Phase I Environmental Site Assessment
ASTM Practice E1527-13

Parcel ID 42-10-27-6850-0890-0000
N. 10th Street and Ocean Street
Palatka, Florida

Prepared for:

City of Palatka
201 N 2nd St
Palatka, FL 32177

September 2016

HireSmart®

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ASTM Practice E1527-13

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N. 10th Street and Ocean Street
Palatka, Florida

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Acronyms

Regulatory Agencies

DEP	Florida Department of Environmental Protection
U.S. EPA	United States Environmental Protection Agency

Other

ACM	Asbestos Containing Material
AST	Aboveground Storage Tank
ASTM	American Society for Testing and Materials, Practice E1527-13
ATRP	Abandoned Tank Restoration Program
BER	Business Environmental Risk
CERCLIS	Comprehensive Environmental Response Compensation and Liability Information System
CLM	Contamination Locator Map
CORRACTS	Resource Conservation and Recovery Information System Corrective Action Sites
DWM	Division of Waste Management
ERNS	Emergency Response Notification System
ERP	Environmental Repair Program
ESA	Environmental Site Assessment
FID	Federal Identification Number
GIS	Geographic Information System
LUST	Leaking Underground Storage Tank
NFA	No Further Action
NPL	National Priority List (Superfund)
OCULUS	Document Management System
RCRA	Resource Conservation and Recovery Act
RCRIS	Resource Conservation and Recovery Information System
REC	Recognized Environmental Condition
RP	Responsible Party
SWL	Solid Waste Landfill
TSD	Treatment Storage and Disposal Facilities
USGS	United States Geological Survey
UST	Underground Storage Tank
VCTC	Voluntary Cleanup Tax Credit
WDS	Waste Disposal Site

Executive Summary

This Executive Summary provides a brief description of important project details. For completeness of information, the findings, opinions and conclusions presented below have been copied verbatim from Section 7.0. All users of this report are advised to consult the body of the report for more information and greater comprehension of items and conditions described in the Executive Summary.

Ayres Associates conducted this Phase I ESA in accordance with accepted engineering principles and practices, including ASTM Practice E1527-13. Ayres Associates' findings are based on observations and data collected during a limited time period. It should be understood that a site walk over, by nature, is limited in its ability to fully assess the environmental conditions of a property. Ayres Associates does not assume responsibility for the discovery or elimination of adverse environmental conditions that possibly could cause accidents, injury, or damage.

Project Scope

City of Palatka, 201 N 2nd Street, Palatka, FL 32177, retained Ayres Associates to conduct a Phase I Environmental Site Assessment (ESA) of the N. 10th Street and Ocean Street, identified by parcel ID 42-10-27-6850-0890-0000 in Palatka, F. The property is referred to as the "subject property" in this report.

The objective of the Phase I ESA was to assess the environmental conditions on the subject property and surrounding area to identify recognized environmental conditions (RECs) that might adversely affect the subject property. A site reconnaissance of the subject property was conducted on August 23, 2016.

Purpose

On December 30, 2013, the U.S. Environmental Protection Agency issued its final rule on Standards and Practices for Conducting All Appropriate Inquiries (AAI). This rule references ASTM Practice E1527-13, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process* as being compliant with the statutory criteria for AAI. The purpose of this practice is to define good commercial and customary practice in the United States of America for conducting an ESA of a parcel of commercial real estate with respect to the range of contaminants within the scope of Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) and petroleum products. As such, this practice is intended to permit a user to satisfy one of the requirements to qualify for the innocent landowner, contiguous property owner, or bona fide prospective purchaser limitations on CERCLA liability: that is, the practice that constitutes "all appropriate inquiry into the previous ownership and uses of the property consistent with good commercial or customary practice." The terms "Recognized Environmental Condition," "Historical Recognized Environmental Condition", "Controlled Recognized Environmental Condition" and "*de minimis* condition" used in this Phase I ESA are defined under the ASTM Practice E1527-13, and are further described in Section 1.4 of this report.

Summary of Findings

The following summary of findings is based on a site reconnaissance to view the subject property and adjoining properties, review of environmental and historical records, and interviews conducted during the preparation of this Phase I ESA report:

- The subject property consists of one 31.6-acre parcel in the North ½ of Section 42, Township 10 South, Range 27 East, in the City of Palatka, Putnam County, Florida. The property does not have a physical address but is identified by parcel number 42-10-27-6850-0890-0000 and a legal description of "DICKS MAP OF PALATKA MB2 P46, BLKS 89 90 91 92 99 100 101, 102 109 110(EX OR820 P1397), 111 112 119 120 121 122(BOOKER, FIELD/LEFTY TURNER PARK IS ON, BLK 90 REST IS OLD CITY DUMP & SWAMP)".

