00716	0.00164	U	mg/kg	08.09.19 20.51	1
Heptachlor	76-44-8	0.00121 U	0.00716	0.00121	U	mg/kg	08.09.19 20.51	1
Heptachlor Epoxide	1024-57-3	0.000526 U	0.00716	0.000526	U	mg/kg	08.09.19 20.51	1
Methoxychlor	72-43-5	0.00109 U	0.00716	0.00109	U	mg/kg	08.09.19 20.51	1
Chlordane	12789-03-6	0.0513 U	0.179	0.0513	U	mg/kg	08.09.19 20.51	1
Toxaphene	8001-35-2	0.0243 U	0.179	0.0243	U	mg/kg	08.09.19 20.51	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	41	%	35-135	08.09.19 20.51	
Decachlorobiphenyl	2051-24-3	59	%	25-143	08.09.19 20.51	

Certificate of Analytical Results 632582

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-25 (0-6'')** Matrix: Soil Date Received:07.31.19 12.10

Lab Sample Id: 632582-021 Date Collected: 07.30.19 13.30 Sample Depth: 0 - 0.5 ft

Analytical Method: SPLP Ammonia By EPA 350.1 Prep Method: E350.1P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.07.19 13.00

Seq Number: 3097801 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Ammonia (as N)	7664-41-7	**0.129**	0.100	0.0345		mg/L	08.07.19 16.43	1

Analytical Method: SPLP Nitrate-Nitrite by E353.2 Prep Method: E353.2P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.07.19 16.30

Seq Number: 3097874 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Nitrate-Nitrite	7727-37-9	**0.343**	0.100	0.0283		mg/L	08.08.19 10.27	1

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Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id:	**CS-25 (6"-24")**	Matrix:	Soil	Date Received:	07.31.19 12.10
Lab Sample Id:	632582-022	Date Collected:	07.30.19 13.30	Sample Depth:	0.5 - 2 ft
Analytical Method:	Metals, Total by SW846 6010C			Prep Method:	SW3050B
Tech:	PJB			% Moisture:	28.24
Analyst:	DEP	Date Prep:	08.06.19 09.50	Basis:	Dry Weight
Seq Number:	3097748			SUB:	E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Arsenic	7440-38-2	**18.2**	2.68	0.568		mg/kg	08.06.19 19.00	1
Chromium	7440-47-3	**11.1**	1.34	0.0943		mg/kg	08.06.19 19.00	1
Copper	7440-50-8	**13.0**	2.68	0.594		mg/kg	08.06.19 19.00	1
Iron	7439-89-6	**1390**	26.8	3.61		mg/kg	08.06.19 19.00	1
Lead	7439-92-1	0.637 U	2.68	0.637	U	mg/kg	08.06.19 19.00	1
Manganese	7439-96-5	**101**	2.68	0.372		mg/kg	08.06.19 19.00	1

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Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-25 (6"-24")** Matrix: Soil Date Received:07.31.19 12.10

Lab Sample Id: 632582-022 Date Collected: 07.30.19 13.30 Sample Depth: 0.5 - 2 ft

Analytical Method: EPA 8141 Organophosphorus Pesticides by GC Prep Method: SW3550

Tech: BNS % Moisture:

Analyst: CHD Date Prep: 08.08.19 13.00 Basis: Wet Weight

Seq Number: 3098000 SUB: E871146

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
azinphos-methyl	86-50-0	0.00167 U	0.00333	0.00167	UJ	mg/kg	08.08.19 17.29	1
Chlorpyrifos	2921-88-2	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 17.29	1
Coumaphos	56-72-4	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 17.29	1
Demeton-O	298-03-3	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 17.29	1
Demeton-S	126-75-0	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 17.29	1
Diazinon	333-41-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 17.29	1
Dimethoate	60-51-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 17.29	1
EPN (Ent)	2104-64-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 17.29	1
Ethoprop	13194-48-4	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 17.29	1
Famphur	52-85-7	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 17.29	1
Fenthion	55-38-9	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 17.29	1
Malathion	121-75-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 17.29	1
Merphos	150-50-5	0.00167 U	0.00333	0.00167	UJ	mg/kg	08.08.19 17.29	1
Mevinphos	7786-34-7	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 17.29	1
Monocrotophos	2157-98-4	0.00167 U	0.00333	0.00167	UJ	mg/kg	08.08.19 17.29	1
Naled	300-76-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 17.29	1
Parathion, Ethyl	56-38-2	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 17.29	1
Parathion, Methyl	298-00-0	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 17.29	1
Phorate	298-02-2	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 17.29	1
Ronnel	299-84-3	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 17.29	1
stirophos	22248-79-9	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 17.29	1
Sulfotep	3689-24-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 17.29	1
Sulprofos	35400-43-2	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 17.29	1
TEPP	21646-99-1	0.00167 U	0.00333	0.00167	UJ	mg/kg	08.08.19 17.29	1
Tokuthion	34643-46-4	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 17.29	1
Trichloronate	327-98-0	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 17.29	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tributyl Phosphate	126-73-8	91	%	38-123	08.08.19 17.29	

Certificate of Analytical Results 632582

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-25 (6"-24")**
Lab Sample Id: 632582-022

Matrix: Soil
Date Collected: 07.30.19 13.30

Date Received: 07.31.19 12.10
Sample Depth: 0.5 - 2 ft

Analytical Method: Pesticides by SW-846 8081B
Tech: JSE
Analyst: VIC
Seq Number: 3098125

Date Prep: 08.09.19 12.18

Prep Method: SW3550
% Moisture: 28.24
Basis: Dry Weight
SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
4,4-DDD	72-54-8	0.00107 U	0.00464	0.00107	U	mg/kg	08.09.19 20.37	1
4,4-DDE	72-55-9	**0.00302**	0.00464	0.00232	I	mg/kg	08.09.19 20.37	1
4,4-DDT	50-29-3	0.000354 U	0.00464	0.000354	U	mg/kg	08.09.19 20.37	1
Aldrin	309-00-2	0.000505 U	0.00464	0.000505	U	mg/kg	08.09.19 20.37	1
Alpha-BHC	319-84-6	0.000947 U	0.00464	0.000947	U	mg/kg	08.09.19 20.37	1
Alpha-Chlordane	5103-71-9	0.000795 U	0.00464	0.000795	U	mg/kg	08.09.19 20.37	1
Beta-BHC	319-85-7	0.000660 U	0.00464	0.000660	U	mg/kg	08.09.19 20.37	1
Delta-BHC	319-86-8	0.00232 U	0.00464	0.00232	U	mg/kg	08.09.19 20.37	1
Dieldrin	60-57-1	**0.000265**	0.00464	0.000236	I	mg/kg	08.09.19 20.37	1
Endosulfan I	959-98-8	0.000281 U	0.00464	0.000281	U	mg/kg	08.09.19 20.37	1
Endosulfan II	33213-65-9	0.000519 U	0.00464	0.000519	U	mg/kg	08.09.19 20.37	1
Endosulfan Sulfate	1031-07-8	0.000384 U	0.00464	0.000384	U	mg/kg	08.09.19 20.37	1
Endrin	72-20-8	0.000405 U	0.00464	0.000405	U	mg/kg	08.09.19 20.37	1
Endrin Aldehyde	7421-93-4	0.000345 U	0.00464	0.000345	U	mg/kg	08.09.19 20.37	1
Endrin Ketone	53494-70-5	0.000503 U	0.00464	0.000503	U	mg/kg	08.09.19 20.37	1
Gamma-BHC (Lindane)	58-89-9	0.000611 U	0.00464	0.000611	U	mg/kg	08.09.19 20.37	1
Gamma-Chlordane	5103-74-2	0.00106 U	0.00464	0.00106	U	mg/kg	08.09.19 20.37	1
Heptachlor	76-44-8	0.000783 U	0.00464	0.000783	U	mg/kg	08.09.19 20.37	1
Heptachlor Epoxide	1024-57-3	0.000341 U	0.00464	0.000341	U	mg/kg	08.09.19 20.37	1
Methoxychlor	72-43-5	0.000706 U	0.00464	0.000706	U	mg/kg	08.09.19 20.37	1
Chlordane	12789-03-6	0.0333 U	0.116	0.0333	U	mg/kg	08.09.19 20.37	1
Toxaphene	8001-35-2	0.0158 U	0.116	0.0158	U	mg/kg	08.09.19 20.37	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	40	%	35-135	08.09.19 20.37	
Decachlorobiphenyl	2051-24-3	55	%	25-143	08.09.19 20.37	

Certificate of Analytical Results 632582

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-25 (6"-24")** Matrix: Soil Date Received:07.31.19 12.10

Lab Sample Id: 632582-022 Date Collected: 07.30.19 13.30 Sample Depth: 0.5 - 2 ft

Analytical Method: SPLP Ammonia By EPA 350.1 Prep Method: E350.1P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.07.19 13.00

Seq Number: 3097801 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Ammonia (as N)	7664-41-7	0.0345 U	0.100	0.0345	U	mg/L	08.07.19 16.44	1

Analytical Method: SPLP Nitrate-Nitrite by E353.2 Prep Method: E353.2P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.07.19 16.30

Seq Number: 3097874 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Nitrate-Nitrite	7727-37-9	0.0283 U	0.100	0.0283	U	mg/L	08.08.19 10.32	1

Certificate of Analytical Results 632582

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id:	**CS-26 (0-6")**	Matrix:	Soil	Date Received:	07.31.19 12.10
Lab Sample Id:	632582-023	Date Collected:	07.30.19 13.51	Sample Depth:	0 - 0.5 ft
Analytical Method:	Metals, Total by SW846 6010C			Prep Method:	SW3050B
Tech:	PJB			% Moisture:	34.07
Analyst:	DEP	Date Prep:	08.06.19 09.50	Basis:	Dry Weight
Seq Number:	3097748			SUB:	E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Arsenic	7440-38-2	**26.9**	2.62	0.554		mg/kg	08.06.19 19.04	1
Chromium	7440-47-3	**14.4**	1.31	0.0920		mg/kg	08.06.19 19.04	1
Copper	7440-50-8	**31.8**	2.62	0.579		mg/kg	08.06.19 19.04	1
Iron	7439-89-6	**2170**	26.2	3.52		mg/kg	08.06.19 19.04	1
Lead	7439-92-1	0.622 U	2.62	0.622	U	mg/kg	08.06.19 19.04	1
Manganese	7439-96-5	**182**	2.62	0.363		mg/kg	08.06.19 19.04	1

Certificate of Analytical Results 632582

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-26 (0-6")** Matrix: Soil Date Received:07.31.19 12.10

Lab Sample Id: 632582-023 Date Collected: 07.30.19 13.51 Sample Depth: 0 - 0.5 ft

Analytical Method: EPA 8141 Organophosphorus Pesticides by GC Prep Method: SW3550

Tech: BNS % Moisture:

Analyst: CHD Date Prep: 08.08.19 13.00 Basis: Wet Weight

Seq Number: 3098000 SUB: E871146

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
azinphos-methyl	86-50-0	0.00167 U	0.00333	0.00167	UJ	mg/kg	08.08.19 18.00	1
Chlorpyrifos	2921-88-2	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 18.00	1
Coumaphos	56-72-4	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 18.00	1
Demeton-O	298-03-3	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 18.00	1
Demeton-S	126-75-0	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 18.00	1
Diazinon	333-41-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 18.00	1
Dimethoate	60-51-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 18.00	1
EPN (Ent)	2104-64-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 18.00	1
Ethoprop	13194-48-4	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 18.00	1
Famphur	52-85-7	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 18.00	1
Fenthion	55-38-9	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 18.00	1
Malathion	121-75-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 18.00	1
Merphos	150-50-5	0.00167 U	0.00333	0.00167	UJ	mg/kg	08.08.19 18.00	1
Mevinphos	7786-34-7	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 18.00	1
Monocrotophos	2157-98-4	0.00167 U	0.00333	0.00167	UJ	mg/kg	08.08.19 18.00	1
Naled	300-76-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 18.00	1
Parathion, Ethyl	56-38-2	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 18.00	1
Parathion, Methyl	298-00-0	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 18.00	1
Phorate	298-02-2	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 18.00	1
Ronnel	299-84-3	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 18.00	1
stirophos	22248-79-9	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 18.00	1
Sulfotep	3689-24-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 18.00	1
Sulprofos	35400-43-2	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 18.00	1
TEPP	21646-99-1	0.00167 U	0.00333	0.00167	UJ	mg/kg	08.08.19 18.00	1
Tokuthion	34643-46-4	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 18.00	1
Trichloronate	327-98-0	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 18.00	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tributyl Phosphate	126-73-8	82	%	38-123	08.08.19 18.00	

Certificate of Analytical Results 632582

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-26 (0-6")**
Lab Sample Id: 632582-023

Matrix: Soil
Date Collected: 07.30.19 13.51

Date Received: 07.31.19 12.10
Sample Depth: 0 - 0.5 ft

Analytical Method: Pesticides by SW-846 8081B
Tech: JSE
Analyst: VIC
Seq Number: 3098125

Date Prep: 08.09.19 12.21

Prep Method: SW3550
% Moisture: 34.07
Basis: Dry Weight
SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
4,4-DDD	72-54-8	0.00117 U	0.00506	0.00117	U	mg/kg	08.09.19 22.00	1
4,4-DDE	72-55-9	0.00253 U	0.00506	0.00253	U	mg/kg	08.09.19 22.00	1
4,4-DDT	50-29-3	0.000385 U	0.00506	0.000385	U	mg/kg	08.09.19 22.00	1
Aldrin	309-00-2	0.000551 U	0.00506	0.000551	U	mg/kg	08.09.19 22.00	1
Alpha-BHC	319-84-6	0.00103 U	0.00506	0.00103	U	mg/kg	08.09.19 22.00	1
Alpha-Chlordane	5103-71-9	0.000866 U	0.00506	0.000866	U	mg/kg	08.09.19 22.00	1
Beta-BHC	319-85-7	0.000719 U	0.00506	0.000719	U	mg/kg	08.09.19 22.00	1
Delta-BHC	319-86-8	0.00253 U	0.00506	0.00253	U	mg/kg	08.09.19 22.00	1
Dieldrin	60-57-1	0.000257 U	0.00506	0.000257	U	mg/kg	08.09.19 22.00	1
Endosulfan I	959-98-8	0.000306 U	0.00506	0.000306	U	mg/kg	08.09.19 22.00	1
Endosulfan II	33213-65-9	0.000565 U	0.00506	0.000565	U	mg/kg	08.09.19 22.00	1
Endosulfan Sulfate	1031-07-8	0.000419 U	0.00506	0.000419	U	mg/kg	08.09.19 22.00	1
Endrin	72-20-8	0.000442 U	0.00506	0.000442	U	mg/kg	08.09.19 22.00	1
Endrin Aldehyde	7421-93-4	0.000376 U	0.00506	0.000376	U	mg/kg	08.09.19 22.00	1
Endrin Ketone	53494-70-5	0.000548 U	0.00506	0.000548	U	mg/kg	08.09.19 22.00	1
Gamma-BHC (Lindane)	58-89-9	0.000666 U	0.00506	0.000666	U	mg/kg	08.09.19 22.00	1
Gamma-Chlordane	5103-74-2	0.00116 U	0.00506	0.00116	U	mg/kg	08.09.19 22.00	1
Heptachlor	76-44-8	0.000853 U	0.00506	0.000853	U	mg/kg	08.09.19 22.00	1
Heptachlor Epoxide	1024-57-3	0.000372 U	0.00506	0.000372	U	mg/kg	08.09.19 22.00	1
Methoxychlor	72-43-5	0.000769 U	0.00506	0.000769	U	mg/kg	08.09.19 22.00	1
Chlordane	12789-03-6	0.0363 U	0.127	0.0363	U	mg/kg	08.09.19 22.00	1
Toxaphene	8001-35-2	0.0172 U	0.127	0.0172	U	mg/kg	08.09.19 22.00	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	38	%	35-135	08.09.19 22.00	
Decachlorobiphenyl	2051-24-3	66	%	25-143	08.09.19 22.00	

Certificate of Analytical Results 632582

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-26 (0-6'')** Matrix: Soil Date Received:07.31.19 12.10
Lab Sample Id: 632582-023 Date Collected: 07.30.19 13.51 Sample Depth: 0 - 0.5 ft

Analytical Method: SPLP Ammonia By EPA 350.1 Prep Method: E350.1P
Tech: KCS % Moisture:
Analyst: KCS Date Prep: 08.08.19 10.30
Seq Number: 3097930 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Ammonia (as N)	7664-41-7	**0.0775**	0.100	0.0345	I	mg/L	08.08.19 15.46	1

Analytical Method: SPLP Nitrate-Nitrite by E353.2 Prep Method: E353.2P
Tech: KCS % Moisture:
Analyst: KCS Date Prep: 08.07.19 16.30
Seq Number: 3097874 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Nitrate-Nitrite	7727-37-9	**0.279**	0.100	0.0283		mg/L	08.08.19 10.34	1

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Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id:	**CS-26 (6"-24")**	Matrix:	Soil	Date Received:	07.31.19 12.10
Lab Sample Id:	632582-024	Date Collected:	07.30.19 13.51	Sample Depth:	0.5 - 2 ft
Analytical Method:	Metals, Total by SW846 6010C			Prep Method:	SW3050B
Tech:	PJB			% Moisture:	29.99
Analyst:	DEP	Date Prep:	08.06.19 09.50	Basis:	Dry Weight
Seq Number:	3097748			SUB:	E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Arsenic	7440-38-2	**17.4**	2.70	0.571		mg/kg	08.06.19 19.09	1
Chromium	7440-47-3	**8.06**	1.35	0.0948		mg/kg	08.06.19 19.09	1
Copper	7440-50-8	**16.2**	2.70	0.597		mg/kg	08.06.19 19.09	1
Iron	7439-89-6	**1120**	27.0	3.63		mg/kg	08.06.19 19.09	1
Lead	7439-92-1	0.641 U	2.70	0.641	U	mg/kg	08.06.19 19.09	1
Manganese	7439-96-5	**136**	2.70	0.374		mg/kg	08.06.19 19.09	1

Certificate of Analytical Results 632582

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-26 (6"-24")** Matrix: Soil Date Received:07.31.19 12.10

Lab Sample Id: 632582-024 Date Collected: 07.30.19 13.51 Sample Depth: 0.5 - 2 ft

Analytical Method: EPA 8141 Organophosphorus Pesticides by GC Prep Method: SW3550

Tech: BNS % Moisture:

Analyst: CHD Date Prep: 08.08.19 13.00 Basis: Wet Weight

Seq Number: 3098000 SUB: E871146

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
azinphos-methyl	86-50-0	0.00166 U	0.00332	0.00166	UJ	mg/kg	08.08.19 18.31	1
Chlorpyrifos	2921-88-2	0.00166 U	0.00332	0.00166	U	mg/kg	08.08.19 18.31	1
Coumaphos	56-72-4	0.00166 U	0.00332	0.00166	U	mg/kg	08.08.19 18.31	1
Demeton-O	298-03-3	0.00166 U	0.00332	0.00166	U	mg/kg	08.08.19 18.31	1
Demeton-S	126-75-0	0.00166 U	0.00332	0.00166	U	mg/kg	08.08.19 18.31	1
Diazinon	333-41-5	0.00166 U	0.00332	0.00166	U	mg/kg	08.08.19 18.31	1
Dimethoate	60-51-5	0.00166 U	0.00332	0.00166	U	mg/kg	08.08.19 18.31	1
EPN (Ent)	2104-64-5	0.00166 U	0.00332	0.00166	U	mg/kg	08.08.19 18.31	1
Ethoprop	13194-48-4	0.00166 U	0.00332	0.00166	U	mg/kg	08.08.19 18.31	1
Famphur	52-85-7	0.00166 U	0.00332	0.00166	U	mg/kg	08.08.19 18.31	1
Fenthion	55-38-9	0.00166 U	0.00332	0.00166	U	mg/kg	08.08.19 18.31	1
Malathion	121-75-5	0.00166 U	0.00332	0.00166	U	mg/kg	08.08.19 18.31	1
Merphos	150-50-5	0.00166 U	0.00332	0.00166	UJ	mg/kg	08.08.19 18.31	1
Mevinphos	7786-34-7	0.00166 U	0.00332	0.00166	U	mg/kg	08.08.19 18.31	1
Monocrotophos	2157-98-4	0.00166 U	0.00332	0.00166	UJ	mg/kg	08.08.19 18.31	1
Naled	300-76-5	0.00166 U	0.00332	0.00166	U	mg/kg	08.08.19 18.31	1
Parathion, Ethyl	56-38-2	0.00166 U	0.00332	0.00166	U	mg/kg	08.08.19 18.31	1
Parathion, Methyl	298-00-0	0.00166 U	0.00332	0.00166	U	mg/kg	08.08.19 18.31	1
Phorate	298-02-2	0.00166 U	0.00332	0.00166	U	mg/kg	08.08.19 18.31	1
Ronnel	299-84-3	0.00166 U	0.00332	0.00166	U	mg/kg	08.08.19 18.31	1
stirophos	22248-79-9	0.00166 U	0.00332	0.00166	U	mg/kg	08.08.19 18.31	1
Sulfotep	3689-24-5	0.00166 U	0.00332	0.00166	U	mg/kg	08.08.19 18.31	1
Sulprofos	35400-43-2	0.00166 U	0.00332	0.00166	U	mg/kg	08.08.19 18.31	1
TEPP	21646-99-1	0.00166 U	0.00332	0.00166	UJ	mg/kg	08.08.19 18.31	1
Tokuthion	34643-46-4	0.00166 U	0.00332	0.00166	U	mg/kg	08.08.19 18.31	1
Trichloronate	327-98-0	0.00166 U	0.00332	0.00166	U	mg/kg	08.08.19 18.31	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tributyl Phosphate	126-73-8	93	%	38-123	08.08.19 18.31	

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Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-26 (6"-24")**
Lab Sample Id: 632582-024

Matrix: Soil
Date Collected: 07.30.19 13.51

Date Received: 07.31.19 12.10
Sample Depth: 0.5 - 2 ft

Analytical Method: Pesticides by SW-846 8081B
Tech: JSE
Analyst: SHM
Seq Number: 3098027

Date Prep: 08.08.19 15.39

Prep Method: SW3550
% Moisture: 29.99
Basis: Dry Weight
SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
4,4-DDD	72-54-8	0.00110 U	0.00477	0.00110	U	mg/kg	08.08.19 19.55	1
4,4-DDE	72-55-9	0.00238 U	0.00477	0.00238	U	mg/kg	08.08.19 19.55	1
4,4-DDT	50-29-3	0.000363 U	0.00477	0.000363	U	mg/kg	08.08.19 19.55	1
Aldrin	309-00-2	0.000519 U	0.00477	0.000519	UJ	mg/kg	08.08.19 19.55	1
Alpha-BHC	319-84-6	0.000973 U	0.00477	0.000973	UJ	mg/kg	08.08.19 19.55	1
Alpha-Chlordane	5103-71-9	0.000816 U	0.00477	0.000816	U	mg/kg	08.08.19 19.55	1
Beta-BHC	319-85-7	0.000677 U	0.00477	0.000677	U	mg/kg	08.08.19 19.55	1
Delta-BHC	319-86-8	0.00238 U	0.00477	0.00238	U	mg/kg	08.08.19 19.55	1
Dieldrin	60-57-1	0.000242 U	0.00477	0.000242	U	mg/kg	08.08.19 19.55	1
Endosulfan I	959-98-8	0.000289 U	0.00477	0.000289	U	mg/kg	08.08.19 19.55	1
Endosulfan II	33213-65-9	0.000532 U	0.00477	0.000532	U	mg/kg	08.08.19 19.55	1
Endosulfan Sulfate	1031-07-8	0.000394 U	0.00477	0.000394	U	mg/kg	08.08.19 19.55	1
Endrin	72-20-8	0.000416 U	0.00477	0.000416	U	mg/kg	08.08.19 19.55	1
Endrin Aldehyde	7421-93-4	0.000354 U	0.00477	0.000354	U	mg/kg	08.08.19 19.55	1
Endrin Ketone	53494-70-5	0.000516 U	0.00477	0.000516	U	mg/kg	08.08.19 19.55	1
Gamma-BHC (Lindane)	58-89-9	0.000627 U	0.00477	0.000627	UJ	mg/kg	08.08.19 19.55	1
Gamma-Chlordane	5103-74-2	0.00109 U	0.00477	0.00109	U	mg/kg	08.08.19 19.55	1
Heptachlor	76-44-8	0.000804 U	0.00477	0.000804	UJ	mg/kg	08.08.19 19.55	1
Heptachlor Epoxide	1024-57-3	0.000350 U	0.00477	0.000350	U	mg/kg	08.08.19 19.55	1
Methoxychlor	72-43-5	0.000725 U	0.00477	0.000725	U	mg/kg	08.08.19 19.55	1
Chlordane	12789-03-6	0.0342 U	0.119	0.0342	U	mg/kg	08.08.19 19.55	1
Toxaphene	8001-35-2	0.0162 U	0.119	0.0162	U	mg/kg	08.08.19 19.55	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	29	%	35-135	08.08.19 19.55	J
Decachlorobiphenyl	2051-24-3	53	%	25-143	08.08.19 19.55	

Certificate of Analytical Results 632582

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-26 (6"-24")** Matrix: Soil Date Received:07.31.19 12.10

Lab Sample Id: 632582-024 Date Collected: 07.30.19 13.51 Sample Depth: 0.5 - 2 ft

Analytical Method: SPLP Ammonia By EPA 350.1 Prep Method: E350.1P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.08.19 10.30

Seq Number: 3097930 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Ammonia (as N)	7664-41-7	**0.0719**	0.100	0.0345	I	mg/L	08.08.19 15.49	1

Analytical Method: SPLP Nitrate-Nitrite by E353.2 Prep Method: E353.2P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.07.19 16.30

Seq Number: 3097874 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Nitrate-Nitrite	7727-37-9	**0.0702**	0.100	0.0283	I	mg/L	08.08.19 10.36	1

Certificate of Analytical Results 632582

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id:	**CS-27 (0-6")**	Matrix:	Soil	Date Received:	07.31.19 12.10
Lab Sample Id:	632582-025	Date Collected:	07.30.19 11.18	Sample Depth:	0 - 0.5 ft
Analytical Method:	Metals, Total by SW846 6010C			Prep Method:	SW3050B
Tech:	PJB			% Moisture:	24.23
Analyst:	DEP	Date Prep:	08.06.19 09.50	Basis:	Dry Weight
Seq Number:	3097748			SUB:	E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Arsenic	7440-38-2	**14.1**	2.28	0.482		mg/kg	08.06.19 19.13	1
Chromium	7440-47-3	**11.1**	1.14	0.0801		mg/kg	08.06.19 19.13	1
Copper	7440-50-8	**21.6**	2.28	0.504		mg/kg	08.06.19 19.13	1
Iron	7439-89-6	**2250**	22.8	3.07		mg/kg	08.06.19 19.13	1
Lead	7439-92-1	**52.0**	2.28	0.541		mg/kg	08.06.19 19.13	1
Manganese	7439-96-5	**94.0**	2.28	0.316		mg/kg	08.06.19 19.13	1

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Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-27 (0-6'')** Matrix: Soil Date Received:07.31.19 12.10

Lab Sample Id: 632582-025 Date Collected: 07.30.19 11.18 Sample Depth: 0 - 0.5 ft

Analytical Method: EPA 8141 Organophosphorus Pesticides by GC Prep Method: SW3550

Tech: BNS % Moisture:

Analyst: CHD Date Prep: 08.08.19 13.00 Basis: Wet Weight

Seq Number: 3098000 SUB: E871146

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
azinphos-methyl	86-50-0	0.00162 U	0.00325	0.00162	UJ	mg/kg	08.08.19 19.03	1
Chlorpyrifos	2921-88-2	0.00162 U	0.00325	0.00162	U	mg/kg	08.08.19 19.03	1
Coumaphos	56-72-4	0.00162 U	0.00325	0.00162	U	mg/kg	08.08.19 19.03	1
Demeton-O	298-03-3	0.00162 U	0.00325	0.00162	U	mg/kg	08.08.19 19.03	1
Demeton-S	126-75-0	0.00162 U	0.00325	0.00162	U	mg/kg	08.08.19 19.03	1
Diazinon	333-41-5	0.00162 U	0.00325	0.00162	U	mg/kg	08.08.19 19.03	1
Dimethoate	60-51-5	0.00162 U	0.00325	0.00162	U	mg/kg	08.08.19 19.03	1
EPN (Ent)	2104-64-5	0.00162 U	0.00325	0.00162	U	mg/kg	08.08.19 19.03	1
Ethoprop	13194-48-4	0.00162 U	0.00325	0.00162	U	mg/kg	08.08.19 19.03	1
Famphur	52-85-7	0.00162 U	0.00325	0.00162	U	mg/kg	08.08.19 19.03	1
Fenthion	55-38-9	0.00162 U	0.00325	0.00162	U	mg/kg	08.08.19 19.03	1
Malathion	121-75-5	0.00162 U	0.00325	0.00162	U	mg/kg	08.08.19 19.03	1
Merphos	150-50-5	0.00162 U	0.00325	0.00162	UJ	mg/kg	08.08.19 19.03	1
Mevinphos	7786-34-7	0.00162 U	0.00325	0.00162	U	mg/kg	08.08.19 19.03	1
Monocrotophos	2157-98-4	0.00162 U	0.00325	0.00162	UJ	mg/kg	08.08.19 19.03	1
Naled	300-76-5	0.00162 U	0.00325	0.00162	U	mg/kg	08.08.19 19.03	1
Parathion, Ethyl	56-38-2	0.00162 U	0.00325	0.00162	U	mg/kg	08.08.19 19.03	1
Parathion, Methyl	298-00-0	0.00162 U	0.00325	0.00162	U	mg/kg	08.08.19 19.03	1
Phorate	298-02-2	0.00162 U	0.00325	0.00162	U	mg/kg	08.08.19 19.03	1
Ronnel	299-84-3	0.00162 U	0.00325	0.00162	U	mg/kg	08.08.19 19.03	1
stirophos	22248-79-9	0.00162 U	0.00325	0.00162	U	mg/kg	08.08.19 19.03	1
Sulfotep	3689-24-5	0.00162 U	0.00325	0.00162	U	mg/kg	08.08.19 19.03	1
Sulprofos	35400-43-2	0.00162 U	0.00325	0.00162	U	mg/kg	08.08.19 19.03	1
TEPP	21646-99-1	0.00162 U	0.00325	0.00162	UJ	mg/kg	08.08.19 19.03	1
Tokuthion	34643-46-4	0.00162 U	0.00325	0.00162	U	mg/kg	08.08.19 19.03	1
Trichloronate	327-98-0	0.00162 U	0.00325	0.00162	U	mg/kg	08.08.19 19.03	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tributyl Phosphate	126-73-8	164	%	38-123	08.08.19 19.03	J

Certificate of Analytical Results 632582

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-27 (0-6'')**
Lab Sample Id: 632582-025

Matrix: Soil
Date Collected: 07.30.19 11.18

Date Received: 07.31.19 12.10
Sample Depth: 0 - 0.5 ft

Analytical Method: Pesticides by SW-846 8081B
Tech: JSE
Analyst: VIC
Seq Number: 3098125

Date Prep: 08.09.19 12.24

Prep Method: SW3550
% Moisture: 24.23
Basis: Dry Weight
SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
4,4-DDD	72-54-8	**0.0162**	0.00880	0.00204		mg/kg	08.10.19 00.44	2
4,4-DDE	72-55-9	**0.0860**	0.00880	0.00440		mg/kg	08.10.19 00.44	2
4,4-DDT	50-29-3	**0.0207**	0.00880	0.000670		mg/kg	08.10.19 00.44	2
Aldrin	309-00-2	0.000957 U	0.00880	0.000957	U	mg/kg	08.10.19 00.44	2
Alpha-BHC	319-84-6	0.00179 U	0.00880	0.00179	U	mg/kg	08.10.19 00.44	2
Alpha-Chlordane	5103-71-9	**0.128**	0.00880	0.00151		mg/kg	08.10.19 00.44	2
Beta-BHC	319-85-7	0.00125 U	0.00880	0.00125	U	mg/kg	08.10.19 00.44	2
Delta-BHC	319-86-8	0.00440 U	0.00880	0.00440	U	mg/kg	08.10.19 00.44	2
Dieldrin	60-57-1	**0.00960**	0.00880	0.000447		mg/kg	08.10.19 00.44	2
Endosulfan I	959-98-8	0.000533 U	0.00880	0.000533	U	mg/kg	08.10.19 00.44	2
Endosulfan II	33213-65-9	0.000982 U	0.00880	0.000982	U	mg/kg	08.10.19 00.44	2
Endosulfan Sulfate	1031-07-8	0.000728 U	0.00880	0.000728	U	mg/kg	08.10.19 00.44	2
Endrin	72-20-8	**0.0110**	0.00880	0.000767		mg/kg	08.10.19 00.44	2
Endrin Aldehyde	7421-93-4	0.000653 U	0.00880	0.000653	U	mg/kg	08.10.19 00.44	2
Endrin Ketone	53494-70-5	0.000952 U	0.00880	0.000952	U	mg/kg	08.10.19 00.44	2
Gamma-BHC (Lindane)	58-89-9	0.00116 U	0.00880	0.00116	U	mg/kg	08.10.19 00.44	2
Gamma-Chlordane	5103-74-2	**0.0379**	0.00880	0.00201		mg/kg	08.10.19 00.44	2
Heptachlor	76-44-8	0.00148 U	0.00880	0.00148	U	mg/kg	08.10.19 00.44	2
Heptachlor Epoxide	1024-57-3	**0.00824**	0.00880	0.000646	I	mg/kg	08.10.19 00.44	2
Methoxychlor	72-43-5	0.00134 U	0.00880	0.00134	U	mg/kg	08.10.19 00.44	2
Chlordane	12789-03-6	**0.0631**	0.220	0.0631		mg/kg	08.10.19 00.44	2
Toxaphene	8001-35-2	0.0299 U	0.220	0.0299	U	mg/kg	08.10.19 00.44	2

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	63	%	35-135	08.10.19 00.44	
Decachlorobiphenyl	2051-24-3	86	%	25-143	08.10.19 00.44	

Certificate of Analytical Results 632582

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-27 (0-6'')** Matrix: Soil Date Received:07.31.19 12.10

Lab Sample Id: 632582-025 Date Collected: 07.30.19 11.18 Sample Depth: 0 - 0.5 ft

Analytical Method: SPLP Ammonia By EPA 350.1 Prep Method: E350.1P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.08.19 10.30

Seq Number: 3097930 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Ammonia (as N)	7664-41-7	**0.366**	0.100	0.0345		mg/L	08.08.19 15.50	1

Analytical Method: SPLP Nitrate-Nitrite by E353.2 Prep Method: E353.2P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.07.19 16.30

Seq Number: 3097874 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Nitrate-Nitrite	7727-37-9	**0.224**	0.100	0.0283		mg/L	08.08.19 10.37	1

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Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id:	**CS-27 (6-24")**	Matrix:	Soil	Date Received:	07.31.19 12.10
Lab Sample Id:	632582-026	Date Collected:	07.30.19 11.18	Sample Depth:	0.5 - 2 ft
Analytical Method:	Metals, Total by SW846 6010C			Prep Method:	SW3050B
Tech:	PJB			% Moisture:	18.71
Analyst:	DEP	Date Prep:	08.06.19 09.50	Basis:	Dry Weight
Seq Number:	3097748			SUB:	E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Arsenic	7440-38-2	**8.36**	2.32	0.492		mg/kg	08.06.19 19.17	1
Chromium	7440-47-3	**6.17**	1.16	0.0817		mg/kg	08.06.19 19.17	1
Copper	7440-50-8	0.514 U	2.32	0.514	U	mg/kg	08.06.19 19.17	1
Iron	7439-89-6	**968**	23.2	3.13		mg/kg	08.06.19 19.17	1
Lead	7439-92-1	0.552 U	2.32	0.552	U	mg/kg	08.06.19 19.17	1
Manganese	7439-96-5	**15.7**	2.32	0.322		mg/kg	08.06.19 19.17	1

Certificate of Analytical Results 632582

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-27 (6-24")** Matrix: Soil Date Received:07.31.19 12.10

Lab Sample Id: 632582-026 Date Collected: 07.30.19 11.18 Sample Depth: 0.5 - 2 ft

Analytical Method: EPA 8141 Organophosphorus Pesticides by GC Prep Method: SW3550

Tech: BNS % Moisture:

Analyst: CHD Date Prep: 08.08.19 13.00 Basis: Wet Weight

Seq Number: 3098000 SUB: E871146

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
azinphos-methyl	86-50-0	0.00167 U	0.00333	0.00167	UJ	mg/kg	08.08.19 19.34	1
Chlorpyrifos	2921-88-2	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 19.34	1
Coumaphos	56-72-4	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 19.34	1
Demeton-O	298-03-3	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 19.34	1
Demeton-S	126-75-0	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 19.34	1
Diazinon	333-41-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 19.34	1
Dimethoate	60-51-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 19.34	1
EPN (Ent)	2104-64-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 19.34	1
Ethoprop	13194-48-4	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 19.34	1
Famphur	52-85-7	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 19.34	1
Fenthion	55-38-9	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 19.34	1
Malathion	121-75-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 19.34	1
Merphos	150-50-5	0.00167 U	0.00333	0.00167	UJ	mg/kg	08.08.19 19.34	1
Mevinphos	7786-34-7	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 19.34	1
Monocrotophos	2157-98-4	0.00167 U	0.00333	0.00167	UJ	mg/kg	08.08.19 19.34	1
Naled	300-76-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 19.34	1
Parathion, Ethyl	56-38-2	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 19.34	1
Parathion, Methyl	298-00-0	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 19.34	1
Phorate	298-02-2	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 19.34	1
Ronnel	299-84-3	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 19.34	1
stirophos	22248-79-9	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 19.34	1
Sulfotep	3689-24-5	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 19.34	1
Sulprofos	35400-43-2	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 19.34	1
TEPP	21646-99-1	0.00167 U	0.00333	0.00167	UJ	mg/kg	08.08.19 19.34	1
Tokuthion	34643-46-4	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 19.34	1
Trichloronate	327-98-0	0.00167 U	0.00333	0.00167	U	mg/kg	08.08.19 19.34	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tributyl Phosphate	126-73-8	75	%	38-123	08.08.19 19.34	

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Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-27 (6-24")**
Lab Sample Id: 632582-026

Matrix: Soil
Date Collected: 07.30.19 11.18

Date Received: 07.31.19 12.10
Sample Depth: 0.5 - 2 ft

Analytical Method: Pesticides by SW-846 8081B
Tech: JSE
Analyst: VIC
Seq Number: 3098125

Date Prep: 08.09.19 12.27

Prep Method: SW3550
% Moisture: 18.71
Basis: Dry Weight
SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
4,4-DDD	72-54-8	0.000948 U	0.00410	0.000948	U	mg/kg	08.09.19 22.14	1
4,4-DDE	72-55-9	**0.00393**	0.00410	0.00205	I	mg/kg	08.09.19 22.14	1
4,4-DDT	50-29-3	**0.00308**	0.00410	0.000312	I	mg/kg	08.09.19 22.14	1
Aldrin	309-00-2	0.000446 U	0.00410	0.000446	U	mg/kg	08.09.19 22.14	1
Alpha-BHC	319-84-6	0.000835 U	0.00410	0.000835	U	mg/kg	08.09.19 22.14	1
Alpha-Chlordane	5103-71-9	0.000701 U	0.00410	0.000701	U	mg/kg	08.09.19 22.14	1
Beta-BHC	319-85-7	0.000582 U	0.00410	0.000582	U	mg/kg	08.09.19 22.14	1
Delta-BHC	319-86-8	0.00205 U	0.00410	0.00205	U	mg/kg	08.09.19 22.14	1
Dieldrin	60-57-1	0.000208 U	0.00410	0.000208	U	mg/kg	08.09.19 22.14	1
Endosulfan I	959-98-8	0.000248 U	0.00410	0.000248	U	mg/kg	08.09.19 22.14	1
Endosulfan II	33213-65-9	0.000457 U	0.00410	0.000457	U	mg/kg	08.09.19 22.14	1
Endosulfan Sulfate	1031-07-8	0.000339 U	0.00410	0.000339	U	mg/kg	08.09.19 22.14	1
Endrin	72-20-8	0.000357 U	0.00410	0.000357	U	mg/kg	08.09.19 22.14	1
Endrin Aldehyde	7421-93-4	0.000304 U	0.00410	0.000304	U	mg/kg	08.09.19 22.14	1
Endrin Ketone	53494-70-5	0.000443 U	0.00410	0.000443	U	mg/kg	08.09.19 22.14	1
Gamma-BHC (Lindane)	58-89-9	0.000539 U	0.00410	0.000539	U	mg/kg	08.09.19 22.14	1
Gamma-Chlordane	5103-74-2	**0.00155**	0.00410	0.000938	I	mg/kg	08.09.19 22.14	1
Heptachlor	76-44-8	0.000691 U	0.00410	0.000691	U	mg/kg	08.09.19 22.14	1
Heptachlor Epoxide	1024-57-3	0.000301 U	0.00410	0.000301	U	mg/kg	08.09.19 22.14	1
Methoxychlor	72-43-5	0.000622 U	0.00410	0.000622	U	mg/kg	08.09.19 22.14	1
Chlordane	12789-03-6	0.0294 U	0.102	0.0294	U	mg/kg	08.09.19 22.14	1
Toxaphene	8001-35-2	**0.172**	0.102	0.0139		mg/kg	08.09.19 22.14	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	42	%	35-135	08.09.19 22.14	
Decachlorobiphenyl	2051-24-3	60	%	25-143	08.09.19 22.14	

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Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **CS-27 (6-24")** Matrix: Soil Date Received:07.31.19 12.10

Lab Sample Id: 632582-026 Date Collected: 07.30.19 11.18 Sample Depth: 0.5 - 2 ft

Analytical Method: SPLP Ammonia By EPA 350.1 Prep Method: E350.1P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.08.19 10.30

Seq Number: 3097930 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Ammonia (as N)	7664-41-7	**0.135**	0.100	0.0345		mg/L	08.08.19 15.51	1

Analytical Method: SPLP Nitrate-Nitrite by E353.2 Prep Method: E353.2P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.07.19 16.30

Seq Number: 3097874 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Nitrate-Nitrite	7727-37-9	**0.0479**	0.100	0.0283	I	mg/L	08.08.19 10.42	1

CHRONOLOGY OF HOLDING TIMES

Analytical Method : SPLP Ammonia By EPA 350.1
Work Order #: **632582**
Date Received: 07/31/19