- The subject property is located east of the intersection of N. 10th Street and Ocean Street and is largely covered by thick vegetation. The balance of the property is gently sloping downward to the east/northeast toward the St. Johns River with elevations between 0 and 20 feet. Low lying areas in the east are swampy, and a pond covers approximately 6 acres along the north property line. Booker Field is in the southwest corner. An old dump site containing construction debris and general refuse occupies approximately 11 acres in the south and central portions of the property. Access is limited by a locked gate and 7-foot chain link fence surrounding the dump area. The interior of the property is largely inaccessible except by a short access road from the current Department of Public Works (DPW) offices and equipment staging area. There are currently no buildings or known utilities on the property.

- With the exception of Booker Field, which contains a baseball field and is used for recreational purposes, the property does not appear to have been used for many decades. The portions occupied by the former dump site are fenced to discourage illegal dumping.

- The City purchased the subject property around 1900. While city directories identified the property address as the city incinerator from 1928 to 1969 and city dump from 1974 to 1982, none of the historical sources reviewed revealed the property's use prior to 1928. Aerial photographs indicate that two small structure were constructed on the property; one prior to 1943 and the other prior to 1964. Both have been demolished. Between 1943 and 1980, approximately 11 acres were cleared for dumping on the south and central portions of the property. The dump site was crossed by network of access roads and contained several pits or mounds. Between 1943 and 1964, a moderately sized industrial facility on an adjoining property expanded and covered a small area on the southeast corner of the subject property. During this time, a road extended from the adjoining industrial facility to the pond on the north portion of the subject property. The dump area on the subject property reached its maximum extent around 1980 and has laid idle since around 1994.

- The site visit and records reviews identified solid waste on approximately 11 acres of the subject property. The majority of the waste appeared to be construction and demolition debris that may include asbestos containing building materials, lead-based paint, and discarded drums or tanks containing hazardous substances. Additionally, waste and ash associated with the historical operation of the city incinerator likely remains on the property.

- The subject property is identified on the Florida solid waste facilities and landfill sites (SWF/LF) database as City Lot LF. This is a closed "old dump" identified by facility ID 94029. Both Environmental Data Resources (EDR) and the Florida Department of Environmental Protection (DEP) incorrectly map this site 0.242 miles south of the subject property. Neither the DEP, Putnam County Sanitation Department nor the Palatka DPW have regulatory records of the types of waste or historical operations at this site. The lack of regulatory files is an indication that property has a history of unregulated dumping that potentially spans nearly a century.

- The Palatka City – Maintenance Lot and Abandoned Lot are on a west adjoining property and identified on the Underground Storage Tank (UST) and Leaking Underground Storage Tank (LUST) databases. The DEP received notification that petroleum contamination in soil and groundwater was discovered during the closure of two 1,000-gallon and one 3,000-gallon unleaded gasoline USTs. The two 1,000-gallon USTs are eligible for the State's Abandoned Tank Restoration Program (ATRP) but the 3,000-gallon UST is not. To correctly appropriate state funds, the DEP assigned a discrete facility ID to the two 1,000-gallon USTs and created a regulatory distinction between the Maintenance Lot and Abandoned Lot. The DEP database indicates that cleanup work status for the Abandoned Lot is ongoing, but inactive and the Maintenance Lot has clean up Not Required (NREQ) status. In 2016, the DEP visited the site and observed compliance wells and a groundwater remediation system but noted the system has not been operated for a number of years.

- City directories identify the subject property as "City Incinerator" and "City Dump". Additionally, "old city dump" is included in the property's legal property description. The assessor's website identified the property use as "sew/waste land" and the property's use as a dump site was confirmed during the site visit and in an interview with the Palatka Fire Department.

- According to an interview with the Palatka Fire Department, transformer oil and used oil may have been burned in pits at the dump for fire training exercises in the 1980s. Five small circular structures, possibly pits or mounds, were identified in a 1980 aerial photograph.

- The property may be subject to AULs that prohibit converting its use from public outdoor recreation without written approval from the Secretary of the Interior. The use limitation documents reference Booker Field, which is the baseball field on the southwest corner of the subject property. The documents reference a map of the subject property but do not indicate if these restrictions apply to entire property or just Booker Field.

- The property is identified on the National Wetland Inventory and the existence of wetlands on the property is further supported by shading on USGS topographic maps and the presence of hydric soils.