Client : Universal Engineering Services Miam
Project ID: 2110.1900103.0000

Field Sample ID	Lab Sample ID	Date Collected	Date Rotated	Max Holding Time Rotated (Days)	Time Held Rotated (Days)	Date Analyzed	Max Holding Time Analyzed (Days)	Time Held Analyzed (Days)	Q
CS-15 (0-6")	632582-001	07/30/19				08/07/19	28	8	
CS-15 (6"-24")	632582-002	07/30/19				08/07/19	28	8	
CS-16 (0-6")	632582-003	07/30/19				08/07/19	28	8	
CS-16 (6"-24")	632582-004	07/30/19				08/07/19	28	8	
CS-17 (0-6")	632582-005	07/30/19				08/07/19	28	8	
CS-17 (6"-24")	632582-006	07/30/19				08/07/19	28	8	
CS-18 (0-6")	632582-007	07/30/19				08/07/19	28	8	
CS-18 (6"-24")	632582-008	07/30/19				08/07/19	28	8	
CS-19 (0-6")	632582-009	07/30/19				08/08/19	28	9	
CS-19 (6"-24")	632582-010	07/30/19				08/07/19	28	8	
CS-20 (0-6")	632582-011	07/30/19				08/07/19	28	8	
CS-20 (6"-24")	632582-012	07/30/19				08/07/19	28	8	
CS-21 (0-6")	632582-013	07/30/19				08/07/19	28	8	
CS-21 (6"-24")	632582-014	07/30/19				08/07/19	28	8	
CS-22 (0-6")	632582-015	07/30/19				08/07/19	28	8	
CS-22 (6"-24")	632582-016	07/30/19				08/07/19	28	8	
CS-23 (0-6")	632582-017	07/30/19				08/07/19	28	8	
CS-23 (6"-24")	632582-018	07/30/19				08/07/19	28	8	
CS-24 (0-6")	632582-019	07/30/19				08/07/19	28	8	
CS-24 (6"-24")	632582-020	07/30/19				08/07/19	28	8	
CS-25 (0-6")	632582-021	07/30/19				08/07/19	28	8	
CS-25 (6"-24")	632582-022	07/30/19				08/07/19	28	8	
CS-26 (0-6")	632582-023	07/30/19				08/08/19	28	9	
CS-26 (6"-24")	632582-024	07/30/19				08/08/19	28	9	
CS-27 (0-6")	632582-025	07/30/19				08/08/19	28	9	
CS-27 (6-24")	632582-026	07/30/19				08/08/19	28	9	

CHRONOLOGY OF HOLDING TIMES

Analytical Method : SPLP Nitrate-Nitrite by E353.2
Work Order #: **632582**
Date Received: 07/31/19

Client : Universal Engineering Services Miam
Project ID: 2110.1900103.0000

Field Sample ID	Lab Sample ID	Date Collected	Date Rotated	Max Holding Time Rotated (Days)	Time Held Rotated (Days)	Date Analyzed	Max Holding Time Analyzed (Days)	Time Held Analyzed (Days)	Q
CS-15 (0-6")	632582-001	07/30/19				08/07/19	28	8	
CS-15 (6"-24")	632582-002	07/30/19				08/07/19	28	8	
CS-16 (0-6")	632582-003	07/30/19				08/07/19	28	8	
CS-16 (6"-24")	632582-004	07/30/19				08/07/19	28	8	
CS-17 (0-6")	632582-005	07/30/19				08/07/19	28	8	
CS-17 (6"-24")	632582-006	07/30/19				08/07/19	28	8	
CS-18 (0-6")	632582-007	07/30/19				08/07/19	28	8	
CS-18 (6"-24")	632582-008	07/30/19				08/07/19	28	8	
CS-19 (0-6")	632582-009	07/30/19				08/07/19	28	8	
CS-19 (6"-24")	632582-010	07/30/19				08/07/19	28	8	
CS-20 (0-6")	632582-011	07/30/19				08/07/19	28	8	
CS-20 (6"-24")	632582-012	07/30/19				08/07/19	28	8	
CS-21 (0-6")	632582-013	07/30/19				08/07/19	28	8	
CS-21 (6"-24")	632582-014	07/30/19				08/07/19	28	8	
CS-22 (0-6")	632582-015	07/30/19				08/07/19	28	8	
CS-22 (6"-24")	632582-016	07/30/19				08/07/19	28	8	
CS-23 (0-6")	632582-017	07/30/19				08/07/19	28	8	
CS-23 (6"-24")	632582-018	07/30/19				08/07/19	28	8	
CS-24 (0-6")	632582-019	07/30/19				08/07/19	28	8	
CS-24 (6"-24")	632582-020	07/30/19				08/07/19	28	8	
CS-25 (0-6")	632582-021	07/30/19				08/08/19	28	9	
CS-25 (6"-24")	632582-022	07/30/19				08/08/19	28	9	
CS-26 (0-6")	632582-023	07/30/19				08/08/19	28	9	
CS-26 (6"-24")	632582-024	07/30/19				08/08/19	28	9	
CS-27 (0-6")	632582-025	07/30/19				08/08/19	28	9	
CS-27 (6-24")	632582-026	07/30/19				08/08/19	28	9	

CHRONOLOGY OF HOLDING TIMES

Analytical Method : Percent Moisture by SM2540G
Work Order #: **632582**
Date Received: 07/31/19

Client : Universal Engineering Services Miam
Project ID: 2110.1900103.0000

Field Sample ID	Lab Sample ID	Date Collected	Date Extracted	Max Holding Time Extracted (Days)	Time Held Extracted (Days)	Date Analyzed	Max Holding Time Analyzed (Days)	Time Held Analyzed (Days)	Q
CS-15 (0-6")	632582-001	07/30/19				08/06/19	180	7	
CS-15 (6"-24")	632582-002	07/30/19				08/06/19	180	7	
CS-16 (0-6")	632582-003	07/30/19				08/06/19	180	7	
CS-16 (6"-24")	632582-004	07/30/19				08/06/19	180	7	
CS-17 (0-6")	632582-005	07/30/19				08/06/19	180	7	
CS-17 (6"-24")	632582-006	07/30/19				08/06/19	180	7	
CS-18 (0-6")	632582-007	07/30/19				08/06/19	180	7	
CS-18 (6"-24")	632582-008	07/30/19				08/06/19	180	7	
CS-19 (0-6")	632582-009	07/30/19				08/06/19	180	7	
CS-19 (6"-24")	632582-010	07/30/19				08/06/19	180	7	
CS-20 (0-6")	632582-011	07/30/19				08/06/19	180	7	
CS-20 (6"-24")	632582-012	07/30/19				08/06/19	180	7	
CS-21 (0-6")	632582-013	07/30/19				08/06/19	180	7	
CS-21 (6"-24")	632582-014	07/30/19				08/06/19	180	7	
CS-22 (0-6")	632582-015	07/30/19				08/06/19	180	7	
CS-22 (6"-24")	632582-016	07/30/19				08/06/19	180	7	
CS-23 (0-6")	632582-017	07/30/19				08/06/19	180	7	
CS-23 (6"-24")	632582-018	07/30/19				08/06/19	180	7	
CS-24 (0-6")	632582-019	07/30/19				08/06/19	180	7	
CS-24 (6"-24")	632582-020	07/30/19				08/06/19	180	7	
CS-25 (0-6")	632582-021	07/30/19				08/05/19	180	6	
CS-25 (6"-24")	632582-022	07/30/19				08/05/19	180	6	
CS-26 (0-6")	632582-023	07/30/19				08/05/19	180	6	
CS-26 (6"-24")	632582-024	07/30/19				08/05/19	180	6	
CS-27 (0-6")	632582-025	07/30/19				08/05/19	180	6	
CS-27 (6-24")	632582-026	07/30/19				08/05/19	180	6	

CHRONOLOGY OF HOLDING TIMES

Analytical Method : Metals, Total by SW846 6010C
Work Order #: **632582**
Date Received: 07/31/19

Client : Universal Engineering Services Miam
Project ID: 2110.1900103.0000

Field Sample ID	Lab Sample ID	Date Collected	Date Extracted	Max Holding Time Extracted (Days)	Time Held Extracted (Days)	Date Analyzed	Max Holding Time Analyzed (Days)	Time Held Analyzed (Days)	Q
CS-15 (0-6")	632582-001	07/30/19	08/05/19	180	6	08/05/19	180	0	
CS-15 (6"-24")	632582-002	07/30/19	08/05/19	180	6	08/05/19	180	0	
CS-16 (0-6")	632582-003	07/30/19	08/05/19	180	6	08/05/19	180	0	
CS-16 (6"-24")	632582-004	07/30/19	08/05/19	180	6	08/05/19	180	0	
CS-17 (0-6")	632582-005	07/30/19	08/05/19	180	6	08/05/19	180	0	
CS-17 (6"-24")	632582-006	07/30/19	08/05/19	180	6	08/05/19	180	0	
CS-18 (0-6")	632582-007	07/30/19	08/05/19	180	6	08/05/19	180	0	
CS-18 (6"-24")	632582-008	07/30/19	08/05/19	180	6	08/05/19	180	0	
CS-19 (0-6")	632582-009	07/30/19	08/05/19	180	6	08/05/19	180	0	
CS-19 (6"-24")	632582-010	07/30/19	08/05/19	180	6	08/05/19	180	0	
CS-20 (0-6")	632582-011	07/30/19	08/05/19	180	6	08/05/19	180	0	
CS-20 (6"-24")	632582-012	07/30/19	08/05/19	180	6	08/05/19	180	0	
CS-21 (0-6")	632582-013	07/30/19	08/05/19	180	6	08/05/19	180	0	
CS-21 (6"-24")	632582-014	07/30/19	08/05/19	180	6	08/05/19	180	0	
CS-22 (0-6")	632582-015	07/30/19	08/05/19	180	6	08/05/19	180	0	
CS-22 (6"-24")	632582-016	07/30/19	08/05/19	180	6	08/05/19	180	0	
CS-23 (0-6")	632582-017	07/30/19	08/05/19	180	6	08/06/19	180	1	
CS-23 (6"-24")	632582-018	07/30/19	08/06/19	180	7	08/06/19	180	0	
CS-24 (0-6")	632582-019	07/30/19	08/06/19	180	7	08/06/19	180	0	
CS-24 (6"-24")	632582-020	07/30/19	08/06/19	180	7	08/06/19	180	0	
CS-25 (0-6")	632582-021	07/30/19	08/06/19	180	7	08/06/19	180	0	
CS-25 (6"-24")	632582-022	07/30/19	08/06/19	180	7	08/06/19	180	0	
CS-26 (0-6")	632582-023	07/30/19	08/06/19	180	7	08/06/19	180	0	
CS-26 (6"-24")	632582-024	07/30/19	08/06/19	180	7	08/06/19	180	0	
CS-27 (0-6")	632582-025	07/30/19	08/06/19	180	7	08/06/19	180	0	
CS-27 (6-24")	632582-026	07/30/19	08/06/19	180	7	08/06/19	180	0	

CHRONOLOGY OF HOLDING TIMES

Analytical Method : Pesticides by SW-846 8081B
Work Order #: **632582**
Date Received: 07/31/19

Client : Universal Engineering Services Miam
Project ID: 2110.1900103.0000

Field Sample ID	Lab Sample ID	Date Collected	Date Extracted	Max Holding Time Extracted (Days)	Time Held Extracted (Days)	Date Analyzed	Max Holding Time Analyzed (Days)	Time Held Analyzed (Days)	Q
CS-15 (0-6")	632582-001	07/30/19	08/08/19	14	9	08/09/19	40	1	
CS-15 (6"-24")	632582-002	07/30/19	08/08/19	14	9	08/09/19	40	1	
CS-16 (0-6")	632582-003	07/30/19	08/08/19	14	9	08/09/19	40	1	
CS-16 (6"-24")	632582-004	07/30/19	08/08/19	14	9	08/09/19	40	1	
CS-17 (0-6")	632582-005	07/30/19	08/08/19	14	9	08/09/19	40	1	
CS-17 (6"-24")	632582-006	07/30/19	08/08/19	14	9	08/09/19	40	1	
CS-18 (0-6")	632582-007	07/30/19	08/08/19	14	9	08/09/19	40	1	
CS-18 (6"-24")	632582-008	07/30/19	08/08/19	14	9	08/09/19	40	1	
CS-19 (0-6")	632582-009	07/30/19	08/08/19	14	9	08/09/19	40	1	
CS-19 (6"-24")	632582-010	07/30/19	08/08/19	14	9	08/09/19	40	1	
CS-20 (0-6")	632582-011	07/30/19	08/08/19	14	9	08/10/19	40	2	
CS-20 (6"-24")	632582-012	07/30/19	08/08/19	14	9	08/10/19	40	2	
CS-21 (0-6")	632582-013	07/30/19	08/08/19	14	9	08/10/19	40	2	
CS-21 (6"-24")	632582-014	07/30/19	08/08/19	14	9	08/09/19	40	1	
CS-22 (0-6")	632582-015	07/30/19	08/08/19	14	9	08/09/19	40	1	
CS-22 (6"-24")	632582-016	07/30/19	08/08/19	14	9	08/09/19	40	1	
CS-23 (0-6")	632582-017	07/30/19	08/08/19	14	9	08/09/19	40	1	
CS-23 (6"-24")	632582-018	07/30/19	08/08/19	14	9	08/09/19	40	1	
CS-24 (0-6")	632582-019	07/30/19	08/08/19	14	9	08/09/19	40	1	
CS-24 (6"-24")	632582-020	07/30/19	08/08/19	14	9	08/09/19	40	1	
CS-25 (0-6")	632582-021	07/30/19	08/09/19	14	10	08/09/19	40	0	
CS-25 (6"-24")	632582-022	07/30/19	08/09/19	14	10	08/09/19	40	0	
CS-26 (0-6")	632582-023	07/30/19	08/09/19	14	10	08/09/19	40	0	
CS-26 (6"-24")	632582-024	07/30/19	08/08/19	14	9	08/08/19	40	0	
CS-27 (0-6")	632582-025	07/30/19	08/09/19	14	10	08/10/19	40	1	
CS-27 (6-24")	632582-026	07/30/19	08/09/19	14	10	08/09/19	40	0	

CHRONOLOGY OF HOLDING TIMES

Analytical Method : EPA 8141 Organophosphorus Pesticides by GC
Work Order #: **632582**
Date Received: 07/31/19

Client : Universal Engineering Services Miam
Project ID: 2110.1900103.0000

Field Sample ID	Lab Sample ID	Date Collected	Date Extracted	Max Holding Time Extracted (Days)	Time Held Extracted (Days)	Date Analyzed	Max Holding Time Analyzed (Days)	Time Held Analyzed (Days)	Q
CS-15 (0-6")	632582-001	07/30/19	08/07/19	14	8	08/07/19	40	0	
CS-15 (6"-24")	632582-002	07/30/19	08/07/19	14	8	08/07/19	40	0	
CS-16 (0-6")	632582-003	07/30/19	08/07/19	14	8	08/07/19	40	0	
CS-16 (6"-24")	632582-004	07/30/19	08/07/19	14	8	08/07/19	40	0	
CS-17 (0-6")	632582-005	07/30/19	08/07/19	14	8	08/07/19	40	0	
CS-17 (6"-24")	632582-006	07/30/19	08/07/19	14	8	08/07/19	40	0	
CS-18 (0-6")	632582-007	07/30/19	08/07/19	14	8	08/07/19	40	0	
CS-18 (6"-24")	632582-008	07/30/19	08/07/19	14	8	08/07/19	40	0	
CS-19 (0-6")	632582-009	07/30/19	08/07/19	14	8	08/07/19	40	0	
CS-19 (6"-24")	632582-010	07/30/19	08/07/19	14	8	08/07/19	40	0	
CS-20 (0-6")	632582-011	07/30/19	08/07/19	14	8	08/07/19	40	0	
CS-20 (6"-24")	632582-012	07/30/19	08/07/19	14	8	08/07/19	40	0	
CS-21 (0-6")	632582-013	07/30/19	08/07/19	14	8	08/08/19	40	1	
CS-21 (6"-24")	632582-014	07/30/19	08/07/19	14	8	08/08/19	40	1	
CS-22 (0-6")	632582-015	07/30/19	08/07/19	14	8	08/08/19	40	1	
CS-22 (6"-24")	632582-016	07/30/19	08/07/19	14	8	08/08/19	40	1	
CS-23 (0-6")	632582-017	07/30/19	08/07/19	14	8	08/08/19	40	1	
CS-23 (6"-24")	632582-018	07/30/19	08/07/19	14	8	08/08/19	40	1	
CS-24 (0-6")	632582-019	07/30/19	08/07/19	14	8	08/08/19	40	1	
CS-24 (6"-24")	632582-020	07/30/19	08/07/19	14	8	08/08/19	40	1	
CS-25 (0-6")	632582-021	07/30/19	08/08/19	14	9	08/08/19	40	0	
CS-25 (6"-24")	632582-022	07/30/19	08/08/19	14	9	08/08/19	40	0	
CS-26 (0-6")	632582-023	07/30/19	08/08/19	14	9	08/08/19	40	0	
CS-26 (6"-24")	632582-024	07/30/19	08/08/19	14	9	08/08/19	40	0	
CS-27 (0-6")	632582-025	07/30/19	08/08/19	14	9	08/08/19	40	0	
CS-27 (6-24")	632582-026	07/30/19	08/08/19	14	9	08/08/19	40	0	

F = These samples were analyzed outside the recommended holding time.

Flagging Criteria

FLORIDA flagging criteria

Data were reviewed by the
Department Supervisor and QA Director

A Value reported is the mean (average) of two or more determinations.

B Results based upon colony counts outside the acceptable range.

J Estimated value; value not accurate. All results with a "J" qualifier require comment.

- J1: Surrogate Recoveries exceed established QA/QC Limits
- J2: No known QA/QC exists.
- J3: Reported value failed to meet established QA/QC limits or the sample matrix interfered with the ability to make an accurate determination
- J4: The data is questionable due to improper laboratory or field protocols

Q Sample held beyond the accepted holding time

T Value reported is less than the laboratory method detection limit. The value is reported for informational purposes, only and shall not be used in statistical analysis.

U Compound was analyzed for but not detected at the MDL Level.

V Analyte was detected in both the sample and the associated method blank.

Y Laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.

I The reported value is between the laboratory MDL and the laboratory PQL.

R Significant rain in the past 48 hours.

\+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

L Off-scale high. Actual value is known to be greater than value given. To be used when the concentration of the analyte is above the acceptable level for quantitation (exceeds the linear range or highest calibration standard) and the calibration curve is known to exhibit a negative deflection.

QC Summary 632582

Universal Engineering Services Miami

Proposed Publix

Analytical Method: **Percent Moisture by SM2540G**
Seq Number: 3097514 Matrix: Soil
Parent Sample Id: 632582-021 MD Sample Id: 632582-021 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Percent Moisture	30.2	30.7	2	10	%	08.05.19 16:05	

Analytical Method: **Percent Moisture by SM2540G**
Seq Number: 3097514 Matrix: Soil
Parent Sample Id: 632742-001 MD Sample Id: 632742-001 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Percent Moisture	13.5	12.9	5	10	%	08.05.19 16:05	

Analytical Method: **Percent Moisture by SM2540G**
Seq Number: 3097603 Matrix: Soil
Parent Sample Id: 632582-001 MD Sample Id: 632582-001 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Percent Moisture	30.2	31.1	3	10	%	08.06.19 11:30	

Analytical Method: **Percent Moisture by SM2540G**
Seq Number: 3097603 Matrix: Soil
Parent Sample Id: 632582-011 MD Sample Id: 632582-011 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Percent Moisture	23.7	22.9	3	10	%	08.06.19 11:30	

Analytical Method: **Metals, Total by SW846 6010C** Prep Method: SW3050B
Seq Number: 3097619 Matrix: Solid Date Prep: 08.05.19
MB Sample Id: 7683536-1-BLK LCS Sample Id: 7683536-1-BKS LCSD Sample Id: 7683536-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Arsenic	<0.424	100	97.3	97	96.6	97	75-125	1	20	mg/kg	08.05.19 22:11	
Chromium	<0.0704	100	102	102	102	102	75-125	0	20	mg/kg	08.05.19 22:11	
Copper	<0.443	100	97.0	97	97.5	98	75-125	1	20	mg/kg	08.05.19 22:11	
Iron	<2.70	500	495	99	494	99	75-125	0	20	mg/kg	08.05.19 22:11	
Lead	<0.476	100	102	102	102	102	75-125	0	20	mg/kg	08.05.19 22:11	
Manganese	<0.278	100	99.4	99	99.5	100	75-125	0	20	mg/kg	08.05.19 22:11	

MS/MSD Percent Recovery [D] = 100*(C-A) / B LCS = Laboratory Control Sample MS = Matrix Spike
Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result B = Spike Added
LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result D = MSD/LCSD % Rec
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

QC Summary 632582

Universal Engineering Services Miami

Proposed Publix

Analytical Method: Metals, Total by SW846 6010C — Prep Method: SW3050B
Seq Number: 3097748 — Matrix: Solid — Date Prep: 08.06.19
MB Sample Id: 7683608-1-BLK — LCS Sample Id: 7683608-1-BKS — LCSD Sample Id: 7683608-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Arsenic	<0.424	100	95.7	96	95.5	96	75-125	0	20	mg/kg	08.06.19 18:10	
Chromium	<0.0704	100	100	100	101	101	75-125	1	20	mg/kg	08.06.19 18:10	
Copper	<0.443	100	95.6	96	96.0	96	75-125	0	20	mg/kg	08.06.19 18:10	
Iron	<2.70	500	483	97	483	97	75-125	0	20	mg/kg	08.06.19 18:10	
Lead	<0.476	100	102	102	102	102	75-125	0	20	mg/kg	08.06.19 18:10	
Manganese	<0.278	100	98.1	98	98.1	98	75-125	0	20	mg/kg	08.06.19 18:10	

Analytical Method: Metals, Total by SW846 6010C — Prep Method: SW3050B
Seq Number: 3097619 — Matrix: Soil — Date Prep: 08.05.19
Parent Sample Id: 632582-001 — MS Sample Id: 632582-001 S — MSD Sample Id: 632582-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Arsenic	19.4	141	142	87	139	89	75-125	2	20	mg/kg	08.05.19 22:23	
Chromium	10.4	141	131	86	129	88	75-125	2	20	mg/kg	08.05.19 22:23	
Copper	34.1	141	150	82	146	83	75-125	3	20	mg/kg	08.05.19 22:23	
Iron	1360	703	1920	80	1890	78	75-125	2	20	mg/kg	08.05.19 22:23	
Lead	9.05	141	125	82	124	85	75-125	1	20	mg/kg	08.05.19 22:23	
Manganese	307	141	348	29	341	25	75-125	2	20	mg/kg	08.05.19 22:23	J

Analytical Method: Metals, Total by SW846 6010C — Prep Method: SW3050B
Seq Number: 3097748 — Matrix: Soil — Date Prep: 08.06.19
Parent Sample Id: 632582-018 — MS Sample Id: 632582-018 S — MSD Sample Id: 632582-018 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Arsenic	9.39	138	144	98	132	97	75-125	9	20	mg/kg	08.06.19 18:22	
Chromium	2.74	138	135	96	122	95	75-125	10	20	mg/kg	08.06.19 18:22	
Copper	<0.613	138	127	92	116	92	75-125	9	20	mg/kg	08.06.19 18:22	
Iron	666	692	1390	105	1260	94	75-125	10	20	mg/kg	08.06.19 18:22	
Lead	<0.658	138	117	85	107	85	75-125	9	20	mg/kg	08.06.19 18:22	
Manganese	21.0	138	152	95	139	94	75-125	9	20	mg/kg	08.06.19 18:22	

Analytical Method: SPLP Ammonia By EPA 350.1 — Prep Method: E350.1P
Seq Number: 3097787 — Matrix: Water — Date Prep: 08.07.19
MB Sample Id: 7683712-1-BLK — LCS Sample Id: 7683712-1-BKS — LCSD Sample Id: 7683712-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Nitrogen, Ammonia (as N)	<0.0345	1.00	1.02	102	1.00	100	90-110	2	20	mg/L	08.07.19 15:19	

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

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Analytical Method: SPLP Ammonia By EPA 350.1 — Prep Method: E350.1P
Seq Number: 3097801 — Matrix: Water — Date Prep: 08.07.19
MB Sample Id: 7683715-1-BLK — LCS Sample Id: 7683715-1-BKS — LCSD Sample Id: 7683715-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Nitrogen, Ammonia (as N)	<0.0345	1.00	1.04	104	1.03	103	90-110	1	20	mg/L	08.07.19 16:18	

Analytical Method: SPLP Ammonia By EPA 350.1 — Prep Method: E350.1P
Seq Number: 3097930 — Matrix: Water — Date Prep: 08.08.19
MB Sample Id: 7683822-1-BLK — LCS Sample Id: 7683822-1-BKS — LCSD Sample Id: 7683822-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Nitrogen, Ammonia (as N)	<0.0345	1.00	1.03	103	1.02	102	90-110	1	20	mg/L	08.08.19 15:44	

Analytical Method: SPLP Ammonia By EPA 350.1 — Prep Method: E350.1P
Seq Number: 3097787 — Matrix: Soil — Date Prep: 08.07.19
Parent Sample Id: 632441-014 — MS Sample Id: 632441-014 S — MSD Sample Id: 632441-014 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Nitrogen, Ammonia (as N)	0.0850	1.00	1.11	103	1.14	106	90-110	3	20	mg/L	08.07.19 15:22	

Analytical Method: SPLP Ammonia By EPA 350.1 — Prep Method: E350.1P
Seq Number: 3097787 — Matrix: Soil — Date Prep: 08.07.19
Parent Sample Id: 632441-024 — MS Sample Id: 632441-024 S — MSD Sample Id: 632441-024 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Nitrogen, Ammonia (as N)	0.0525	1.00	1.14	109	1.18	113	90-110	3	20	mg/L	08.07.19 15:35	J

Analytical Method: SPLP Ammonia By EPA 350.1 — Prep Method: E350.1P
Seq Number: 3097801 — Matrix: Soil — Date Prep: 08.07.19
Parent Sample Id: 632582-004 — MS Sample Id: 632582-004 S — MSD Sample Id: 632582-004 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Nitrogen, Ammonia (as N)	0.0432	1.00	1.02	98	1.05	101	90-110	3	20	mg/L	08.07.19 16:20	

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

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Analytical Method: SPLP Ammonia By EPA 350.1 — Prep Method: E350.1P
Seq Number: 3097801 — Matrix: Soil — Date Prep: 08.07.19
Parent Sample Id: 632582-014 — MS Sample Id: 632582-014 S — MSD Sample Id: 632582-014 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Nitrogen, Ammonia (as N)	0.437	1.00	1.36	92	1.38	94	90-110	1	20	mg/L	08.07.19 16:34	

Analytical Method: SPLP Ammonia By EPA 350.1 — Prep Method: E350.1P
Seq Number: 3097930 — Matrix: Soil — Date Prep: 08.08.19
Parent Sample Id: 632582-023 — MS Sample Id: 632582-023 S — MSD Sample Id: 632582-023 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Nitrogen, Ammonia (as N)	0.0775	1.00	1.09	101	1.09	101	90-110	0	20	mg/L	08.08.19 15:47	

Analytical Method: SPLP Ammonia By EPA 350.1 — Prep Method: E350.1P
Seq Number: 3097930 — Matrix: Water — Date Prep: 08.08.19
Parent Sample Id: 632599-003 — MS Sample Id: 632599-003 S — MSD Sample Id: 632599-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Nitrogen, Ammonia (as N)	<0.0345	1.00	1.02	102	1.01	101	90-110	1	20	mg/L	08.08.19 16:00	

Analytical Method: SPLP Nitrate-Nitrite by E353.2 — Prep Method: E353.2P
Seq Number: 3097830 — Matrix: Water — Date Prep: 08.07.19
MB Sample Id: 7683733-1-BLK — LCS Sample Id: 7683733-1-BKS — LCSD Sample Id: 7683733-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Nitrogen, Nitrate-Nitrite	<0.0283	1.00	0.948	95	1.05	105	90-110	10	20	mg/L	08.07.19 20:13	

Analytical Method: SPLP Nitrate-Nitrite by E353.2 — Prep Method: E353.2P
Seq Number: 3097874 — Matrix: Water — Date Prep: 08.07.19
MB Sample Id: 7683734-1-BLK — LCS Sample Id: 7683734-1-BKS — LCSD Sample Id: 7683734-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Nitrogen, Nitrate-Nitrite	<0.0283	1.00	1.09	109	0.965	97	90-110	12	20	mg/L	08.08.19 10:24	

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

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Analytical Method: SPLP Nitrate-Nitrite by E353.2 Prep Method: E353.2P
Seq Number: 3097830 Matrix: Soil Date Prep: 08.07.19
Parent Sample Id: 632582-001 MS Sample Id: 632582-001 S MSD Sample Id: 632582-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Nitrogen, Nitrate-Nitrite	0.172	1.00	1.07	90	1.25	108	90-110	16	20	mg/L	08.07.19 20:18	

Analytical Method: SPLP Nitrate-Nitrite by E353.2 Prep Method: E353.2P
Seq Number: 3097830 Matrix: Soil Date Prep: 08.07.19
Parent Sample Id: 632582-011 MS Sample Id: 632582-011 S MSD Sample Id: 632582-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Nitrogen, Nitrate-Nitrite	1.05	1.00	2.17	112	2.06	101	90-110	5	20	mg/L	08.07.19 20:41	J

Analytical Method: SPLP Nitrate-Nitrite by E353.2 Prep Method: E353.2P
Seq Number: 3097874 Matrix: Surface Water Date Prep: 08.07.19
Parent Sample Id: 632546-011 MS Sample Id: 632546-011 S MSD Sample Id: 632546-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Nitrogen, Nitrate-Nitrite	0.294	1.00	1.18	89	1.28	99	90-110	8	20	mg/L	08.08.19 10:52	J

Analytical Method: SPLP Nitrate-Nitrite by E353.2 Prep Method: E353.2P
Seq Number: 3097874 Matrix: Soil Date Prep: 08.07.19
Parent Sample Id: 632582-021 MS Sample Id: 632582-021 S MSD Sample Id: 632582-021 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Nitrogen, Nitrate-Nitrite	0.343	1.00	1.45	111	1.44	110	90-110	1	20	mg/L	08.08.19 10:29	J

MS/MSD Percent Recovery [D] = 100*(C-A) / B LCS = Laboratory Control Sample MS = Matrix Spike
Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result B = Spike Added
LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result D = MSD/LCSD % Rec
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

QC Summary 632582

Universal Engineering Services Miami

Proposed Publix

Analytical Method: **EPA 8141 Organophosphorus Pesticides by GC** Prep Method: SW3550

Seq Number: 3097841 Matrix: Solid Date Prep: 08.07.19

MB Sample Id: 7683763-1-BLK LCS Sample Id: 7683763-1-BKS LCSD Sample Id: 7683763-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
azinphos-methyl	<0.00166	0.0332	0.0389	117	0.0365	110	61-133	6	20	mg/kg	08.07.19 14:01	
Chlorfenvinphos	<0.00166	0.0332	0.0701	211	0.0701	211	38-132	0	20	mg/kg	08.07.19 14:01	J
Chlorpyrifos	<0.00166	0.0332	0.0332	100	0.0326	98	54-124	2	20	mg/kg	08.07.19 14:01	
Chlorpyrifos methyl	<0.00166	0.0332	0.0372	112	0.0365	110	38-129	2	20	mg/kg	08.07.19 14:01	
Coumaphos	<0.00166	0.0332	0.0369	111	0.0365	110	58-127	1	20	mg/kg	08.07.19 14:01	
Demeton-O	<0.00166	0.0332	0.0282	85	0.0279	84	21-131	1	20	mg/kg	08.07.19 14:01	
Demeton-S	<0.00166	0.0332	0.0276	83	0.0269	81	13-127	3	20	mg/kg	08.07.19 14:01	
Diazinon	<0.00166	0.0332	0.0312	94	0.0309	93	53-116	1	20	mg/kg	08.07.19 14:01	
Dimethoate	<0.00166	0.0332	0.0359	108	0.0359	108	16-116	0	20	mg/kg	08.07.19 14:01	
EPN (Ent)	<0.00166	0.0332	0.0382	115	0.0355	107	50-135	7	20	mg/kg	08.07.19 14:01	
Ethoprop	<0.00166	0.0332	0.0342	103	0.0342	103	57-122	0	20	mg/kg	08.07.19 14:01	
Fensulfothion	<0.00166	0.0332	0.0359	108	0.0362	109	27-141	1	20	mg/kg	08.07.19 14:01	
Fenthion	<0.00166	0.0332	0.0355	107	0.0349	105	45-125	2	20	mg/kg	08.07.19 14:01	
Malathion	<0.00166	0.0332	0.0326	98	0.0329	99	49-129	1	20	mg/kg	08.07.19 14:01	
Merphos	<0.00166	0.0332	0.0551	166	0.0555	167	31-130	1	20	mg/kg	08.07.19 14:01	J
Mevinphos	<0.00166	0.0332	0.0319	96	0.0326	98	40-117	2	20	mg/kg	08.07.19 14:01	
Monocrotophos	<0.00166	0.0332	0.0379	114	0.0379	114	54-105	0	20	mg/kg	08.07.19 14:01	J
Naled	<0.00166	0.0664	0.0654	98	0.0628	95	53-130	4	20	mg/kg	08.07.19 14:01	
Parathion, Ethyl	<0.00166	0.0664	0.0704	106	0.0701	106	54-127	0	20	mg/kg	08.07.19 14:01	
Parathion, Methyl	<0.00166	0.0332	0.0339	102	0.0319	96	57-125	6	20	mg/kg	08.07.19 14:01	
Phorate	<0.00166	0.0332	0.0299	90	0.0312	94	46-126	4	20	mg/kg	08.07.19 14:01	
Ronnel	<0.00166	0.0664	0.0548	83	0.0551	83	42-130	1	20	mg/kg	08.07.19 14:01	
stirophos	<0.00166	0.0332	0.0346	104	0.0339	102	56-126	2	20	mg/kg	08.07.19 14:01	
Sulfotep	<0.00166	0.0664	0.0638	96	0.0628	95	45-127	2	20	mg/kg	08.07.19 14:01	
Sulprofos	<0.00166	0.0332	0.0329	99	0.0322	97	62-124	2	20	mg/kg	08.07.19 14:01	
TEPP	<0.00166	0.0332	0.0282	85	0.0276	83	2-106	2	20	mg/kg	08.07.19 14:01	
Tokuthion	<0.00166	0.0332	0.0349	105	0.0346	104	63-119	1	20	mg/kg	08.07.19 14:01	
Trichlorfon	<0.00166	0.0332	0.0302	91	0.0329	99	12-120	9	20	mg/kg	08.07.19 14:01	
Trichloronate	<0.00166	0.0332	0.0322	97	0.0319	96	51-133	1	20	mg/kg	08.07.19 14:01	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
Tributyl Phosphate	82		100		99		38-123	%	08.07.19 14:01

MS/MSD Percent Recovery [D] = 100*(C-A) / B LCS = Laboratory Control Sample MS = Matrix Spike

Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result B = Spike Added

LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result D = MSD/LCSD % Rec

Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

QC Summary 632582

Universal Engineering Services Miami

Proposed Publix

Analytical Method: **EPA 8141 Organophosphorus Pesticides by GC** Prep Method: SW3550

Seq Number: 3098000 Matrix: Solid Date Prep: 08.08.19

MB Sample Id: 7683845-1-BLK LCS Sample Id: 7683845-1-BKS LCSD Sample Id: 7683845-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
azinphos-methyl	<0.00167	0.0333	0.0470	141	0.0350	105	61-133	29	20	mg/kg	08.08.19 15:23	J
Chlorfenvinphos	<0.00167	0.0333	0.0810	243	0.0697	209	38-132	15	20	mg/kg	08.08.19 15:23	J
Chlorpyrifos	<0.00167	0.0333	0.0367	110	0.0310	93	54-124	17	20	mg/kg	08.08.19 15:23	
Chlorpyrifos methyl	<0.00167	0.0333	0.0417	125	0.0340	102	38-129	20	20	mg/kg	08.08.19 15:23	
Coumaphos	<0.00167	0.0333	0.0407	122	0.0347	104	58-127	16	20	mg/kg	08.08.19 15:23	
Demeton-O	<0.00167	0.0333	0.0290	87	0.0237	71	21-131	20	20	mg/kg	08.08.19 15:23	
Demeton-S	<0.00167	0.0333	0.0270	81	0.0237	71	13-127	13	20	mg/kg	08.08.19 15:23	
Diazinon	<0.00167	0.0333	0.0353	106	0.0307	92	53-116	14	20	mg/kg	08.08.19 15:23	
Dimethoate	<0.00167	0.0333	0.0383	115	0.0333	100	16-116	14	20	mg/kg	08.08.19 15:23	
EPN (Ent)	<0.00167	0.0333	0.0417	125	0.0370	111	50-135	12	20	mg/kg	08.08.19 15:23	
Ethoprop	<0.00167	0.0333	0.0377	113	0.0320	96	57-122	16	20	mg/kg	08.08.19 15:23	
Fensulfothion	<0.00167	0.0333	0.0407	122	0.0363	109	27-141	11	20	mg/kg	08.08.19 15:23	
Fenthion	<0.00167	0.0333	0.0383	115	0.0317	95	45-125	19	20	mg/kg	08.08.19 15:23	
Malathion	<0.00167	0.0333	0.0363	109	0.0320	96	49-129	13	20	mg/kg	08.08.19 15:23	
Merphos	<0.00167	0.0333	0.0597	179	0.0520	156	31-130	14	20	mg/kg	08.08.19 15:23	J
Mevinphos	<0.00167	0.0333	0.0350	105	0.0303	91	40-117	14	20	mg/kg	08.08.19 15:23	
Monocrotophos	<0.00167	0.0333	0.0437	131	0.0370	111	54-105	17	20	mg/kg	08.08.19 15:23	J
Naled	<0.00167	0.0667	0.0750	112	0.0640	96	53-130	16	20	mg/kg	08.08.19 15:23	
Parathion, Ethyl	<0.00167	0.0667	0.0810	121	0.0697	104	54-127	15	20	mg/kg	08.08.19 15:23	
Parathion, Methyl	<0.00167	0.0333	0.0397	119	0.0330	99	57-125	18	20	mg/kg	08.08.19 15:23	
Phorate	<0.00167	0.0333	0.0323	97	0.0283	85	46-126	13	20	mg/kg	08.08.19 15:23	
Ronnel	<0.00167	0.0667	0.0593	89	0.0517	78	42-130	14	20	mg/kg	08.08.19 15:23	
stirophos	<0.00167	0.0333	0.0393	118	0.0330	99	56-126	17	20	mg/kg	08.08.19 15:23	
Sulfotep	<0.00167	0.0667	0.0750	112	0.0640	96	45-127	16	20	mg/kg	08.08.19 15:23	
Sulprofos	<0.00167	0.0333	0.0363	109	0.0303	91	62-124	18	20	mg/kg	08.08.19 15:23	
TEPP	<0.00167	0.0333	0.0357	107	0.0317	95	2-106	12	20	mg/kg	08.08.19 15:23	J
Tokuthion	<0.00167	0.0333	0.0383	115	0.0327	98	63-119	16	20	mg/kg	08.08.19 15:23	
Trichlorfon	<0.00167	0.0333	0.0427	128	0.0373	112	12-120	14	20	mg/kg	08.08.19 15:23	J
Trichloronate	<0.00167	0.0333	0.0347	104	0.0300	90	51-133	15	20	mg/kg	08.08.19 15:23	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
Tributyl Phosphate	98		111		101		38-123	%	08.08.19 15:23

MS/MSD Percent Recovery [D] = 100*(C-A) / B LCS = Laboratory Control Sample MS = Matrix Spike

Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result B = Spike Added

LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result D = MSD/LCSD % Rec

Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

QC Summary 632582

Universal Engineering Services Miami

Proposed Publix

Analytical Method: **EPA 8141 Organophosphorus Pesticides by GC** Prep Method: SW3550

Seq Number: 3097841 Matrix: Soil Date Prep: 08.07.19

Parent Sample Id: 632582-001 MS Sample Id: 632582-001 S MSD Sample Id: 632582-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
azinphos-methyl	<0.00166	0.0332	0.0415	125	0.0414	125	61-133	0	20	mg/kg	08.07.19 15:04	
Chlorfenvinphos	<0.00166	0.0332	0.0748	225	0.0732	221	38-132	2	20	mg/kg	08.07.19 15:04	J
Chlorpyrifos	<0.00166	0.0332	0.0349	105	0.0344	104	54-124	1	20	mg/kg	08.07.19 15:04	
Chlorpyrifos methyl	<0.00166	0.0332	0.0392	118	0.0391	118	38-129	0	20	mg/kg	08.07.19 15:04	
Coumaphos	<0.00166	0.0332	0.0409	123	0.0384	116	58-127	6	20	mg/kg	08.07.19 15:04	
Demeton-O	<0.00166	0.0332	0.0306	92	0.0291	88	21-131	5	20	mg/kg	08.07.19 15:04	
Demeton-S	<0.00166	0.0332	0.0312	94	0.0298	90	13-127	5	20	mg/kg	08.07.19 15:04	
Diazinon	<0.00166	0.0332	0.0336	101	0.0328	99	53-116	2	20	mg/kg	08.07.19 15:04	
Dimethoate	<0.00166	0.0332	0.0382	115	0.0374	113	16-116	2	20	mg/kg	08.07.19 15:04	
EPN (Ent)	<0.00166	0.0332	0.0402	121	0.0387	117	50-135	4	20	mg/kg	08.07.19 15:04	
Ethoprop	<0.00166	0.0332	0.0352	106	0.0348	105	57-122	1	20	mg/kg	08.07.19 15:04	
Fensulfothion	<0.00166	0.0332	0.0372	112	0.0381	115	27-141	2	20	mg/kg	08.07.19 15:04	
Fenthion	<0.00166	0.0332	0.0382	115	0.0371	112	45-125	3	20	mg/kg	08.07.19 15:04	
Malathion	<0.00166	0.0332	0.0352	106	0.0341	103	49-129	3	20	mg/kg	08.07.19 15:04	
Merphos	<0.00166	0.0332	0.0578	174	0.0579	175	31-130	0	20	mg/kg	08.07.19 15:04	J
Mevinphos	<0.00166	0.0332	0.0326	98	0.0328	99	40-117	1	20	mg/kg	08.07.19 15:04	
Monocrotophos	<0.00166	0.0332	0.0412	124	0.0417	126	54-105	1	20	mg/kg	08.07.19 15:04	J
Naled	<0.00166	0.0664	0.0674	102	0.0642	97	53-130	5	20	mg/kg	08.07.19 15:04	
Parathion, Ethyl	<0.00166	0.0664	0.0748	113	0.0732	111	54-127	2	20	mg/kg	08.07.19 15:04	
Parathion, Methyl	<0.00166	0.0332	0.0362	109	0.0361	109	57-125	0	20	mg/kg	08.07.19 15:04	
Phorate	<0.00166	0.0332	0.0329	99	0.0318	96	46-126	3	20	mg/kg	08.07.19 15:04	
Ronnel	<0.00166	0.0664	0.0575	87	0.0573	87	42-130	0	20	mg/kg	08.07.19 15:04	
stirophos	<0.00166	0.0332	0.0372	112	0.0358	108	56-126	4	20	mg/kg	08.07.19 15:04	
Sulfotep	<0.00166	0.0664	0.0671	101	0.0619	94	45-127	8	20	mg/kg	08.07.19 15:04	
Sulprofos	<0.00166	0.0332	0.0359	108	0.0348	105	62-124	3	20	mg/kg	08.07.19 15:04	
TEPP	<0.00166	0.0332	0.0319	96	0.0318	96	2-106	0	20	mg/kg	08.07.19 15:04	
Tokuthion	<0.00166	0.0332	0.0369	111	0.0354	107	63-119	4	20	mg/kg	08.07.19 15:04	
Trichlorfon	<0.00166	0.0332	0.0359	108	0.0344	104	12-120	4	20	mg/kg	08.07.19 15:04	
Trichloronate	<0.00166	0.0332	0.0336	101	0.0325	98	51-133	3	20	mg/kg	08.07.19 15:04	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
Tributyl Phosphate	101		108		38-123	%	08.07.19 15:04