Conclusions and Opinions

We have performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E1527-13 of N. 10th Street and Ocean Street, Palatka, F, the subject property. Any exceptions to, or deletions from, this practice are described in Section 1.6 of this report. This assessment has revealed no evidence of recognized environmental conditions in connection with the subject property except for the following:

Recognized Environmental Conditions

- The likely presence of hazardous materials resulting from a nearly century long history of unregulated solid waste dumping and the four-decade operation of the city incinerator at the subject property is considered a REC. This REC includes the reported burning of transformer oils or other waste oils at the property.

- Historical fueling operations at adjoining Palatka City Maintenance and Abandoned Lot have contaminated the groundwater up gradient of the subject property with petroleum, and one of the investigations currently has an open regulatory status. While there is no documentation that groundwater on the subject property has been impacted by the release, the operation of a remediation system indicates the release was significant enough to require clean up and may have impacted groundwater on the subject property. Potential petroleum contamination in groundwater on the subject property is considered a REC. Based on the direction of groundwater flow and distance from the LUSTs, vapor intrusion is a concern.

Controlled Recognized Environmental Conditions

- No controlled RECs have been identified by this assessment.

Historical Recognized Environmental Conditions

- No historical RECs have been identified by this assessment.

Additional Information

Data Gaps

A data gap is considered the inability to obtain information required by ASTM E1527-13 despite good faith efforts by Ayres Associates to gather such information. The following data gaps were identified during the preparation of this Phase I ESA:

- Ayres Associates was unable to view the entire property including several features identified on aerial photographs because of dense vegetation. These features include a pond, two former structures and five pits/mounds. Ayres Associates considers this a significant data gap that limits the conclusions of this assessment.

- Ayres Associates was unable to determine all prior uses of the subject property. The earliest useful historical source obtained was a 1928 city directory identified that at least a portion of the subject property was developed for use as the city incinerator. The absence of historical sources indicating development prior to 1928 is considered a data failure but is not anticipated to significantly limit the conclusions of this Phase I ESA.

Business Environmental Risks

Business Environmental Risks are risks which can have a material environmental or environmentally-driven impact on the business associated with the current or planned use of a parcel of commercial real estate, not necessarily limited to those environmental issues required to be investigated in this practice.

- During the site visit and records reviews, Ayres Associates identified solid waste on approximately 11 acres of the subject property. The majority of the waste appeared to be construction and demolition debris but may include asbestos containing building materials, lead-based paint, and other hazardous substances. The cost to manage or remove these materials prior to redevelopment is considered a BER.

- The subject property is identified on the National Wetland Inventory. The existence of wetlands on the property is further supported by shading on USGS topographic maps and the presence of hydric soils. Permitting and regulatory issues associated with wetlands can impede or increase the cost to develop a property, and are considered a BER.

- The property may be subject to AULs that prohibit converting its use from public outdoor recreation without written approval from the Secretary of the Interior. The use limitation could restrict the options available for redevelopment, and is considered a BER.

Additional Investigation

This section is included to provide an opinion in the unusual circumstance that greater certainty is required regarding the RECs identified by this Phase I ESA. Inclusion of such an opinion does not render the assessment incomplete, nor does it constitute a recommendation for a Phase II ESA or other assessment activities.

- Remedial action is ongoing at the Abandoned City Lot (FID 9102245) on the west adjoining property. A Remedial Action Plan (1993) and field inspection report (2016) document the installation of a groundwater remediation system on the property and note that it is no longer in operation; however, the DEP files reviewed by Ayres Associates do not contain any operation logs or monitoring data from 1993 to 2016. Additional investigation is needed to determine the extent of residual groundwater contamination on the property and if the DEP approved the remediation system shutdown.

- Between 1943 and 1964, a road extended from a moderately sized industrial facility on the southeast adjoining property to the pond on the north portion of the subject property. The purpose of the road on the east adjoining property is unknown and could have been for dumping in the pond. While the existence of the road does not necessarily indicate the presence dumping, its exact function is unknown. The function of the road should be investigated to rule out any possible connection with a dumping on the subject property.

Acknowledgement

On behalf of the City of Palatka, Ayres Associates would like to extend its sincere appreciation to the U.S. Environmental Protection Agency (U.S. EPA) for their funding support and to the Florida Department of Environmental Protection (DEP) for their technical assistance. The U.S. EPA Brownfield Site Assessment Grant Program not only graciously awarded the City of Palatka this grant to assist in funding the environmental activities outlined in this report, but has continued to support the City's efforts as they move toward redevelopment. Without this funding support, this Brownfield site may have laid idle indefinitely. We are indebted to the U.S. EPA for making financial assistance available for this important redevelopment project.