MS/MSD Percent Recovery [D] = 100*(C-A) / B LCS = Laboratory Control Sample MS = Matrix Spike

Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result B = Spike Added

LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result D = MSD/LCSD % Rec

Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

QC Summary 632582

Universal Engineering Services Miami

Proposed Publix

Analytical Method: **EPA 8141 Organophosphorus Pesticides by GC** Prep Method: SW3550

Seq Number: 3098000 Matrix: Soil Date Prep: 08.08.19

Parent Sample Id: 632582-021 MS Sample Id: 632582-021 S

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
azinphos-methyl	<0.00166	0.0332	0.0399	120	61-133	mg/kg	08.08.19 20:37	
Chlorfenvinphos	<0.00166	0.0332	0.0651	196	38-132	mg/kg	08.08.19 20:37	J
Chlorpyrifos	<0.00166	0.0332	0.0339	102	54-124	mg/kg	08.08.19 20:37	
Chlorpyrifos methyl	<0.00166	0.0332	0.0385	116	38-129	mg/kg	08.08.19 20:37	
Coumaphos	<0.00166	0.0332	0.0382	115	58-127	mg/kg	08.08.19 20:37	
Demeton-O	<0.00166	0.0332	0.0316	95	21-131	mg/kg	08.08.19 20:37	
Demeton-S	<0.00166	0.0332	0.0306	92	13-127	mg/kg	08.08.19 20:37	
Diazinon	<0.00166	0.0332	0.0329	99	53-116	mg/kg	08.08.19 20:37	
Dimethoate	<0.00166	0.0332	0.0336	101	16-116	mg/kg	08.08.19 20:37	
EPN (Ent)	<0.00166	0.0332	0.0322	97	50-135	mg/kg	08.08.19 20:37	
Ethoprop	<0.00166	0.0332	0.0352	106	57-122	mg/kg	08.08.19 20:37	
Fensulfothion	<0.00166	0.0332	0.0372	112	27-141	mg/kg	08.08.19 20:37	
Fenthion	<0.00166	0.0332	0.0375	113	45-125	mg/kg	08.08.19 20:37	
Malathion	<0.00166	0.0332	0.0322	97	49-129	mg/kg	08.08.19 20:37	
Merphos	<0.00166	0.0332	0.0568	171	31-130	mg/kg	08.08.19 20:37	J
Mevinphos	<0.00166	0.0332	0.0329	99	40-117	mg/kg	08.08.19 20:37	
Monocrotophos	<0.00166	0.0332	0.0296	89	54-105	mg/kg	08.08.19 20:37	
Naled	<0.00166	0.0664	0.0615	93	53-130	mg/kg	08.08.19 20:37	
Parathion, Ethyl	<0.00166	0.0664	0.0651	98	54-127	mg/kg	08.08.19 20:37	
Parathion, Methyl	<0.00166	0.0332	0.0362	109	57-125	mg/kg	08.08.19 20:37	
Phorate	<0.00166	0.0332	0.0322	97	46-126	mg/kg	08.08.19 20:37	
Ronnel	<0.00166	0.0664	0.0565	85	42-130	mg/kg	08.08.19 20:37	
stirophos	<0.00166	0.0332	0.0362	109	56-126	mg/kg	08.08.19 20:37	
Sulfotep	<0.00166	0.0664	0.0588	89	45-127	mg/kg	08.08.19 20:37	
Sulprofos	<0.00166	0.0332	0.0359	108	62-124	mg/kg	08.08.19 20:37	
TEPP	<0.00166	0.0332	0.0243	73	2-106	mg/kg	08.08.19 20:37	
Tokuthion	<0.00166	0.0332	0.0355	107	63-119	mg/kg	08.08.19 20:37	
Trichlorfon	<0.00166	0.0332	0.0276	83	12-120	mg/kg	08.08.19 20:37	
Trichloronate	<0.00166	0.0332	0.0329	99	51-133	mg/kg	08.08.19 20:37	

Surrogate	MS %Rec	MS Flag	Limits	Units	Analysis Date
Tributyl Phosphate	101		38-123	%	08.08.19 20:37

MS/MSD Percent Recovery [D] = 100*(C-A) / B LCS = Laboratory Control Sample MS = Matrix Spike

Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result B = Spike Added

LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result D = MSD/LCSD % Rec

Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

QC Summary 632582

Universal Engineering Services Miami

Proposed Publix

Analytical Method: **Pesticides by SW-846 8081B** Prep Method: SW3550

Seq Number: 3098123 Matrix: Solid Date Prep: 08.08.19

MB Sample Id: 7683856-1-BLK LCS Sample Id: 7683856-1-BKS LCSD Sample Id: 7683856-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
4,4-DDD	<0.000771	0.0167	0.0145	87	0.0149	89	20-164	3	25	mg/kg	08.09.19 13:04	
4,4-DDE	<0.00167	0.0167	0.0132	79	0.0143	86	29-157	8	25	mg/kg	08.09.19 13:04	
4,4-DDT	<0.000254	0.0167	0.0167	100	0.0171	102	13-192	2	25	mg/kg	08.09.19 13:04	
Aldrin	<0.000363	0.0167	0.0102	61	0.0114	68	30-152	11	25	mg/kg	08.09.19 13:04	
Alpha-BHC	<0.000680	0.0167	0.00961	58	0.0109	65	29-160	13	25	mg/kg	08.09.19 13:04	
Alpha-Chlordane	<0.000571	0.0167	0.0127	76	0.0134	80	30-154	5	25	mg/kg	08.09.19 13:04	
Beta-BHC	<0.000474	0.0167	0.0136	81	0.0142	85	30-155	4	25	mg/kg	08.09.19 13:04	
Delta-BHC	<0.00167	0.0167	0.00739	44	0.00761	46	20-161	3	25	mg/kg	08.09.19 13:04	
Dieldrin	<0.000169	0.0167	0.0137	82	0.0144	86	33-153	5	25	mg/kg	08.09.19 13:04	
Endosulfan I	<0.000202	0.0167	0.0125	75	0.0131	78	30-151	5	25	mg/kg	08.09.19 13:04	
Endosulfan II	<0.000372	0.0167	0.0149	89	0.0153	92	27-153	3	25	mg/kg	08.09.19 13:04	
Endosulfan Sulfate	<0.000276	0.0167	0.0137	82	0.0138	83	15-170	1	25	mg/kg	08.09.19 13:04	
Endrin	<0.000291	0.0167	0.0168	101	0.0175	105	25-162	4	25	mg/kg	08.09.19 13:04	
Endrin Aldehyde	<0.000247	0.0167	0.0116	69	0.0120	72	49-117	3	25	mg/kg	08.09.19 13:04	
Endrin Ketone	<0.000361	0.0167	0.0145	87	0.0148	89	15-168	2	25	mg/kg	08.09.19 13:04	
Gamma-BHC (Lindane)	<0.000439	0.0167	0.0103	62	0.0117	70	30-158	13	25	mg/kg	08.09.19 13:04	
Gamma-Chlordane	<0.000763	0.0167	0.0124	74	0.0129	77	30-154	4	25	mg/kg	08.09.19 13:04	
Heptachlor	<0.000562	0.0167	0.0114	68	0.0127	76	29-163	11	25	mg/kg	08.09.19 13:04	
Heptachlor Epoxide	<0.000245	0.0167	0.0126	75	0.0135	81	30-150	7	25	mg/kg	08.09.19 13:04	
Methoxychlor	<0.000507	0.0167	0.0186	111	0.0188	113	33-174	1	25	mg/kg	08.09.19 13:04	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
Tetrachloro-m-xylene	58		52		59		35-135	%	08.09.19 13:04
Decachlorobiphenyl	60		61		60		25-143	%	08.09.19 13:04

MS/MSD Percent Recovery [D] = 100*(C-A) / B LCS = Laboratory Control Sample MS = Matrix Spike

Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result B = Spike Added

LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result D = MSD/LCSD % Rec

Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

QC Summary 632582

Universal Engineering Services Miami

Proposed Publix

Analytical Method: **Pesticides by SW-846 8081B** Prep Method: SW3550

Seq Number: 3098027 Matrix: Solid Date Prep: 08.08.19

MB Sample Id: 7683835-1-BLK LCS Sample Id: 7683835-1-BKS LCSD Sample Id: 7683835-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
4,4-DDD	<0.000771	0.0167	0.0138	83	0.0130	78	20-164	6	25	mg/kg	08.08.19 19:12	
4,4-DDE	<0.00167	0.0167	0.0127	76	0.0121	72	29-157	5	25	mg/kg	08.08.19 19:12	
4,4-DDT	<0.000254	0.0167	0.0157	94	0.0145	87	13-192	8	25	mg/kg	08.08.19 19:12	
Aldrin	<0.000363	0.0167	0.00959	57	0.00906	54	30-152	6	25	mg/kg	08.08.19 19:12	
Alpha-BHC	<0.000680	0.0167	0.00928	56	0.00853	51	29-160	8	25	mg/kg	08.08.19 19:12	
Alpha-Chlordane	<0.000571	0.0167	0.0119	71	0.0115	69	30-154	3	25	mg/kg	08.08.19 19:12	
Beta-BHC	<0.000474	0.0167	0.0124	74	0.0118	71	30-155	5	25	mg/kg	08.08.19 19:12	
Delta-BHC	<0.00167	0.0167	0.00717	43	0.00675	40	20-161	6	25	mg/kg	08.08.19 19:12	
Dieldrin	<0.000169	0.0167	0.0130	78	0.0126	75	33-153	3	25	mg/kg	08.08.19 19:12	
Endosulfan I	<0.000202	0.0167	0.0113	68	0.0110	66	30-151	3	25	mg/kg	08.08.19 19:12	
Endosulfan II	<0.000372	0.0167	0.0143	86	0.0132	79	27-153	8	25	mg/kg	08.08.19 19:12	
Endosulfan Sulfate	<0.000276	0.0167	0.0130	78	0.0122	73	15-170	6	25	mg/kg	08.08.19 19:12	
Endrin	<0.000291	0.0167	0.0155	93	0.0146	87	25-162	6	25	mg/kg	08.08.19 19:12	
Endrin Aldehyde	<0.000247	0.0167	0.0109	65	0.0108	65	49-117	1	25	mg/kg	08.08.19 19:12	
Endrin Ketone	<0.000361	0.0167	0.0138	83	0.0128	77	15-168	8	25	mg/kg	08.08.19 19:12	
Gamma-BHC (Lindane)	<0.000439	0.0167	0.00966	58	0.00899	54	30-158	7	25	mg/kg	08.08.19 19:12	
Gamma-Chlordane	<0.000763	0.0167	0.0122	73	0.0112	67	30-154	9	25	mg/kg	08.08.19 19:12	
Heptachlor	<0.000562	0.0167	0.0107	64	0.00986	59	29-163	8	25	mg/kg	08.08.19 19:12	
Heptachlor Epoxide	<0.000245	0.0167	0.0116	69	0.0114	68	30-150	2	25	mg/kg	08.08.19 19:12	
Methoxychlor	<0.000507	0.0167	0.0172	103	0.0162	97	33-174	6	25	mg/kg	08.08.19 19:12	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
Tetrachloro-m-xylene	1	J	51		47		35-135	%	08.08.19 19:12
Decachlorobiphenyl	2	J	60		55		25-143	%	08.08.19 19:12

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* | (C-E) / (C+E) |
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

QC Summary 632582

Universal Engineering Services Miami

Proposed Publix

Analytical Method: **Pesticides by SW-846 8081B** Prep Method: SW3550

Seq Number: 3098125 Matrix: Solid Date Prep: 08.09.19

MB Sample Id: 7683857-1-BLK LCS Sample Id: 7683857-1-BKS LCSD Sample Id: 7683857-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
4,4-DDD	<0.000771	0.0167	0.0143	86	0.0148	89	20-164	3	25	mg/kg	08.09.19 17:23	
4,4-DDE	<0.00167	0.0167	0.0138	83	0.0141	84	29-157	2	25	mg/kg	08.09.19 17:23	
4,4-DDT	<0.000254	0.0167	0.0169	101	0.0173	104	13-192	2	25	mg/kg	08.09.19 17:23	
Aldrin	<0.000363	0.0167	0.0128	77	0.0108	65	30-152	17	25	mg/kg	08.09.19 17:23	
Alpha-BHC	<0.000680	0.0167	0.0132	79	0.0114	68	29-160	15	25	mg/kg	08.09.19 17:23	
Alpha-Chlordane	<0.000571	0.0167	0.0134	80	0.0135	81	30-154	1	25	mg/kg	08.09.19 17:23	
Beta-BHC	<0.000474	0.0167	0.0145	87	0.0138	83	30-155	5	25	mg/kg	08.09.19 17:23	
Delta-BHC	<0.00167	0.0167	0.0142	85	0.0140	84	20-161	1	25	mg/kg	08.09.19 17:23	
Dieldrin	<0.000169	0.0167	0.0142	85	0.0145	87	33-153	2	25	mg/kg	08.09.19 17:23	
Endosulfan I	<0.000202	0.0167	0.0132	79	0.0130	78	30-151	2	25	mg/kg	08.09.19 17:23	
Endosulfan II	<0.000372	0.0167	0.0144	86	0.0149	89	27-153	3	25	mg/kg	08.09.19 17:23	
Endosulfan Sulfate	<0.000276	0.0167	0.0145	87	0.0151	90	15-170	4	25	mg/kg	08.09.19 17:23	
Endrin	<0.000291	0.0167	0.0174	104	0.0172	103	25-162	1	25	mg/kg	08.09.19 17:23	
Endrin Aldehyde	<0.000247	0.0167	0.0112	67	0.0117	70	49-117	4	25	mg/kg	08.09.19 17:23	
Endrin Ketone	<0.000361	0.0167	0.0140	84	0.0146	87	15-168	4	25	mg/kg	08.09.19 17:23	
Gamma-BHC (Lindane)	<0.000439	0.0167	0.0135	81	0.0116	69	30-158	15	25	mg/kg	08.09.19 17:23	
Gamma-Chlordane	<0.000763	0.0167	0.0131	78	0.0132	79	30-154	1	25	mg/kg	08.09.19 17:23	
Heptachlor	<0.000562	0.0167	0.0142	85	0.0122	73	29-163	15	25	mg/kg	08.09.19 17:23	
Heptachlor Epoxide	<0.000245	0.0167	0.0138	83	0.0131	78	30-150	5	25	mg/kg	08.09.19 17:23	
Methoxychlor	<0.000507	0.0167	0.0186	111	0.0194	116	33-174	4	25	mg/kg	08.09.19 17:23	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
Tetrachloro-m-xylene	42		68		62		35-135	%	08.09.19 17:23
Decachlorobiphenyl	52		60		62		25-143	%	08.09.19 17:23

MS/MSD Percent Recovery [D] = 100*(C-A) / B LCS = Laboratory Control Sample MS = Matrix Spike

Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result B = Spike Added

LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result D = MSD/LCSD % Rec

Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

QC Summary 632582

Universal Engineering Services Miami

Proposed Publix

Analytical Method: **Pesticides by SW-846 8081B** Prep Method: SW3550

Seq Number: 3098123 Matrix: Soil Date Prep: 08.08.19

Parent Sample Id: 632582-001 MS Sample Id: 632582-001 S MSD Sample Id: 632582-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
4,4-DDD	<0.00166	0.0358	0.0322	90	0.0329	92	20-164	2	25	mg/kg	08.09.19 13:32	
4,4-DDE	<0.00358	0.0358	0.0324	91	0.0322	90	29-157	1	25	mg/kg	08.09.19 13:32	
4,4-DDT	0.000975	0.0358	0.0366	100	0.0362	98	13-192	1	25	mg/kg	08.09.19 13:32	
Aldrin	<0.000780	0.0358	0.0248	69	0.0244	68	30-152	2	25	mg/kg	08.09.19 13:32	
Alpha-BHC	<0.00146	0.0358	0.0235	66	0.0241	67	29-160	3	25	mg/kg	08.09.19 13:32	
Alpha-Chlordane	<0.00123	0.0358	0.0300	84	0.0296	83	30-154	1	25	mg/kg	08.09.19 13:32	
Beta-BHC	<0.00102	0.0358	0.0319	89	0.0323	90	30-155	1	25	mg/kg	08.09.19 13:32	
Delta-BHC	<0.00358	0.0358	0.0168	47	0.0168	47	20-161	0	25	mg/kg	08.09.19 13:32	
Dieldrin	<0.000364	0.0358	0.0315	88	0.0310	87	33-153	2	25	mg/kg	08.09.19 13:32	
Endosulfan I	<0.000434	0.0358	0.0286	80	0.0283	79	30-151	1	25	mg/kg	08.09.19 13:32	
Endosulfan II	<0.000800	0.0358	0.0322	90	0.0329	92	27-153	2	25	mg/kg	08.09.19 13:32	
Endosulfan Sulfate	<0.000593	0.0358	0.0292	82	0.0299	84	15-170	2	25	mg/kg	08.09.19 13:32	
Endrin	<0.000625	0.0358	0.0392	109	0.0382	107	25-162	3	25	mg/kg	08.09.19 13:32	
Endrin Aldehyde	<0.000531	0.0358	0.0273	76	0.0268	75	49-117	2	25	mg/kg	08.09.19 13:32	
Endrin Ketone	<0.000775	0.0358	0.0314	88	0.0317	89	15-168	1	25	mg/kg	08.09.19 13:32	
Gamma-BHC (Lindane)	<0.000943	0.0358	0.0257	72	0.0256	72	30-158	0	25	mg/kg	08.09.19 13:32	
Gamma-Chlordane	<0.00164	0.0358	0.0278	78	0.0272	76	30-154	2	25	mg/kg	08.09.19 13:32	
Heptachlor	<0.00121	0.0358	0.0279	78	0.0277	77	29-163	1	25	mg/kg	08.09.19 13:32	
Heptachlor Epoxide	<0.000526	0.0358	0.0301	84	0.0294	82	30-150	2	25	mg/kg	08.09.19 13:32	
Methoxychlor	<0.00109	0.0358	0.0382	107	0.0387	108	33-174	1	25	mg/kg	08.09.19 13:32	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
Tetrachloro-m-xylene	53		58		35-135	%	08.09.19 13:32
Decachlorobiphenyl	60		62		25-143	%	08.09.19 13:32

MS/MSD Percent Recovery [D] = 100*(C-A) / B LCS = Laboratory Control Sample MS = Matrix Spike

Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result B = Spike Added

LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result D = MSD/LCSD % Rec

Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

QC Summary 632582

Universal Engineering Services Miami

Proposed Publix

Analytical Method: **Pesticides by SW-846 8081B** Prep Method: SW3550

Seq Number: 3098027 Matrix: Soil Date Prep: 08.08.19

Parent Sample Id: 632582-024 MS Sample Id: 632582-024 S MSD Sample Id: 632582-024 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
4,4-DDD	<0.00110	0.0238	0.0210	88	0.0194	82	20-164	8	25	mg/kg	08.08.19 19:28	
4,4-DDE	<0.00238	0.0238	0.0211	89	0.0194	82	29-157	8	25	mg/kg	08.08.19 19:28	
4,4-DDT	<0.000362	0.0238	0.0232	97	0.0207	87	13-192	11	25	mg/kg	08.08.19 19:28	
Aldrin	<0.000518	0.0238	0.0122	51	0.0163	68	30-152	29	25	mg/kg	08.08.19 19:28	J
Alpha-BHC	<0.000970	0.0238	0.0106	45	0.0168	71	29-160	45	25	mg/kg	08.08.19 19:28	J
Alpha-Chlordane	<0.000814	0.0238	0.0185	78	0.0181	76	30-154	2	25	mg/kg	08.08.19 19:28	
Beta-BHC	<0.000676	0.0238	0.0194	82	0.0191	80	30-155	2	25	mg/kg	08.08.19 19:28	
Delta-BHC	<0.00238	0.0238	0.0107	45	0.0106	45	20-161	1	25	mg/kg	08.08.19 19:28	
Dieldrin	<0.000242	0.0238	0.0196	82	0.0191	80	33-153	3	25	mg/kg	08.08.19 19:28	
Endosulfan I	<0.000288	0.0238	0.0172	72	0.0174	73	30-151	1	25	mg/kg	08.08.19 19:28	
Endosulfan II	<0.000531	0.0238	0.0216	91	0.0199	84	27-153	8	25	mg/kg	08.08.19 19:28	
Endosulfan Sulfate	<0.000394	0.0238	0.0199	84	0.0186	78	15-170	7	25	mg/kg	08.08.19 19:28	
Endrin	<0.000415	0.0238	0.0239	100	0.0228	96	25-162	5	25	mg/kg	08.08.19 19:28	
Endrin Aldehyde	<0.000353	0.0238	0.0164	69	0.0166	70	49-117	1	25	mg/kg	08.08.19 19:28	
Endrin Ketone	<0.000515	0.0238	0.0209	88	0.0193	81	15-168	8	25	mg/kg	08.08.19 19:28	
Gamma-BHC (Lindane)	<0.000626	0.0238	0.0120	50	0.0159	67	30-158	28	25	mg/kg	08.08.19 19:28	J
Gamma-Chlordane	<0.00109	0.0238	0.0176	74	0.0178	75	30-154	1	25	mg/kg	08.08.19 19:28	
Heptachlor	<0.000802	0.0238	0.0124	52	0.0180	76	29-163	37	25	mg/kg	08.08.19 19:28	J
Heptachlor Epoxide	<0.000349	0.0238	0.0170	71	0.0178	75	30-150	5	25	mg/kg	08.08.19 19:28	
Methoxychlor	<0.000723	0.0238	0.0249	105	0.0226	95	33-174	10	25	mg/kg	08.08.19 19:28	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
Tetrachloro-m-xylene	38		60		35-135	%	08.08.19 19:28
Decachlorobiphenyl	62		56		25-143	%	08.08.19 19:28

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* | (C-E) / (C+E) |
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

QC Summary 632582

Universal Engineering Services Miami

Proposed Publix

Analytical Method: **Pesticides by SW-846 8081B** Prep Method: SW3550

Seq Number: 3098125 Matrix: Soil Date Prep: 08.09.19

Parent Sample Id: 632582-021 MS Sample Id: 632582-021 S MSD Sample Id: 632582-021 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
4,4-DDD	<0.00165	0.0357	0.0297	83	0.0307	86	20-164	3	25	mg/kg	08.09.19 17:50	
4,4-DDE	<0.00357	0.0357	0.0303	85	0.0310	87	29-157	2	25	mg/kg	08.09.19 17:50	
4,4-DDT	<0.000544	0.0357	0.0340	95	0.0340	95	13-192	0	25	mg/kg	08.09.19 17:50	
Aldrin	<0.000778	0.0357	0.0233	65	0.0237	66	30-152	2	25	mg/kg	08.09.19 17:50	
Alpha-BHC	<0.00146	0.0357	0.0222	62	0.0230	64	29-160	4	25	mg/kg	08.09.19 17:50	
Alpha-Chlordane	<0.00122	0.0357	0.0283	79	0.0293	82	30-154	3	25	mg/kg	08.09.19 17:50	
Beta-BHC	<0.00102	0.0357	0.0298	83	0.0303	85	30-155	2	25	mg/kg	08.09.19 17:50	
Delta-BHC	<0.00357	0.0357	0.0295	83	0.0306	85	20-161	4	25	mg/kg	08.09.19 17:50	
Dieldrin	<0.000363	0.0357	0.0298	83	0.0308	86	33-153	3	25	mg/kg	08.09.19 17:50	
Endosulfan I	0.00654	0.0357	0.0269	57	0.0281	60	30-151	4	25	mg/kg	08.09.19 17:50	
Endosulfan II	0.00467	0.0357	0.0299	71	0.0304	72	27-153	2	25	mg/kg	08.09.19 17:50	
Endosulfan Sulfate	<0.000592	0.0357	0.0301	84	0.0304	85	15-170	1	25	mg/kg	08.09.19 17:50	
Endrin	<0.000624	0.0357	0.0362	101	0.0376	105	25-162	4	25	mg/kg	08.09.19 17:50	
Endrin Aldehyde	<0.000530	0.0357	0.0236	66	0.0235	66	49-117	0	25	mg/kg	08.09.19 17:50	
Endrin Ketone	<0.000774	0.0357	0.0281	79	0.0291	81	15-168	3	25	mg/kg	08.09.19 17:50	
Gamma-BHC (Lindane)	<0.000941	0.0357	0.0257	72	0.0260	73	30-158	1	25	mg/kg	08.09.19 17:50	
Gamma-Chlordane	<0.00164	0.0357	0.0272	76	0.0273	76	30-154	0	25	mg/kg	08.09.19 17:50	
Heptachlor	<0.00121	0.0357	0.0253	71	0.0253	71	29-163	0	25	mg/kg	08.09.19 17:50	
Heptachlor Epoxide	<0.000525	0.0357	0.0281	79	0.0291	81	30-150	3	25	mg/kg	08.09.19 17:50	
Methoxychlor	<0.00109	0.0357	0.0382	107	0.0385	108	33-174	1	25	mg/kg	08.09.19 17:50	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
Tetrachloro-m-xylene	48		51		35-135	%	08.09.19 17:50
Decachlorobiphenyl	58		60		25-143	%	08.09.19 17:50

MS/MSD Percent Recovery [D] = 100*(C-A) / B LCS = Laboratory Control Sample MS = Matrix Spike

Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result B = Spike Added

LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result D = MSD/LCSD % Rec

Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

Exhibit "D" (Page 398 of 503)

Chain of Custody

XENCO LABORATORIES

Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334
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Phoenix,AZ (480) 355-0900 Atlanta,GA (770) 449-8800 Tampa,FL (813) 620-2000 West Palm Beach, FL (561) 689-6701

Work Order No: 632582 ✓

www.xenco.com Page 1 of 3

Project Manager:	Leigh Marshallsay	Bill to: (if different)	
Company Name:	Universal Engineering Sciences	Company Name:	
Address:	9960 NW 116th Way, Suite 8	Address:	
City, State ZIP:	Medley, FL 33178	City, State ZIP:	
Phone:	305 249 8434	Email:	LMarshallsay@universalengineering.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Proposed Publix	Turn Around	
Project Number:	2110.1900103.0000	Routine ☐	
Project Location		Rush:	
Sampler's Name:		Due Date:	
PO #:		Quote #:	WPB031319

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Temperature (°C):	2.9	Thermometer ID	IR
Received Intact:	(Yes) No		
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	
Sample Custody Seals:	Yes No (N/A)	Total Containers:	20

Preservative Codes

MeOH: Me
None: NO
HNO3: HN
H2S04: H2
HCL: HL
NaOH: Na
Zn Acetate+ NaOH: Zn

TAT starts the day recevied by the lab, if received by 4:00pm

Lab ID	Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	Pres. Code	Ammonia, Nitrates/Nitrites/~~NOX~~ - SPLP	Ma, As, Cr, (Ba), Pb & Fe	Organochlorine pesticides EPA 8081	Organophosphorous pesticides EPA 8141	Sample Comments
	CS-15 (0-6")	S	7/30/19	9:00	0-6"	2		X	X	X	X	
	CS-15 (6"-24")			9:00	6"-24"			X	X	X	X	
	CS-16 (0-6")			9:15	0-6"			X	X	X	X	
	CS-16 (6"-24")			9:15	6"-24"			X	X	X	X	
	CS-17 (0-6")			9:22	0-6"			X	X	X	X	
	CS-17 (6"-24")			9:22	6"-24"			X	X	X	X	
	CS-18 (0-6")			9:45	0-6"			X	X	X	X	
	CS-18 (6"-24")			9:45	6"-24"			X	X	X	X	
	CS-19 (0-6")			10:15	0-6"			X	X	X	X	
	CS-19 (6"-24")			10:15	6"-24"			X	X	X	X	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010:** 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U **1631 / 245.1 / 7470 / 7471** : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of $75.00 will be applied to each project and a charge of $5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time		Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1			7/31/19 12:10	2			
3				4			
5				6			

Revised Date 022619 Rev. 2019.1

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Exhibit "D" (Page 399 of 503)

Chain of Custody

XENCO LABORATORIES

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Phoenix,AZ (480) 355-0900 Atlanta,GA (770) 449-8800 Tampa,FL (813) 620-2000 West Palm Beach, FL (561) 689-6701

Work Order No: 632582

www.xenco.com Page 2 of 3

Project Manager:	Leigh Marshallsay	Bill to: (if different)	
Company Name:	UES	Company Name:	
Address:	9960 NW 116th Way, Suite 8	Address:	
City, State ZIP:	Medley, FL 33178	City, State ZIP:	
Phone:	305 249 8434	Email:	LMarshallsay@universalengineering.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Proposed Publix	Turn Around	
Project Number:	2160.19 00103.0000	Routine ☐	
Project Location		Rush:	
Sampler's Name:		Due Date:	
PO #:		Quote #:	WPB031319

SAMPLE RECEIPT

Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Temperature (°C):	2.9	Thermometer ID	IR7
Received Intact:	(Yes) No		
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	
Sample Custody Seals:	Yes No (N/A)	Total Containers:	20

ANALYSIS REQUEST

Preservative Codes

MeOH: Me
None: NO
HNO3: HN
H2S04: H2
HCL: HL
NaOH: Na
Zn Acetate+ NaOH: Zn

TAT starts the day recevied by the lab, if received by 4:00pm

Lab ID	Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	Pres. Code	Ammonia, Nitrates/Nitrites/ TKN - SPLP	Mn, Ag, Cr, Cu, Pb & Fe	Organo chlorine pesticides EPA 8081	Organophosphorous pesticides EPA 8141	Sample Comments
	CS-20 (0-6")	S	7/30/19	10:31	0-6"	2		X	X	X	X	
	CS-20 (6"-24")			10:31	6"-24"			X	X	X	X	
	CS-21 (0-6")			11:03	0-6"			X	X	X	X	
	CS-21 (6"-24")			11:03	6"-24"			X	X	X	X	
	CS-22 (0-6")			11:39	0-6"			X	X	X	X	
	CS-22 (6"-24")			11:39	6"-24"			X	X	X	X	
	CS-23 (0-6")			12:56	0-6"			X	X	X	X	
	CS-23 (6"-24")			12:56	6"-24"			X	X	X	X	
	CS-24 (0-6")			13:24	0-6"			X	X	X	X	
	CS-24 (6"-24"	↓	↓	13:24	6"-24"	↓		X	X	X	X	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U 1631 / 245.1 / 7470 / 7471 : Hg

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	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1			7/31/19 12:10	2		
3				4		
5				6		

Revised Date 022619 Rev. 2019.1

Final 1.000

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Exhibit "D" (Page 400 of 503)

Final 1.000

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Chain of Custody

XENCO LABORATORIES

Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334
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Phoenix,AZ (480) 355-0900 Atlanta,GA (770) 449-8800 Tampa,FL (813) 620-2000 West Palm Beach, FL (561) 689-6701

Work Order No: 632582

www.xenco.com Page 3 of 3

Project Manager:	~~Proposed - Publix~~ DE Leigh Marshall say	Bill to: (if different)	
Company Name:	UES	Company Name:	
Address:	9960 NW 116th Way, Suite 8	Address:	
City, State ZIP:	Medley, FL 33178	City, State ZIP:	
Phone:	305 249 8434	Email:	L Marshall say @ universal engineering.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Proposed Publix	Turn Around	
Project Number:	2110.1900103.0000	Routine ☐	
Project Location		Rush:	
Sampler's Name:		Due Date:	
PO #:		Quote #:	WPB 031319

SAMPLE RECEIPT

Temp Blank:	Yes (No)	Wet Ice:	Yes No
Temperature (°C):	2.5	Thermometer ID	IR1
Received Intact:	(Yes) No		
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	
Sample Custody Seals:	Yes No (N/A)	Total Containers:	12

ANALYSIS REQUEST

Preservative Codes

MeOH: Me
None: NO
HNO3: HN
H2S04: H2
HCL: HL
NaOH: Na
Zn Acetate+ NaOH: Zn

TAT starts the day recevied by the lab, if received by 4:00pm

Lab ID	Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	Pres. Code	Ammonia, Nitrates / Nitrites / NOX - SPLP	Ma, As, Cr, Cu, Pb & Fe	Organochlorine pesticides EPA 8081	Organophosphorus pesticides EPA 8141	Sample Comments
	CS-25 (0-6")	S	7/30/19	13:30	(0-6")	2		X	X	X	X	
	CS-25 (6"-24")			13:30	(6"-24")	2		X	X	X	X	
	CS-26 (0-6")			13:51	(0-6")	2		X	X	X	X	
	CS-26 (6"-24")			13:51	(6"-24")	2		X	X	X	X	
	CS-27 (0-6")			11:18	(0-6")	2		X	X	X	X	
	CS-27 (6"-24")			11:18	(6"-24")	2		X	X	X	X	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed

TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U

1631 / 245.1 / 7470 / 7471 : Hg

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	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1			7/31/19 12:10	2		
3				4		
5				6		

Revised Date 022619 Rev. 2019.1

Inter-Office Shipment

IOS Number : 45313

Date/Time:	07.31.2019 13:32	Created by:	Diana Magierowski	Please send report to:	Matthew Jones
Lab# From:	**South Florida**	Delivery Priority:		Address:	Xenco Laboratories
Lab# To:	**Tampa**	Air Bill No.:		E-Mail:	matthew.jones@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
632582-001	S	CS-15 (0-6")	07.30.2019 09:00	SM2540G-MOIST	Percent Moisture by SM2540G	08.06.2019	01.26.2020	MAJ	MOIST	
632582-002	S	CS-15 (6"-24"")	07.30.2019 09:00	SM2540G-MOIST	Percent Moisture by SM2540G	08.06.2019	01.26.2020	MAJ	MOIST	
632582-003	S	CS-16 (0-6")	07.30.2019 09:15	SM2540G-MOIST	Percent Moisture by SM2540G	08.06.2019	01.26.2020	MAJ	MOIST	
632582-004	S	CS-16 (6"-24"	07.30.2019 09:15	SM2540G-MOIST	Percent Moisture by SM2540G	08.06.2019	01.26.2020	MAJ	MOIST	
632582-005	S	CS-17 (0-6")	07.30.2019 09:22	SM2540G-MOIST	Percent Moisture by SM2540G	08.06.2019	01.26.2020	MAJ	MOIST	
632582-006	S	CS-17 (6"-24"")	07.30.2019 09:22	SM2540G-MOIST	Percent Moisture by SM2540G	08.06.2019	01.26.2020	MAJ	MOIST	
632582-007	S	CS-18 (0-6")	07.30.2019 09:45	SM2540G-MOIST	Percent Moisture by SM2540G	08.06.2019	01.26.2020	MAJ	MOIST	
632582-008	S	CS-18 (6"-24"")	07.30.2019 09:45	SM2540G-MOIST	Percent Moisture by SM2540G	08.06.2019	01.26.2020	MAJ	MOIST	
632582-009	S	CS-19 0-6")	07.30.2019 10:15	SM2540G-MOIST	Percent Moisture by SM2540G	08.06.2019	01.26.2020	MAJ	MOIST	
632582-010	S	CS-19 (6"-24")	07.30.2019 10:15	SM2540G-MOIST	Percent Moisture by SM2540G	08.06.2019	01.26.2020	MAJ	MOIST	
632582-011	S	CS-20 (0-6")	07.30.2019 10:31	SM2540G-MOIST	Percent Moisture by SM2540G	08.06.2019	01.26.2020	MAJ	MOIST	
632582-012	S	CS-20 (6"-24"")	07.30.2019 10:31	SM2540G-MOIST	Percent Moisture by SM2540G	08.06.2019	01.26.2020	MAJ	MOIST	
632582-013	S	CS-21 (0-6")	07.30.2019 11:03	SM2540G-MOIST	Percent Moisture by SM2540G	08.06.2019	01.26.2020	MAJ	MOIST	
632582-014	S	CS-21 (6"-24"")	07.30.2019 11:03	SM2540G-MOIST	Percent Moisture by SM2540G	08.06.2019	01.26.2020	MAJ	MOIST	
632582-015	S	CS-22 (0-6")	07.30.2019 11:39	SM2540G-MOIST	Percent Moisture by SM2540G	08.06.2019	01.26.2020	MAJ	MOIST	
632582-016	S	CS-22 (6"-24"")	07.30.2019 11:39	SM2540G-MOIST	Percent Moisture by SM2540G	08.06.2019	01.26.2020	MAJ	MOIST	
632582-017	S	CS-23 (0-6")	07.30.2019 12:56	SM2540G-MOIST	Percent Moisture by SM2540G	08.06.2019	01.26.2020	MAJ	MOIST	
632582-018	S	CS-23 (6"-24"")	07.30.2019 12:56	SM2540G-MOIST	Percent Moisture by SM2540G	08.06.2019	01.26.2020	MAJ	MOIST	
632582-019	S	CS-24 (0-6")	07.30.2019 13:24	SM2540G-MOIST	Percent Moisture by SM2540G	08.06.2019	01.26.2020	MAJ	MOIST	
632582-020	S	CS-24 ((6"-24"")	07.30.2019 13:24	SM2540G-MOIST	Percent Moisture by SM2540G	08.06.2019	01.26.2020	MAJ	MOIST	
632582-021	S	CS-25 (0-6")	07.30.2019 13:30	SM2540G-MOIST	Percent Moisture by SM2540G	08.06.2019	01.26.2020	MAJ	MOIST	
632582-022	S	CS-25 (6"-24")	07.30.2019 13:30	SM2540G-MOIST	Percent Moisture by SM2540G	08.06.2019	01.26.2020	MAJ	MOIST	
632582-023	S	CS-26(0-6")	07.30.2019 13:51	SM2540G-MOIST	Percent Moisture by SM2540G	08.06.2019	01.26.2020	MAJ	MOIST	
632582-024	S	CS-26 (6"-24"")	07.30.2019 13:51	SM2540G-MOIST	Percent Moisture by SM2540G	08.06.2019	01.26.2020	MAJ	MOIST	
632582-025	S	CS-27 (0-6")	07.30.2019 11:18	SM2540G-MOIST	Percent Moisture by SM2540G	08.06.2019	01.26.2020	MAJ	MOIST	

Inter-Office Shipment

IOS Number : 45313

Date/Time:	07.31.2019 13:32	Created by:	Diana Magierowski	Please send report to:	Matthew Jones
Lab# From:	**South Florida**	Delivery Priority:		Address:	Xenco Laboratories
Lab# To:	**Tampa**	Air Bill No.:		E-Mail:	matthew.jones@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
632582-026	S	CS-27 (6"-24"")	07.30.2019 11:18	SM2540G-MOIST	Percent Moisture by SM2540G	08.06.2019	01.26.2020	MAJ	MOIST	

Inter Office Shipment or Sample Comments:

Relinquished By: Diana Magierowski

Date Relinquished: 07.31.2019

Received By: _____

Date Received: _____

Cooler Temperature: _____

Inter-Office Shipment

IOS Number : 45314

Date/Time:	07.31.2019 13:32	Created by:	Diana Magierowski	Please send report to:	Matthew Jones
Lab# From:	**South Florida**	Delivery Priority:		Address:	Xenco Laboratories
Lab# To:	**Houston**	Air Bill No.:	775858462762	E-Mail:	matthew.jones@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
632582-001	W	CS-15 (0-6")	07.30.2019 09:00	E353.2_NOX_SPLP	SPLP Nitrate-Nitrite by E353.2	08.06.2019	08.27.2019	MAJ		
632582-001	W	CS-15 (0-6")	07.30.2019 09:00	E300SPLP	SPLP Nitrate/Nitrite by EPA 300.0	HOLD	01.26.2020	MAJ	NO2N NO3N	
632582-001	S	CS-15 (0-6")	07.30.2019 09:00	SW8081B	Pesticides by SW-846 8081B	08.06.2019	08.13.2019	MAJ	ALDRIN BHCALPHA BI	
632582-001	W	CS-15 (0-6")	07.30.2019 09:00	E300SPLP	SPLP Nitrate/Nitrite by EPA 300.0	HOLD	01.26.2020	MAJ	NO2N NO3N	
632582-001	S	CS-15 (0-6")	07.30.2019 09:00	SW6010C	Metals, Total by SW846 6010C	08.06.2019	01.26.2020	MAJ	AS CR CU FE MN PB	
632582-001	W	CS-15 (0-6")	07.30.2019 09:00	E350.1_SPLP	SPLP Ammonia By EPA 350.1	08.06.2019	08.27.2019	MAJ	NH3N	
632582-002	S	CS-15 (6"-24")	07.30.2019 09:00	SW8081B	Pesticides by SW-846 8081B	08.06.2019	08.13.2019	MAJ	ALDRIN BHCALPHA BI	
632582-002	S	CS-15 (6"-24")	07.30.2019 09:00	SW6010C	Metals, Total by SW846 6010C	08.06.2019	01.26.2020	MAJ	AS CR CU FE MN PB	
632582-002	W	CS-15 (6"-24")	07.30.2019 09:00	E350.1_SPLP	SPLP Ammonia By EPA 350.1	08.06.2019	08.27.2019	MAJ	NH3N	
632582-002	W	CS-15 (6"-24")	07.30.2019 09:00	E300SPLP	SPLP Nitrate/Nitrite by EPA 300.0	HOLD	01.26.2020	MAJ	NO2N NO3N	
632582-002	W	CS-15 (6"-24")	07.30.2019 09:00	E300SPLP	SPLP Nitrate/Nitrite by EPA 300.0	HOLD	01.26.2020	MAJ	NO2N NO3N	
632582-002	W	CS-15 (6"-24")	07.30.2019 09:00	E353.2_NOX_SPLP	SPLP Nitrate-Nitrite by E353.2	08.06.2019	08.27.2019	MAJ		
632582-003	W	CS-16 (0-6")	07.30.2019 09:15	E353.2_NOX_SPLP	SPLP Nitrate-Nitrite by E353.2	08.06.2019	08.27.2019	MAJ		
632582-003	W	CS-16 (0-6")	07.30.2019 09:15	E300SPLP	SPLP Nitrate/Nitrite by EPA 300.0	HOLD	01.26.2020	MAJ	NO2N NO3N	
632582-003	S	CS-16 (0-6")	07.30.2019 09:15	SW8081B	Pesticides by SW-846 8081B	08.06.2019	08.13.2019	MAJ	ALDRIN BHCALPHA BI	
632582-003	W	CS-16 (0-6")	07.30.2019 09:15	E300SPLP	SPLP Nitrate/Nitrite by EPA 300.0	HOLD	01.26.2020	MAJ	NO2N NO3N	
632582-003	S	CS-16 (0-6")	07.30.2019 09:15	SW6010C	Metals, Total by SW846 6010C	08.06.2019	01.26.2020	MAJ	AS CR CU FE MN PB	
632582-003	W	CS-16 (0-6")	07.30.2019 09:15	E350.1_SPLP	SPLP Ammonia By EPA 350.1	08.06.2019	08.27.2019	MAJ	NH3N	
632582-004	S	CS-16 (6"-24")	07.30.2019 09:15	SW8081B	Pesticides by SW-846 8081B	08.06.2019	08.13.2019	MAJ	ALDRIN BHCALPHA BI	
632582-004	S	CS-16 (6"-24")	07.30.2019 09:15	SW6010C	Metals, Total by SW846 6010C	08.06.2019	01.26.2020	MAJ	AS CR CU FE MN PB	
632582-004	W	CS-16 (6"-24")	07.30.2019 09:15	E350.1_SPLP	SPLP Ammonia By EPA 350.1	08.06.2019	08.27.2019	MAJ	NH3N	
632582-004	W	CS-16 (6"-24")	07.30.2019 09:15	E300SPLP	SPLP Nitrate/Nitrite by EPA 300.0	HOLD	01.26.2020	MAJ	NO2N NO3N	
632582-004	W	CS-16 (6"-24")	07.30.2019 09:15	E353.2_NOX_SPLP	SPLP Nitrate-Nitrite by E353.2	08.06.2019	08.27.2019	MAJ		
632582-004	W	CS-16 (6"-24")	07.30.2019 09:15	E300SPLP	SPLP Nitrate/Nitrite by EPA 300.0	HOLD	01.26.2020	MAJ	NO2N NO3N	
632582-005	W	CS-17 (0-6")	07.30.2019 09:22	E300SPLP	SPLP Nitrate/Nitrite by EPA 300.0	HOLD	01.26.2020	MAJ	NO2N NO3N	

Inter-Office Shipment

IOS Number : 45314

Date/Time:	07.31.2019 13:32	Created by:	Diana Magierowski	Please send report to:	Matthew Jones
Lab# From:	**South Florida**	Delivery Priority:		Address:	Xenco Laboratories
Lab# To:	**Houston**	Air Bill No.:	775858462762	E-Mail:	matthew.jones@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
632582-005	W	CS-17 (0-6")	07.30.2019 09:22	E353.2_NOX_SPLP	SPLP Nitrate-Nitrite by E353.2	08.06.2019	08.27.2019	MAJ		
632582-005	S	CS-17 (0-6")	07.30.2019 09:22	SW8081B	Pesticides by SW-846 8081B	08.06.2019	08.13.2019	MAJ	ALDRIN BHCALPHA BI	
632582-005	S	CS-17 (0-6")	07.30.2019 09:22	SW6010C	Metals, Total by SW846 6010C	08.06.2019	01.26.2020	MAJ	AS CR CU FE MN PB	
632582-005	W	CS-17 (0-6")	07.30.2019 09:22	E300SPLP	SPLP Nitrate/Nitrite by EPA 300.0	HOLD	01.26.2020	MAJ	NO2N NO3N	
632582-005	W	CS-17 (0-6")	07.30.2019 09:22	E350.1_SPLP	SPLP Ammonia By EPA 350.1	08.06.2019	08.27.2019	MAJ	NH3N	
632582-006	S	CS-17 (6"-24")	07.30.2019 09:22	SW8081B	Pesticides by SW-846 8081B	08.06.2019	08.13.2019	MAJ	ALDRIN BHCALPHA BI	
632582-006	S	CS-17 (6"-24")	07.30.2019 09:22	SW6010C	Metals, Total by SW846 6010C	08.06.2019	01.26.2020	MAJ	AS CR CU FE MN PB	
632582-006	W	CS-17 (6"-24")	07.30.2019 09:22	E350.1_SPLP	SPLP Ammonia By EPA 350.1	08.06.2019	08.27.2019	MAJ	NH3N	
632582-006	W	CS-17 (6"-24")	07.30.2019 09:22	E300SPLP	SPLP Nitrate/Nitrite by EPA 300.0	HOLD	01.26.2020	MAJ	NO2N NO3N	
632582-006	W	CS-17 (6"-24")	07.30.2019 09:22	E353.2_NOX_SPLP	SPLP Nitrate-Nitrite by E353.2	08.06.2019	08.27.2019	MAJ		
632582-006	W	CS-17 (6"-24")	07.30.2019 09:22	E300SPLP	SPLP Nitrate/Nitrite by EPA 300.0	HOLD	01.26.2020	MAJ	NO2N NO3N	
632582-007	W	CS-18 (0-6")	07.30.2019 09:45	E353.2_NOX_SPLP	SPLP Nitrate-Nitrite by E353.2	08.06.2019	08.27.2019	MAJ		
632582-007	W	CS-18 (0-6")	07.30.2019 09:45	E300SPLP	SPLP Nitrate/Nitrite by EPA 300.0	HOLD	01.26.2020	MAJ	NO2N NO3N	
632582-007	S	CS-18 (0-6")	07.30.2019 09:45	SW8081B	Pesticides by SW-846 8081B	08.06.2019	08.13.2019	MAJ	ALDRIN BHCALPHA BI	
632582-007	S	CS-18 (0-6")	07.30.2019 09:45	SW6010C	Metals, Total by SW846 6010C	08.06.2019	01.26.2020	MAJ	AS CR CU FE MN PB	
632582-007	W	CS-18 (0-6")	07.30.2019 09:45	E300SPLP	SPLP Nitrate/Nitrite by EPA 300.0	HOLD	01.26.2020	MAJ	NO2N NO3N	
632582-007	W	CS-18 (0-6")	07.30.2019 09:45	E350.1_SPLP	SPLP Ammonia By EPA 350.1	08.06.2019	08.27.2019	MAJ	NH3N	
632582-008	W	CS-18 (6"-24")	07.30.2019 09:45	E300SPLP	SPLP Nitrate/Nitrite by EPA 300.0	HOLD	01.26.2020	MAJ	NO2N NO3N	
632582-008	S	CS-18 (6"-24")	07.30.2019 09:45	SW6010C	Metals, Total by SW846 6010C	08.06.2019	01.26.2020	MAJ	AS CR CU FE MN PB	
632582-008	S	CS-18 (6"-24")	07.30.2019 09:45	SW8081B	Pesticides by SW-846 8081B	08.06.2019	08.13.2019	MAJ	ALDRIN BHCALPHA BI	
632582-008	W	CS-18 (6"-24")	07.30.2019 09:45	E350.1_SPLP	SPLP Ammonia By EPA 350.1	08.06.2019	08.27.2019	MAJ	NH3N	
632582-008	W	CS-18 (6"-24")	07.30.2019 09:45	E300SPLP	SPLP Nitrate/Nitrite by EPA 300.0	HOLD	01.26.2020	MAJ	NO2N NO3N	
632582-008	W	CS-18 (6"-24")	07.30.2019 09:45	E353.2_NOX_SPLP	SPLP Nitrate-Nitrite by E353.2	08.06.2019	08.27.2019	MAJ		
632582-009	W	CS-19 (0-6")	07.30.2019 10:15	E353.2_NOX_SPLP	SPLP Nitrate-Nitrite by E353.2	08.06.2019	08.27.2019	MAJ		
632582-009	W	CS-19 (0-6")	07.30.2019 10:15	E300SPLP	SPLP Nitrate/Nitrite by EPA 300.0	HOLD	01.26.2020	MAJ	NO2N NO3N	

Inter Office Shipment or Sample Comments:

Inter-Office Shipment

IOS Number : 45314

Date/Time:	07.31.2019 13:32	Created by:	Diana Magierowski	Please send report to:	Matthew Jones
Lab# From:	**South Florida**	Delivery Priority:		Address:	Xenco Laboratories
Lab# To:	**Houston**	Air Bill No.:	775858462762	E-Mail:	matthew.jones@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
632582-009	S	CS-19 (0-6")	07.30.2019 10:15	SW8081B	Pesticides by SW-846 8081B	08.06.2019	08.13.2019	MAJ	ALDRIN BHCALPHA BI	
632582-009	S	CS-19 (0-6")	07.30.2019 10:15	SW6010C	Metals, Total by SW846 6010C	08.06.2019	01.26.2020	MAJ	AS CR CU FE MN PB	
632582-009	W	CS-19 (0-6")	07.30.2019 10:15	E300SPLP	SPLP Nitrate/Nitrite by EPA 300.0	HOLD	01.26.2020	MAJ	NO2N NO3N	
632582-009	W	CS-19 (0-6")	07.30.2019 10:15	E350.1_SPLP	SPLP Ammonia By EPA 350.1	08.06.2019	08.27.2019	MAJ	NH3N	
632582-010	S	CS-19 (6"-24")	07.30.2019 10:15	SW8081B	Pesticides by SW-846 8081B	08.06.2019	08.13.2019	MAJ	ALDRIN BHCALPHA BI	
632582-010	S	CS-19 (6"-24")	07.30.2019 10:15	SW6010C	Metals, Total by SW846 6010C	08.06.2019	01.26.2020	MAJ	AS CR CU FE MN PB	
632582-010	W	CS-19 (6"-24")	07.30.2019 10:15	E350.1_SPLP	SPLP Ammonia By EPA 350.1	08.06.2019	08.27.2019	MAJ	NH3N	
632582-010	W	CS-19 (6"-24")	07.30.2019 10:15	E300SPLP	SPLP Nitrate/Nitrite by EPA 300.0	HOLD	01.26.2020	MAJ	NO2N NO3N	
632582-010	W	CS-19 (6"-24")	07.30.2019 10:15	E353.2_NOX_SPLP	SPLP Nitrate-Nitrite by E353.2	08.06.2019	08.27.2019	MAJ		
632582-010	W	CS-19 (6"-24")	07.30.2019 10:15	E300SPLP	SPLP Nitrate/Nitrite by EPA 300.0	HOLD	01.26.2020	MAJ	NO2N NO3N	
632582-011	W	CS-20 (0-6")	07.30.2019 10:31	E353.2_NOX_SPLP	SPLP Nitrate-Nitrite by E353.2	08.06.2019	08.27.2019	MAJ		
632582-011	W	CS-20 (0-6")	07.30.2019 10:31	E300SPLP	SPLP Nitrate/Nitrite by EPA 300.0	HOLD	01.26.2020	MAJ	NO2N NO3N	
632582-011	S	CS-20 (0-6")	07.30.2019 10:31	SW8081B	Pesticides by SW-846 8081B	08.06.2019	08.13.2019	MAJ	ALDRIN BHCALPHA BI	
632582-011	W	CS-20 (0-6")	07.30.2019 10:31	E300SPLP	SPLP Nitrate/Nitrite by EPA 300.0	HOLD	01.26.2020	MAJ	NO2N NO3N	
632582-011	S	CS-20 (0-6")	07.30.2019 10:31	SW6010C	Metals, Total by SW846 6010C	08.06.2019	01.26.2020	MAJ	AS CR CU FE MN PB	
632582-011	W	CS-20 (0-6")	07.30.2019 10:31	E350.1_SPLP	SPLP Ammonia By EPA 350.1	08.06.2019	08.27.2019	MAJ	NH3N	
632582-012	S	CS-20 (6"-24")	07.30.2019 10:31	SW8081B	Pesticides by SW-846 8081B	08.06.2019	08.13.2019	MAJ	ALDRIN BHCALPHA BI	
632582-012	S	CS-20 (6"-24")	07.30.2019 10:31	SW6010C	Metals, Total by SW846 6010C	08.06.2019	01.26.2020	MAJ	AS CR CU FE MN PB	
632582-012	W	CS-20 (6"-24")	07.30.2019 10:31	E350.1_SPLP	SPLP Ammonia By EPA 350.1	08.06.2019	08.27.2019	MAJ	NH3N	
632582-012	W	CS-20 (6"-24")	07.30.2019 10:31	E300SPLP	SPLP Nitrate/Nitrite by EPA 300.0	HOLD	01.26.2020	MAJ	NO2N NO3N	
632582-012	W	CS-20 (6"-24")	07.30.2019 10:31	E300SPLP	SPLP Nitrate/Nitrite by EPA 300.0	HOLD	01.26.2020	MAJ	NO2N NO3N	
632582-012	W	CS-20 (6"-24")	07.30.2019 10:31	E353.2_NOX_SPLP	SPLP Nitrate-Nitrite by E353.2	08.06.2019	08.27.2019	MAJ		
632582-013	W	CS-21 (0-6")	07.30.2019 11:03	E300SPLP	SPLP Nitrate/Nitrite by EPA 300.0	HOLD	01.26.2020	MAJ	NO2N NO3N	
632582-013	W	CS-21 (0-6")	07.30.2019 11:03	E353.2_NOX_SPLP	SPLP Nitrate-Nitrite by E353.2	08.06.2019	08.27.2019	MAJ		
632582-013	S	CS-21 (0-6")	07.30.2019 11:03	SW8081B	Pesticides by SW-846 8081B	08.06.2019	08.13.2019	MAJ	ALDRIN BHCALPHA BI	

Inter Office Shipment or Sample Comments:

Relinquished By:

Received By:

Inter-Office Shipment

IOS Number : 45314

Date/Time:	07.31.2019 13:32	Created by:	Diana Magierowski	Please send report to:	Matthew Jones
Lab# From:	**South Florida**	Delivery Priority:		Address:	Xenco Laboratories
Lab# To:	**Houston**	Air Bill No.:	775858462762	E-Mail:	matthew.jones@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
632582-013	S	CS-21 (0-6")	07.30.2019 11:03	SW6010C	Metals, Total by SW846 6010C	08.06.2019	01.26.2020	MAJ	AS CR CU FE MN PB	
632582-013	W	CS-21 (0-6")	07.30.2019 11:03	E300SPLP	SPLP Nitrate/Nitrite by EPA 300.0	HOLD	01.26.2020	MAJ	NO2N NO3N	
632582-013	W	CS-21 (0-6")	07.30.2019 11:03	E350.1_SPLP	SPLP Ammonia By EPA 350.1	08.06.2019	08.27.2019	MAJ	NH3N	
632582-014	W	CS-21 (6"-24")	07.30.2019 11:03	E350.1_SPLP	SPLP Ammonia By EPA 350.1	08.06.2019	08.27.2019	MAJ	NH3N	
632582-014	W	CS-21 (6"-24")	07.30.2019 11:03	E300SPLP	SPLP Nitrate/Nitrite by EPA 300.0	HOLD	01.26.2020	MAJ	NO2N NO3N	
632582-014	S	CS-21 (6"-24")	07.30.2019 11:03	SW8081B	Pesticides by SW-846 8081B	08.06.2019	08.13.2019	MAJ	ALDRIN BHCALPHA BI	
632582-014	S	CS-21 (6"-24")	07.30.2019 11:03	SW6010C	Metals, Total by SW846 6010C	08.06.2019	01.26.2020	MAJ	AS CR CU FE MN PB	
632582-014	W	CS-21 (6"-24")	07.30.2019 11:03	E353.2_NOX_SPLP	SPLP Nitrate-Nitrite by E353.2	08.06.2019	08.27.2019	MAJ		
632582-014	W	CS-21 (6"-24")	07.30.2019 11:03	E300SPLP	SPLP Nitrate/Nitrite by EPA 300.0	HOLD	01.26.2020	MAJ	NO2N NO3N	
632582-015	W	CS-22 (0-6")	07.30.2019 11:39	E353.2_NOX_SPLP	SPLP Nitrate-Nitrite by E353.2	08.06.2019	08.27.2019	MAJ		
632582-015	W	CS-22 (0-6")	07.30.2019 11:39	E300SPLP	SPLP Nitrate/Nitrite by EPA 300.0	HOLD	01.26.2020	MAJ	NO2N NO3N	
632582-015	S	CS-22 (0-6")	07.30.2019 11:39	SW8081B	Pesticides by SW-846 8081B	08.06.2019	08.13.2019	MAJ	ALDRIN BHCALPHA BI	
632582-015	W	CS-22 (0-6")	07.30.2019 11:39	E350.1_SPLP	SPLP Ammonia By EPA 350.1	08.06.2019	08.27.2019	MAJ	NH3N	
632582-015	W	CS-22 (0-6")	07.30.2019 11:39	E300SPLP	SPLP Nitrate/Nitrite by EPA 300.0	HOLD	01.26.2020	MAJ	NO2N NO3N	
632582-015	S	CS-22 (0-6")	07.30.2019 11:39	SW6010C	Metals, Total by SW846 6010C	08.06.2019	01.26.2020	MAJ	AS CR CU FE MN PB	
632582-016	W	CS-22 (6"-24")	07.30.2019 11:39	E300SPLP	SPLP Nitrate/Nitrite by EPA 300.0	HOLD	01.26.2020	MAJ	NO2N NO3N	
632582-016	S	CS-22 (6"-24")	07.30.2019 11:39	SW8081B	Pesticides by SW-846 8081B	08.06.2019	08.13.2019	MAJ	ALDRIN BHCALPHA BI	
632582-016	S	CS-22 (6"-24")	07.30.2019 11:39	SW6010C	Metals, Total by SW846 6010C	08.06.2019	01.26.2020	MAJ	AS CR CU FE MN PB	
632582-016	W	CS-22 (6"-24")	07.30.2019 11:39	E350.1_SPLP	SPLP Ammonia By EPA 350.1	08.06.2019	08.27.2019	MAJ	NH3N	
632582-016	W	CS-22 (6"-24")	07.30.2019 11:39	E300SPLP	SPLP Nitrate/Nitrite by EPA 300.0	HOLD	01.26.2020	MAJ	NO2N NO3N	
632582-016	W	CS-22 (6"-24")	07.30.2019 11:39	E353.2_NOX_SPLP	SPLP Nitrate-Nitrite by E353.2	08.06.2019	08.27.2019	MAJ		
632582-017	W	CS-23 (0-6")	07.30.2019 12:56	E353.2_NOX_SPLP	SPLP Nitrate-Nitrite by E353.2	08.06.2019	08.27.2019	MAJ		
632582-017	W	CS-23 (0-6")	07.30.2019 12:56	E300SPLP	SPLP Nitrate/Nitrite by EPA 300.0	HOLD	01.26.2020	MAJ	NO2N NO3N	
632582-017	W	CS-23 (0-6")	07.30.2019 12:56	E350.1_SPLP	SPLP Ammonia By EPA 350.1	08.06.2019	08.27.2019	MAJ	NH3N	
632582-017	S	CS-23 (0-6")	07.30.2019 12:56	SW8081B	Pesticides by SW-846 8081B	08.06.2019	08.13.2019	MAJ	ALDRIN BHCALPHA BI	

Inter Office Shipment or Sample Comments:

Date Relinquished:

Date Received:

Inter-Office Shipment

IOS Number : 45314

Date/Time:	07.31.2019 13:32	Created by:	Diana Magierowski	Please send report to:	Matthew Jones
Lab# From:	**South Florida**	Delivery Priority:		Address:	Xenco Laboratories
Lab# To:	**Houston**	Air Bill No.:	775858462762	E-Mail:	matthew.jones@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
632582-017	S	CS-23 (0-6")	07.30.2019 12:56	SW6010C	Metals, Total by SW846 6010C	08.06.2019	01.26.2020	MAJ	AS CR CU FE MN PB	
632582-017	W	CS-23 (0-6")	07.30.2019 12:56	E300SPLP	SPLP Nitrate/Nitrite by EPA 300.0	HOLD	01.26.2020	MAJ	NO2N NO3N	
632582-018	W	CS-23 (6"-24")	07.30.2019 12:56	E300SPLP	SPLP Nitrate/Nitrite by EPA 300.0	HOLD	01.26.2020	MAJ	NO2N NO3N	
632582-018	W	CS-23 (6"-24")	07.30.2019 12:56	E350.1_SPLP	SPLP Ammonia By EPA 350.1	08.06.2019	08.27.2019	MAJ	NH3N	
632582-018	S	CS-23 (6"-24")	07.30.2019 12:56	SW6010C	Metals, Total by SW846 6010C	08.06.2019	01.26.2020	MAJ	AS CR CU FE MN PB	
632582-018	S	CS-23 (6"-24")	07.30.2019 12:56	SW8081B	Pesticides by SW-846 8081B	08.06.2019	08.13.2019	MAJ	ALDRIN BHCALPHA BI	
632582-018	W	CS-23 (6"-24")	07.30.2019 12:56	E353.2_NOX_SPLP	SPLP Nitrate-Nitrite by E353.2	08.06.2019	08.27.2019	MAJ		
632582-018	W	CS-23 (6"-24")	07.30.2019 12:56	E300SPLP	SPLP Nitrate/Nitrite by EPA 300.0	HOLD	01.26.2020	MAJ	NO2N NO3N	
632582-019	W	CS-24 (0-6")	07.30.2019 13:24	E300SPLP	SPLP Nitrate/Nitrite by EPA 300.0	HOLD	01.26.2020	MAJ	NO2N NO3N	
632582-019	W	CS-24 (0-6")	07.30.2019 13:24	E353.2_NOX_SPLP	SPLP Nitrate-Nitrite by E353.2	08.06.2019	08.27.2019	MAJ		
632582-019	S	CS-24 (0-6")	07.30.2019 13:24	SW8081B	Pesticides by SW-846 8081B	08.06.2019	08.13.2019	MAJ	ALDRIN BHCALPHA BI	
632582-019	S	CS-24 (0-6")	07.30.2019 13:24	SW6010C	Metals, Total by SW846 6010C	08.06.2019	01.26.2020	MAJ	AS CR CU FE MN PB	
632582-019	W	CS-24 (0-6")	07.30.2019 13:24	E300SPLP	SPLP Nitrate/Nitrite by EPA 300.0	HOLD	01.26.2020	MAJ	NO2N NO3N	
632582-019	W	CS-24 (0-6")	07.30.2019 13:24	E350.1_SPLP	SPLP Ammonia By EPA 350.1	08.06.2019	08.27.2019	MAJ	NH3N	
632582-020	W	CS-24 (6"-24")	07.30.2019 13:24	E350.1_SPLP	SPLP Ammonia By EPA 350.1	08.06.2019	08.27.2019	MAJ	NH3N	
632582-020	S	CS-24 (6"-24")	07.30.2019 13:24	SW6010C	Metals, Total by SW846 6010C	08.06.2019	01.26.2020	MAJ	AS CR CU FE MN PB	
632582-020	S	CS-24 (6"-24")	07.30.2019 13:24	SW8081B	Pesticides by SW-846 8081B	08.06.2019	08.13.2019	MAJ	ALDRIN BHCALPHA BI	
632582-020	W	CS-24 (6"-24")	07.30.2019 13:24	E300SPLP	SPLP Nitrate/Nitrite by EPA 300.0	HOLD	01.26.2020	MAJ	NO2N NO3N	
632582-020	W	CS-24 (6"-24")	07.30.2019 13:24	E300SPLP	SPLP Nitrate/Nitrite by EPA 300.0	HOLD	01.26.2020	MAJ	NO2N NO3N	
632582-020	W	CS-24 (6"-24")	07.30.2019 13:24	E353.2_NOX_SPLP	SPLP Nitrate-Nitrite by E353.2	08.06.2019	08.27.2019	MAJ		
632582-021	W	CS-25 (0-6")	07.30.2019 13:30	E300SPLP	SPLP Nitrate/Nitrite by EPA 300.0	HOLD	01.26.2020	MAJ	NO2N NO3N	
632582-021	W	CS-25 (0-6")	07.30.2019 13:30	E353.2_NOX_SPLP	SPLP Nitrate-Nitrite by E353.2	08.06.2019	08.27.2019	MAJ		
632582-021	S	CS-25 (0-6")	07.30.2019 13:30	SW8081B	Pesticides by SW-846 8081B	08.06.2019	08.13.2019	MAJ	ALDRIN BHCALPHA BI	
632582-021	S	CS-25 (0-6")	07.30.2019 13:30	SW6010C	Metals, Total by SW846 6010C	08.06.2019	01.26.2020	MAJ	AS CR CU FE MN PB	
632582-021	W	CS-25 (0-6")	07.30.2019 13:30	E350.1_SPLP	SPLP Ammonia By EPA 350.1	08.06.2019	08.27.2019	MAJ	NH3N	

Inter Office Shipment or Sample Comments:

Inter-Office Shipment

IOS Number : 45314

Date/Time:	07.31.2019 13:32	Created by:	Diana Magierowski	Please send report to:	Matthew Jones
Lab# From:	**South Florida**	Delivery Priority:		Address:	Xenco Laboratories
Lab# To:	**Houston**	Air Bill No.:	775858462762	E-Mail:	matthew.jones@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
632582-021	W	CS-25 (0-6")	07.30.2019 13:30	E300SPLP	SPLP Nitrate/Nitrite by EPA 300.0	HOLD	01.26.2020	MAJ	NO2N NO3N	
632582-022	S	CS-25 (6"-24")	07.30.2019 13:30	SW8081B	Pesticides by SW-846 8081B	08.06.2019	08.13.2019	MAJ	ALDRIN BHCALPHA BI	
632582-022	S	CS-25 (6"-24")	07.30.2019 13:30	SW6010C	Metals, Total by SW846 6010C	08.06.2019	01.26.2020	MAJ	AS CR CU FE MN PB	
632582-022	W	CS-25 (6"-24")	07.30.2019 13:30	E300SPLP	SPLP Nitrate/Nitrite by EPA 300.0	HOLD	01.26.2020	MAJ	NO2N NO3N	
632582-022	W	CS-25 (6"-24")	07.30.2019 13:30	E350.1_SPLP	SPLP Ammonia By EPA 350.1	08.06.2019	08.27.2019	MAJ	NH3N	
632582-022	W	CS-25 (6"-24")	07.30.2019 13:30	E300SPLP	SPLP Nitrate/Nitrite by EPA 300.0	HOLD	01.26.2020	MAJ	NO2N NO3N	
632582-022	W	CS-25 (6"-24")	07.30.2019 13:30	E353.2_NOX_SPLP	SPLP Nitrate-Nitrite by E353.2	08.06.2019	08.27.2019	MAJ		
632582-023	W	CS-26 (0-6")	07.30.2019 13:51	E300SPLP	SPLP Nitrate/Nitrite by EPA 300.0	HOLD	01.26.2020	MAJ	NO2N NO3N	
632582-023	W	CS-26 (0-6")	07.30.2019 13:51	E353.2_NOX_SPLP	SPLP Nitrate-Nitrite by E353.2	08.06.2019	08.27.2019	MAJ		
632582-023	S	CS-26 (0-6")	07.30.2019 13:51	SW8081B	Pesticides by SW-846 8081B	08.06.2019	08.13.2019	MAJ	ALDRIN BHCALPHA BI	
632582-023	S	CS-26 (0-6")	07.30.2019 13:51	SW6010C	Metals, Total by SW846 6010C	08.06.2019	01.26.2020	MAJ	AS CR CU FE MN PB	
632582-023	W	CS-26 (0-6")	07.30.2019 13:51	E350.1_SPLP	SPLP Ammonia By EPA 350.1	08.06.2019	08.27.2019	MAJ	NH3N	
632582-023	W	CS-26 (0-6")	07.30.2019 13:51	E300SPLP	SPLP Nitrate/Nitrite by EPA 300.0	HOLD	01.26.2020	MAJ	NO2N NO3N	
632582-024	S	CS-26 (6"-24")	07.30.2019 13:51	SW8081B	Pesticides by SW-846 8081B	08.06.2019	08.13.2019	MAJ	ALDRIN BHCALPHA BI	
632582-024	S	CS-26 (6"-24")	07.30.2019 13:51	SW6010C	Metals, Total by SW846 6010C	08.06.2019	01.26.2020	MAJ	AS CR CU FE MN PB	
632582-024	W	CS-26 (6"-24")	07.30.2019 13:51	E300SPLP	SPLP Nitrate/Nitrite by EPA 300.0	HOLD	01.26.2020	MAJ	NO2N NO3N	
632582-024	W	CS-26 (6"-24")	07.30.2019 13:51	E300SPLP	SPLP Nitrate/Nitrite by EPA 300.0	HOLD	01.26.2020	MAJ	NO2N NO3N	
632582-024	W	CS-26 (6"-24")	07.30.2019 13:51	E353.2_NOX_SPLP	SPLP Nitrate-Nitrite by E353.2	08.06.2019	08.27.2019	MAJ		
632582-024	W	CS-26 (6"-24")	07.30.2019 13:51	E350.1_SPLP	SPLP Ammonia By EPA 350.1	08.06.2019	08.27.2019	MAJ	NH3N	
632582-025	W	CS-27 (0-6")	07.30.2019 11:18	E300SPLP	SPLP Nitrate/Nitrite by EPA 300.0	HOLD	01.26.2020	MAJ	NO2N NO3N	
632582-025	W	CS-27 (0-6")	07.30.2019 11:18	E350.1_SPLP	SPLP Ammonia By EPA 350.1	08.06.2019	08.27.2019	MAJ	NH3N	
632582-025	S	CS-27 (0-6")	07.30.2019 11:18	SW6010C	Metals, Total by SW846 6010C	08.06.2019	01.26.2020	MAJ	AS CR CU FE MN PB	
632582-025	S	CS-27 (0-6")	07.30.2019 11:18	SW8081B	Pesticides by SW-846 8081B	08.06.2019	08.13.2019	MAJ	ALDRIN BHCALPHA BI	
632582-025	W	CS-27 (0-6")	07.30.2019 11:18	E300SPLP	SPLP Nitrate/Nitrite by EPA 300.0	HOLD	01.26.2020	MAJ	NO2N NO3N	
632582-025	W	CS-27 (0-6")	07.30.2019 11:18	E353.2_NOX_SPLP	SPLP Nitrate-Nitrite by E353.2	08.06.2019	08.27.2019	MAJ		

Inter Office Shipment or Sample Comments:

Inter-Office Shipment

IOS Number : 45314

Date/Time:	07.31.2019 13:32	Created by:	Diana Magierowski	Please send report to:	Matthew Jones
Lab# From:	**South Florida**	Delivery Priority:		Address:	Xenco Laboratories
Lab# To:	**Houston**	Air Bill No.:	775858462762	E-Mail:	matthew.jones@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
632582-026	W	CS-27 (6-24")	07.30.2019 11:18	E353.2_NOX_SPLP	SPLP Nitrate-Nitrite by E353.2	08.06.2019	08.27.2019	MAJ		
632582-026	W	CS-27 (6-24")	07.30.2019 11:18	E300SPLP	SPLP Nitrate/Nitrite by EPA 300.0	HOLD	01.26.2020	MAJ	NO2N NO3N	
632582-026	S	CS-27 (6-24")	07.30.2019 11:18	SW8081B	Pesticides by SW-846 8081B	08.06.2019	08.13.2019	MAJ	ALDRIN BHCALPHA BI	
632582-026	S	CS-27 (6-24")	07.30.2019 11:18	SW6010C	Metals, Total by SW846 6010C	08.06.2019	01.26.2020	MAJ	AS CR CU FE MN PB	
632582-026	W	CS-27 (6-24")	07.30.2019 11:18	E300SPLP	SPLP Nitrate/Nitrite by EPA 300.0	HOLD	01.26.2020	MAJ	NO2N NO3N	
632582-026	W	CS-27 (6-24")	07.30.2019 11:18	E350.1_SPLP	SPLP Ammonia By EPA 350.1	08.06.2019	08.27.2019	MAJ	NH3N	

Inter Office Shipment or Sample Comments:

Diana Magierowski

07.31.2019

Travis Simmons

08.01.2019 09:50

Cooler Temperature: 5.7

Inter-Office Shipment

IOS Number **45315**

Date/Time: 07/31/19 13:32
Lab# From: **South Florida**
Lab# To: **Dallas**

Created by: Diana Magierowski
Delivery Priority: Fedex
Air Bill No.: 775885452187

Please send report to: Matthew Jones
Address: Xenco Laboratories
E-Mail: matthew.jones@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
632582-001	S	CS-15 (0-6")	07/30/19 09:00	SM2540G-MOIST	Percent Moisture by SM2540G	08/06/19	01/26/20	MAJ	MOIST	
632582-001	S	CS-15 (0-6")	07/30/19 09:00	SW8141B	EPA 8141 Organophosphorus Pesticides b	08/06/19	08/13/19	MAJ	ATRAZINE N/A N/A N/A	
632582-002	S	CS-15 (6"-24")	07/30/19 09:00	SM2540G-MOIST	Percent Moisture by SM2540G	08/06/19	01/26/20	MAJ	MOIST	
632582-002	S	CS-15 (6"-24")	07/30/19 09:00	SW8141B	EPA 8141 Organophosphorus Pesticides b	08/06/19	08/13/19	MAJ	ATRAZINE N/A N/A N/A	
632582-003	S	CS-16 (0-6")	07/30/19 09:15	SM2540G-MOIST	Percent Moisture by SM2540G	08/06/19	01/26/20	MAJ	MOIST	
632582-003	S	CS-16 (0-6")	07/30/19 09:15	SW8141B	EPA 8141 Organophosphorus Pesticides b	08/06/19	08/13/19	MAJ	ATRAZINE N/A N/A N/A	
632582-004	S	CS-16 (6"-24")	07/30/19 09:15	SM2540G-MOIST	Percent Moisture by SM2540G	08/06/19	01/26/20	MAJ	MOIST	
632582-004	S	CS-16 (6"-24")	07/30/19 09:15	SW8141B	EPA 8141 Organophosphorus Pesticides b	08/06/19	08/13/19	MAJ	ATRAZINE N/A N/A N/A	
632582-005	S	CS-17 (0-6")	07/30/19 09:22	SM2540G-MOIST	Percent Moisture by SM2540G	08/06/19	01/26/20	MAJ	MOIST	
632582-005	S	CS-17 (0-6")	07/30/19 09:22	SW8141B	EPA 8141 Organophosphorus Pesticides b	08/06/19	08/13/19	MAJ	ATRAZINE N/A N/A N/A	
632582-006	S	CS-17 (6"-24")	07/30/19 09:22	SM2540G-MOIST	Percent Moisture by SM2540G	08/06/19	01/26/20	MAJ	MOIST	
632582-006	S	CS-17 (6"-24")	07/30/19 09:22	SW8141B	EPA 8141 Organophosphorus Pesticides b	08/06/19	08/13/19	MAJ	ATRAZINE N/A N/A N/A	
632582-007	S	CS-18 (0-6")	07/30/19 09:45	SM2540G-MOIST	Percent Moisture by SM2540G	08/06/19	01/26/20	MAJ	MOIST	
632582-007	S	CS-18 (0-6")	07/30/19 09:45	SW8141B	EPA 8141 Organophosphorus Pesticides b	08/06/19	08/13/19	MAJ	ATRAZINE N/A N/A N/A	
632582-008	S	CS-18 (6"-24")	07/30/19 09:45	SM2540G-MOIST	Percent Moisture by SM2540G	08/06/19	01/26/20	MAJ	MOIST	
632582-008	S	CS-18 (6"-24")	07/30/19 09:45	SW8141B	EPA 8141 Organophosphorus Pesticides b	08/06/19	08/13/19	MAJ	ATRAZINE N/A N/A N/A	
632582-009	S	CS-19 (0-6")	07/30/19 10:15	SM2540G-MOIST	Percent Moisture by SM2540G	08/06/19	01/26/20	MAJ	MOIST	
632582-009	S	CS-19 (0-6")	07/30/19 10:15	SW8141B	EPA 8141 Organophosphorus Pesticides b	08/06/19	08/13/19	MAJ	ATRAZINE N/A N/A N/A	
632582-010	S	CS-19 (6"-24")	07/30/19 10:15	SM2540G-MOIST	Percent Moisture by SM2540G	08/06/19	01/26/20	MAJ	MOIST	
632582-010	S	CS-19 (6"-24")	07/30/19 10:15	SW8141B	EPA 8141 Organophosphorus Pesticides b	08/06/19	08/13/19	MAJ	ATRAZINE N/A N/A N/A	
632582-011	S	CS-20 (0-6")	07/30/19 10:31	SW8141B	EPA 8141 Organophosphorus Pesticides b	08/06/19	08/13/19	MAJ	ATRAZINE N/A N/A N/A	
632582-011	S	CS-20 (0-6")	07/30/19 10:31	SM2540G-MOIST	Percent Moisture by SM2540G	08/06/19	01/26/20	MAJ	MOIST	
632582-012	S	CS-20 (6"-24")	07/30/19 10:31	SW8141B	EPA 8141 Organophosphorus Pesticides b	08/06/19	08/13/19	MAJ	ATRAZINE N/A N/A N/A	
632582-012	S	CS-20 (6"-24")	07/30/19 10:31	SM2540G-MOIST	Percent Moisture by SM2540G	08/06/19	01/26/20	MAJ	MOIST	
632582-013	S	CS-21 (0-6")	07/30/19 11:03	SM2540G-MOIST	Percent Moisture by SM2540G	08/06/19	01/26/20	MAJ	MOIST	

Inter-Office Shipment

IOS Number **45315**

Date/Time: 07/31/19 13:32
Lab# From: **South Florida**
Lab# To: **Dallas**

Created by: Diana Magierowski
Delivery Priority: Fedex
Air Bill No.: 775885452187

Please send report to: Matthew Jones
Address: Xenco Laboratories
E-Mail: matthew.jones@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
632582-013	S	CS-21 (0-6")	07/30/19 11:03	SW8141B	EPA 8141 Organophosphorus Pesticides b	08/06/19	08/13/19	MAJ	ATRAZINE N/A N/A N/A	
632582-014	S	CS-21 (6"-24")	07/30/19 11:03	SW8141B	EPA 8141 Organophosphorus Pesticides b	08/06/19	08/13/19	MAJ	ATRAZINE N/A N/A N/A	
632582-014	S	CS-21 (6"-24")	07/30/19 11:03	SM2540G-MOIST	Percent Moisture by SM2540G	08/06/19	01/26/20	MAJ	MOIST	
632582-015	S	CS-22 (0-6")	07/30/19 11:39	SW8141B	EPA 8141 Organophosphorus Pesticides b	08/06/19	08/13/19	MAJ	ATRAZINE N/A N/A N/A	
632582-015	S	CS-22 (0-6")	07/30/19 11:39	SM2540G-MOIST	Percent Moisture by SM2540G	08/06/19	01/26/20	MAJ	MOIST	
632582-016	S	CS-22 (6"-24")	07/30/19 11:39	SM2540G-MOIST	Percent Moisture by SM2540G	08/06/19	01/26/20	MAJ	MOIST	
632582-016	S	CS-22 (6"-24")	07/30/19 11:39	SW8141B	EPA 8141 Organophosphorus Pesticides b	08/06/19	08/13/19	MAJ	ATRAZINE N/A N/A N/A	
632582-017	S	CS-23 (0-6")	07/30/19 12:56	SW8141B	EPA 8141 Organophosphorus Pesticides b	08/06/19	08/13/19	MAJ	ATRAZINE N/A N/A N/A	
632582-017	S	CS-23 (0-6")	07/30/19 12:56	SM2540G-MOIST	Percent Moisture by SM2540G	08/06/19	01/26/20	MAJ	MOIST	
632582-018	S	CS-23 (6"-24")	07/30/19 12:56	SW8141B	EPA 8141 Organophosphorus Pesticides b	08/06/19	08/13/19	MAJ	ATRAZINE N/A N/A N/A	
632582-018	S	CS-23 (6"-24")	07/30/19 12:56	SM2540G-MOIST	Percent Moisture by SM2540G	08/06/19	01/26/20	MAJ	MOIST	
632582-019	S	CS-24 (0-6")	07/30/19 13:24	SW8141B	EPA 8141 Organophosphorus Pesticides b	08/06/19	08/13/19	MAJ	ATRAZINE N/A N/A N/A	
632582-019	S	CS-24 (0-6")	07/30/19 13:24	SM2540G-MOIST	Percent Moisture by SM2540G	08/06/19	01/26/20	MAJ	MOIST	
632582-020	S	CS-24 (6"-24")	07/30/19 13:24	SM2540G-MOIST	Percent Moisture by SM2540G	08/06/19	01/26/20	MAJ	MOIST	
632582-020	S	CS-24 (6"-24")	07/30/19 13:24	SW8141B	EPA 8141 Organophosphorus Pesticides b	08/06/19	08/13/19	MAJ	ATRAZINE N/A N/A N/A	
632582-021	S	CS-25 (0-6")	07/30/19 13:30	SM2540G-MOIST	Percent Moisture by SM2540G	08/06/19	01/26/20	MAJ	MOIST	
632582-021	S	CS-25 (0-6")	07/30/19 13:30	SW8141B	EPA 8141 Organophosphorus Pesticides b	08/06/19	08/13/19	MAJ	ATRAZINE N/A N/A N/A	
632582-022	S	CS-25 (6"-24")	07/30/19 13:30	SM2540G-MOIST	Percent Moisture by SM2540G	08/06/19	01/26/20	MAJ	MOIST	
632582-022	S	CS-25 (6"-24")	07/30/19 13:30	SW8141B	EPA 8141 Organophosphorus Pesticides b	08/06/19	08/13/19	MAJ	ATRAZINE N/A N/A N/A	
632582-023	S	CS-26 (0-6")	07/30/19 13:51	SM2540G-MOIST	Percent Moisture by SM2540G	08/06/19	01/26/20	MAJ	MOIST	
632582-023	S	CS-26 (0-6")	07/30/19 13:51	SW8141B	EPA 8141 Organophosphorus Pesticides b	08/06/19	08/13/19	MAJ	ATRAZINE N/A N/A N/A	
632582-024	S	CS-26 (6"-24")	07/30/19 13:51	SW8141B	EPA 8141 Organophosphorus Pesticides b	08/06/19	08/13/19	MAJ	ATRAZINE N/A N/A N/A	
632582-024	S	CS-26 (6"-24")	07/30/19 13:51	SM2540G-MOIST	Percent Moisture by SM2540G	08/06/19	01/26/20	MAJ	MOIST	
632582-025	S	CS-27 (0-6")	07/30/19 11:18	SM2540G-MOIST	Percent Moisture by SM2540G	08/06/19	01/26/20	MAJ	MOIST	
632582-025	S	CS-27 (0-6")	07/30/19 11:18	SW8141B	EPA 8141 Organophosphorus Pesticides b	08/06/19	08/13/19	MAJ	ATRAZINE N/A N/A N/A	

Inter Office Shipment or Sample Comments:

Inter-Office Shipment

IOS Number **45315**

Date/Time: 07/31/19 13:32
Lab# From: **South Florida**
Lab# To: **Dallas**

Created by: Diana Magierowski
Delivery Priority: Fedex
Air Bill No.: 775885452187

Please send report to: Matthew Jones
Address: Xenco Laboratories
E-Mail: matthew.jones@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
632582-026	S	CS-27 (6-24")	07/30/19 11:18	SM2540G-MOIST	Percent Moisture by SM2540G	08/06/19	01/26/20	MAJ	MOIST	
632582-026	S	CS-27 (6-24")	07/30/19 11:18	SW8141B	EPA 8141 Organophosphorus Pesticides b	08/06/19	08/13/19	MAJ	ATRAZINE N/A N/A N/A	

Inter Office Shipment or Sample Comments:

Relinquished By: Diana Magierowski

Date Relinquished: 07/31/2019

Received By: Angelica Martinez

Date Received: 08/01/2019 10:55

Cooler Temperature: 0.9

XENCO Laboratories

Inter Office Report- Sample Receipt Checklist

Sent To: Houston

IOS #: 45314

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient
Temperature Measuring device used : HOU-068

Sent By: Diana Magierowski **Date Sent:** 07.31.2019 01.32 PM

Received By: Travis Simmons **Date Received:** 08.01.2019 09.50 AM

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	5.7	
#2 *Shipping container in good condition?	**Yes**	
#3 *Samples received with appropriate temperature?	**Yes**	
#4 *Custody Seals intact on shipping container/ cooler?	**N/A**	
#5 *Custody Seals Signed and dated for Containers/coolers	**N/A**	
#6 *IOS present?	**Yes**	
#7 Any missing/extra samples?	**No**	
#8 IOS agrees with sample label(s)/matrix?	**Yes**	
#9 Sample matrix/ properties agree with IOS?	**Yes**	
#10 Samples in proper container/ bottle?	**Yes**	
#11 Samples properly preserved?	**Yes**	
#12 Sample container(s) intact?	**Yes**	
#13 Sufficient sample amount for indicated test(s)?	**Yes**	
#14 All samples received within hold time?	**Yes**	

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

NonConformance:

Corrective Action Taken:

Nonconformance Documentation

Contact: _____ **Contacted by :** _____ **Date:** _____

Checklist reviewed by: Travis Simmons Date: 08.01.2019

Travis Simmons

XENCO Laboratories

Inter Office Report- Sample Receipt Checklist

Sent To: Dallas

IOS #: 45315

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient
Temperature Measuring device used : IR2

Sent By: Diana Magierowski **Date Sent:** 07/31/2019 01:32 PM

Received By: Angelica Martinez **Date Received:** 08/01/2019 10:55 AM

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	.9	
#2 *Shipping container in good condition?	**Yes**	
#3 *Samples received with appropriate temperature?	**Yes**	
#4 *Custody Seals intact on shipping container/ cooler?	**Yes**	
#5 *Custody Seals Signed and dated for Containers/coolers	**Yes**	
#6 *IOS present?	**Yes**	
#7 Any missing/extra samples?	**No**	
#8 IOS agrees with sample label(s)/matrix?	**Yes**	
#9 Sample matrix/ properties agree with IOS?	**Yes**	
#10 Samples in proper container/ bottle?	**Yes**	
#11 Samples properly preserved?	**Yes**	
#12 Sample container(s) intact?	**Yes**	
#13 Sufficient sample amount for indicated test(s)?	**Yes**	
#14 All samples received within hold time?	**Yes**	

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

NonConformance:

Corrective Action Taken:

Nonconformance Documentation

Contact: _____ **Contacted by :** _____ **Date:** _____

Checklist reviewed by: Angelica Martinez Date: 08/01/2019

Angelica Martinez

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Universal Engineering Services Miami

Date/ Time Received: 07/31/2019 12:10:00 PM

Work Order #: 632582

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : IR#1

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	2.9
#2 *Shipping container in good condition?	**Yes**
#3 *Samples received on ice?	**Yes**
#4 *Custody Seals intact on shipping container/ cooler?	**N/A**
#5 Custody Seals intact on sample bottles?	**N/A**
#6*Custody Seals Signed and dated?	**N/A**
#7 *Chain of Custody present?	**Yes**
#8 Any missing/extra samples?	**No**
#9 Chain of Custody signed when relinquished/ received?	**Yes**
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**
#11 Container label(s) legible and intact?	**Yes**
#12 Samples in proper container/ bottle?	**Yes**
#13 Samples properly preserved?	**Yes**
#14 Sample container(s) intact?	**Yes**
#15 Sufficient sample amount for indicated test(s)?	**Yes**
#16 All samples received within hold time?	**Yes**
#17 Subcontract of sample(s)?	**Yes**
#18 Water VOC samples have zero headspace?	**N/A**

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: PH Device/Lot#:

Checklist completed by: Jessica Magierowski Date: 07/31/2019

Checklist reviewed by: Matthew Jones Date: 07/31/2019

Analytical Report 633277

for

Universal Engineering Services Miami

Project Manager: Leigh Marshallsay

Proposed Publix

15-AUG-19

Xenco Laboratories
1395 NW 17th Avenue, Suite 112A
Delray Beach, FL 33445
Ph:(561) 689-6701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-29), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142), North Carolina (681)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-19-19), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-14)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-20)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-18)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Atlanta (LELAP Lab ID #04176)
Xenco-Tampa: Florida (E87429), North Carolina (483)

15-AUG-19

Project Manager: **Leigh Marshallsay**
Universal Engineering Services Miami
9960 NW 116th Way Suite 8

Miami, FL 33178

Reference: XENCO Report No(s): **633277**
Proposed Publix
Project Address:

Leigh Marshallsay:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 633277. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 633277 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Matthew Jones
Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America

Sample Cross Reference 633277

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-1	W	08-06-19 07:56		633277-001
MW-2	W	08-06-19 08:42		633277-002
MW-3	W	08-06-19 09:20		633277-003
MW-4	W	08-06-19 14:35		633277-004
MW-5	W	08-06-19 09:51		633277-005
MW-6	W	08-06-19 17:02		633277-006
MW-7	W	08-06-19 16:13		633277-007
MW-8	W	08-06-19 16:27		633277-008
MW-9	W	08-06-19 17:37		633277-009
MW-10	W	08-06-19 17:58		633277-010
MW-11	W	08-06-19 15:06		633277-011
MW-12	W	08-06-19 15:22		633277-012

CASE NARRATIVE

Client Name: Universal Engineering Services Miami

Project Name: Proposed Publix

Project ID:
Work Order Number(s): *633277*

Report Date: *15-AUG-19*
Date Received: *08/07/2019*

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3098267 Nitrogen, Nitrate-Nitrite by EPA 353.2
The matrix spike (MS) and / or matrix spike duplicate (MSD) associated with batch 103607 recovered outside control limits for Nitrogen, Nitrate-Nitrite. The associated laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) met acceptance criteria; therefore, the results have been reported and qualified.