1.0 Introduction

1.1 Project Information

Project Name:	Palatka Brownfield
Site Name & Address:	Parcel ID 42-10-27-6850-0890-0000 N. 10th Street and Ocean Street Palatka, F
Job Number:	19-0668.25
Site Reconnaissance Date:	August 23, 2016

1.2 Location and Legal Description

The subject property consists of one parcel of land measuring approximately 31.6 acres and located in the North ½ of Section 42, Township 10 South, Range 27 East, in the City of Palatka, Putnam County, Florida. The property does not have a physical address but is identified as parcel number 42-10-27-6850-0890-0000 with a legal description of "DICKS MAP OF PALATKA MB2 P46, BLKS 89 90 91 92 99 100 101, 102 109 110(EX OR820 P1397), 111 112 119 120 121 122(BOOKER, FIELD/LEFTY TURNER PARK IS ON, BLK 90 REST IS OLD CITY DUMP & SWAMP)".

See Figure 1 in Appendix A for the regional location and Figure 2 for a recent aerial photograph of the subject property. Recent property records are also provided in Appendix A.

1.3 Project Scope

City of Palatka, 201 N 2nd Street, Palatka, FL 32177, retained Ayres Associates to conduct a Phase I Environmental Site Assessment (ESA) of the N. 10th Street and Ocean Street site, identified by parcel ID 42-10-27-6850-0890-0000 in Palatka, F. The property is referred to as the "subject property" in this report.

The objective of the Phase I ESA was to assess the environmental conditions on the subject property and surrounding area to identify recognized environmental conditions (RECs) that might adversely affect the subject property. A site reconnaissance of the subject property was conducted on August 23, 2016.

1.4 Purpose

On December 30, 2013, the U.S. Environmental Protection Agency issued its final rule on Standards and Practices for Conducting All Appropriate Inquiries (AAI). This rule references ASTM Practice E1527-13, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process* as being compliant with the statutory criteria for AAI. The purpose of this practice is to define good commercial and customary practice in the United States of America for conducting an ESA of a parcel of commercial real estate with respect to the range of contaminants within the

scope of Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) and petroleum products. As such, this practice is intended to permit a user to satisfy one of the requirements to qualify for the innocent landowner, contiguous property owner, or bona fide prospective purchaser limitations on CERCLA liability: that is, the practice that constitutes "all appropriate inquiry into the previous ownership and uses of the property consistent with good commercial or customary practice." The goal of the Phase I ESA process is to identify Recognized Environmental Conditions.

The term "Recognized Environmental Conditions," means the presence or likely presence of any hazardous substances or petroleum products in, on or at a property: (1) due to release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment. The term includes hazardous substances or petroleum products even under conditions in compliance with laws. The term is not intended to include *de minimis* conditions that generally do not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. Conditions determined to be *de minimis* are not recognized environmental conditions. The term "Controlled Recognized Environmental Condition" means a recognized environmental condition resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls). The term "Historical Recognized Environmental Condition" means a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls. Before calling the past release a historical recognized environmental condition, the environmental professional must determine whether the past release is a recognized environmental condition at the time of the Phase I Environmental Site Assessment is conducted (for example, if there has been a change in the regulatory criteria).

Additionally, the Phase I ESA process may identify "Business Environmental Risks", meaning risks which can have a material environmental or environmentally-driven impact on the business associated with the current or planned use of a parcel of commercial real estate, not necessarily limited to those environmental issues required to be investigated in this practice. Consideration of Business Environmental Risk issues may involve addressing one or more non-scope considerations, including but not limited to asbestos-containing building materials, biological agents, cultural and historic resources, ecological resources, endangered species, health and safety, indoor air quality unrelated to releases of hazardous substances or petroleum products into the environment, industrial hygiene, lead-based paint, lead in drinking water, mold, radon, regulatory compliance and wetlands.

1.5 Tasks, User Questionnaire, and Non-Scope Considerations

To assess the environmental conditions of the subject property, Ayres Associates performed the following tasks: (1) research into subject property history to identify prior uses and owners; (2) interviews with key site contacts and appropriate governmental staff and review of government agency records to identify environmental conditions affecting the subject property; (3) review of available aerial photographs and/or fire insurance maps of the subject property and surrounding area; (4) review of published geological and hydrological information concerning the subject property and surrounding areas; (5) a site visit to the subject property and surrounding areas to observe environmental conditions and complete an asbestos inspection; and (6) preparation of a report documenting findings and offering recommendations for further investigation deemed necessary and appropriate (see Appendix B, Scope of Services).