Batch: LBA-3098326 Nitrogen, Nitrate-Nitrite by EPA 353.2
The matrix spike (MS) and / or matrix spike duplicate (MSD) associated with batch 103607 recovered outside control limits for Nitrogen, Nitrate-Nitrite. The associated laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) met acceptance criteria; therefore, the results have been reported and qualified.

Batch: LBA-3098468 EPA 8141 Organophosphorus Pesticides by GC
The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) associated with batch 3098468 recovered outside control limits for Famphur. The target analyte was biased high in the LCS and LCSD and detected in sample MW-1. Famphur detection in this sample should be considered baised high.

The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) associated with batch 3098468 recovered outside control limits for multiple analytes. These target analyte were biased high in the LCS/LCSD and were not detected in any of the associated samples, except where noted above; therefore, the results have been reported and qualified.

Surrogate recovery for the following sample was outside control limits: 7684067-1-BKS,7684067-1-BLK,7684067-1-BSD, MW-10 (633277-010), MW-9 (633277-009), MW-11 (633277-011), MW-12 (633277-012), MW-8 (633277-008), MW-6 (633277-006), MW-3 (633277-003), MW-1 (633277-001), and MW-7 (633277-007). The data was confirmed by re-analysis; therefore, the results have been reported and qualified.

Hits Summary 633277

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Below is a summary of the analytes which were found to be present in the samples associated with this work order. This should only be used in conjunction with the included analytical results.

Sample ID: MW-1 **Sample ID: 633277-001** **Date/Time Sampled: 08/06/2019 07:56** **Matrix: Water**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Famphur	8141B	52-85-7	10	2.50	0.500	0.500	ug/L	
Iron	SW6010C	7439-89-6	1	751	200	28.3	ug/L	
Manganese	SW6010C	7439-96-5	1	11.0	20.0	3.16	ug/L	I
Nitrogen, Ammonia (as N)	EPA350.1	7664-41-7	1	41.1	100	34.5	ug/L	I
Nitrogen, Nitrate-Nitrite	EPA353.2	7727-37-9	1	85.8	100	28.3	ug/L	IJ

Sample ID: MW-2 **Sample ID: 633277-002** **Date/Time Sampled: 08/06/2019 08:42** **Matrix: Water**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Arsenic	SW6010C	7440-38-2	1	9.56	20.0	5.50	ug/L	I
Iron	SW6010C	7439-89-6	1	724	200	28.3	ug/L	
Manganese	SW6010C	7439-96-5	1	8.04	20.0	3.16	ug/L	I
Nitrogen, Ammonia (as N)	EPA350.1	7664-41-7	1	320	100	34.5	ug/L	
Nitrogen, Nitrate-Nitrite	EPA353.2	7727-37-9	1	29.7	100	28.3	ug/L	IJ

Sample ID: MW-3 **Sample ID: 633277-003** **Date/Time Sampled: 08/06/2019 09:20** **Matrix: Water**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Arsenic	SW6010C	7440-38-2	1	12.2	20.0	5.50	ug/L	I
Iron	SW6010C	7439-89-6	1	645	200	28.3	ug/L	
Manganese	SW6010C	7439-96-5	1	7.99	20.0	3.16	ug/L	I
Nitrogen, Ammonia (as N)	EPA350.1	7664-41-7	1	82.3	100	34.5	ug/L	I
Nitrogen, Nitrate-Nitrite	EPA353.2	7727-37-9	1	41.6	100	28.3	ug/L	I

Sample ID: MW-4 **Sample ID: 633277-004** **Date/Time Sampled: 08/06/2019 14:35** **Matrix: Water**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Arsenic	SW6010C	7440-38-2	1	17.4	20.0	5.50	ug/L	I
Iron	SW6010C	7439-89-6	1	1580	200	28.3	ug/L	
Manganese	SW6010C	7439-96-5	1	6.05	20.0	3.16	ug/L	I
Nitrogen, Ammonia (as N)	EPA350.1	7664-41-7	1	163	100	34.5	ug/L	
Nitrogen, Nitrate-Nitrite	EPA353.2	7727-37-9	1	76.1	100	28.3	ug/L	I

Sample ID: MW-5 **Sample ID: 633277-005** **Date/Time Sampled: 08/06/2019 09:51** **Matrix: Water**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Iron	SW6010C	7439-89-6	1	44.7	200	28.3	ug/L	I
Nitrogen, Nitrate-Nitrite	EPA353.2	7727-37-9	1	314	100	28.3	ug/L	

Sample ID: MW-6 **Sample ID: 633277-006** **Date/Time Sampled: 08/06/2019 17:02** **Matrix: Water**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Nitrogen, Ammonia (as N)	EPA350.1	7664-41-7	1	57.7	100	34.5	ug/L	I
Nitrogen, Nitrate-Nitrite	EPA353.2	7727-37-9	1	166	100	28.3	ug/L	

Sample ID: MW-7 **Sample ID: 633277-007** **Date/Time Sampled: 08/06/2019 16:13** **Matrix: Water**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Iron	SW6010C	7439-89-6	1	212	200	28.3	ug/L	
Nitrogen, Ammonia (as N)	EPA350.1	7664-41-7	1	42.3	100	34.5	ug/L	I

Hits Summary 633277

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample ID: 633277-007 **Date/Time Sampled: 08/06/2019 16:13** **Matrix: Water**

Nitrogen, Nitrate-Nitrite	EPA353.2	7727-37-9	1	217	100	28.3	ug/L	

Sample ID: MW-8 **Sample ID: 633277-008** **Date/Time Sampled: 08/06/2019 16:27** **Matrix: Water**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Iron	SW6010C	7439-89-6	1	526	200	28.3	ug/L	
Manganese	SW6010C	7439-96-5	1	10.1	20.0	3.16	ug/L	I
Nitrogen, Ammonia (as N)	EPA350.1	7664-41-7	1	42.7	100	34.5	ug/L	I
Nitrogen, Nitrate-Nitrite	EPA353.2	7727-37-9	1	79.4	100	28.3	ug/L	I

Sample ID: MW-9 **Sample ID: 633277-009** **Date/Time Sampled: 08/06/2019 17:37** **Matrix: Water**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Arsenic	SW6010C	7440-38-2	1	28.4	20.0	5.50	ug/L	
Iron	SW6010C	7439-89-6	1	539	200	28.3	ug/L	
Manganese	SW6010C	7439-96-5	1	42.0	20.0	3.16	ug/L	
Nitrogen, Ammonia (as N)	EPA350.1	7664-41-7	1	98.6	100	34.5	ug/L	I

Sample ID: MW-10 **Sample ID: 633277-010** **Date/Time Sampled: 08/06/2019 17:58** **Matrix: Water**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Arsenic	SW6010C	7440-38-2	1	27.2	20.0	5.50	ug/L	
Iron	SW6010C	7439-89-6	1	377	200	28.3	ug/L	
Manganese	SW6010C	7439-96-5	1	14.6	20.0	3.16	ug/L	I
Nitrogen, Ammonia (as N)	EPA350.1	7664-41-7	1	176	100	34.5	ug/L	

Sample ID: MW-11 **Sample ID: 633277-011** **Date/Time Sampled: 08/06/2019 15:06** **Matrix: Water**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Iron	SW6010C	7439-89-6	1	331	200	28.3	ug/L	
Manganese	SW6010C	7439-96-5	1	7.90	20.0	3.16	ug/L	I
Nitrogen, Ammonia (as N)	EPA350.1	7664-41-7	1	490	100	34.5	ug/L	
Nitrogen, Nitrate-Nitrite	EPA353.2	7727-37-9	1	40.9	100	28.3	ug/L	I

Sample ID: MW-12 **Sample ID: 633277-012** **Date/Time Sampled: 08/06/2019 15:22** **Matrix: Water**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Iron	SW6010C	7439-89-6	1	226	200	28.3	ug/L	
Nitrogen, Ammonia (as N)	EPA350.1	7664-41-7	1	43.1	100	34.5	ug/L	I
Nitrogen, Nitrate-Nitrite	EPA353.2	7727-37-9	1	160	100	28.3	ug/L	

Certificate of Analytical Results 633277

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **MW-1** Matrix: Ground Water Date Received:08.07.19 11.10

Lab Sample Id: 633277-001 Date Collected: 08.06.19 07.56

Analytical Method: Metals, Total by SW846 6010C Prep Method: SW3010A

Tech: AHI % Moisture:

Analyst: DEP Date Prep: 08.09.19 08.00

Seq Number: 3098181 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Arsenic	7440-38-2	5.50 U	20.0	5.50	U	ug/L	08.09.19 18.03	1
Chromium	7440-47-3	0.811 U	10.0	0.811	U	ug/L	08.09.19 18.03	1
Copper	7440-50-8	5.44 U	20.0	5.44	U	ug/L	08.09.19 18.03	1
Iron	7439-89-6	**751**	200	28.3		ug/L	08.09.19 18.03	1
Lead	7439-92-1	2.37 U	15.0	2.37	U	ug/L	08.09.19 18.03	1
Manganese	7439-96-5	**11.0**	20.0	3.16	I	ug/L	08.09.19 18.03	1

Analytical Method: Nitrogen Ammonia by EPA 350.1 Prep Method: E350.1P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.13.19 09.30

Seq Number: 3098381 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Ammonia (as N)	7664-41-7	**41.1**	100	34.5	I	ug/L	08.13.19 14.36	1

Analytical Method: Nitrogen, Nitrate-Nitrite by EPA 353.2 Prep Method: E353.2P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.12.19 11.00

Seq Number: 3098267 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Nitrate-Nitrite	7727-37-9	**85.8**	100	28.3	IJ	ug/L	08.12.19 18.26	1

Certificate of Analytical Results 633277

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **MW-1** Matrix: Ground Water Date Received:08.07.19 11.10

Lab Sample Id: 633277-001 Date Collected: 08.06.19 07.56

Analytical Method: EPA 8141 Organophosphorus Pesticides by GC Prep Method: SW3510C

Tech: BNS % Moisture:

Analyst: CHD Date Prep: 08.12.19 10.41

Seq Number: 3098468 SUB: E871146

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Famphur	52-85-7	**2.50**	0.500	0.500		ug/L	08.14.19 10.26	10
Sulfotepp	3689-24-5	0.0500 U	0.0500	0.0500	U	ug/L	08.13.19 20.50	1
Bolstar	35400-43-2	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 20.50	1
Azinphos-methyl	86-50-0	0.0153 U	0.0500	0.0153	UJ	ug/L	08.13.19 20.50	1
Chlorpyrifos	2921-88-2	0.0152 U	0.0500	0.0152	UJ	ug/L	08.13.19 20.50	1
Coumaphos	56-72-4	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 20.50	1
Demeton-O	298-03-3	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 20.50	1
Demeton-S	126-75-0	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 20.50	1
Diazinon	333-41-5	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 20.50	1
Dichlorovos	62-73-7	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 20.50	1
Dimethoate	60-51-5	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 20.50	1
Disulfoton	298-04-4	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 20.50	1
EPN	2104-64-5	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 20.50	1
Ethoprop	13194-48-4	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 20.50	1
Fenthion	55-38-9	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 20.50	1
Malathion	121-75-5	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 20.50	1
Merphos	150-50-5	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 20.50	1
Mevinphos	7786-34-7	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 20.50	1
Monocrotophos	2157-98-4	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 20.50	1
Naled	300-76-5	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 20.50	1
Parathion, Ethyl	56-38-2	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 20.50	1
Parathion, Methyl	298-00-0	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 20.50	1
Phorate	298-02-2	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 20.50	1
Ronnel	299-84-3	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 20.50	1
stirophos	22248-79-9	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 20.50	1
TEPP	21646-99-1	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 20.50	1
Trichloronate	327-98-0	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 20.50	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tributyl Phosphate	126-73-8	133	%	40-130	08.13.19 20.50	J

Certificate of Analytical Results 633277

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **MW-1**
Lab Sample Id: 633277-001

Matrix: Ground Water
Date Collected: 08.06.19 07.56

Date Received:08.07.19 11.10

Analytical Method: Pesticides by SW-846 8081B
Tech: DRU
Analyst: SHM
Seq Number: 3098355

Date Prep: 08.12.19 15.06

Prep Method: SW3510C
% Moisture:

SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
4,4-DDD	72-54-8	0.0362 U	0.100	0.0362	U	ug/L	08.13.19 11.52	1
4,4-DDE	72-55-9	0.0371 U	0.100	0.0371	U	ug/L	08.13.19 11.52	1
4,4-DDT	50-29-3	0.0588 U	0.100	0.0588	U	ug/L	08.13.19 11.52	1
Aldrin	309-00-2	0.0364 U	0.100	0.0364	U	ug/L	08.13.19 11.52	1
Alpha-BHC	319-84-6	0.0402 U	0.100	0.0402	U	ug/L	08.13.19 11.52	1
Alpha-Chlordane	5103-71-9	0.0353 U	0.100	0.0353	U	ug/L	08.13.19 11.52	1
Beta-BHC	319-85-7	0.0332 U	0.100	0.0332	U	ug/L	08.13.19 11.52	1
Delta-BHC	319-86-8	0.0324 U	0.100	0.0324	U	ug/L	08.13.19 11.52	1
Dieldrin	60-57-1	0.0352 U	0.100	0.0352	U	ug/L	08.13.19 11.52	1
Endosulfan I	959-98-8	0.0357 U	0.100	0.0357	U	ug/L	08.13.19 11.52	1
Endosulfan II	33213-65-9	0.0480 U	0.100	0.0480	U	ug/L	08.13.19 11.52	1
Endosulfan Sulfate	1031-07-8	0.0341 U	0.100	0.0341	U	ug/L	08.13.19 11.52	1
Endrin	72-20-8	0.0498 U	0.100	0.0498	U	ug/L	08.13.19 11.52	1
Endrin Aldehyde	7421-93-4	0.0318 U	0.100	0.0318	U	ug/L	08.13.19 11.52	1
Endrin Ketone	53494-70-5	0.0356 U	0.100	0.0356	U	ug/L	08.13.19 11.52	1
Gamma-BHC (Lindane)	58-89-9	0.0407 U	0.100	0.0407	U	ug/L	08.13.19 11.52	1
Gamma-Chlordane	5103-74-2	0.0351 U	0.100	0.0351	U	ug/L	08.13.19 11.52	1
Heptachlor	76-44-8	0.0426 U	0.100	0.0426	U	ug/L	08.13.19 11.52	1
Heptachlor Epoxide	1024-57-3	0.0363 U	0.100	0.0363	U	ug/L	08.13.19 11.52	1
Methoxychlor	72-43-5	0.0543 U	0.100	0.0543	U	ug/L	08.13.19 11.52	1
Chlordane	12789-03-6	0.516 U	2.50	0.516	U	ug/L	08.13.19 11.52	1
Toxaphene	8001-35-2	0.385 U	2.50	0.385	U	ug/L	08.13.19 11.52	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	41	%	18-126	08.13.19 11.52	
Decachlorobiphenyl	2051-24-3	41	%	15-136	08.13.19 11.52	

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Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **MW-2** Matrix: Ground Water Date Received:08.07.19 11.10

Lab Sample Id: 633277-002 Date Collected: 08.06.19 08.42

Analytical Method: Metals, Total by SW846 6010C Prep Method: SW3010A

Tech: AHI % Moisture:

Analyst: DEP Date Prep: 08.09.19 08.00

Seq Number: 3098181 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Arsenic	7440-38-2	**9.56**	20.0	5.50	I	ug/L	08.09.19 18.32	1
Chromium	7440-47-3	0.811 U	10.0	0.811	U	ug/L	08.09.19 18.32	1
Copper	7440-50-8	5.44 U	20.0	5.44	U	ug/L	08.09.19 18.32	1
Iron	7439-89-6	**724**	200	28.3		ug/L	08.09.19 18.32	1
Lead	7439-92-1	2.37 U	15.0	2.37	U	ug/L	08.09.19 18.32	1
Manganese	7439-96-5	**8.04**	20.0	3.16	I	ug/L	08.09.19 18.32	1

Analytical Method: Nitrogen Ammonia by EPA 350.1 Prep Method: E350.1P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.13.19 09.30

Seq Number: 3098381 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Ammonia (as N)	7664-41-7	**320**	100	34.5		ug/L	08.13.19 14.37	1

Analytical Method: Nitrogen, Nitrate-Nitrite by EPA 353.2 Prep Method: E353.2P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.12.19 11.00

Seq Number: 3098326 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Nitrate-Nitrite	7727-37-9	**29.7**	100	28.3	IJ	ug/L	08.12.19 19.58	1

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Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **MW-2** Matrix: Ground Water Date Received:08.07.19 11.10

Lab Sample Id: 633277-002 Date Collected: 08.06.19 08.42

Analytical Method: EPA 8141 Organophosphorus Pesticides by GC Prep Method: SW3510C

Tech: BNS % Moisture:

Analyst: CHD Date Prep: 08.12.19 10.41

Seq Number: 3098468 SUB: E871146

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Famphur	52-85-7	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 21.20	1
Sulfotepp	3689-24-5	0.0500 U	0.0500	0.0500	U	ug/L	08.13.19 21.20	1
Bolstar	35400-43-2	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 21.20	1
Azinphos-methyl	86-50-0	0.0153 U	0.0500	0.0153	UJ	ug/L	08.13.19 21.20	1
Chlorpyrifos	2921-88-2	0.0152 U	0.0500	0.0152	UJ	ug/L	08.13.19 21.20	1
Coumaphos	56-72-4	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 21.20	1
Demeton-O	298-03-3	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 21.20	1
Demeton-S	126-75-0	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 21.20	1
Diazinon	333-41-5	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 21.20	1
Dichlorovos	62-73-7	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 21.20	1
Dimethoate	60-51-5	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 21.20	1
Disulfoton	298-04-4	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 21.20	1
EPN	2104-64-5	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 21.20	1
Ethoprop	13194-48-4	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 21.20	1
Fenthion	55-38-9	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 21.20	1
Malathion	121-75-5	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 21.20	1
Merphos	150-50-5	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 21.20	1
Mevinphos	7786-34-7	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 21.20	1
Monocrotophos	2157-98-4	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 21.20	1
Naled	300-76-5	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 21.20	1
Parathion, Ethyl	56-38-2	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 21.20	1
Parathion, Methyl	298-00-0	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 21.20	1
Phorate	298-02-2	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 21.20	1
Ronnel	299-84-3	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 21.20	1
stirophos	22248-79-9	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 21.20	1
TEPP	21646-99-1	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 21.20	1
Trichloronate	327-98-0	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 21.20	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tributyl Phosphate	126-73-8	128	%	40-130	08.13.19 21.20	

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Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **MW-2**
Matrix: Ground Water
Date Received:08.07.19 11.10
Lab Sample Id: 633277-002
Date Collected: 08.06.19 08.42

Analytical Method: Pesticides by SW-846 8081B
Prep Method: SW3510C
Tech: DRU
% Moisture:
Analyst: SHM
Date Prep: 08.12.19 15.09
Seq Number: 3098355
SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
4,4-DDD	72-54-8	0.0362 U	0.100	0.0362	U	ug/L	08.13.19 12.06	1
4,4-DDE	72-55-9	0.0371 U	0.100	0.0371	U	ug/L	08.13.19 12.06	1
4,4-DDT	50-29-3	0.0588 U	0.100	0.0588	U	ug/L	08.13.19 12.06	1
Aldrin	309-00-2	0.0364 U	0.100	0.0364	U	ug/L	08.13.19 12.06	1
Alpha-BHC	319-84-6	0.0402 U	0.100	0.0402	U	ug/L	08.13.19 12.06	1
Alpha-Chlordane	5103-71-9	0.0353 U	0.100	0.0353	U	ug/L	08.13.19 12.06	1
Beta-BHC	319-85-7	0.0332 U	0.100	0.0332	U	ug/L	08.13.19 12.06	1
Delta-BHC	319-86-8	0.0324 U	0.100	0.0324	U	ug/L	08.13.19 12.06	1
Dieldrin	60-57-1	0.0352 U	0.100	0.0352	U	ug/L	08.13.19 12.06	1
Endosulfan I	959-98-8	0.0357 U	0.100	0.0357	U	ug/L	08.13.19 12.06	1
Endosulfan II	33213-65-9	0.0480 U	0.100	0.0480	U	ug/L	08.13.19 12.06	1
Endosulfan Sulfate	1031-07-8	0.0341 U	0.100	0.0341	U	ug/L	08.13.19 12.06	1
Endrin	72-20-8	0.0498 U	0.100	0.0498	U	ug/L	08.13.19 12.06	1
Endrin Aldehyde	7421-93-4	0.0318 U	0.100	0.0318	U	ug/L	08.13.19 12.06	1
Endrin Ketone	53494-70-5	0.0356 U	0.100	0.0356	U	ug/L	08.13.19 12.06	1
Gamma-BHC (Lindane)	58-89-9	0.0407 U	0.100	0.0407	U	ug/L	08.13.19 12.06	1
Gamma-Chlordane	5103-74-2	0.0351 U	0.100	0.0351	U	ug/L	08.13.19 12.06	1
Heptachlor	76-44-8	0.0426 U	0.100	0.0426	U	ug/L	08.13.19 12.06	1
Heptachlor Epoxide	1024-57-3	0.0363 U	0.100	0.0363	U	ug/L	08.13.19 12.06	1
Methoxychlor	72-43-5	0.0543 U	0.100	0.0543	U	ug/L	08.13.19 12.06	1
Chlordane	12789-03-6	0.516 U	2.50	0.516	U	ug/L	08.13.19 12.06	1
Toxaphene	8001-35-2	0.385 U	2.50	0.385	U	ug/L	08.13.19 12.06	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	45	%	18-126	08.13.19 12.06	
Decachlorobiphenyl	2051-24-3	38	%	15-136	08.13.19 12.06	

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Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **MW-3** Matrix: Ground Water Date Received:08.07.19 11.10

Lab Sample Id: 633277-003 Date Collected: 08.06.19 09.20

Analytical Method: Metals, Total by SW846 6010C Prep Method: SW3010A

Tech: AHI % Moisture:

Analyst: DEP Date Prep: 08.09.19 08.00

Seq Number: 3098181 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Arsenic	7440-38-2	**12.2**	20.0	5.50	I	ug/L	08.09.19 18.36	1
Chromium	7440-47-3	0.811 U	10.0	0.811	U	ug/L	08.09.19 18.36	1
Copper	7440-50-8	5.44 U	20.0	5.44	U	ug/L	08.09.19 18.36	1
Iron	7439-89-6	**645**	200	28.3		ug/L	08.09.19 18.36	1
Lead	7439-92-1	2.37 U	15.0	2.37	U	ug/L	08.09.19 18.36	1
Manganese	7439-96-5	**7.99**	20.0	3.16	I	ug/L	08.09.19 18.36	1

Analytical Method: Nitrogen Ammonia by EPA 350.1 Prep Method: E350.1P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.13.19 09.30

Seq Number: 3098381 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Ammonia (as N)	7664-41-7	**82.3**	100	34.5	I	ug/L	08.13.19 14.38	1

Analytical Method: Nitrogen, Nitrate-Nitrite by EPA 353.2 Prep Method: E353.2P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.12.19 11.00

Seq Number: 3098326 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Nitrate-Nitrite	7727-37-9	**41.6**	100	28.3	I	ug/L	08.12.19 20.03	1

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Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **MW-3** Matrix: Ground Water Date Received:08.07.19 11.10

Lab Sample Id: 633277-003 Date Collected: 08.06.19 09.20

Analytical Method: EPA 8141 Organophosphorus Pesticides by GC Prep Method: SW3510C

Tech: BNS % Moisture:

Analyst: CHD Date Prep: 08.12.19 10.41

Seq Number: 3098468 SUB: E871146

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Famphur	52-85-7	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 21.51	1
Sulfotepp	3689-24-5	0.0500 U	0.0500	0.0500	U	ug/L	08.13.19 21.51	1
Bolstar	35400-43-2	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 21.51	1
Azinphos-methyl	86-50-0	0.0153 U	0.0500	0.0153	UJ	ug/L	08.13.19 21.51	1
Chlorpyrifos	2921-88-2	0.0152 U	0.0500	0.0152	UJ	ug/L	08.13.19 21.51	1
Coumaphos	56-72-4	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 21.51	1
Demeton-O	298-03-3	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 21.51	1
Demeton-S	126-75-0	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 21.51	1
Diazinon	333-41-5	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 21.51	1
Dichlorovos	62-73-7	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 21.51	1
Dimethoate	60-51-5	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 21.51	1
Disulfoton	298-04-4	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 21.51	1
EPN	2104-64-5	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 21.51	1
Ethoprop	13194-48-4	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 21.51	1
Fenthion	55-38-9	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 21.51	1
Malathion	121-75-5	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 21.51	1
Merphos	150-50-5	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 21.51	1
Mevinphos	7786-34-7	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 21.51	1
Monocrotophos	2157-98-4	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 21.51	1
Naled	300-76-5	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 21.51	1
Parathion, Ethyl	56-38-2	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 21.51	1
Parathion, Methyl	298-00-0	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 21.51	1
Phorate	298-02-2	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 21.51	1
Ronnel	299-84-3	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 21.51	1
stirophos	22248-79-9	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 21.51	1
TEPP	21646-99-1	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 21.51	1
Trichloronate	327-98-0	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 21.51	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tributyl Phosphate	126-73-8	133	%	40-130	08.13.19 21.51	J

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Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **MW-3**
Matrix: Ground Water
Date Received:08.07.19 11.10
Lab Sample Id: 633277-003
Date Collected: 08.06.19 09.20

Analytical Method: Pesticides by SW-846 8081B
Prep Method: SW3510C
Tech: DRU
% Moisture:
Analyst: SHM
Date Prep: 08.12.19 15.12
Seq Number: 3098355
SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
4,4-DDD	72-54-8	0.0362 U	0.100	0.0362	U	ug/L	08.13.19 12.20	1
4,4-DDE	72-55-9	0.0371 U	0.100	0.0371	U	ug/L	08.13.19 12.20	1
4,4-DDT	50-29-3	0.0588 U	0.100	0.0588	U	ug/L	08.13.19 12.20	1
Aldrin	309-00-2	0.0364 U	0.100	0.0364	U	ug/L	08.13.19 12.20	1
Alpha-BHC	319-84-6	0.0402 U	0.100	0.0402	U	ug/L	08.13.19 12.20	1
Alpha-Chlordane	5103-71-9	0.0353 U	0.100	0.0353	U	ug/L	08.13.19 12.20	1
Beta-BHC	319-85-7	0.0332 U	0.100	0.0332	U	ug/L	08.13.19 12.20	1
Delta-BHC	319-86-8	0.0324 U	0.100	0.0324	U	ug/L	08.13.19 12.20	1
Dieldrin	60-57-1	0.0352 U	0.100	0.0352	U	ug/L	08.13.19 12.20	1
Endosulfan I	959-98-8	0.0357 U	0.100	0.0357	U	ug/L	08.13.19 12.20	1
Endosulfan II	33213-65-9	0.0480 U	0.100	0.0480	U	ug/L	08.13.19 12.20	1
Endosulfan Sulfate	1031-07-8	0.0341 U	0.100	0.0341	U	ug/L	08.13.19 12.20	1
Endrin	72-20-8	0.0498 U	0.100	0.0498	U	ug/L	08.13.19 12.20	1
Endrin Aldehyde	7421-93-4	0.0318 U	0.100	0.0318	U	ug/L	08.13.19 12.20	1
Endrin Ketone	53494-70-5	0.0356 U	0.100	0.0356	U	ug/L	08.13.19 12.20	1
Gamma-BHC (Lindane)	58-89-9	0.0407 U	0.100	0.0407	U	ug/L	08.13.19 12.20	1
Gamma-Chlordane	5103-74-2	0.0351 U	0.100	0.0351	U	ug/L	08.13.19 12.20	1
Heptachlor	76-44-8	0.0426 U	0.100	0.0426	U	ug/L	08.13.19 12.20	1
Heptachlor Epoxide	1024-57-3	0.0363 U	0.100	0.0363	U	ug/L	08.13.19 12.20	1
Methoxychlor	72-43-5	0.0543 U	0.100	0.0543	U	ug/L	08.13.19 12.20	1
Chlordane	12789-03-6	0.516 U	2.50	0.516	U	ug/L	08.13.19 12.20	1
Toxaphene	8001-35-2	0.385 U	2.50	0.385	U	ug/L	08.13.19 12.20	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	40	%	18-126	08.13.19 12.20	
Decachlorobiphenyl	2051-24-3	42	%	15-136	08.13.19 12.20	

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Universal Engineering Services Miami, Miami, FL

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Sample Id: **MW-4** Matrix: Ground Water Date Received:08.07.19 11.10

Lab Sample Id: 633277-004 Date Collected: 08.06.19 14.35

Analytical Method: Metals, Total by SW846 6010C Prep Method: SW3010A

Tech: AHI % Moisture:

Analyst: DEP Date Prep: 08.09.19 08.00

Seq Number: 3098181 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Arsenic	7440-38-2	**17.4**	20.0	5.50	I	ug/L	08.09.19 18.41	1
Chromium	7440-47-3	0.811 U	10.0	0.811	U	ug/L	08.09.19 18.41	1
Copper	7440-50-8	5.44 U	20.0	5.44	U	ug/L	08.09.19 18.41	1
Iron	7439-89-6	**1580**	200	28.3		ug/L	08.09.19 18.41	1
Lead	7439-92-1	2.37 U	15.0	2.37	U	ug/L	08.09.19 18.41	1
Manganese	7439-96-5	**6.05**	20.0	3.16	I	ug/L	08.09.19 18.41	1

Analytical Method: Nitrogen Ammonia by EPA 350.1 Prep Method: E350.1P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.13.19 09.30

Seq Number: 3098381 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Ammonia (as N)	7664-41-7	**163**	100	34.5		ug/L	08.13.19 14.39	1

Analytical Method: Nitrogen, Nitrate-Nitrite by EPA 353.2 Prep Method: E353.2P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.12.19 11.00

Seq Number: 3098326 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Nitrate-Nitrite	7727-37-9	**76.1**	100	28.3	I	ug/L	08.12.19 20.04	1

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Universal Engineering Services Miami, Miami, FL

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Sample Id: **MW-4** Matrix: Ground Water Date Received:08.07.19 11.10

Lab Sample Id: 633277-004 Date Collected: 08.06.19 14.35

Analytical Method: EPA 8141 Organophosphorus Pesticides by GC Prep Method: SW3510C

Tech: BNS % Moisture:

Analyst: CHD Date Prep: 08.12.19 10.41

Seq Number: 3098468 SUB: E871146

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Famphur	52-85-7	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 22.21	1
Sulfotepp	3689-24-5	0.0500 U	0.0500	0.0500	U	ug/L	08.13.19 22.21	1
Bolstar	35400-43-2	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 22.21	1
Azinphos-methyl	86-50-0	0.0153 U	0.0500	0.0153	UJ	ug/L	08.13.19 22.21	1
Chlorpyrifos	2921-88-2	0.0152 U	0.0500	0.0152	UJ	ug/L	08.13.19 22.21	1
Coumaphos	56-72-4	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 22.21	1
Demeton-O	298-03-3	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 22.21	1
Demeton-S	126-75-0	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 22.21	1
Diazinon	333-41-5	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 22.21	1
Dichlorovos	62-73-7	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 22.21	1
Dimethoate	60-51-5	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 22.21	1
Disulfoton	298-04-4	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 22.21	1
EPN	2104-64-5	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 22.21	1
Ethoprop	13194-48-4	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 22.21	1
Fenthion	55-38-9	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 22.21	1
Malathion	121-75-5	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 22.21	1
Merphos	150-50-5	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 22.21	1
Mevinphos	7786-34-7	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 22.21	1
Monocrotophos	2157-98-4	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 22.21	1
Naled	300-76-5	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 22.21	1
Parathion, Ethyl	56-38-2	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 22.21	1
Parathion, Methyl	298-00-0	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 22.21	1
Phorate	298-02-2	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 22.21	1
Ronnel	299-84-3	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 22.21	1
stirophos	22248-79-9	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 22.21	1
TEPP	21646-99-1	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 22.21	1
Trichloronate	327-98-0	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 22.21	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tributyl Phosphate	126-73-8	124	%	40-130	08.13.19 22.21	

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Sample Id: **MW-4**
Matrix: Ground Water
Date Received:08.07.19 11.10
Lab Sample Id: 633277-004
Date Collected: 08.06.19 14.35

Analytical Method: Pesticides by SW-846 8081B
Prep Method: SW3510C
Tech: DRU
% Moisture:
Analyst: SHM
Date Prep: 08.12.19 15.15
Seq Number: 3098355
SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
4,4-DDD	72-54-8	0.0365 U	0.101	0.0365	U	ug/L	08.13.19 12.33	1
4,4-DDE	72-55-9	0.0375 U	0.101	0.0375	U	ug/L	08.13.19 12.33	1
4,4-DDT	50-29-3	0.0594 U	0.101	0.0594	U	ug/L	08.13.19 12.33	1
Aldrin	309-00-2	0.0367 U	0.101	0.0367	U	ug/L	08.13.19 12.33	1
Alpha-BHC	319-84-6	0.0406 U	0.101	0.0406	U	ug/L	08.13.19 12.33	1
Alpha-Chlordane	5103-71-9	0.0356 U	0.101	0.0356	U	ug/L	08.13.19 12.33	1
Beta-BHC	319-85-7	0.0336 U	0.101	0.0336	U	ug/L	08.13.19 12.33	1
Delta-BHC	319-86-8	0.0328 U	0.101	0.0328	U	ug/L	08.13.19 12.33	1
Dieldrin	60-57-1	0.0356 U	0.101	0.0356	U	ug/L	08.13.19 12.33	1
Endosulfan I	959-98-8	0.0360 U	0.101	0.0360	U	ug/L	08.13.19 12.33	1
Endosulfan II	33213-65-9	0.0484 U	0.101	0.0484	U	ug/L	08.13.19 12.33	1
Endosulfan Sulfate	1031-07-8	0.0345 U	0.101	0.0345	U	ug/L	08.13.19 12.33	1
Endrin	72-20-8	0.0503 U	0.101	0.0503	U	ug/L	08.13.19 12.33	1
Endrin Aldehyde	7421-93-4	0.0321 U	0.101	0.0321	U	ug/L	08.13.19 12.33	1
Endrin Ketone	53494-70-5	0.0360 U	0.101	0.0360	U	ug/L	08.13.19 12.33	1
Gamma-BHC (Lindane)	58-89-9	0.0412 U	0.101	0.0412	U	ug/L	08.13.19 12.33	1
Gamma-Chlordane	5103-74-2	0.0354 U	0.101	0.0354	U	ug/L	08.13.19 12.33	1
Heptachlor	76-44-8	0.0431 U	0.101	0.0431	U	ug/L	08.13.19 12.33	1
Heptachlor Epoxide	1024-57-3	0.0366 U	0.101	0.0366	U	ug/L	08.13.19 12.33	1
Methoxychlor	72-43-5	0.0549 U	0.101	0.0549	U	ug/L	08.13.19 12.33	1
Chlordane	12789-03-6	0.522 U	2.53	0.522	U	ug/L	08.13.19 12.33	1
Toxaphene	8001-35-2	0.388 U	2.53	0.388	U	ug/L	08.13.19 12.33	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	28	%	18-126	08.13.19 12.33	
Decachlorobiphenyl	2051-24-3	41	%	15-136	08.13.19 12.33	

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Universal Engineering Services Miami, Miami, FL

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Sample Id: **MW-5** Matrix: Ground Water Date Received:08.07.19 11.10

Lab Sample Id: 633277-005 Date Collected: 08.06.19 09.51

Analytical Method: Metals, Total by SW846 6010C Prep Method: SW3010A

Tech: AHI % Moisture:

Analyst: DEP Date Prep: 08.09.19 08.00

Seq Number: 3098181 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Arsenic	7440-38-2	5.50 U	20.0	5.50	U	ug/L	08.09.19 18.45	1
Chromium	7440-47-3	0.811 U	10.0	0.811	U	ug/L	08.09.19 18.45	1
Copper	7440-50-8	5.44 U	20.0	5.44	U	ug/L	08.09.19 18.45	1
Iron	7439-89-6	**44.7**	200	28.3	I	ug/L	08.09.19 18.45	1
Lead	7439-92-1	2.37 U	15.0	2.37	U	ug/L	08.09.19 18.45	1
Manganese	7439-96-5	3.16 U	20.0	3.16	U	ug/L	08.09.19 18.45	1

Analytical Method: Nitrogen Ammonia by EPA 350.1 Prep Method: E350.1P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.13.19 12.30

Seq Number: 3098383 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Ammonia (as N)	7664-41-7	34.5 U	100	34.5	U	ug/L	08.13.19 15.39	1

Analytical Method: Nitrogen, Nitrate-Nitrite by EPA 353.2 Prep Method: E353.2P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.12.19 11.00

Seq Number: 3098326 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Nitrate-Nitrite	7727-37-9	**314**	100	28.3		ug/L	08.12.19 20.06	1

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Universal Engineering Services Miami, Miami, FL

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Sample Id: **MW-5** Matrix: Ground Water Date Received:08.07.19 11.10

Lab Sample Id: 633277-005 Date Collected: 08.06.19 09.51

Analytical Method: EPA 8141 Organophosphorus Pesticides by GC Prep Method: SW3510C

Tech: BNS % Moisture:

Analyst: CHD Date Prep: 08.12.19 10.41

Seq Number: 3098468 SUB: E871146

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Famphur	52-85-7	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 22.51	1
Sulfotepp	3689-24-5	0.0500 U	0.0500	0.0500	U	ug/L	08.13.19 22.51	1
Bolstar	35400-43-2	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 22.51	1
Azinphos-methyl	86-50-0	0.0153 U	0.0500	0.0153	UJ	ug/L	08.13.19 22.51	1
Chlorpyrifos	2921-88-2	0.0152 U	0.0500	0.0152	UJ	ug/L	08.13.19 22.51	1
Coumaphos	56-72-4	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 22.51	1
Demeton-O	298-03-3	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 22.51	1
Demeton-S	126-75-0	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 22.51	1
Diazinon	333-41-5	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 22.51	1
Dichlorovos	62-73-7	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 22.51	1
Dimethoate	60-51-5	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 22.51	1
Disulfoton	298-04-4	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 22.51	1
EPN	2104-64-5	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 22.51	1
Ethoprop	13194-48-4	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 22.51	1
Fenthion	55-38-9	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 22.51	1
Malathion	121-75-5	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 22.51	1
Merphos	150-50-5	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 22.51	1
Mevinphos	7786-34-7	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 22.51	1
Monocrotophos	2157-98-4	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 22.51	1
Naled	300-76-5	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 22.51	1
Parathion, Ethyl	56-38-2	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 22.51	1
Parathion, Methyl	298-00-0	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 22.51	1
Phorate	298-02-2	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 22.51	1
Ronnel	299-84-3	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 22.51	1
stirophos	22248-79-9	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 22.51	1
TEPP	21646-99-1	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 22.51	1
Trichloronate	327-98-0	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 22.51	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tributyl Phosphate	126-73-8	130	%	40-130	08.13.19 22.51	

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Sample Id: **MW-5**
Matrix: Ground Water
Date Received:08.07.19 11.10
Lab Sample Id: 633277-005
Date Collected: 08.06.19 09.51

Analytical Method: Pesticides by SW-846 8081B
Prep Method: SW3510C
Tech: DRU
% Moisture:
Analyst: SHM
Date Prep: 08.12.19 15.18
Seq Number: 3098355
SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
4,4-DDD	72-54-8	0.0362 U	0.100	0.0362	U	ug/L	08.13.19 12.47	1
4,4-DDE	72-55-9	0.0371 U	0.100	0.0371	U	ug/L	08.13.19 12.47	1
4,4-DDT	50-29-3	0.0588 U	0.100	0.0588	U	ug/L	08.13.19 12.47	1
Aldrin	309-00-2	0.0364 U	0.100	0.0364	U	ug/L	08.13.19 12.47	1
Alpha-BHC	319-84-6	0.0402 U	0.100	0.0402	U	ug/L	08.13.19 12.47	1
Alpha-Chlordane	5103-71-9	0.0353 U	0.100	0.0353	U	ug/L	08.13.19 12.47	1
Beta-BHC	319-85-7	0.0332 U	0.100	0.0332	U	ug/L	08.13.19 12.47	1
Delta-BHC	319-86-8	0.0324 U	0.100	0.0324	U	ug/L	08.13.19 12.47	1
Dieldrin	60-57-1	0.0352 U	0.100	0.0352	U	ug/L	08.13.19 12.47	1
Endosulfan I	959-98-8	0.0357 U	0.100	0.0357	U	ug/L	08.13.19 12.47	1
Endosulfan II	33213-65-9	0.0480 U	0.100	0.0480	U	ug/L	08.13.19 12.47	1
Endosulfan Sulfate	1031-07-8	0.0341 U	0.100	0.0341	U	ug/L	08.13.19 12.47	1
Endrin	72-20-8	0.0498 U	0.100	0.0498	U	ug/L	08.13.19 12.47	1
Endrin Aldehyde	7421-93-4	0.0318 U	0.100	0.0318	U	ug/L	08.13.19 12.47	1
Endrin Ketone	53494-70-5	0.0356 U	0.100	0.0356	U	ug/L	08.13.19 12.47	1
Gamma-BHC (Lindane)	58-89-9	0.0407 U	0.100	0.0407	U	ug/L	08.13.19 12.47	1
Gamma-Chlordane	5103-74-2	0.0351 U	0.100	0.0351	U	ug/L	08.13.19 12.47	1
Heptachlor	76-44-8	0.0426 U	0.100	0.0426	U	ug/L	08.13.19 12.47	1
Heptachlor Epoxide	1024-57-3	0.0363 U	0.100	0.0363	U	ug/L	08.13.19 12.47	1
Methoxychlor	72-43-5	0.0543 U	0.100	0.0543	U	ug/L	08.13.19 12.47	1
Chlordane	12789-03-6	0.516 U	2.50	0.516	U	ug/L	08.13.19 12.47	1
Toxaphene	8001-35-2	0.385 U	2.50	0.385	U	ug/L	08.13.19 12.47	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	48	%	18-126	08.13.19 12.47	
Decachlorobiphenyl	2051-24-3	53	%	15-136	08.13.19 12.47	

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Universal Engineering Services Miami, Miami, FL

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Sample Id: **MW-6** Matrix: Ground Water Date Received:08.07.19 11.10

Lab Sample Id: 633277-006 Date Collected: 08.06.19 17.02

Analytical Method: Metals, Total by SW846 6010C Prep Method: SW3010A

Tech: AHI % Moisture:

Analyst: DEP Date Prep: 08.09.19 08.00

Seq Number: 3098181 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Arsenic	7440-38-2	5.50 U	20.0	5.50	U	ug/L	08.09.19 18.49	1
Chromium	7440-47-3	0.811 U	10.0	0.811	U	ug/L	08.09.19 18.49	1
Copper	7440-50-8	5.44 U	20.0	5.44	U	ug/L	08.09.19 18.49	1
Iron	7439-89-6	28.3 U	200	28.3	U	ug/L	08.09.19 18.49	1
Lead	7439-92-1	2.37 U	15.0	2.37	U	ug/L	08.09.19 18.49	1
Manganese	7439-96-5	3.16 U	20.0	3.16	U	ug/L	08.09.19 18.49	1

Analytical Method: Nitrogen Ammonia by EPA 350.1 Prep Method: E350.1P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.13.19 12.30

Seq Number: 3098383 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Ammonia (as N)	7664-41-7	**57.7**	100	34.5	I	ug/L	08.13.19 15.41	1

Analytical Method: Nitrogen, Nitrate-Nitrite by EPA 353.2 Prep Method: E353.2P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.12.19 11.00

Seq Number: 3098326 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Nitrate-Nitrite	7727-37-9	**166**	100	28.3		ug/L	08.12.19 20.08	1

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Sample Id: **MW-6** Matrix: Ground Water Date Received:08.07.19 11.10

Lab Sample Id: 633277-006 Date Collected: 08.06.19 17.02

Analytical Method: EPA 8141 Organophosphorus Pesticides by GC Prep Method: SW3510C

Tech: BNS % Moisture:

Analyst: CHD Date Prep: 08.12.19 10.41

Seq Number: 3098468 SUB: E871146

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Famphur	52-85-7	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 23.22	1
Sulfotepp	3689-24-5	0.0500 U	0.0500	0.0500	U	ug/L	08.13.19 23.22	1
Bolstar	35400-43-2	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 23.22	1
Azinphos-methyl	86-50-0	0.0153 U	0.0500	0.0153	UJ	ug/L	08.13.19 23.22	1
Chlorpyrifos	2921-88-2	0.0152 U	0.0500	0.0152	UJ	ug/L	08.13.19 23.22	1
Coumaphos	56-72-4	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 23.22	1
Demeton-O	298-03-3	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 23.22	1
Demeton-S	126-75-0	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 23.22	1
Diazinon	333-41-5	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 23.22	1
Dichlorovos	62-73-7	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 23.22	1
Dimethoate	60-51-5	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 23.22	1
Disulfoton	298-04-4	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 23.22	1
EPN	2104-64-5	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 23.22	1
Ethoprop	13194-48-4	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 23.22	1
Fenthion	55-38-9	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 23.22	1
Malathion	121-75-5	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 23.22	1
Merphos	150-50-5	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 23.22	1
Mevinphos	7786-34-7	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 23.22	1
Monocrotophos	2157-98-4	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 23.22	1
Naled	300-76-5	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 23.22	1
Parathion, Ethyl	56-38-2	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 23.22	1
Parathion, Methyl	298-00-0	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 23.22	1
Phorate	298-02-2	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 23.22	1
Ronnel	299-84-3	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 23.22	1
stirophos	22248-79-9	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 23.22	1
TEPP	21646-99-1	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 23.22	1
Trichloronate	327-98-0	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 23.22	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tributyl Phosphate	126-73-8	149	%	40-130	08.13.19 23.22	J

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Universal Engineering Services Miami, Miami, FL

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Sample Id: **MW-6**
Lab Sample Id: 633277-006

Matrix: Ground Water
Date Collected: 08.06.19 17.02

Date Received:08.07.19 11.10

Analytical Method: Pesticides by SW-846 8081B
Tech: DRU
Analyst: SHM
Seq Number: 3098355

Date Prep: 08.12.19 15.21

Prep Method: SW3510C
% Moisture:

SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
4,4-DDD	72-54-8	0.0362 U	0.100	0.0362	U	ug/L	08.13.19 13.01	1
4,4-DDE	72-55-9	0.0371 U	0.100	0.0371	U	ug/L	08.13.19 13.01	1
4,4-DDT	50-29-3	0.0588 U	0.100	0.0588	U	ug/L	08.13.19 13.01	1
Aldrin	309-00-2	0.0364 U	0.100	0.0364	U	ug/L	08.13.19 13.01	1
Alpha-BHC	319-84-6	0.0402 U	0.100	0.0402	U	ug/L	08.13.19 13.01	1
Alpha-Chlordane	5103-71-9	0.0353 U	0.100	0.0353	U	ug/L	08.13.19 13.01	1
Beta-BHC	319-85-7	0.0332 U	0.100	0.0332	U	ug/L	08.13.19 13.01	1
Delta-BHC	319-86-8	0.0324 U	0.100	0.0324	U	ug/L	08.13.19 13.01	1
Dieldrin	60-57-1	0.0352 U	0.100	0.0352	U	ug/L	08.13.19 13.01	1
Endosulfan I	959-98-8	0.0357 U	0.100	0.0357	U	ug/L	08.13.19 13.01	1
Endosulfan II	33213-65-9	0.0480 U	0.100	0.0480	U	ug/L	08.13.19 13.01	1
Endosulfan Sulfate	1031-07-8	0.0341 U	0.100	0.0341	U	ug/L	08.13.19 13.01	1
Endrin	72-20-8	0.0498 U	0.100	0.0498	U	ug/L	08.13.19 13.01	1
Endrin Aldehyde	7421-93-4	0.0318 U	0.100	0.0318	U	ug/L	08.13.19 13.01	1
Endrin Ketone	53494-70-5	0.0356 U	0.100	0.0356	U	ug/L	08.13.19 13.01	1
Gamma-BHC (Lindane)	58-89-9	0.0407 U	0.100	0.0407	U	ug/L	08.13.19 13.01	1
Gamma-Chlordane	5103-74-2	0.0351 U	0.100	0.0351	U	ug/L	08.13.19 13.01	1
Heptachlor	76-44-8	0.0426 U	0.100	0.0426	U	ug/L	08.13.19 13.01	1
Heptachlor Epoxide	1024-57-3	0.0363 U	0.100	0.0363	U	ug/L	08.13.19 13.01	1
Methoxychlor	72-43-5	0.0543 U	0.100	0.0543	U	ug/L	08.13.19 13.01	1
Chlordane	12789-03-6	0.516 U	2.50	0.516	U	ug/L	08.13.19 13.01	1
Toxaphene	8001-35-2	0.385 U	2.50	0.385	U	ug/L	08.13.19 13.01	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	43	%	18-126	08.13.19 13.01	
Decachlorobiphenyl	2051-24-3	45	%	15-136	08.13.19 13.01	

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Universal Engineering Services Miami, Miami, FL

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Sample Id: **MW-7** Matrix: Ground Water Date Received:08.07.19 11.10

Lab Sample Id: 633277-007 Date Collected: 08.06.19 16.13

Analytical Method: Metals, Total by SW846 6010C Prep Method: SW3010A

Tech: AHI % Moisture:

Analyst: DEP Date Prep: 08.09.19 08.00

Seq Number: 3098181 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Arsenic	7440-38-2	5.50 U	20.0	5.50	U	ug/L	08.09.19 18.53	1
Chromium	7440-47-3	0.811 U	10.0	0.811	U	ug/L	08.09.19 18.53	1
Copper	7440-50-8	5.44 U	20.0	5.44	U	ug/L	08.09.19 18.53	1
Iron	7439-89-6	**212**	200	28.3		ug/L	08.09.19 18.53	1
Lead	7439-92-1	2.37 U	15.0	2.37	U	ug/L	08.09.19 18.53	1
Manganese	7439-96-5	3.16 U	20.0	3.16	U	ug/L	08.09.19 18.53	1

Analytical Method: Nitrogen Ammonia by EPA 350.1 Prep Method: E350.1P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.13.19 12.30

Seq Number: 3098383 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Ammonia (as N)	7664-41-7	**42.3**	100	34.5	I	ug/L	08.13.19 15.42	1

Analytical Method: Nitrogen, Nitrate-Nitrite by EPA 353.2 Prep Method: E353.2P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.12.19 11.00

Seq Number: 3098326 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Nitrate-Nitrite	7727-37-9	**217**	100	28.3		ug/L	08.12.19 20.09	1

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Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **MW-7** Matrix: Ground Water Date Received:08.07.19 11.10

Lab Sample Id: 633277-007 Date Collected: 08.06.19 16.13

Analytical Method: EPA 8141 Organophosphorus Pesticides by GC Prep Method: SW3510C

Tech: BNS % Moisture:

Analyst: CHD Date Prep: 08.12.19 10.41

Seq Number: 3098468 SUB: E871146

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Famphur	52-85-7	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 23.52	1
Sulfotepp	3689-24-5	0.0500 U	0.0500	0.0500	U	ug/L	08.13.19 23.52	1
Bolstar	35400-43-2	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 23.52	1
Azinphos-methyl	86-50-0	0.0153 U	0.0500	0.0153	UJ	ug/L	08.13.19 23.52	1
Chlorpyrifos	2921-88-2	0.0152 U	0.0500	0.0152	UJ	ug/L	08.13.19 23.52	1
Coumaphos	56-72-4	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 23.52	1
Demeton-O	298-03-3	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 23.52	1
Demeton-S	126-75-0	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 23.52	1
Diazinon	333-41-5	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 23.52	1
Dichlorovos	62-73-7	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 23.52	1
Dimethoate	60-51-5	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 23.52	1
Disulfoton	298-04-4	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 23.52	1
EPN	2104-64-5	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 23.52	1
Ethoprop	13194-48-4	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 23.52	1
Fenthion	55-38-9	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 23.52	1
Malathion	121-75-5	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 23.52	1
Merphos	150-50-5	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 23.52	1
Mevinphos	7786-34-7	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 23.52	1
Monocrotophos	2157-98-4	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 23.52	1
Naled	300-76-5	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 23.52	1
Parathion, Ethyl	56-38-2	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 23.52	1
Parathion, Methyl	298-00-0	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 23.52	1
Phorate	298-02-2	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 23.52	1
Ronnel	299-84-3	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 23.52	1
stirophos	22248-79-9	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 23.52	1
TEPP	21646-99-1	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 23.52	1
Trichloronate	327-98-0	0.0500 U	0.0500	0.0500	UJ	ug/L	08.13.19 23.52	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tributyl Phosphate	126-73-8	139	%	40-130	08.13.19 23.52	J

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Sample Id: **MW-7** Matrix: Ground Water Date Received:08.07.19 11.10

Lab Sample Id: 633277-007 Date Collected: 08.06.19 16.13

Analytical Method: Pesticides by SW-846 8081B Prep Method: SW3510C

Tech: DRU % Moisture:

Analyst: SHM Date Prep: 08.12.19 15.24

Seq Number: 3098355 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
4,4-DDD	72-54-8	0.0362 U	0.100	0.0362	U	ug/L	08.13.19 13.14	1
4,4-DDE	72-55-9	0.0371 U	0.100	0.0371	U	ug/L	08.13.19 13.14	1
4,4-DDT	50-29-3	0.0588 U	0.100	0.0588	U	ug/L	08.13.19 13.14	1
Aldrin	309-00-2	0.0364 U	0.100	0.0364	U	ug/L	08.13.19 13.14	1
Alpha-BHC	319-84-6	0.0402 U	0.100	0.0402	U	ug/L	08.13.19 13.14	1
Alpha-Chlordane	5103-71-9	0.0353 U	0.100	0.0353	U	ug/L	08.13.19 13.14	1
Beta-BHC	319-85-7	0.0332 U	0.100	0.0332	U	ug/L	08.13.19 13.14	1
Delta-BHC	319-86-8	0.0324 U	0.100	0.0324	U	ug/L	08.13.19 13.14	1
Dieldrin	60-57-1	0.0352 U	0.100	0.0352	U	ug/L	08.13.19 13.14	1
Endosulfan I	959-98-8	0.0357 U	0.100	0.0357	U	ug/L	08.13.19 13.14	1
Endosulfan II	33213-65-9	0.0480 U	0.100	0.0480	U	ug/L	08.13.19 13.14	1
Endosulfan Sulfate	1031-07-8	0.0341 U	0.100	0.0341	U	ug/L	08.13.19 13.14	1
Endrin	72-20-8	0.0498 U	0.100	0.0498	U	ug/L	08.13.19 13.14	1
Endrin Aldehyde	7421-93-4	0.0318 U	0.100	0.0318	U	ug/L	08.13.19 13.14	1
Endrin Ketone	53494-70-5	0.0356 U	0.100	0.0356	U	ug/L	08.13.19 13.14	1
Gamma-BHC (Lindane)	58-89-9	0.0407 U	0.100	0.0407	U	ug/L	08.13.19 13.14	1
Gamma-Chlordane	5103-74-2	0.0351 U	0.100	0.0351	U	ug/L	08.13.19 13.14	1
Heptachlor	76-44-8	0.0426 U	0.100	0.0426	U	ug/L	08.13.19 13.14	1
Heptachlor Epoxide	1024-57-3	0.0363 U	0.100	0.0363	U	ug/L	08.13.19 13.14	1
Methoxychlor	72-43-5	0.0543 U	0.100	0.0543	U	ug/L	08.13.19 13.14	1
Chlordane	12789-03-6	0.516 U	2.50	0.516	U	ug/L	08.13.19 13.14	1
Toxaphene	8001-35-2	0.385 U	2.50	0.385	U	ug/L	08.13.19 13.14	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	44	%	18-126	08.13.19 13.14	
Decachlorobiphenyl	2051-24-3	51	%	15-136	08.13.19 13.14	

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Universal Engineering Services Miami, Miami, FL

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Sample Id: **MW-8** Matrix: Ground Water Date Received:08.07.19 11.10

Lab Sample Id: 633277-008 Date Collected: 08.06.19 16.27

Analytical Method: Metals, Total by SW846 6010C Prep Method: SW3010A

Tech: AHI % Moisture:

Analyst: DEP Date Prep: 08.09.19 08.00

Seq Number: 3098181 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Arsenic	7440-38-2	5.50 U	20.0	5.50	U	ug/L	08.09.19 18.57	1
Chromium	7440-47-3	0.811 U	10.0	0.811	U	ug/L	08.09.19 18.57	1
Copper	7440-50-8	5.44 U	20.0	5.44	U	ug/L	08.09.19 18.57	1
Iron	7439-89-6	**526**	200	28.3		ug/L	08.09.19 18.57	1
Lead	7439-92-1	2.37 U	15.0	2.37	U	ug/L	08.09.19 18.57	1
Manganese	7439-96-5	**10.1**	20.0	3.16	I	ug/L	08.09.19 18.57	1

Analytical Method: Nitrogen Ammonia by EPA 350.1 Prep Method: E350.1P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.13.19 12.30

Seq Number: 3098383 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Ammonia (as N)	7664-41-7	**42.7**	100	34.5	I	ug/L	08.13.19 15.43	1

Analytical Method: Nitrogen, Nitrate-Nitrite by EPA 353.2 Prep Method: E353.2P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.12.19 11.00

Seq Number: 3098326 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Nitrate-Nitrite	7727-37-9	**79.4**	100	28.3	I	ug/L	08.12.19 20.11	1

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Universal Engineering Services Miami, Miami, FL

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Sample Id: **MW-8** Matrix: Ground Water Date Received:08.07.19 11.10

Lab Sample Id: 633277-008 Date Collected: 08.06.19 16.27

Analytical Method: EPA 8141 Organophosphorus Pesticides by GC Prep Method: SW3510C

Tech: BNS % Moisture:

Analyst: CHD Date Prep: 08.12.19 10.41

Seq Number: 3098468 SUB: E871146

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Famphur	52-85-7	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 00.23	1
Sulfotepp	3689-24-5	0.0500 U	0.0500	0.0500	U	ug/L	08.14.19 00.23	1
Bolstar	35400-43-2	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 00.23	1
Azinphos-methyl	86-50-0	0.0153 U	0.0500	0.0153	UJ	ug/L	08.14.19 00.23	1
Chlorpyrifos	2921-88-2	0.0152 U	0.0500	0.0152	UJ	ug/L	08.14.19 00.23	1
Coumaphos	56-72-4	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 00.23	1
Demeton-O	298-03-3	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 00.23	1
Demeton-S	126-75-0	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 00.23	1
Diazinon	333-41-5	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 00.23	1
Dichlorovos	62-73-7	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 00.23	1
Dimethoate	60-51-5	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 00.23	1
Disulfoton	298-04-4	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 00.23	1
EPN	2104-64-5	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 00.23	1
Ethoprop	13194-48-4	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 00.23	1
Fenthion	55-38-9	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 00.23	1
Malathion	121-75-5	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 00.23	1
Merphos	150-50-5	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 00.23	1
Mevinphos	7786-34-7	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 00.23	1
Monocrotophos	2157-98-4	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 00.23	1
Naled	300-76-5	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 00.23	1
Parathion, Ethyl	56-38-2	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 00.23	1
Parathion, Methyl	298-00-0	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 00.23	1
Phorate	298-02-2	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 00.23	1
Ronnel	299-84-3	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 00.23	1
stirophos	22248-79-9	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 00.23	1
TEPP	21646-99-1	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 00.23	1
Trichloronate	327-98-0	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 00.23	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tributyl Phosphate	126-73-8	163	%	40-130	08.14.19 00.23	J

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Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **MW-8**
Lab Sample Id: 633277-008

Matrix: Ground Water
Date Collected: 08.06.19 16.27

Date Received:08.07.19 11.10

Analytical Method: Pesticides by SW-846 8081B
Tech: DRU
Analyst: SHM
Seq Number: 3098355

Date Prep: 08.12.19 15.27

Prep Method: SW3510C
% Moisture:

SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
4,4-DDD	72-54-8	0.0362 U	0.100	0.0362	U	ug/L	08.13.19 13.28	1
4,4-DDE	72-55-9	0.0371 U	0.100	0.0371	U	ug/L	08.13.19 13.28	1
4,4-DDT	50-29-3	0.0588 U	0.100	0.0588	U	ug/L	08.13.19 13.28	1
Aldrin	309-00-2	0.0364 U	0.100	0.0364	U	ug/L	08.13.19 13.28	1
Alpha-BHC	319-84-6	0.0402 U	0.100	0.0402	U	ug/L	08.13.19 13.28	1
Alpha-Chlordane	5103-71-9	0.0353 U	0.100	0.0353	U	ug/L	08.13.19 13.28	1
Beta-BHC	319-85-7	0.0332 U	0.100	0.0332	U	ug/L	08.13.19 13.28	1
Delta-BHC	319-86-8	0.0324 U	0.100	0.0324	U	ug/L	08.13.19 13.28	1
Dieldrin	60-57-1	0.0352 U	0.100	0.0352	U	ug/L	08.13.19 13.28	1
Endosulfan I	959-98-8	0.0357 U	0.100	0.0357	U	ug/L	08.13.19 13.28	1
Endosulfan II	33213-65-9	0.0480 U	0.100	0.0480	U	ug/L	08.13.19 13.28	1
Endosulfan Sulfate	1031-07-8	0.0341 U	0.100	0.0341	U	ug/L	08.13.19 13.28	1
Endrin	72-20-8	0.0498 U	0.100	0.0498	U	ug/L	08.13.19 13.28	1
Endrin Aldehyde	7421-93-4	0.0318 U	0.100	0.0318	U	ug/L	08.13.19 13.28	1
Endrin Ketone	53494-70-5	0.0356 U	0.100	0.0356	U	ug/L	08.13.19 13.28	1
Gamma-BHC (Lindane)	58-89-9	0.0407 U	0.100	0.0407	U	ug/L	08.13.19 13.28	1
Gamma-Chlordane	5103-74-2	0.0351 U	0.100	0.0351	U	ug/L	08.13.19 13.28	1
Heptachlor	76-44-8	0.0426 U	0.100	0.0426	U	ug/L	08.13.19 13.28	1
Heptachlor Epoxide	1024-57-3	0.0363 U	0.100	0.0363	U	ug/L	08.13.19 13.28	1
Methoxychlor	72-43-5	0.0543 U	0.100	0.0543	U	ug/L	08.13.19 13.28	1
Chlordane	12789-03-6	0.516 U	2.50	0.516	U	ug/L	08.13.19 13.28	1
Toxaphene	8001-35-2	0.385 U	2.50	0.385	U	ug/L	08.13.19 13.28	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	42	%	18-126	08.13.19 13.28	
Decachlorobiphenyl	2051-24-3	44	%	15-136	08.13.19 13.28	

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Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **MW-9** Matrix: Ground Water Date Received:08.07.19 11.10

Lab Sample Id: 633277-009 Date Collected: 08.06.19 17.37

Analytical Method: Metals, Total by SW846 6010C Prep Method: SW3010A

Tech: AHI % Moisture:

Analyst: DEP Date Prep: 08.09.19 08.00

Seq Number: 3098181 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Arsenic	7440-38-2	**28.4**	20.0	5.50		ug/L	08.09.19 19.02	1
Chromium	7440-47-3	0.811 U	10.0	0.811	U	ug/L	08.09.19 19.02	1
Copper	7440-50-8	5.44 U	20.0	5.44	U	ug/L	08.09.19 19.02	1
Iron	7439-89-6	**539**	200	28.3		ug/L	08.09.19 19.02	1
Lead	7439-92-1	2.37 U	15.0	2.37	U	ug/L	08.09.19 19.02	1
Manganese	7439-96-5	**42.0**	20.0	3.16		ug/L	08.09.19 19.02	1

Analytical Method: Nitrogen Ammonia by EPA 350.1 Prep Method: E350.1P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.13.19 12.30

Seq Number: 3098383 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Ammonia (as N)	7664-41-7	**98.6**	100	34.5	I	ug/L	08.13.19 15.44	1

Analytical Method: Nitrogen, Nitrate-Nitrite by EPA 353.2 Prep Method: E353.2P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.12.19 11.00

Seq Number: 3098326 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Nitrate-Nitrite	7727-37-9	28.3 U	100	28.3	U	ug/L	08.12.19 20.13	1

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Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **MW-9** Matrix: Ground Water Date Received:08.07.19 11.10

Lab Sample Id: 633277-009 Date Collected: 08.06.19 17.37

Analytical Method: EPA 8141 Organophosphorus Pesticides by GC Prep Method: SW3510C

Tech: BNS % Moisture:

Analyst: CHD Date Prep: 08.12.19 10.41

Seq Number: 3098468 SUB: E871146

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Famphur	52-85-7	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 00.53	1
Sulfotepp	3689-24-5	0.0500 U	0.0500	0.0500	U	ug/L	08.14.19 00.53	1
Bolstar	35400-43-2	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 00.53	1
Azinphos-methyl	86-50-0	0.0153 U	0.0500	0.0153	UJ	ug/L	08.14.19 00.53	1
Chlorpyrifos	2921-88-2	0.0152 U	0.0500	0.0152	UJ	ug/L	08.14.19 00.53	1
Coumaphos	56-72-4	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 00.53	1
Demeton-O	298-03-3	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 00.53	1
Demeton-S	126-75-0	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 00.53	1
Diazinon	333-41-5	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 00.53	1
Dichlorovos	62-73-7	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 00.53	1
Dimethoate	60-51-5	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 00.53	1
Disulfoton	298-04-4	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 00.53	1
EPN	2104-64-5	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 00.53	1
Ethoprop	13194-48-4	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 00.53	1
Fenthion	55-38-9	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 00.53	1
Malathion	121-75-5	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 00.53	1
Merphos	150-50-5	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 00.53	1
Mevinphos	7786-34-7	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 00.53	1
Monocrotophos	2157-98-4	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 00.53	1
Naled	300-76-5	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 00.53	1
Parathion, Ethyl	56-38-2	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 00.53	1
Parathion, Methyl	298-00-0	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 00.53	1
Phorate	298-02-2	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 00.53	1
Ronnel	299-84-3	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 00.53	1
stirophos	22248-79-9	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 00.53	1
TEPP	21646-99-1	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 00.53	1
Trichloronate	327-98-0	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 00.53	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tributyl Phosphate	126-73-8	154	%	40-130	08.14.19 00.53	J

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Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **MW-9**
Lab Sample Id: 633277-009

Matrix: Ground Water
Date Collected: 08.06.19 17.37

Date Received:08.07.19 11.10

Analytical Method: Pesticides by SW-846 8081B
Tech: DRU
Analyst: SHM
Seq Number: 3098355

Date Prep: 08.12.19 15.30

Prep Method: SW3510C
% Moisture:

SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
4,4-DDD	72-54-8	0.0369 U	0.102	0.0369	U	ug/L	08.13.19 13.42	1
4,4-DDE	72-55-9	0.0379 U	0.102	0.0379	U	ug/L	08.13.19 13.42	1
4,4-DDT	50-29-3	0.0600 U	0.102	0.0600	U	ug/L	08.13.19 13.42	1
Aldrin	309-00-2	0.0371 U	0.102	0.0371	U	ug/L	08.13.19 13.42	1
Alpha-BHC	319-84-6	0.0411 U	0.102	0.0411	U	ug/L	08.13.19 13.42	1
Alpha-Chlordane	5103-71-9	0.0360 U	0.102	0.0360	U	ug/L	08.13.19 13.42	1
Beta-BHC	319-85-7	0.0339 U	0.102	0.0339	U	ug/L	08.13.19 13.42	1
Delta-BHC	319-86-8	0.0331 U	0.102	0.0331	U	ug/L	08.13.19 13.42	1
Dieldrin	60-57-1	0.0359 U	0.102	0.0359	U	ug/L	08.13.19 13.42	1
Endosulfan I	959-98-8	0.0364 U	0.102	0.0364	U	ug/L	08.13.19 13.42	1
Endosulfan II	33213-65-9	0.0489 U	0.102	0.0489	U	ug/L	08.13.19 13.42	1
Endosulfan Sulfate	1031-07-8	0.0348 U	0.102	0.0348	U	ug/L	08.13.19 13.42	1
Endrin	72-20-8	0.0508 U	0.102	0.0508	U	ug/L	08.13.19 13.42	1
Endrin Aldehyde	7421-93-4	0.0324 U	0.102	0.0324	U	ug/L	08.13.19 13.42	1
Endrin Ketone	53494-70-5	0.0363 U	0.102	0.0363	U	ug/L	08.13.19 13.42	1
Gamma-BHC (Lindane)	58-89-9	0.0416 U	0.102	0.0416	U	ug/L	08.13.19 13.42	1
Gamma-Chlordane	5103-74-2	0.0358 U	0.102	0.0358	U	ug/L	08.13.19 13.42	1
Heptachlor	76-44-8	0.0435 U	0.102	0.0435	U	ug/L	08.13.19 13.42	1
Heptachlor Epoxide	1024-57-3	0.0370 U	0.102	0.0370	U	ug/L	08.13.19 13.42	1
Methoxychlor	72-43-5	0.0554 U	0.102	0.0554	U	ug/L	08.13.19 13.42	1
Chlordane	12789-03-6	0.527 U	2.55	0.527	U	ug/L	08.13.19 13.42	1
Toxaphene	8001-35-2	0.392 U	2.55	0.392	U	ug/L	08.13.19 13.42	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	40	%	18-126	08.13.19 13.42	
Decachlorobiphenyl	2051-24-3	49	%	15-136	08.13.19 13.42	

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Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **MW-10** Matrix: Ground Water Date Received:08.07.19 11.10

Lab Sample Id: 633277-010 Date Collected: 08.06.19 17.58

Analytical Method: Metals, Total by SW846 6010C Prep Method: SW3010A

Tech: AHI % Moisture:

Analyst: DEP Date Prep: 08.09.19 08.00

Seq Number: 3098181 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Arsenic	7440-38-2	**27.2**	20.0	5.50		ug/L	08.09.19 19.06	1
Chromium	7440-47-3	0.811 U	10.0	0.811	U	ug/L	08.09.19 19.06	1
Copper	7440-50-8	5.44 U	20.0	5.44	U	ug/L	08.09.19 19.06	1
Iron	7439-89-6	**377**	200	28.3		ug/L	08.09.19 19.06	1
Lead	7439-92-1	2.37 U	15.0	2.37	U	ug/L	08.09.19 19.06	1
Manganese	7439-96-5	**14.6**	20.0	3.16	I	ug/L	08.09.19 19.06	1

Analytical Method: Nitrogen Ammonia by EPA 350.1 Prep Method: E350.1P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.13.19 12.30

Seq Number: 3098383 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Ammonia (as N)	7664-41-7	**176**	100	34.5		ug/L	08.13.19 15.47	1

Analytical Method: Nitrogen, Nitrate-Nitrite by EPA 353.2 Prep Method: E353.2P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.12.19 11.00

Seq Number: 3098326 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Nitrate-Nitrite	7727-37-9	28.3 U	100	28.3	U	ug/L	08.12.19 20.18	1

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Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **MW-10** Matrix: Ground Water Date Received:08.07.19 11.10

Lab Sample Id: 633277-010 Date Collected: 08.06.19 17.58

Analytical Method: EPA 8141 Organophosphorus Pesticides by GC Prep Method: SW3510C

Tech: BNS % Moisture:

Analyst: CHD Date Prep: 08.12.19 10.41

Seq Number: 3098468 SUB: E871146

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Famphur	52-85-7	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 01.24	1
Sulfotepp	3689-24-5	0.0500 U	0.0500	0.0500	U	ug/L	08.14.19 01.24	1
Bolstar	35400-43-2	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 01.24	1
Azinphos-methyl	86-50-0	0.0153 U	0.0500	0.0153	UJ	ug/L	08.14.19 01.24	1
Chlorpyrifos	2921-88-2	0.0152 U	0.0500	0.0152	UJ	ug/L	08.14.19 01.24	1
Coumaphos	56-72-4	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 01.24	1
Demeton-O	298-03-3	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 01.24	1
Demeton-S	126-75-0	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 01.24	1
Diazinon	333-41-5	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 01.24	1
Dichlorovos	62-73-7	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 01.24	1
Dimethoate	60-51-5	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 01.24	1
Disulfoton	298-04-4	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 01.24	1
EPN	2104-64-5	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 01.24	1
Ethoprop	13194-48-4	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 01.24	1
Fenthion	55-38-9	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 01.24	1
Malathion	121-75-5	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 01.24	1
Merphos	150-50-5	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 01.24	1
Mevinphos	7786-34-7	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 01.24	1
Monocrotophos	2157-98-4	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 01.24	1
Naled	300-76-5	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 01.24	1
Parathion, Ethyl	56-38-2	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 01.24	1
Parathion, Methyl	298-00-0	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 01.24	1
Phorate	298-02-2	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 01.24	1
Ronnel	299-84-3	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 01.24	1
stirophos	22248-79-9	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 01.24	1
TEPP	21646-99-1	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 01.24	1
Trichloronate	327-98-0	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 01.24	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tributyl Phosphate	126-73-8	151	%	40-130	08.14.19 01.24	J

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Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **MW-10** Matrix: Ground Water Date Received:08.07.19 11.10

Lab Sample Id: 633277-010 Date Collected: 08.06.19 17.58

Analytical Method: Pesticides by SW-846 8081B Prep Method: SW3510C

Tech: DRU % Moisture:

Analyst: SHM Date Prep: 08.12.19 15.33

Seq Number: 3098355 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
4,4-DDD	72-54-8	0.0369 U	0.102	0.0369	U	ug/L	08.13.19 13.55	1
4,4-DDE	72-55-9	0.0379 U	0.102	0.0379	U	ug/L	08.13.19 13.55	1
4,4-DDT	50-29-3	0.0600 U	0.102	0.0600	U	ug/L	08.13.19 13.55	1
Aldrin	309-00-2	0.0371 U	0.102	0.0371	U	ug/L	08.13.19 13.55	1
Alpha-BHC	319-84-6	0.0411 U	0.102	0.0411	U	ug/L	08.13.19 13.55	1
Alpha-Chlordane	5103-71-9	0.0360 U	0.102	0.0360	U	ug/L	08.13.19 13.55	1
Beta-BHC	319-85-7	0.0339 U	0.102	0.0339	U	ug/L	08.13.19 13.55	1
Delta-BHC	319-86-8	0.0331 U	0.102	0.0331	U	ug/L	08.13.19 13.55	1
Dieldrin	60-57-1	0.0359 U	0.102	0.0359	U	ug/L	08.13.19 13.55	1
Endosulfan I	959-98-8	0.0364 U	0.102	0.0364	U	ug/L	08.13.19 13.55	1
Endosulfan II	33213-65-9	0.0489 U	0.102	0.0489	U	ug/L	08.13.19 13.55	1
Endosulfan Sulfate	1031-07-8	0.0348 U	0.102	0.0348	U	ug/L	08.13.19 13.55	1
Endrin	72-20-8	0.0508 U	0.102	0.0508	U	ug/L	08.13.19 13.55	1
Endrin Aldehyde	7421-93-4	0.0324 U	0.102	0.0324	U	ug/L	08.13.19 13.55	1
Endrin Ketone	53494-70-5	0.0363 U	0.102	0.0363	U	ug/L	08.13.19 13.55	1
Gamma-BHC (Lindane)	58-89-9	0.0416 U	0.102	0.0416	U	ug/L	08.13.19 13.55	1
Gamma-Chlordane	5103-74-2	0.0358 U	0.102	0.0358	U	ug/L	08.13.19 13.55	1
Heptachlor	76-44-8	0.0435 U	0.102	0.0435	U	ug/L	08.13.19 13.55	1
Heptachlor Epoxide	1024-57-3	0.0370 U	0.102	0.0370	U	ug/L	08.13.19 13.55	1
Methoxychlor	72-43-5	0.0554 U	0.102	0.0554	U	ug/L	08.13.19 13.55	1
Chlordane	12789-03-6	0.527 U	2.55	0.527	U	ug/L	08.13.19 13.55	1
Toxaphene	8001-35-2	0.392 U	2.55	0.392	U	ug/L	08.13.19 13.55	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	36	%	18-126	08.13.19 13.55	
Decachlorobiphenyl	2051-24-3	44	%	15-136	08.13.19 13.55	

Certificate of Analytical Results 633277

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **MW-11** Matrix: Ground Water Date Received:08.07.19 11.10

Lab Sample Id: 633277-011 Date Collected: 08.06.19 15.06

Analytical Method: Metals, Total by SW846 6010C Prep Method: SW3010A

Tech: AHI % Moisture:

Analyst: DEP Date Prep: 08.09.19 08.00

Seq Number: 3098181 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Arsenic	7440-38-2	5.50 U	20.0	5.50	U	ug/L	08.09.19 19.10	1
Chromium	7440-47-3	0.811 U	10.0	0.811	U	ug/L	08.09.19 19.10	1
Copper	7440-50-8	5.44 U	20.0	5.44	U	ug/L	08.09.19 19.10	1
Iron	7439-89-6	**331**	200	28.3		ug/L	08.09.19 19.10	1
Lead	7439-92-1	2.37 U	15.0	2.37	U	ug/L	08.09.19 19.10	1
Manganese	7439-96-5	**7.90**	20.0	3.16	I	ug/L	08.09.19 19.10	1

Analytical Method: Nitrogen Ammonia by EPA 350.1 Prep Method: E350.1P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.13.19 12.30

Seq Number: 3098383 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Ammonia (as N)	7664-41-7	**490**	100	34.5		ug/L	08.13.19 15.48	1

Analytical Method: Nitrogen, Nitrate-Nitrite by EPA 353.2 Prep Method: E353.2P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.12.19 11.00

Seq Number: 3098326 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Nitrate-Nitrite	7727-37-9	**40.9**	100	28.3	I	ug/L	08.12.19 20.19	1

Certificate of Analytical Results 633277

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **MW-11** Matrix: Ground Water Date Received:08.07.19 11.10

Lab Sample Id: 633277-011 Date Collected: 08.06.19 15.06

Analytical Method: EPA 8141 Organophosphorus Pesticides by GC Prep Method: SW3510C

Tech: BNS % Moisture:

Analyst: CHD Date Prep: 08.12.19 10.41

Seq Number: 3098468 SUB: E871146

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Famphur	52-85-7	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 01.54	1
Sulfotepp	3689-24-5	0.0500 U	0.0500	0.0500	U	ug/L	08.14.19 01.54	1
Bolstar	35400-43-2	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 01.54	1
Azinphos-methyl	86-50-0	0.0153 U	0.0500	0.0153	UJ	ug/L	08.14.19 01.54	1
Chlorpyrifos	2921-88-2	0.0152 U	0.0500	0.0152	UJ	ug/L	08.14.19 01.54	1
Coumaphos	56-72-4	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 01.54	1
Demeton-O	298-03-3	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 01.54	1
Demeton-S	126-75-0	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 01.54	1
Diazinon	333-41-5	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 01.54	1
Dichlorovos	62-73-7	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 01.54	1
Dimethoate	60-51-5	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 01.54	1
Disulfoton	298-04-4	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 01.54	1
EPN	2104-64-5	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 01.54	1
Ethoprop	13194-48-4	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 01.54	1
Fenthion	55-38-9	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 01.54	1
Malathion	121-75-5	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 01.54	1
Merphos	150-50-5	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 01.54	1
Mevinphos	7786-34-7	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 01.54	1
Monocrotophos	2157-98-4	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 01.54	1
Naled	300-76-5	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 01.54	1
Parathion, Ethyl	56-38-2	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 01.54	1
Parathion, Methyl	298-00-0	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 01.54	1
Phorate	298-02-2	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 01.54	1
Ronnel	299-84-3	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 01.54	1
stirophos	22248-79-9	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 01.54	1
TEPP	21646-99-1	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 01.54	1
Trichloronate	327-98-0	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 01.54	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tributyl Phosphate	126-73-8	167	%	40-130	08.14.19 01.54	J

Certificate of Analytical Results 633277

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **MW-11**
Lab Sample Id: 633277-011

Matrix: Ground Water
Date Collected: 08.06.19 15.06

Date Received:08.07.19 11.10

Analytical Method: Pesticides by SW-846 8081B
Tech: DRU
Analyst: SHM
Seq Number: 3098355

Date Prep: 08.12.19 15.36

Prep Method: SW3510C
% Moisture:

SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
4,4-DDD	72-54-8	0.0362 U	0.100	0.0362	U	ug/L	08.13.19 14.51	1
4,4-DDE	72-55-9	0.0371 U	0.100	0.0371	U	ug/L	08.13.19 14.51	1
4,4-DDT	50-29-3	0.0588 U	0.100	0.0588	U	ug/L	08.13.19 14.51	1
Aldrin	309-00-2	0.0364 U	0.100	0.0364	U	ug/L	08.13.19 14.51	1
Alpha-BHC	319-84-6	0.0402 U	0.100	0.0402	U	ug/L	08.13.19 14.51	1
Alpha-Chlordane	5103-71-9	0.0353 U	0.100	0.0353	U	ug/L	08.13.19 14.51	1
Beta-BHC	319-85-7	0.0332 U	0.100	0.0332	U	ug/L	08.13.19 14.51	1
Delta-BHC	319-86-8	0.0324 U	0.100	0.0324	U	ug/L	08.13.19 14.51	1
Dieldrin	60-57-1	0.0352 U	0.100	0.0352	U	ug/L	08.13.19 14.51	1
Endosulfan I	959-98-8	0.0357 U	0.100	0.0357	U	ug/L	08.13.19 14.51	1
Endosulfan II	33213-65-9	0.0480 U	0.100	0.0480	U	ug/L	08.13.19 14.51	1
Endosulfan Sulfate	1031-07-8	0.0341 U	0.100	0.0341	U	ug/L	08.13.19 14.51	1
Endrin	72-20-8	0.0498 U	0.100	0.0498	U	ug/L	08.13.19 14.51	1
Endrin Aldehyde	7421-93-4	0.0318 U	0.100	0.0318	U	ug/L	08.13.19 14.51	1
Endrin Ketone	53494-70-5	0.0356 U	0.100	0.0356	U	ug/L	08.13.19 14.51	1
Gamma-BHC (Lindane)	58-89-9	0.0407 U	0.100	0.0407	U	ug/L	08.13.19 14.51	1
Gamma-Chlordane	5103-74-2	0.0351 U	0.100	0.0351	U	ug/L	08.13.19 14.51	1
Heptachlor	76-44-8	0.0426 U	0.100	0.0426	U	ug/L	08.13.19 14.51	1
Heptachlor Epoxide	1024-57-3	0.0363 U	0.100	0.0363	U	ug/L	08.13.19 14.51	1
Methoxychlor	72-43-5	0.0543 U	0.100	0.0543	U	ug/L	08.13.19 14.51	1
Chlordane	12789-03-6	0.516 U	2.50	0.516	U	ug/L	08.13.19 14.51	1
Toxaphene	8001-35-2	0.385 U	2.50	0.385	U	ug/L	08.13.19 14.51	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	25	%	18-126	08.13.19 14.51	
Decachlorobiphenyl	2051-24-3	44	%	15-136	08.13.19 14.51	

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Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **MW-12** Matrix: Ground Water Date Received:08.07.19 11.10

Lab Sample Id: 633277-012 Date Collected: 08.06.19 15.22

Analytical Method: Metals, Total by SW846 6010C Prep Method: SW3010A

Tech: AHI % Moisture:

Analyst: DEP Date Prep: 08.09.19 08.00

Seq Number: 3098181 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Arsenic	7440-38-2	5.50 U	20.0	5.50	U	ug/L	08.09.19 19.22	1
Chromium	7440-47-3	0.811 U	10.0	0.811	U	ug/L	08.09.19 19.22	1
Copper	7440-50-8	5.44 U	20.0	5.44	U	ug/L	08.09.19 19.22	1
Iron	7439-89-6	**226**	200	28.3		ug/L	08.09.19 19.22	1
Lead	7439-92-1	2.37 U	15.0	2.37	U	ug/L	08.09.19 19.22	1
Manganese	7439-96-5	3.16 U	20.0	3.16	U	ug/L	08.09.19 19.22	1

Analytical Method: Nitrogen Ammonia by EPA 350.1 Prep Method: E350.1P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.13.19 12.30

Seq Number: 3098383 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Ammonia (as N)	7664-41-7	**43.1**	100	34.5	I	ug/L	08.13.19 15.49	1

Analytical Method: Nitrogen, Nitrate-Nitrite by EPA 353.2 Prep Method: E353.2P

Tech: KCS % Moisture:

Analyst: KCS Date Prep: 08.12.19 11.00

Seq Number: 3098326 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Nitrogen, Nitrate-Nitrite	7727-37-9	**160**	100	28.3		ug/L	08.12.19 20.21	1

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Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **MW-12** Matrix: Ground Water Date Received:08.07.19 11.10

Lab Sample Id: 633277-012 Date Collected: 08.06.19 15.22

Analytical Method: EPA 8141 Organophosphorus Pesticides by GC Prep Method: SW3510C

Tech: BNS % Moisture:

Analyst: CHD Date Prep: 08.12.19 10.41

Seq Number: 3098468 SUB: E871146

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Famphur	52-85-7	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 02.25	1
Sulfotepp	3689-24-5	0.0500 U	0.0500	0.0500	U	ug/L	08.14.19 02.25	1
Bolstar	35400-43-2	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 02.25	1
Azinphos-methyl	86-50-0	0.0153 U	0.0500	0.0153	UJ	ug/L	08.14.19 02.25	1
Chlorpyrifos	2921-88-2	0.0152 U	0.0500	0.0152	UJ	ug/L	08.14.19 02.25	1
Coumaphos	56-72-4	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 02.25	1
Demeton-O	298-03-3	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 02.25	1
Demeton-S	126-75-0	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 02.25	1
Diazinon	333-41-5	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 02.25	1
Dichlorovos	62-73-7	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 02.25	1
Dimethoate	60-51-5	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 02.25	1
Disulfoton	298-04-4	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 02.25	1
EPN	2104-64-5	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 02.25	1
Ethoprop	13194-48-4	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 02.25	1
Fenthion	55-38-9	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 02.25	1
Malathion	121-75-5	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 02.25	1
Merphos	150-50-5	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 02.25	1
Mevinphos	7786-34-7	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 02.25	1
Monocrotophos	2157-98-4	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 02.25	1
Naled	300-76-5	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 02.25	1
Parathion, Ethyl	56-38-2	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 02.25	1
Parathion, Methyl	298-00-0	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 02.25	1
Phorate	298-02-2	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 02.25	1
Ronnel	299-84-3	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 02.25	1
stirophos	22248-79-9	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 02.25	1
TEPP	21646-99-1	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 02.25	1
Trichloronate	327-98-0	0.0500 U	0.0500	0.0500	UJ	ug/L	08.14.19 02.25	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tributyl Phosphate	126-73-8	162	%	40-130	08.14.19 02.25	J

Certificate of Analytical Results 633277

Universal Engineering Services Miami, Miami, FL

Proposed Publix

Sample Id: **MW-12**
Lab Sample Id: 633277-012

Matrix: Ground Water
Date Collected: 08.06.19 15.22

Date Received:08.07.19 11.10

Analytical Method: Pesticides by SW-846 8081B
Tech: DRU
Analyst: SHM
Seq Number: 3098355

Date Prep: 08.12.19 15.39

Prep Method: SW3510C
% Moisture:

SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
4,4-DDD	72-54-8	0.0362 U	0.100	0.0362	U	ug/L	08.13.19 15.05	1
4,4-DDE	72-55-9	0.0371 U	0.100	0.0371	U	ug/L	08.13.19 15.05	1
4,4-DDT	50-29-3	0.0588 U	0.100	0.0588	U	ug/L	08.13.19 15.05	1
Aldrin	309-00-2	0.0364 U	0.100	0.0364	U	ug/L	08.13.19 15.05	1
Alpha-BHC	319-84-6	0.0402 U	0.100	0.0402	U	ug/L	08.13.19 15.05	1
Alpha-Chlordane	5103-71-9	0.0353 U	0.100	0.0353	U	ug/L	08.13.19 15.05	1
Beta-BHC	319-85-7	0.0332 U	0.100	0.0332	U	ug/L	08.13.19 15.05	1
Delta-BHC	319-86-8	0.0324 U	0.100	0.0324	U	ug/L	08.13.19 15.05	1
Dieldrin	60-57-1	0.0352 U	0.100	0.0352	U	ug/L	08.13.19 15.05	1
Endosulfan I	959-98-8	0.0357 U	0.100	0.0357	U	ug/L	08.13.19 15.05	1
Endosulfan II	33213-65-9	0.0480 U	0.100	0.0480	U	ug/L	08.13.19 15.05	1
Endosulfan Sulfate	1031-07-8	0.0341 U	0.100	0.0341	U	ug/L	08.13.19 15.05	1
Endrin	72-20-8	0.0498 U	0.100	0.0498	U	ug/L	08.13.19 15.05	1
Endrin Aldehyde	7421-93-4	0.0318 U	0.100	0.0318	U	ug/L	08.13.19 15.05	1
Endrin Ketone	53494-70-5	0.0356 U	0.100	0.0356	U	ug/L	08.13.19 15.05	1
Gamma-BHC (Lindane)	58-89-9	0.0407 U	0.100	0.0407	U	ug/L	08.13.19 15.05	1
Gamma-Chlordane	5103-74-2	0.0351 U	0.100	0.0351	U	ug/L	08.13.19 15.05	1
Heptachlor	76-44-8	0.0426 U	0.100	0.0426	U	ug/L	08.13.19 15.05	1
Heptachlor Epoxide	1024-57-3	0.0363 U	0.100	0.0363	U	ug/L	08.13.19 15.05	1
Methoxychlor	72-43-5	0.0543 U	0.100	0.0543	U	ug/L	08.13.19 15.05	1
Chlordane	12789-03-6	0.516 U	2.50	0.516	U	ug/L	08.13.19 15.05	1
Toxaphene	8001-35-2	0.385 U	2.50	0.385	U	ug/L	08.13.19 15.05	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	24	%	18-126	08.13.19 15.05	
Decachlorobiphenyl	2051-24-3	48	%	15-136	08.13.19 15.05	

XENCO LABORATORIES

CHRONOLOGY OF HOLDING TIMES

Analytical Method : Nitrogen Ammonia by EPA 350.1
Client : Universal Engineering Services Miam
Work Order #: **633277**
Project ID:
Date Received: 08/07/19

Field Sample ID	Lab Sample ID	Date Collected	Date Extracted	Max Holding Time Extracted (Days)	Time Held Extracted (Days)	Date Analyzed	Max Holding Time Analyzed (Days)	Time Held Analyzed (Days)	Q
MW-1	633277-001	08/06/19				08/13/19	28	7	
MW-2	633277-002	08/06/19				08/13/19	28	7	
MW-3	633277-003	08/06/19				08/13/19	28	7	
MW-4	633277-004	08/06/19				08/13/19	28	7	
MW-5	633277-005	08/06/19				08/13/19	28	7	
MW-6	633277-006	08/06/19				08/13/19	28	7	
MW-7	633277-007	08/06/19				08/13/19	28	7	
MW-8	633277-008	08/06/19				08/13/19	28	7	
MW-9	633277-009	08/06/19				08/13/19	28	7	
MW-10	633277-010	08/06/19				08/13/19	28	7	
MW-11	633277-011	08/06/19				08/13/19	28	7	
MW-12	633277-012	08/06/19				08/13/19	28	7	

CHRONOLOGY OF HOLDING TIMES

Analytical Method : Nitrogen, Nitrate-Nitrite by EPA 353.2
Client : Universal Engineering Services Miam
Work Order #: **633277**
Project ID:
Date Received: 08/07/19

Field Sample ID	Lab Sample ID	Date Collected	Date Extracted	Max Holding Time Extracted (Days)	Time Held Extracted (Days)	Date Analyzed	Max Holding Time Analyzed (Days)	Time Held Analyzed (Days)	Q
MW-1	633277-001	08/06/19				08/12/19	28	6	
MW-2	633277-002	08/06/19				08/12/19	28	6	
MW-3	633277-003	08/06/19				08/12/19	28	6	
MW-4	633277-004	08/06/19				08/12/19	28	6	
MW-5	633277-005	08/06/19				08/12/19	28	6	
MW-6	633277-006	08/06/19				08/12/19	28	6	
MW-7	633277-007	08/06/19				08/12/19	28	6	
MW-8	633277-008	08/06/19				08/12/19	28	6	
MW-9	633277-009	08/06/19				08/12/19	28	6	
MW-10	633277-010	08/06/19				08/12/19	28	6	
MW-11	633277-011	08/06/19				08/12/19	28	6	
MW-12	633277-012	08/06/19				08/12/19	28	6	

CHRONOLOGY OF HOLDING TIMES

Analytical Method : Metals, Total by SW846 6010C
Work Order #: **633277**
Date Received: 08/07/19

Client : Universal Engineering Services Miam
Project ID:

Field Sample ID	Lab Sample ID	Date Collected	Date Extracted	Max Holding Time Extracted (Days)	Time Held Extracted (Days)	Date Analyzed	Max Holding Time Analyzed (Days)	Time Held Analyzed (Days)	Q
MW-1	633277-001	08/06/19	08/09/19	180	3	08/09/19	180	0	
MW-2	633277-002	08/06/19	08/09/19	180	3	08/09/19	180	0	
MW-3	633277-003	08/06/19	08/09/19	180	3	08/09/19	180	0	
MW-4	633277-004	08/06/19	08/09/19	180	3	08/09/19	180	0	
MW-5	633277-005	08/06/19	08/09/19	180	3	08/09/19	180	0	
MW-6	633277-006	08/06/19	08/09/19	180	3	08/09/19	180	0	
MW-7	633277-007	08/06/19	08/09/19	180	3	08/09/19	180	0	
MW-8	633277-008	08/06/19	08/09/19	180	3	08/09/19	180	0	
MW-9	633277-009	08/06/19	08/09/19	180	3	08/09/19	180	0	
MW-10	633277-010	08/06/19	08/09/19	180	3	08/09/19	180	0	
MW-11	633277-011	08/06/19	08/09/19	180	3	08/09/19	180	0	
MW-12	633277-012	08/06/19	08/09/19	180	3	08/09/19	180	0	

CHRONOLOGY OF HOLDING TIMES

Analytical Method : Pesticides by SW-846 8081B
Work Order #: **633277**
Date Received: 08/07/19

Client : Universal Engineering Services Miam
Project ID:

Field Sample ID	Lab Sample ID	Date Collected	Date Extracted	Max Holding Time Extracted (Days)	Time Held Extracted (Days)	Date Analyzed	Max Holding Time Analyzed (Days)	Time Held Analyzed (Days)	Q
MW-1	633277-001	08/06/19	08/12/19	7	6	08/13/19	40	1	
MW-2	633277-002	08/06/19	08/12/19	7	6	08/13/19	40	1	
MW-3	633277-003	08/06/19	08/12/19	7	6	08/13/19	40	1	
MW-4	633277-004	08/06/19	08/12/19	7	6	08/13/19	40	1	
MW-5	633277-005	08/06/19	08/12/19	7	6	08/13/19	40	1	
MW-6	633277-006	08/06/19	08/12/19	7	6	08/13/19	40	1	
MW-7	633277-007	08/06/19	08/12/19	7	6	08/13/19	40	1	
MW-8	633277-008	08/06/19	08/12/19	7	6	08/13/19	40	1	
MW-9	633277-009	08/06/19	08/12/19	7	6	08/13/19	40	1	
MW-10	633277-010	08/06/19	08/12/19	7	6	08/13/19	40	1	
MW-11	633277-011	08/06/19	08/12/19	7	6	08/13/19	40	1	
MW-12	633277-012	08/06/19	08/12/19	7	6	08/13/19	40	1	

XENCO LABORATORIES

CHRONOLOGY OF HOLDING TIMES

Analytical Method : EPA 8141 Organophosphorus Pesticides by GC
Client : Universal Engineering Services Miam
Work Order #: **633277**
Project ID:
Date Received: 08/07/19

Field Sample ID	Lab Sample ID	Date Collected	Date Extracted	Max Holding Time Extracted (Days)	Time Held Extracted (Days)	Date Analyzed	Max Holding Time Analyzed (Days)	Time Held Analyzed (Days)	Q
MW-1	633277-001	08/06/19	08/12/19	7	6	08/13/19	40	1	
MW-2	633277-002	08/06/19	08/12/19	7	6	08/13/19	40	1	
MW-3	633277-003	08/06/19	08/12/19	7	6	08/13/19	40	1	
MW-4	633277-004	08/06/19	08/12/19	7	6	08/13/19	40	1	
MW-5	633277-005	08/06/19	08/12/19	7	6	08/13/19	40	1	
MW-6	633277-006	08/06/19	08/12/19	7	6	08/13/19	40	1	
MW-7	633277-007	08/06/19	08/12/19	7	6	08/13/19	40	1	
MW-8	633277-008	08/06/19	08/12/19	7	6	08/14/19	40	2	
MW-9	633277-009	08/06/19	08/12/19	7	6	08/14/19	40	2	
MW-10	633277-010	08/06/19	08/12/19	7	6	08/14/19	40	2	
MW-11	633277-011	08/06/19	08/12/19	7	6	08/14/19	40	2	
MW-12	633277-012	08/06/19	08/12/19	7	6	08/14/19	40	2	

F = These samples were analyzed outside the recommended holding time.

Flagging Criteria

FLORIDA flagging criteria

Data were reviewed by the
Department Supervisor and QA Director

A Value reported is the mean (average) of two or more determinations.

B Results based upon colony counts outside the acceptable range.

J Estimated value; value not accurate. All results with a "J" qualifier require comment.

- J1: Surrogate Recoveries exceed established QA/QC Limits
- J2: No known QA/QC exists.
- J3: Reported value failed to meet established QA/QC limits or the sample matrix interfered with the ability to make an accurate determination
- J4: The data is questionable due to improper laboratory or field protocols

Q Sample held beyond the accepted holding time

T Value reported is less than the laboratory method detection limit. The value is reported for informational purposes, only and shall not be used in statistical analysis.

U Compound was analyzed for but not detected at the MDL Level.

V Analyte was detected in both the sample and the associated method blank.

Y Laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.

I The reported value is between the laboratory MDL and the laboratory PQL.

R Significant rain in the past 48 hours.

+ NELAC certification not offered for this compound.

***** (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

L Off-scale high. Actual value is known to be greater than value given. To be used when the concentration of the analyte is above the acceptable level for quantitation (exceeds the linear range or highest calibration standard) and the calibration curve is known to exhibit a negative deflection.

QC Summary 633277

Universal Engineering Services Miami

Proposed Publix

Analytical Method: **Metals, Total by SW846 6010C** Prep Method: SW3010A
Seq Number: 3098181 Matrix: Water Date Prep: 08.09.19
MB Sample Id: 7683900-1-BLK LCS Sample Id: 7683900-1-BKS LCSD Sample Id: 7683900-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Arsenic	<5.50	1000	955	96	954	95	75-125	0	20	ug/L	08.09.19 17:55	
Chromium	<0.811	1000	1000	100	997	100	75-125	0	20	ug/L	08.09.19 17:55	
Copper	<5.44	1000	966	97	966	97	75-125	0	20	ug/L	08.09.19 17:55	
Iron	<28.3	5000	4860	97	4850	97	75-125	0	20	ug/L	08.09.19 17:55	
Lead	<2.37	1000	1000	100	1000	100	75-125	0	20	ug/L	08.09.19 17:55	
Manganese	<3.16	1000	967	97	965	97	75-125	0	20	ug/L	08.09.19 17:55	

Analytical Method: **Metals, Total by SW846 6010C** Prep Method: SW3010A
Seq Number: 3098181 Matrix: Ground Water Date Prep: 08.09.19
Parent Sample Id: 633277-001 MS Sample Id: 633277-001 S MSD Sample Id: 633277-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Arsenic	<5.50	1000	973	97	963	96	75-125	1	20	ug/L	08.09.19 18:07	
Chromium	<0.811	1000	985	99	967	97	75-125	2	20	ug/L	08.09.19 18:07	
Copper	<5.44	1000	972	97	953	95	75-125	2	20	ug/L	08.09.19 18:07	
Iron	751	5000	5550	96	5460	94	75-125	2	20	ug/L	08.09.19 18:07	
Lead	<2.37	1000	997	100	980	98	75-125	2	20	ug/L	08.09.19 18:07	
Manganese	11.0	1000	968	96	952	94	75-125	2	20	ug/L	08.09.19 18:07	

Analytical Method: **Nitrogen Ammonia by EPA 350.1** Prep Method: E350.1P
Seq Number: 3098381 Matrix: Water Date Prep: 08.13.19
MB Sample Id: 7684140-1-BLK LCS Sample Id: 7684140-1-BKS LCSD Sample Id: 7684140-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Nitrogen, Ammonia (as N)	<34.5	1000	962	96	989	99	90-110	3	20	ug/L	08.13.19 14:12	

Analytical Method: **Nitrogen Ammonia by EPA 350.1** Prep Method: E350.1P
Seq Number: 3098383 Matrix: Water Date Prep: 08.13.19
MB Sample Id: 7684141-1-BLK LCS Sample Id: 7684141-1-BKS LCSD Sample Id: 7684141-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Nitrogen, Ammonia (as N)	<34.5	1000	998	100	977	98	90-110	2	20	ug/L	08.13.19 15:37	

MS/MSD Percent Recovery [D] = 100*(C-A) / B LCS = Laboratory Control Sample MS = Matrix Spike
Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result B = Spike Added
LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result D = MSD/LCSD % Rec
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

QC Summary 633277

Universal Engineering Services Miami

Proposed Publix

Analytical Method: Nitrogen Ammonia by EPA 350.1 — Prep Method: E350.1P
Seq Number: 3098381 — Matrix: Water — Date Prep: 08.13.19
Parent Sample Id: 633153-001 — MS Sample Id: 633153-001 S — MSD Sample Id: 633153-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Nitrogen, Ammonia (as N)	<34.5	1000	993	99	932	93	90-110	6	20	ug/L	08.13.19 14:15	

Analytical Method: Nitrogen Ammonia by EPA 350.1 — Prep Method: E350.1P
Seq Number: 3098381 — Matrix: Ground Water — Date Prep: 08.13.19
Parent Sample Id: 633689-001 — MS Sample Id: 633689-001 S — MSD Sample Id: 633689-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Nitrogen, Ammonia (as N)	71.4	1000	1070	100	1040	97	90-110	3	20	ug/L	08.13.19 14:28	

Analytical Method: Nitrogen Ammonia by EPA 350.1 — Prep Method: E350.1P
Seq Number: 3098383 — Matrix: Ground Water — Date Prep: 08.13.19
Parent Sample Id: 633277-005 — MS Sample Id: 633277-005 S — MSD Sample Id: 633277-005 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Nitrogen, Ammonia (as N)	<34.5	1000	987	99	1000	100	90-110	1	20	ug/L	08.13.19 15:40	

Analytical Method: Nitrogen, Nitrate-Nitrite by EPA 353.2 — Prep Method: E353.2P
Seq Number: 3098267 — Matrix: Water — Date Prep: 08.12.19
MB Sample Id: 7684006-1-BLK — LCS Sample Id: 7684006-1-BKS — LCSD Sample Id: 7684006-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Nitrogen, Nitrate-Nitrite	<28.3	1000	928	93	1080	108	90-110	15	20	ug/L	08.12.19 17:45	

Analytical Method: Nitrogen, Nitrate-Nitrite by EPA 353.2 — Prep Method: E353.2P
Seq Number: 3098326 — Matrix: Water — Date Prep: 08.12.19
MB Sample Id: 7684009-1-BLK — LCS Sample Id: 7684009-1-BKS — LCSD Sample Id: 7684009-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Nitrogen, Nitrate-Nitrite	<28.3	1000	1030	103	1090	109	90-110	6	20	ug/L	08.12.19 19:51	

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

QC Summary 633277

Universal Engineering Services Miami

Proposed Publix

Analytical Method: **Nitrogen, Nitrate-Nitrite by EPA 353.2** Prep Method: E353.2P
Seq Number: 3098267 Matrix: Waste Water Date Prep: 08.12.19
Parent Sample Id: 633106-001 MS Sample Id: 633106-001 S MSD Sample Id: 633106-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Nitrogen, Nitrate-Nitrite	67.9	1000	1040	97	1230	116	90-110	17	20	ug/L	08.12.19 17:48	J

Analytical Method: **Nitrogen, Nitrate-Nitrite by EPA 353.2** Prep Method: E353.2P
Seq Number: 3098267 Matrix: Ground Water Date Prep: 08.12.19
Parent Sample Id: 633277-001 MS Sample Id: 633277-001 S MSD Sample Id: 633277-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Nitrogen, Nitrate-Nitrite	85.8	1000	1300	121	1310	122	90-110	1	20	ug/L	08.12.19 18:28	J

Analytical Method: **Nitrogen, Nitrate-Nitrite by EPA 353.2** Prep Method: E353.2P
Seq Number: 3098326 Matrix: Ground Water Date Prep: 08.12.19
Parent Sample Id: 633277-002 MS Sample Id: 633277-002 S MSD Sample Id: 633277-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Nitrogen, Nitrate-Nitrite	29.7	1000	1160	113	1070	104	90-110	8	20	ug/L	08.12.19 19:59	J

Analytical Method: **Nitrogen, Nitrate-Nitrite by EPA 353.2** Prep Method: E353.2P
Seq Number: 3098326 Matrix: Ground Water Date Prep: 08.12.19
Parent Sample Id: 633277-012 MS Sample Id: 633277-012 S MSD Sample Id: 633277-012 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Nitrogen, Nitrate-Nitrite	160	1000	1160	100	1290	113	90-110	11	20	ug/L	08.12.19 20:23	J

MS/MSD Percent Recovery [D] = 100*(C-A) / B LCS = Laboratory Control Sample MS = Matrix Spike
Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result B = Spike Added
LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result D = MSD/LCSD % Rec
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

QC Summary 633277

Universal Engineering Services Miami

Proposed Publix

Analytical Method: **EPA 8141 Organophosphorus Pesticides by GC** Prep Method: SW3510C

Seq Number: 3098468 Matrix: Water Date Prep: 08.12.19

MB Sample Id: 7684067-1-BLK LCS Sample Id: 7684067-1-BKS LCSD Sample Id: 7684067-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Famphur	<0.0500	0.00100	1.46	146000	1.49	149000	40-130	2	25	ug/L	08.13.19 18:17	J
Bolstar	<0.0500	0.00100	1.35	135000	1.40	140000	40-130	4	25	ug/L	08.13.19 18:17	J
Azinphos-methyl	<0.0153	0.00100	1.44	144000	1.48	148000	40-130	3	25	ug/L	08.13.19 18:17	J
Chlorpyrifos	<0.0152	0.00100	1.28	128000	1.33	133000	40-130	4	25	ug/L	08.13.19 18:17	J
Coumaphos	<0.0500	0.00100	1.36	136000	1.33	133000	40-130	2	25	ug/L	08.13.19 18:17	J
Demeton-O	<0.0500	0.00100	1.12	112000	1.16	116000	40-130	4	25	ug/L	08.13.19 18:17	J
Demeton-S	<0.0500	0.00100	1.09	109000	1.14	114000	40-130	4	25	ug/L	08.13.19 18:17	J
Diazinon	<0.0500	0.00100	1.18	118000	1.21	121000	40-130	3	25	ug/L	08.13.19 18:17	J
Dichlorovos	<0.0500	0.00100	1.00	100000	0.960	96000	40-130	4	25	ug/L	08.13.19 18:17	J
Dimethoate	<0.0500	0.00100	1.02	102000	1.09	109000	40-130	7	25	ug/L	08.13.19 18:17	J
Disulfoton	<0.0500	0.00100	1.22	122000	1.23	123000	40-130	1	25	ug/L	08.13.19 18:17	J
EPN	<0.0500	0.00100	1.33	133000	1.33	133000	40-130	0	25	ug/L	08.13.19 18:17	J
Ethoprop	<0.0500	0.00100	1.25	125000	1.28	128000	40-130	2	25	ug/L	08.13.19 18:17	J
Fenthion	<0.0500	0.00100	1.28	128000	1.52	152000	40-130	17	25	ug/L	08.13.19 18:17	J
Malathion	<0.0500	0.00100	1.31	131000	1.37	137000	40-130	4	25	ug/L	08.13.19 18:17	J
Merphos	<0.0500	0.00100	1.30	130000	1.38	138000	40-130	6	25	ug/L	08.13.19 18:17	J
Mevinphos	<0.0500	0.00100	1.22	122000	1.26	126000	40-130	3	25	ug/L	08.13.19 18:17	J
Monocrotophos	<0.0500	0.00100	0	0	0	0	40-130	NC	25	ug/L	08.13.19 18:17	J
Naled	<0.0500	0.00200	1.28	64000	1.29	64500	40-130	1	25	ug/L	08.13.19 18:17	J
Parathion, Ethyl	<0.0500	0.00200	2.61	130500	2.69	134500	40-130	3	25	ug/L	08.13.19 18:17	J
Parathion, Methyl	<0.0500	0.00100	1.34	134000	1.43	143000	40-130	6	25	ug/L	08.13.19 18:17	J
Phorate	<0.0500	0.00100	1.31	131000	1.31	131000	40-130	0	25	ug/L	08.13.19 18:17	J
Ronnel	<0.0500	0.00200	1.31	65500	1.33	66500	40-130	2	25	ug/L	08.13.19 18:17	J
stirophos	<0.0500	0.00100	1.33	133000	1.38	138000	40-130	4	25	ug/L	08.13.19 18:17	J
TEPP	<0.0500	0.00100	1.59	159000	1.76	176000	40-130	10	25	ug/L	08.13.19 18:17	J
Trichloronate	<0.0500	0.00100	2.61	261000	2.69	269000	40-130	3	25	ug/L	08.13.19 18:17	J

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
Tributyl Phosphate	181	J	137	J	141	J	40-130	%	08.13.19 18:17

MS/MSD Percent Recovery [D] = 100*(C-A) / B LCS = Laboratory Control Sample MS = Matrix Spike

Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result B = Spike Added

LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result D = MSD/LCSD % Rec

Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

QC Summary 633277

Universal Engineering Services Miami

Proposed Publix

Analytical Method: **Pesticides by SW-846 8081B** Prep Method: SW3510C

Seq Number: 3098355 Matrix: Water Date Prep: 08.12.19

MB Sample Id: 7684069-1-BLK LCS Sample Id: 7684069-1-BKS LCSD Sample Id: 7684069-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
4,4-DDD	<0.0362	0.500	0.457	91	0.440	88	11-160	4	25	ug/L	08.13.19 11:25	
4,4-DDE	<0.0371	0.500	0.447	89	0.429	86	15-157	4	25	ug/L	08.13.19 11:25	
4,4-DDT	<0.0588	0.500	0.503	101	0.482	96	15-157	4	25	ug/L	08.13.19 11:25	
Aldrin	<0.0364	0.500	0.400	80	0.388	78	12-154	3	25	ug/L	08.13.19 11:25	
Alpha-BHC	<0.0402	0.500	0.411	82	0.404	81	10-149	2	25	ug/L	08.13.19 11:25	
Alpha-Chlordane	<0.0353	0.500	0.445	89	0.429	86	15-140	4	25	ug/L	08.13.19 11:25	
Beta-BHC	<0.0332	0.500	0.457	91	0.433	87	10-151	5	25	ug/L	08.13.19 11:25	
Delta-BHC	<0.0324	0.500	0.455	91	0.438	88	10-155	4	25	ug/L	08.13.19 11:25	
Dieldrin	<0.0352	0.500	0.459	92	0.443	89	14-156	4	25	ug/L	08.13.19 11:25	
Endosulfan I	<0.0357	0.500	0.435	87	0.417	83	12-155	4	25	ug/L	08.13.19 11:25	
Endosulfan II	<0.0480	0.500	0.461	92	0.444	89	16-158	4	25	ug/L	08.13.19 11:25	
Endosulfan Sulfate	<0.0341	0.500	0.458	92	0.438	88	17-159	4	25	ug/L	08.13.19 11:25	
Endrin	<0.0498	0.500	0.540	108	0.521	104	14-169	4	25	ug/L	08.13.19 11:25	
Endrin Aldehyde	<0.0318	0.500	0.394	79	0.375	75	22-148	5	25	ug/L	08.13.19 11:25	
Endrin Ketone	<0.0356	0.500	0.434	87	0.417	83	28-154	4	25	ug/L	08.13.19 11:25	
Gamma-BHC (Lindane)	<0.0407	0.500	0.435	87	0.420	84	8-157	4	25	ug/L	08.13.19 11:25	
Gamma-Chlordane	<0.0351	0.500	0.437	87	0.421	84	18-141	4	25	ug/L	08.13.19 11:25	
Heptachlor	<0.0426	0.500	0.422	84	0.410	82	10-157	3	25	ug/L	08.13.19 11:25	
Heptachlor Epoxide	<0.0363	0.500	0.445	89	0.434	87	15-155	3	25	ug/L	08.13.19 11:25	
Methoxychlor	<0.0543	0.500	0.554	111	0.528	106	25-161	5	25	ug/L	08.13.19 11:25	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
Tetrachloro-m-xylene	70		66		65		18-126	%	08.13.19 11:25
Decachlorobiphenyl	64		48		45		15-136	%	08.13.19 11:25

MS/MSD Percent Recovery [D] = 100*(C-A) / B LCS = Laboratory Control Sample MS = Matrix Spike

Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result B = Spike Added

LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result D = MSD/LCSD % Rec

Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

Exhibit "D" (Page 469 of 503)

Chain of Custody

Work Order No: 633277

XENCO LABORATORIES

Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334
Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296
Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)

www.xenco.com Page 1 of 2

Project Manager:	Leigh Marshallsay	Bill to: (if different)	
Company Name:	Universal Engineering Sciences	Company Name:	
Address:	9960 NW 116th Way, Suite 8	Address:	
City, State ZIP:	Medley, Fl 33178	City, State ZIP:	
Phone:	305 249 8434	Email:	Lmarshallsay@universalengineering.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Proposed Publix	Turn Around	
Project Number:		Routine ☐	
P.O. Number:		Rush:	
Sampler's Name:	Daniel Infante Paul Saneaux	Due Date:	

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Temperature (°C):	3.6	Thermometer ID	
Received Intact:	(Yes) No	IR 1	
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	
Sample Custody Seals:	Yes No (N/A)	Total Containers:	

ANALYSIS REQUEST

Work Order Notes

TAT starts the day recevied by the lab, if received by 4:30pm

	Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	Mn, As, Cr, Cu, Pb, Fe by 6010	Organochlorine Pesticides by 8081	Organophosphorous Pesticides by 8141	Ammonia by 350.1	Nitrates/Nitrites/NOX by 353.2									Sample Comments
1	MW-1	WT	8/6/2019	7:56		4	X	X	X	X	X									
2	MW-2	WT	8/6/2019	8:42		4	X	X	X	X	X									
3	MW-3	WT	8/6/2019	9:20		4	X	X	X	X	X									
4	MW-4	WT	8/6/2019	14:35		4	X	x	X	X	X									
5	MW-5	WT	8/6/2019	9:51		4	X	X	X	X	X									
6	MW-6	WT	8/6/2019	17:02		4	X	X	X	X	X									
7	MW-7	WT	8/6/2019	16:13		4	X	x	X	X	X									
8	MW-8	WT	8/6/2019	16:27		4	X	X	X	X	X									
9	MW-9	WT	8/6/2019	17:37		4	X	X	X	X	X									
10	MW-10	WT	8/6/2019	17:58		4	X	X	X	X	X									

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U **1631 / 245.1 / 7470 / 7471** : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of $75.00 will be applied to each project and a charge of $5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		8/7/19 11:30	2		
3			4		
5			6		

Revised Date 051418 Rev. 2018.1

Final 1.000

Exhibit "D" (Page 470 of 503)

Chain of Custody

Work Order No: 633277

XENCO LABORATORIES
Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334
Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296
Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000) www.xenco.com

Project Manager:	Leigh Marshallsay	Bill to: (if different)	
Company Name:	Universal Engineering Sciences	Company Name:	
Address:	9960 NW 116th Way, Suite 8	Address:	
City, State ZIP:	Medley, Fl 33178	City, State ZIP:	
Phone:	305 249 8434 Email:	Email:	Lmarshallsay@universalengineering.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Proposed Publix	Turn Around	
Project Number:		Routine ☐	
P.O. Number:		Rush:	
Sampler's Name:	Daniel Infante Paul Saneaux	Due Date:	

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Temperature (°C):	3.6	Thermometer ID	IR 1
Received Intact:	(Yes) No		
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	
Sample Custody Seals:	Yes No (N/A)	Total Containers:	

	Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	Mn, As, Cr, Cu, Pb, Fe by 6010	Organochlorine Pesticides by 8081	Organophosphorous Pesticides by 8141	Ammonia by 350.1	Nitrates/Nitrites/NOx by 353.2									Work Order Notes
11	MW-11	WT	8/6/2019	15:06		4	X	X	X	X	X									TAT starts the day recevied by the lab, if received by 4:30pm
12	MW-12	WT	8/6/2019	15:22		4	X	X	X	X	X									Sample Comments

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U **1631 / 245.1 / 7470 / 7471** : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of $75.00 will be applied to each project and a charge of $5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		8/7/19 11:10	2		
3			4		
5			6		

Final 1.000
Page 55 of 62

Inter-Office Shipment

IOS Number : 45753

Date/Time:	08.07.2019 11:39	Created by:	Jessica Magierowski	Please send report to:	Matthew Jones
Lab# From:	**South Florida**	Delivery Priority:		Address:	Xenco Laboratories
Lab# To:	**Houston**	Air Bill No.:	775927693528	E-Mail:	matthew.jones@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
633277-001	W	MW-1	08.06.2019 07:56	SW8081B	Pesticides by SW-846 8081B	08.13.2019	**08.13.2019 07:56**	MAJ	ALDRIN BHCALPHA BI	
633277-001	W	MW-1	08.06.2019 07:56	E350.1	Nitrogen Ammonia by EPA 350.1	08.13.2019	09.03.2019	MAJ	NH3N	
633277-001	W	MW-1	08.06.2019 07:56	SW6010C	Metals, Total by SW846 6010C	08.13.2019	02.02.2020	MAJ	AS CR CU FE MN PB	
633277-001	W	MW-1	08.06.2019 07:56	E353.2	Nitrogen, Nitrate-Nitrite by EPA 353.2	08.13.2019	09.03.2019	MAJ		
633277-002	W	MW-2	08.06.2019 08:42	E350.1	Nitrogen Ammonia by EPA 350.1	08.13.2019	09.03.2019	MAJ	NH3N	
633277-002	W	MW-2	08.06.2019 08:42	SW6010C	Metals, Total by SW846 6010C	08.13.2019	02.02.2020	MAJ	AS CR CU FE MN PB	
633277-002	W	MW-2	08.06.2019 08:42	SW8081B	Pesticides by SW-846 8081B	08.13.2019	**08.13.2019 08:42**	MAJ	ALDRIN BHCALPHA BI	
633277-002	W	MW-2	08.06.2019 08:42	E353.2	Nitrogen, Nitrate-Nitrite by EPA 353.2	08.13.2019	09.03.2019	MAJ		
633277-003	W	MW-3	08.06.2019 09:20	SW8081B	Pesticides by SW-846 8081B	08.13.2019	**08.13.2019 09:20**	MAJ	ALDRIN BHCALPHA BI	
633277-003	W	MW-3	08.06.2019 09:20	E353.2	Nitrogen, Nitrate-Nitrite by EPA 353.2	08.13.2019	09.03.2019	MAJ		
633277-003	W	MW-3	08.06.2019 09:20	SW6010C	Metals, Total by SW846 6010C	08.13.2019	02.02.2020	MAJ	AS CR CU FE MN PB	
633277-003	W	MW-3	08.06.2019 09:20	E350.1	Nitrogen Ammonia by EPA 350.1	08.13.2019	09.03.2019	MAJ	NH3N	
633277-004	W	MW-4	08.06.2019 14:35	SW8081B	Pesticides by SW-846 8081B	08.13.2019	**08.13.2019 14:35**	MAJ	ALDRIN BHCALPHA BI	
633277-004	W	MW-4	08.06.2019 14:35	SW6010C	Metals, Total by SW846 6010C	08.13.2019	02.02.2020	MAJ	AS CR CU FE MN PB	
633277-004	W	MW-4	08.06.2019 14:35	E353.2	Nitrogen, Nitrate-Nitrite by EPA 353.2	08.13.2019	09.03.2019	MAJ		
633277-004	W	MW-4	08.06.2019 14:35	E350.1	Nitrogen Ammonia by EPA 350.1	08.13.2019	09.03.2019	MAJ	NH3N	
633277-005	W	MW-5	08.06.2019 09:51	E350.1	Nitrogen Ammonia by EPA 350.1	08.13.2019	09.03.2019	MAJ	NH3N	
633277-005	W	MW-5	08.06.2019 09:51	E353.2	Nitrogen, Nitrate-Nitrite by EPA 353.2	08.13.2019	09.03.2019	MAJ		
633277-005	W	MW-5	08.06.2019 09:51	SW8081B	Pesticides by SW-846 8081B	08.13.2019	**08.13.2019 09:51**	MAJ	ALDRIN BHCALPHA BI	
633277-005	W	MW-5	08.06.2019 09:51	SW6010C	Metals, Total by SW846 6010C	08.13.2019	02.02.2020	MAJ	AS CR CU FE MN PB	
633277-006	W	MW-6	08.06.2019 17:02	E353.2	Nitrogen, Nitrate-Nitrite by EPA 353.2	08.13.2019	09.03.2019	MAJ		
633277-006	W	MW-6	08.06.2019 17:02	E350.1	Nitrogen Ammonia by EPA 350.1	08.13.2019	09.03.2019	MAJ	NH3N	
633277-006	W	MW-6	08.06.2019 17:02	SW8081B	Pesticides by SW-846 8081B	08.13.2019	**08.13.2019 17:02**	MAJ	ALDRIN BHCALPHA BI	
633277-006	W	MW-6	08.06.2019 17:02	SW6010C	Metals, Total by SW846 6010C	08.13.2019	02.02.2020	MAJ	AS CR CU FE MN PB	
633277-007	W	MW-7	08.06.2019 16:13	SW6010C	Metals, Total by SW846 6010C	08.13.2019	02.02.2020	MAJ	AS CR CU FE MN PB	

Inter-Office Shipment

IOS Number : 45753

Date/Time:	08.07.2019 11:39	Created by:	Jessica Magierowski	Please send report to:	Matthew Jones
Lab# From:	**South Florida**	Delivery Priority:		Address:	Xenco Laboratories
Lab# To:	**Houston**	Air Bill No.:	775927693528	E-Mail:	matthew.jones@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
633277-007	W	MW-7	08.06.2019 16:13	E350.1	Nitrogen Ammonia by EPA 350.1	08.13.2019	09.03.2019	MAJ	NH3N	
633277-007	W	MW-7	08.06.2019 16:13	SW8081B	Pesticides by SW-846 8081B	08.13.2019	**08.13.2019 16:13**	MAJ	ALDRIN BHCALPHA BI	
633277-007	W	MW-7	08.06.2019 16:13	E353.2	Nitrogen, Nitrate-Nitrite by EPA 353.2	08.13.2019	09.03.2019	MAJ		
633277-008	W	MW-8	08.06.2019 16:27	SW6010C	Metals, Total by SW846 6010C	08.13.2019	02.02.2020	MAJ	AS CR CU FE MN PB	
633277-008	W	MW-8	08.06.2019 16:27	SW8081B	Pesticides by SW-846 8081B	08.13.2019	**08.13.2019 16:27**	MAJ	ALDRIN BHCALPHA BI	
633277-008	W	MW-8	08.06.2019 16:27	E353.2	Nitrogen, Nitrate-Nitrite by EPA 353.2	08.13.2019	09.03.2019	MAJ		
633277-008	W	MW-8	08.06.2019 16:27	E350.1	Nitrogen Ammonia by EPA 350.1	08.13.2019	09.03.2019	MAJ	NH3N	
633277-009	W	MW-9	08.06.2019 17:37	SW6010C	Metals, Total by SW846 6010C	08.13.2019	02.02.2020	MAJ	AS CR CU FE MN PB	
633277-009	W	MW-9	08.06.2019 17:37	SW8081B	Pesticides by SW-846 8081B	08.13.2019	**08.13.2019 17:37**	MAJ	ALDRIN BHCALPHA BI	
633277-009	W	MW-9	08.06.2019 17:37	E350.1	Nitrogen Ammonia by EPA 350.1	08.13.2019	09.03.2019	MAJ	NH3N	
633277-009	W	MW-9	08.06.2019 17:37	E353.2	Nitrogen, Nitrate-Nitrite by EPA 353.2	08.13.2019	09.03.2019	MAJ		
633277-010	W	MW-10	08.06.2019 17:58	E350.1	Nitrogen Ammonia by EPA 350.1	08.13.2019	09.03.2019	MAJ	NH3N	
633277-010	W	MW-10	08.06.2019 17:58	SW6010C	Metals, Total by SW846 6010C	08.13.2019	02.02.2020	MAJ	AS CR CU FE MN PB	
633277-010	W	MW-10	08.06.2019 17:58	E353.2	Nitrogen, Nitrate-Nitrite by EPA 353.2	08.13.2019	09.03.2019	MAJ		
633277-010	W	MW-10	08.06.2019 17:58	SW8081B	Pesticides by SW-846 8081B	08.13.2019	**08.13.2019 17:58**	MAJ	ALDRIN BHCALPHA BI	
633277-011	W	MW-11	08.06.2019 15:06	E350.1	Nitrogen Ammonia by EPA 350.1	08.13.2019	09.03.2019	MAJ	NH3N	
633277-011	W	MW-11	08.06.2019 15:06	SW6010C	Metals, Total by SW846 6010C	08.13.2019	02.02.2020	MAJ	AS CR CU FE MN PB	
633277-011	W	MW-11	08.06.2019 15:06	E353.2	Nitrogen, Nitrate-Nitrite by EPA 353.2	08.13.2019	09.03.2019	MAJ		
633277-011	W	MW-11	08.06.2019 15:06	SW8081B	Pesticides by SW-846 8081B	08.13.2019	**08.13.2019 15:06**	MAJ	ALDRIN BHCALPHA BI	
633277-012	W	MW-12	08.06.2019 15:22	E350.1	Nitrogen Ammonia by EPA 350.1	08.13.2019	09.03.2019	MAJ	NH3N	
633277-012	W	MW-12	08.06.2019 15:22	SW6010C	Metals, Total by SW846 6010C	08.13.2019	02.02.2020	MAJ	AS CR CU FE MN PB	
633277-012	W	MW-12	08.06.2019 15:22	SW8081B	Pesticides by SW-846 8081B	08.13.2019	**08.13.2019 15:22**	MAJ	ALDRIN BHCALPHA BI	
633277-012	W	MW-12	08.06.2019 15:22	E353.2	Nitrogen, Nitrate-Nitrite by EPA 353.2	08.13.2019	09.03.2019	MAJ		

Inter Office Shipment or Sample Comments:

Received By:

Inter-Office Shipment

IOS Number : 45753

Date/Time:	08.07.2019 11:39	Created by:	Jessica Magierowski	Please send report to:	Matthew Jones
Lab# From:	**South Florida**	Delivery Priority:		Address:	Xenco Laboratories
Lab# To:	**Houston**	Air Bill No.:	775927693528	E-Mail:	matthew.jones@xenco.com

Inter Office Shipment or Sample Comments:

Relinquished By: Jessica Magierowski

Date Relinquished: 08.07.2019

Date Received: Monica Shakhshir 08.08.2019 09:55

Cooler Temperature: 2.8

Inter-Office Shipment

IOS Number **45754**

Date/Time: 08/07/19 11:39
Lab# From: **South Florida**
Lab# To: **Dallas**

Created by: Jessica Magierowski
Delivery Priority:
Air Bill No.:

Please send report to: Matthew Jones
Address: Xenco Laboratories
E-Mail: matthew.jones@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
633277-001	W	MW-1	08/06/19 07:56	SW8141B	EPA 8141 Organophosphorus Pesticides b	08/13/19	**08/13/19 07:56**	MAJ	ATRAZINE N/A N/A N/A	
633277-002	W	MW-2	08/06/19 08:42	SW8141B	EPA 8141 Organophosphorus Pesticides b	08/13/19	**08/13/19 08:42**	MAJ	ATRAZINE N/A N/A N/A	
633277-003	W	MW-3	08/06/19 09:20	SW8141B	EPA 8141 Organophosphorus Pesticides b	08/13/19	**08/13/19 09:20**	MAJ	ATRAZINE N/A N/A N/A	
633277-004	W	MW-4	08/06/19 14:35	SW8141B	EPA 8141 Organophosphorus Pesticides b	08/13/19	**08/13/19 14:35**	MAJ	ATRAZINE N/A N/A N/A	
633277-005	W	MW-5	08/06/19 09:51	SW8141B	EPA 8141 Organophosphorus Pesticides b	08/13/19	**08/13/19 09:51**	MAJ	ATRAZINE N/A N/A N/A	
633277-006	W	MW-6	08/06/19 17:02	SW8141B	EPA 8141 Organophosphorus Pesticides b	08/13/19	**08/13/19 17:02**	MAJ	ATRAZINE N/A N/A N/A	
633277-007	W	MW-7	08/06/19 16:13	SW8141B	EPA 8141 Organophosphorus Pesticides b	08/13/19	**08/13/19 16:13**	MAJ	ATRAZINE N/A N/A N/A	
633277-008	W	MW-8	08/06/19 16:27	SW8141B	EPA 8141 Organophosphorus Pesticides b	08/13/19	**08/13/19 16:27**	MAJ	ATRAZINE N/A N/A N/A	
633277-009	W	MW-9	08/06/19 17:37	SW8141B	EPA 8141 Organophosphorus Pesticides b	08/13/19	**08/13/19 17:37**	MAJ	ATRAZINE N/A N/A N/A	
633277-010	W	MW-10	08/06/19 17:58	SW8141B	EPA 8141 Organophosphorus Pesticides b	08/13/19	**08/13/19 17:58**	MAJ	ATRAZINE N/A N/A N/A	
633277-011	W	MW-11	08/06/19 15:06	SW8141B	EPA 8141 Organophosphorus Pesticides b	08/13/19	**08/13/19 15:06**	MAJ	ATRAZINE N/A N/A N/A	
633277-012	W	MW-12	08/06/19 15:22	SW8141B	EPA 8141 Organophosphorus Pesticides b	08/13/19	**08/13/19 15:22**	MAJ	ATRAZINE N/A N/A N/A	

Inter Office Shipment or Sample Comments:

Relinquished By: Jessica Magierowski

Date Relinquished: 08/07/2019

Received By: Whitney Capps

Date Received: 08/08/2019 00:00

Cooler Temperature: 4.9

XENCO Laboratories

Inter Office Report- Sample Receipt Checklist

Sent To: Houston

IOS #: 45753

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient
Temperature Measuring device used : HOU-069

Sent By: Jessica Magierowski **Date Sent:** 08.07.2019 11.39 AM

Received By: Monica Shakhshir **Date Received:** 08.08.2019 09.55 AM

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	2.8	
#2 *Shipping container in good condition?	**Yes**	
#3 *Samples received with appropriate temperature?	**Yes**	
#4 *Custody Seals intact on shipping container/ cooler?	**Yes**	
#5 *Custody Seals Signed and dated for Containers/coolers	**Yes**	
#6 *IOS present?	**Yes**	
#7 Any missing/extra samples?	**No**	
#8 IOS agrees with sample label(s)/matrix?	**Yes**	
#9 Sample matrix/ properties agree with IOS?	**Yes**	
#10 Samples in proper container/ bottle?	**Yes**	
#11 Samples properly preserved?	**Yes**	
#12 Sample container(s) intact?	**Yes**	
#13 Sufficient sample amount for indicated test(s)?	**Yes**	
#14 All samples received within hold time?	**Yes**	

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

NonConformance:

Corrective Action Taken:

Nonconformance Documentation

Contact: _____ **Contacted by :** _____ **Date:** _____

Checklist reviewed by: _____ Date: 08.08.2019

Monica Shakhshir

XENCO Laboratories

Inter Office Report- Sample Receipt Checklist

Sent To: Dallas

IOS #: 45754

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient
Temperature Measuring device used : IR2

Sent By: Jessica Magierowski **Date Sent:** 08/07/2019 11:39 AM

Received By: Whitney Capps **Date Received:** 08/08/2019 12:00 AM

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	4.9	
#2 *Shipping container in good condition?	**Yes**	
#3 *Samples received with appropriate temperature?	**Yes**	
#4 *Custody Seals intact on shipping container/ cooler?	**No**	
#5 *Custody Seals Signed and dated for Containers/coolers	**No**	
#6 *IOS present?	**Yes**	
#7 Any missing/extra samples?	**No**	
#8 IOS agrees with sample label(s)/matrix?	**Yes**	
#9 Sample matrix/ properties agree with IOS?	**Yes**	
#10 Samples in proper container/ bottle?	**Yes**	
#11 Samples properly preserved?	**Yes**	
#12 Sample container(s) intact?	**Yes**	
#13 Sufficient sample amount for indicated test(s)?	**Yes**	
#14 All samples received within hold time?	**Yes**	

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

NonConformance:

Corrective Action Taken:

Nonconformance Documentation

Contact: _____ **Contacted by :** _____ **Date:** _____

Checklist reviewed by: Whitney Capps Date: 08/08/2019

Whitney Capps

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Universal Engineering Services Miami

Date/ Time Received: 08/07/2019 11:10:00 AM

Work Order #: 633277

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : IR#1

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	3.6
#2 *Shipping container in good condition?	**Yes**
#3 *Samples received on ice?	**Yes**
#4 *Custody Seals intact on shipping container/ cooler?	**N/A**
#5 Custody Seals intact on sample bottles?	**N/A**
#6*Custody Seals Signed and dated?	**N/A**
#7 *Chain of Custody present?	**Yes**
#8 Any missing/extra samples?	**No**
#9 Chain of Custody signed when relinquished/ received?	**Yes**
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**
#11 Container label(s) legible and intact?	**Yes**
#12 Samples in proper container/ bottle?	**Yes**
#13 Samples properly preserved?	**Yes**
#14 Sample container(s) intact?	**Yes**
#15 Sufficient sample amount for indicated test(s)?	**Yes**
#16 All samples received within hold time?	**Yes**
#17 Subcontract of sample(s)?	**Yes**
#18 Water VOC samples have zero headspace?	**N/A**

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:

PH Device/Lot#:

Checklist completed by: Jessica Magierowski Date: 08/07/2019

Checklist reviewed by: Matthew Jones Date: 08/07/2019

Analytical Report 636301

for

Universal Engineering Services Miami

Project Manager: Leigh Marshallsay

Publix Store 1465

211019001030000

16-SEP-19

Xenco Laboratories
1395 NW 17th Avenue, Suite 112A
Delray Beach, FL 33445
Ph:(561) 689-6701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-29), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142), North Carolina (681)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-19-19), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-14)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-20)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-18)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)

16-SEP-19

Project Manager: **Leigh Marshallsay**
Universal Engineering Services Miami
9960 NW 116th Way Suite 8

Miami, FL 33178

Reference: XENCO Report No(s): **636301**
Publix Store 1465
Project Address:

Leigh Marshallsay:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 636301. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 636301 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Matthew Jones
Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America

Sample Cross Reference 636301

Universal Engineering Services Miami, Miami, FL

Publix Store 1465

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-1I	W	09-06-19 14:29		636301-001
MW-2I	W	09-06-19 12:07		636301-002
MW-3I	W	09-06-19 13:36		636301-003
MW-4I	W	09-06-19 12:56		636301-004
MW-9I	W	09-06-19 15:30		636301-005
MW-10I	W	09-06-19 16:26		636301-006
SB-1I	S	08-28-19 17:20	18 - 20	Not Analyzed
SB-2I	S	08-28-19 14:19	18 - 20	Not Analyzed
SB-3I	S	08-28-19 16:12	18 - 20	Not Analyzed
SB-4I	S	08-30-19 07:47	18 - 20	Not Analyzed
SB-9I	S	09-05-19 14:04	18 - 20	Not Analyzed
SB-10I	S	08-30-19 08:43	18 - 20	Not Analyzed

CASE NARRATIVE

Client Name: Universal Engineering Services Miami

Project Name: Publix Store 1465

Project ID: *211019001030000*
Work Order Number(s): *636301*

Report Date: *16-SEP-19*
Date Received: *09/09/2019*

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Hits Summary 636301

Universal Engineering Services Miami, Miami, FL

Publix Store 1465

Below is a summary of the analytes which were found to be present in the samples associated with this work order. This should only be used in conjunction with the included analytical results.

Sample ID: MW-1I **Sample ID: 636301-001** **Date/Time Sampled: 09/06/2019 14:29** **Matrix: Water**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Iron	SW6010C	7439-89-6	1	55.3	200	28.3	ug/L	I

Sample ID: MW-2I **Sample ID: 636301-002** **Date/Time Sampled: 09/06/2019 12:07** **Matrix: Water**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Iron	SW6010C	7439-89-6	1	55.4	200	28.3	ug/L	I

Sample ID: MW-3I **Sample ID: 636301-003** **Date/Time Sampled: 09/06/2019 13:36** **Matrix: Water**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Iron	SW6010C	7439-89-6	1	515	200	28.3	ug/L	

Sample ID: MW-4I **Sample ID: 636301-004** **Date/Time Sampled: 09/06/2019 12:56** **Matrix: Water**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Iron	SW6010C	7439-89-6	1	142	200	28.3	ug/L	I

Sample ID: MW-9I **Sample ID: 636301-005** **Date/Time Sampled: 09/06/2019 15:30** **Matrix: Water**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Iron	SW6010C	7439-89-6	1	66.8	200	28.3	ug/L	I

Sample ID: MW-10I **Sample ID: 636301-006** **Date/Time Sampled: 09/06/2019 16:26** **Matrix: Water**

Analyte Name	Method	CAS No.	Dil.	Result	RL/PQL	MDL	Units	Qual
Iron	SW6010C	7439-89-6	1	48.3	200	28.3	ug/L	I

Certificate of Analytical Results 636301

Universal Engineering Services Miami, Miami, FL

Publix Store 1465

Sample Id: **MW-1I**
Lab Sample Id: 636301-001
Matrix: Ground Water
Date Collected: 09.06.19 14.29
Date Received:09.09.19 10.40

Analytical Method: As, Fe by SW846 6010C
Tech: MLI
Analyst: DEP
Seq Number: 3100993
Date Prep: 09.10.19 09.30
Prep Method: SW3010A
% Moisture:
SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Arsenic	7440-38-2	5.50 U	20.0	5.50	U	ug/L	09.10.19 14.48	1
Iron	7439-89-6	**55.3**	200	28.3	I	ug/L	09.10.19 14.48	1

Certificate of Analytical Results 636301

Universal Engineering Services Miami, Miami, FL

Publix Store 1465

Sample Id: **MW-2I**
Matrix: Ground Water
Date Received:09.09.19 10.40
Lab Sample Id: 636301-002
Date Collected: 09.06.19 12.07

Analytical Method: As, Fe by SW846 6010C
Prep Method: SW3010A
Tech: MLI
% Moisture:
Analyst: DEP
Date Prep: 09.10.19 09.30
Seq Number: 3100993
SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Arsenic	7440-38-2	5.50 U	20.0	5.50	U	ug/L	09.10.19 15.17	1
Iron	7439-89-6	**55.4**	200	28.3	I	ug/L	09.10.19 15.17	1

Certificate of Analytical Results 636301

Universal Engineering Services Miami, Miami, FL

Publix Store 1465

Sample Id: **MW-3I** Matrix: Ground Water Date Received:09.09.19 10.40

Lab Sample Id: 636301-003 Date Collected: 09.06.19 13.36

Analytical Method: As, Fe by SW846 6010C Prep Method: SW3010A

Tech: MLI % Moisture:

Analyst: DEP Date Prep: 09.10.19 09.30

Seq Number: 3100993 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Arsenic	7440-38-2	5.50 U	20.0	5.50	U	ug/L	09.10.19 15.21	1
Iron	7439-89-6	**515**	200	28.3		ug/L	09.10.19 15.21	1

Certificate of Analytical Results 636301

Universal Engineering Services Miami, Miami, FL

Publix Store 1465

Sample Id: **MW-4I** Matrix: Ground Water Date Received:09.09.19 10.40

Lab Sample Id: 636301-004 Date Collected: 09.06.19 12.56

Analytical Method: As, Fe by SW846 6010C Prep Method: SW3010A

Tech: MLI % Moisture:

Analyst: DEP Date Prep: 09.10.19 09.30

Seq Number: 3100993 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Arsenic	7440-38-2	5.50 U	20.0	5.50	U	ug/L	09.10.19 15.25	1
Iron	7439-89-6	**142**	200	28.3	I	ug/L	09.10.19 15.25	1

Certificate of Analytical Results 636301

Universal Engineering Services Miami, Miami, FL

Publix Store 1465

Sample Id: **MW-9I** Matrix: Ground Water Date Received:09.09.19 10.40

Lab Sample Id: 636301-005 Date Collected: 09.06.19 15.30

Analytical Method: As, Fe by SW846 6010C Prep Method: SW3010A

Tech: MLI % Moisture:

Analyst: DEP Date Prep: 09.10.19 09.30

Seq Number: 3100993 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Arsenic	7440-38-2	5.50 U	20.0	5.50	U	ug/L	09.10.19 15.29	1
Iron	7439-89-6	**66.8**	200	28.3	I	ug/L	09.10.19 15.29	1

Certificate of Analytical Results 636301

Universal Engineering Services Miami, Miami, FL

Publix Store 1465

Sample Id: **MW-10I** Matrix: Ground Water Date Received:09.09.19 10.40

Lab Sample Id: 636301-006 Date Collected: 09.06.19 16.26

Analytical Method: As, Fe by SW846 6010C Prep Method: SW3010A

Tech: MLI % Moisture:

Analyst: DEP Date Prep: 09.10.19 09.30

Seq Number: 3100993 SUB: E871002

Parameter	Cas Number	Result	PQL	MDL	Flag	Units	Analysis Date	Dil
Arsenic	7440-38-2	5.50 U	20.0	5.50	U	ug/L	09.10.19 15.34	1
Iron	7439-89-6	**48.3**	200	28.3	I	ug/L	09.10.19 15.34	1

CHRONOLOGY OF HOLDING TIMES

Analytical Method : As, Fe by SW846 6010C
Work Order #: **636301**
Date Received: 09/09/19

Client : Universal Engineering Services Miam
Project ID: 211019001030000

Field Sample ID	Lab Sample ID	Date Collected	Date Extracted	Max Holding Time Extracted (Days)	Time Held Extracted (Days)	Date Analyzed	Max Holding Time Analyzed (Days)	Time Held Analyzed (Days)	Q
MW-1I	636301-001	09/06/19	09/10/19	180	4	09/10/19	180	0	
MW-2I	636301-002	09/06/19	09/10/19	180	4	09/10/19	180	0	
MW-3I	636301-003	09/06/19	09/10/19	180	4	09/10/19	180	0	
MW-4I	636301-004	09/06/19	09/10/19	180	4	09/10/19	180	0	
MW-9I	636301-005	09/06/19	09/10/19	180	4	09/10/19	180	0	
MW-10I	636301-006	09/06/19	09/10/19	180	4	09/10/19	180	0	

F = These samples were analyzed outside the recommended holding time.

Flagging Criteria

FLORIDA flagging criteria

Data were reviewed by the
Department Supervisor and QA Director

A Value reported is the mean (average) of two or more determinations.

B Results based upon colony counts outside the acceptable range.

J Estimated value; value not accurate. All results with a "J" qualifier require comment.

- J1: Surrogate Recoveries exceed established QA/QC Limits
- J2: No known QA/QC exists.
- J3: Reported value failed to meet established QA/QC limits or the sample matrix interfered with the ability to make an accurate determination
- J4: The data is questionable due to improper laboratory or field protocols

Q Sample held beyond the accepted holding time

T Value reported is less than the laboratory method detection limit. The value is reported for informational purposes, only and shall not be used in statistical analysis.

U Compound was analyzed for but not detected at the MDL Level.

V Analyte was detected in both the sample and the associated method blank.

Y Laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.

I The reported value is between the laboratory MDL and the laboratory PQL.

R Significant rain in the past 48 hours.

+ NELAC certification not offered for this compound.

***** (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

L Off-scale high. Actual value is known to be greater than value given. To be used when the concentration of the analyte is above the acceptable level for quantitation (exceeds the linear range or highest calibration standard) and the calibration curve is known to exhibit a negative deflection.

QC Summary 636301

Universal Engineering Services Miami

Publix Store 1465

Analytical Method: **As, Fe by SW846 6010C** Prep Method: SW3010A
Seq Number: 3100993 Matrix: Water Date Prep: 09.10.19
MB Sample Id: 7685868-1-BLK LCS Sample Id: 7685868-1-BKS LCSD Sample Id: 7685868-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Arsenic	<5.50	1000	969	97	965	97	75-125	0	20	ug/L	09.10.19 14:39	
Iron	<28.3	5000	4890	98	4850	97	75-125	1	20	ug/L	09.10.19 14:39	

Analytical Method: **As, Fe by SW846 6010C** Prep Method: SW3010A
Seq Number: 3100993 Matrix: Ground Water Date Prep: 09.10.19
Parent Sample Id: 636301-001 MS Sample Id: 636301-001 S MSD Sample Id: 636301-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Arsenic	<5.50	1000	1010	101	1010	101	75-125	0	20	ug/L	09.10.19 14:52	
Iron	55.3	5000	5070	100	5120	101	75-125	1	20	ug/L	09.10.19 14:52	

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

Due 9/19/19

Chain of Custody

XENCO LABORATORIES

Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334
Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296
Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)

Work Order No: 636301

www.xenco.com Page 1 of 2

Project Manager:	Leigh Marshallsay	Bill to: (if different)	
Company Name:	UES	Company Name:	
Address:	9960 NW 116th Way, Suite 8	Address:	
City, State ZIP:	Medley, FL 33178	City, State ZIP:	
Phone:	3052498434	Email:	lmarshallsay@universalengineering.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Publix Store 1465	Turn Around	
Project Number:	2110.1900103.0000	Routine ☐	
P.O. Number:		Rush: 24	
Sampler's Name:	Daniel Infante	Due Date: 9/10	

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No	
Temperature (°C):	5.0	Thermometer ID		
Received Intact:	(Yes) No	IR1		
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:		
Sample Custody Seals:	Yes No (N/A)	Total Containers:	18	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	Total arsenic and iron		Dissovled arsenic and iron											
MW-1I	GW	9/6/2019	14:29		2	X		X											
MW-2I	GW	9/6/2019	12:07		2	X		X											
MW-3I	GW	9/6/2019	13:36		2	X		X											
MW-4I	GW	9/6/2019	12:56		2	X		X											
MW-9I	GW	9/6/2019	15:30		2	X		X											
MW-10I	GW	9/6/2019	16:26		2	X		X											
SB-1I	SO	8/28/2019	17:20	18-20	1	X													
SB-2I	SO	8/28/2019	14:19	18-20	1	X													
SB-3I	SO	8/28/2019	16:12	18-20	1	X													
SB-4I	SO	8/30/2019	7:47	18-20	1	X													

Work Order Notes

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Comments

HOLD DISSOLVED ANALYSIS

HOLD soil samples

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U **1631 / 245.1 / 7470 / 7471** : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of $75.00 will be applied to each project and a charge of $5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		9/9/19 1040	2		
3			4		
5			6		

Revised Date 051418 Rev. 2018.1

Exhibit "D" (Page 492 of 503)

Chain of Custody

XENCO LABORATORIES

Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334
Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296
Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)

Work Order No: _____

www.xenco.com Page 2 of 2

Project Manager:	Leigh Marshallsay	Bill to: (if different)	
Company Name:	UES	Company Name:	
Address:	9960 NW 116th Way, Suite 8	Address:	
City, State ZIP:	Medley, FL 33178	City, State ZIP:	
Phone:	3052498434	Email:	lmarshallsay@universalengineering.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Publix Store 1465	Turn Around	
Project Number:	2110.1900103.0000	Routine ☐	
P.O. Number:		Rush: 24	
Sampler's Name:	Daniel Infante	Due Date: 9/10	

SAMPLE RECEIPT		Temp Blank:	Yes No	Wet Ice:	Yes No
Temperature (°C):		Thermometer ID			
Received Intact:	Yes No				
Cooler Custody Seals:	Yes No N/A	Correction Factor:			
Sample Custody Seals:	Yes No N/A	Total Containers:			

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	Total arsenic and iron
SB-9I	SO	9/5/2019	14:04	18-20	1	X
SB-10I	SO	8/30/2019	8:43	18-20	1	X

ANALYSIS REQUEST

Work Order Notes

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Comments

HOLD SOIL

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U **1631 / 245.1 / 7470 / 7471** : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of $75.00 will be applied to each project and a charge of $5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		9/9/19 1040	2		
3			4		
5			6		

Revised Date 051418 Rev. 2018.1

Exhibit "D" (Page 493 of 503)

Inter-Office Shipment

IOS Number : 47648

Date/Time:	09.09.2019	Created by:	Jessica Magierowski	Please send report to:	Matthew Jones
Lab# From:	**South Florida**	Delivery Priority:		Address:	Xenco Laboratories
Lab# To:	**Houston**	Air Bill No.:	776190929535	E-Mail:	matthew.jones@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
636301-001	W	MW-1I	09.06.2019 14:29	SW6010C	As, Fe by SW846 6010C	**09.10.2019**	03.04.2020	MAJ	AS FE	
636301-001	W	MW-1I	09.06.2019 14:29	SW6010C_Select_DISS	Dissolved As, Fe by SW-846 6010C	HOLD	03.04.2020	MAJ	AS FE	
636301-002	W	MW-2I	09.06.2019 12:07	SW6010C_Select_DISS	Dissolved As, Fe by SW-846 6010C	HOLD	03.04.2020	MAJ	AS FE	
636301-002	W	MW-2I	09.06.2019 12:07	SW6010C	As, Fe by SW846 6010C	**09.10.2019**	03.04.2020	MAJ	AS FE	
636301-003	W	MW-3I	09.06.2019 13:36	SW6010C_Select_DISS	Dissolved As, Fe by SW-846 6010C	HOLD	03.04.2020	MAJ	AS FE	
636301-003	W	MW-3I	09.06.2019 13:36	SW6010C	As, Fe by SW846 6010C	**09.10.2019**	03.04.2020	MAJ	AS FE	
636301-004	W	MW-4I	09.06.2019 12:56	SW6010C	As, Fe by SW846 6010C	**09.10.2019**	03.04.2020	MAJ	AS FE	
636301-004	W	MW-4I	09.06.2019 12:56	SW6010C_Select_DISS	Dissolved As, Fe by SW-846 6010C	HOLD	03.04.2020	MAJ	AS FE	
636301-005	W	MW-9I	09.06.2019 15:30	SW6010C	As, Fe by SW846 6010C	**09.10.2019**	03.04.2020	MAJ	AS FE	
636301-005	W	MW-9I	09.06.2019 15:30	SW6010C_Select_DISS	Dissolved As, Fe by SW-846 6010C	HOLD	03.04.2020	MAJ	AS FE	
636301-006	W	MW-10I	09.06.2019 16:26	SW6010C	As, Fe by SW846 6010C	**09.10.2019**	03.04.2020	MAJ	AS FE	
636301-006	W	MW-10I	09.06.2019 16:26	SW6010C_Select_DISS	Dissolved As, Fe by SW-846 6010C	HOLD	03.04.2020	MAJ	AS FE	
636301-007	S	SB-1I	08.28.2019 17:20	SW6010C	As, Fe by SW846 6010C	HOLD	02.24.2020	MAJ	AS FE	
636301-007	S	SB-1I	08.28.2019 17:20	SM2540G-MOIST	Percent Moisture by SM2540G	HOLD	02.24.2020	MAJ	MOIST	
636301-008	S	SB-2I	08.28.2019 14:19	SW6010C	As, Fe by SW846 6010C	HOLD	02.24.2020	MAJ	AS FE	
636301-008	S	SB-2I	08.28.2019 14:19	SM2540G-MOIST	Percent Moisture by SM2540G	HOLD	02.24.2020	MAJ	MOIST	
636301-009	S	SB-3I	08.28.2019 16:12	SW6010C	As, Fe by SW846 6010C	HOLD	02.24.2020	MAJ	AS FE	
636301-009	S	SB-3I	08.28.2019 16:12	SM2540G-MOIST	Percent Moisture by SM2540G	HOLD	02.24.2020	MAJ	MOIST	
636301-010	S	SB-4I	08.30.2019 07:47	SW6010C	As, Fe by SW846 6010C	HOLD	02.26.2020	MAJ	AS FE	
636301-010	S	SB-4I	08.30.2019 07:47	SM2540G-MOIST	Percent Moisture by SM2540G	HOLD	02.26.2020	MAJ	MOIST	
636301-011	S	SB-9I	09.05.2019 14:04	SW6010C	As, Fe by SW846 6010C	HOLD	03.03.2020	MAJ	AS FE	
636301-011	S	SB-9I	09.05.2019 14:04	SM2540G-MOIST	Percent Moisture by SM2540G	HOLD	03.03.2020	MAJ	MOIST	
636301-012	S	SB-10I	08.30.2019 08:43	SM2540G-MOIST	Percent Moisture by SM2540G	HOLD	02.26.2020	MAJ	MOIST	
636301-012	S	SB-10I	08.30.2019 08:43	SW6010C	As, Fe by SW846 6010C	HOLD	02.26.2020	MAJ	AS FE	

Inter-Office Shipment

IOS Number : 47648

Date/Time:	09.09.2019	Created by:	Jessica Magierowski	Please send report to:	Matthew Jones
Lab# From:	**South Florida**	Delivery Priority:		Address:	Xenco Laboratories
Lab# To:	**Houston**	Air Bill No.:	776190929535	E-Mail:	matthew.jones@xenco.com

Inter Office Shipment or Sample Comments:

Relinquished By: Jessica Magierowski

Date Relinquished: 09.09.2019

Received By: Ashly Kowalski

Date Received: 09.10.2019

Cooler Temperature: 3.1

XENCO Laboratories

Inter Office Report- Sample Receipt Checklist

Sent To: Houston

IOS #: 47648

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient
Temperature Measuring device used : HOU-068

Sent By: Jessica Magierowski **Date Sent:** 09.09.2019 11.49 AM

Received By: Ashly Kowalski **Date Received:** 09.10.2019 09.30 AM

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	3.1	
#2 *Shipping container in good condition?	**Yes**	
#3 *Samples received with appropriate temperature?	**Yes**	
#4 *Custody Seals intact on shipping container/ cooler?	**N/A**	
#5 *Custody Seals Signed and dated for Containers/coolers	**N/A**	
#6 *IOS present?	**Yes**	
#7 Any missing/extra samples?	**No**	
#8 IOS agrees with sample label(s)/matrix?	**Yes**	
#9 Sample matrix/ properties agree with IOS?	**Yes**	
#10 Samples in proper container/ bottle?	**Yes**	
#11 Samples properly preserved?	**Yes**	
#12 Sample container(s) intact?	**Yes**	
#13 Sufficient sample amount for indicated test(s)?	**Yes**	
#14 All samples received within hold time?	**Yes**	

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

NonConformance:

Corrective Action Taken:

Nonconformance Documentation

Contact: _____ **Contacted by :** _____ **Date:** _____

Checklist reviewed by: _____ Date: 09.10.2019

Ashly Kowalski

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Universal Engineering Services Miami

Date/ Time Received: 09/09/2019 10:40:00 AM

Work Order #: 636301

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : IR#1

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	5
#2 *Shipping container in good condition?	**Yes**
#3 *Samples received on ice?	**Yes**
#4 *Custody Seals intact on shipping container/ cooler?	**N/A**
#5 Custody Seals intact on sample bottles?	**N/A**
#6*Custody Seals Signed and dated?	**N/A**
#7 *Chain of Custody present?	**Yes**
#8 Any missing/extra samples?	**No**
#9 Chain of Custody signed when relinquished/ received?	**Yes**
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**
#11 Container label(s) legible and intact?	**Yes**
#12 Samples in proper container/ bottle?	**Yes**
#13 Samples properly preserved?	**Yes**
#14 Sample container(s) intact?	**Yes**
#15 Sufficient sample amount for indicated test(s)?	**Yes**
#16 All samples received within hold time?	**Yes**
#17 Subcontract of sample(s)?	**Yes**
#18 Water VOC samples have zero headspace?	**N/A**

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: PH Device/Lot#:

Checklist completed by: Jessica Magierowski Date: 09/09/2019

Checklist reviewed by: Matthew Jones Date: 09/10/2019

MIAMI-DADE COUNTY
Carlos A. Gimenez, Mayor

Department of Regulatory and Economic Resources
Environmental Resources Management
701 NW 1st Court, 4th Floor
Miami, Florida 33136-3912
T 305-372-6700 F 305-372-6982
miamidade.gov

July 3, 2019

KIC Real Estate Services, LLC
C/O George Kidman
543 Isleworth Close
Tarpon Springs, FL 34688

CERTIFIED MAIL # 7017 3380 0000 9872 3945
RETURN RECEIPT REQUESTED

Re: Phase I Environmental Site Assessment (ESA) dated July 29, 2011 (received June 7, 2019) prepared by Universal Engineering Sciences for the vacant property located at, near, or in the vicinity of Proposed Publix Store # 1465 (UT-7288, Folio # 36-6009-006-0012, south of intersection at Old Cutler Road and SW 208th Street), Cutler Bay, Miami-Dade County, Florida.

Dear Mr. Kidman:

The Department of Regulatory and Economic Resources-Division of Environmental Resources Management (DERM) has reviewed the above-referenced document and based on the former use for the site (i.e., agricultural), the following comments shall apply:

1. For the soil, a representative number of soil samples shall be collected at the property. Sampling shall be conducted based on a grid system accounting for the overall area encompassed by the project (i.e., approximately one soil boring every ½ acre of the 12.06 acres). One composite soil sample from the (0-6") and (6"-24") interval shall be collected from each ½ acre unit (sampling unit). Each composite sample interval shall be comprised of five (5) subset samples taken from randomly distributed locations throughout the sampling unit. All samples shall be analyzed for:

    i. Manganese, Arsenic, Chromium, Copper, Lead and Iron
    ii. Pesticides (Organochlorine and organophosphorus, EPA methods 8081 & 8141 or equivalent)
    iii. VOAs, PAHs, and TRPH
    iv. Ammonia and Nitrates (via SPLP method)

    Note that the results shall be utilized to assist in the development of an appropriate soil management plan (SMP), including a dust control plan and health and safety plan (HASP), as deemed applicable (i.e., in case of contaminants exceeding soil cleanup target level). Therefore, based on the results and the depth of proposed excavation for site development, additional sampling locations may be warranted.

2. For the groundwater, pursuant to Chapter 24 Miami-Dade County Code, storm water infiltration is not allowed in areas with groundwater contamination. Therefore, compliance with the groundwater cleanup target levels shall be demonstrated prior to approval of any proposed areas of drainage. Based on the above, properly constructed shallow monitoring wells shall be installed in representative areas of proposed drainage (i.e., approximately every 100 feet). The wells shall be sampled for:

    i. Ammonia, Nitrates/Nitrites/NOX, Manganese
    ii. Arsenic, Chromium, Copper, Lead, Iron
    iii. Pesticides (organochlorine and organophosphorus)
    iv. VOAs, PAHs, and TRPH

    Based on results, additional sampling may be required. Further, please be advised that if groundwater sampling results reveal exceedances in the area of proposed drainage, then you may consider conducting sampling of the intermediate depth, as applicable.

3. Groundwater and soil tables shall be submitted for all contaminants of concern (COCs).

4. Soil and groundwater contour maps (with a bar scale) per COC and per depth (as applicable) shall be provided.

5. Please include copies of historical aerials referenced in the Phase I ESA report with the next deliverable.

Pursuant to the above, two (2) copies (one hard copy and one compact disk/flash drive) of a soil and groundwater sampling report shall be submitted for review and approval prior to submission of any construction plans. Along with the report, a review fee of $645 (review fee of $600 + 7.5% RER surcharge of $45) shall be included.

DERM shall be notified in writing a minimum of three (3) working days prior to the implementation of any sampling or field activities. Email notifications shall be directed to DERMPCD@miamidade.gov. Please include the DERM Permit No. UT-7288 on all correspondence.

Any person aggrieved by any action or decision of the DERM Director may appeal said action or decision to the Environmental Quality Control Board (EQCB) by filing a written notice of appeal along with submittal of the applicable fee, to the Code Coordination and Public Hearings Section of DERM within fifteen (15) days of the date of the action or decision by DERM.

Note that any portion of the site to be sold, transferred or dedicated (including for public right-of-way) shall be identified, and the receiving entity must be made aware of the contamination and accept any conveyance. If soil contamination, groundwater contamination, solid waste and/or methane is to be addressed via a No Further Action with Conditions (see Institutional Control Guidance at https://www.miamidade.gov/environment/library/instructions/risk-based-corrective-action.pdf and https://floridadep.gov/waste/waste/content/institutional-controls-procedures-guidance), each individual property owner will have to execute a restrictive covenant and each receiving entity must accept all applicable restrictions and responsibilities that are required following transfer of ownership. Please note that nothing stated herein may be interpreted to limit or restrict an engineer's or other professional's responsibility to prepare plans accurately and completely for proposed rights-of-way as well as any other projects or plans. For proposed dedications, any soil, groundwater or surface water contaminants or solid waste and/or methane must be disclosed to the receiving County or Municipality applicable department at the earliest stage possible; the presence of any such contamination and/or solid waste and/or methane impacts or a delay in disclosure of such contamination or impacts could result in the County declining to accept the proposed dedication, the need for the developer to reconfigure or change previously approved site plans, or other changes to the proposed development.

If you have any questions concerning the above, please contact Satyen Thakar, P.E. of the Pollution Remediation Section at (305) 372-6700.

Sincerely,

Wilbur Mayorga, P.E., Chief
Environmental Monitoring & Restoration Division

WM/smt

ec: Eve (permits@305permits.com) - 305Permits Inc
George Kidman (george@gkkcorp.com) - KIC Real Estate Services, LLC

Leigh Marshallsay

From: Thakar, Satyen (RER) <Satyen.Thakar@miamidade.gov>
Sent: Wednesday, July 10, 2019 12:30 PM
To: Leigh Marshallsay
Cc: Paul Cheney; Welch, Tammy (RER)
Subject: RE: Proposed Publix Store No. 1465
Attachments: We sent you safe versions of your files; Proposed MWs for P&D.pdf

Mimecast Attachment Protection has deemed this file to be safe, but always exercise caution when opening files.

Leigh,

For all future correspondence, please include DERM permit No. UT-7288 in your correspondence(s). Attached, please find conceptual locations of Monitoring wells that will be required for P& D approval. At least, 12 properly constructed monitoring wells shall be installed. If analytical results indicate presence of contamination then changes to proposed drainage may be necessary (per Chapter 24 Miami Dade Code).

Regards,

Satyen Thakar, P.E., Engineer II

Miami-Dade Regulatory and Economic Resources Department
Environmental Monitoring & Restoration Division
Overtown Transit Village
701 NW 1 Court, 4th Floor
Miami, Florida 33136
Tel.: 305-372-6700 Fax : 305-372-6982
"Delivering Excellence Every Day"

From: Leigh Marshallsay <LMarshallsay@universalengineering.com>
Sent: Wednesday, July 10, 2019 9:12 AM
To: Thakar, Satyen (RER) <Satyen.Thakar@miamidade.gov>
Cc: Paul Cheney <pcheney@universalengineering.com>; Welch, Tammy (RER) <Tammy.Welch@miamidade.gov>
Subject: RE: Proposed Publix Store No. 1465

EMAIL RECEIVED FROM EXTERNAL SOURCE.

Satyen,

I apologize I didn't reply yesterday, I left the office early. Please find site map attached. If you could get this back to me ASAP as our client needs a proposal by close of business today.

Thanks,

Leigh Marshallsay, M.A.
Department Manager
Environmental Department
Cell: (786) 359-8161
E-mail: lmarshallsay@universalenginering.com

Website: www.universalengineering.com

UNIVERSAL ENGINEERING SCIENCES, INC.
9960 NW 116th Way, Suite 8 | Medley, FL 33178
Tel: (305) 249-8434 | Fax: (305) 249-8479

From: Thakar, Satyen (RER) [mailto:Satyen.Thakar@miamidade.gov]
Sent: Tuesday, July 9, 2019 4:49 PM
To: Leigh Marshallsay <LMarshallsay@universalengineering.com>
Cc: Paul Cheney <pcheney@universalengineering.com>; Welch, Tammy (RER) <Tammy.Welch@miamidade.gov>
Subject: RE: Proposed Publix Store No. 1465

Hi Leigh, Paul:

I have discussed the proposed monitoring well locations and can propose you the locations. Can either one of you send me a clean copy of the drainage plans ?

Thank you

Satyen Thakar, P.E., Engineer II

Miami-Dade Regulatory and Economic Resources Department
Environmental Monitoring & Restoration Division
Overtown Transit Village
701 NW 1 Court, 4th Floor
Miami, Florida 33136
Tel.: 305-372-6700 Fax : 305-372-6982
"Delivering Excellence Every Day"

From: Thakar, Satyen (RER)
Sent: Tuesday, July 09, 2019 4:01 PM
To: Leigh Marshallsay <LMarshallsay@universalengineering.com>
Cc: Paul Cheney <pcheney@universalengineering.com>
Subject: RE: Proposed Publix Store No. 1465

Leigh, Paul

Can you please send me the folio no. or DERM Permit no. that was included with the letter.

Thanks

Satyen Thakar, P.E., Engineer II

Miami-Dade Regulatory and Economic Resources Department
Environmental Monitoring & Restoration Division
Overtown Transit Village
701 NW 1 Court, 4th Floor
Miami, Florida 33136
Tel.: 305-372-6700 Fax : 305-372-6982
"Delivering Excellence Every Day"

From: Leigh Marshallsay <LMarshallsay@universalengineering.com>
Sent: Monday, July 08, 2019 5:00 PM
To: Thakar, Satyen (RER) <Satyen.Thakar@miamidade.gov>
Cc: Paul Cheney <pcheney@universalengineering.com>
Subject: Proposed Publix Store No. 1465

EMAIL RECEIVED FROM EXTERNAL SOURCE.

Satyen,

Thank you for returning my call earlier. Please find the proposed well locations on the map attached. I have discussed the project with our Professional Geologist, Paul Cheney (cc'd) and it is UES' opinion that the six proposed wells will provide a representative number of groundwater samples to give a good understanding of groundwater conditions on the property. If exceedances are reported above the applicable GCTLs in one or more of the monitoring wells, assessment activities can be focused in these area.

Thanks and I look forward to your comments.

Have a great evening.

Leigh Marshallsay, M.A.
Department Manager
Environmental Department
Cell: (786) 359-8161
E-mail: lmarshallsay@universalenginering.com
Website: www.universalengineering.com