A User Questionnaire was submitted to a representative of City of Palatka with All Appropriate Inquiry requirements as defined in CERCLA, 42 U.S.C. §9601(35)(B). The questionnaire was completed by Ms. Mandi Tucker.

Non-scope considerations were not requested by the User or completed as part of the scope of services for this Phase I ESA.

1.6 Limitations, Deviations, Exceptions and Significant Assumptions

The following limitations were encountered during the preparation of this Phase I ESA:

- Dense vegetation limited onsite observations to areas around dirt access roads.
- The quality and scale of some of the aerial photographs limited the ability to make observations related to the subject property development and/or activities.
- Neither state nor local government agencies appear to maintain a regulatory file for the property.

There were no deviations or exceptions from ASTM Practice E1527-13 or significant assumptions made during the preparation of this Phase I ESA.

1.7 Special Terms and Conditions

This Phase I ESA was conducted in accordance with our scope of services as included in Appendix B. No additional special terms and conditions were included in this Phase I ESA.

1.8 User Reliance

This report is intended for the sole use of City of Palatka, Florida DEP, U.S EPA, and potential lenders or purchasers. Ayres Associates does not assume liability for use of this report by unauthorized parties.

2.0 User Provided Information

A User Questionnaire was submitted to a representative of City of Palatka with All Appropriate Inquiry requirements as defined in CERCLA, 42 U.S.C. §9601(35)(B). The questionnaire was completed by Ms. Mandi Tucker. A copy is provided in Appendix B.

2.1 Environmental Liens

The User is not aware of any environmental liens filed or recorded against the subject property.

Ayres Associates retained EDR to perform an environmental lien search for the property. EDR searched records back to January 1, 1955, and did not find a deed of ownership or environmental liens.

2.2 Activity and Use Limitations

The User is not aware of any AULs that are in place or have been field or recorded against the subject property.

During the course of an environmental lien search, AULs were found that prohibit converting the "Property" use from public outdoor recreation without written approval from the Secretary of the Interior. The use limitation documents reference Booker Field, which is the southwest corner of the subject property, but do not indicate if these restrictions apply to entire property or just Booker Field.

2.3 Specialized or Actual Knowledge or Experience

The User informed Ayres Associates that the property was previously used as a dump site but has since been fenced off to discourage dumping.

2.4 Valuation Reduction for Environmental Issues

The User is not aware if the property value reasonably reflects the fair market value of the property, as the City (User) has owned the property since the early 1900s.

2.5 Commonly Known or Reasonably Ascertainable Information

The User is aware of the property's past use as a dump site but does not have any knowledge of specific chemicals, spills or environmental cleanups at the property.

2.6 Obvious Indicators of Contamination

The User is not aware of any obvious indicators of contamination.

3.0 Records Review

3.1 Standard Federal Environmental Records

EDR (Environmental Data Resources, Inc.), a commercial database service, provided a federal, state, and local environmental records search for the subject property. The EDR database search was completed on August 4, 2016, and a copy of the database report is provided in Appendix C. This section addresses specific sites identified on standard federal environmental records that could be considered a REC in connection with the subject property if they were found within the appropriate ASTM search radius. The search radius of a particular record may be adjusted in the discretion of Ayres Associates due to density of setting in which the subject property is located, the distance that hazardous substances or petroleum are likely to migrate based on local geologic or hydrogeologic conditions, the property types, existing or past uses of surrounding properties, and other reasonable factors.

Where possible, Ayres Associates also evaluates sites that are identified in standard environmental records but are unable to be mapped or plotted due to insufficient location information. These sites may be referred to as “orphan”, “non-geocoded”, “unmapped”, or “unplottable” sites in commercial database reports. Such site listings may constitute a data gap in the event Ayres Associates is not able to determine their location. Data gaps and their significance are discussed in Section 7.3.1.

3.1.1 National Priorities List (NPL) Site List

The NPL or Superfund list is the United States Environmental Protection Agency’s (U.S. EPA’s) list of the most serious uncontrolled or abandoned hazardous waste sites identified for possible long-term remedial action under the Superfund program. The NPL, which U.S. EPA is required to update at least once a year, is based primarily on the score a site receives from U.S. EPA's Hazard Ranking System. A site must be on the NPL to receive money from the Superfund Trust Fund for remedial action. The ASTM search radius is 1.0 miles.

- The subject property is not identified on this database.
- Additional sites are not identified on this database.

3.1.2 Delisted NPL Site List

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the U.S. EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425(e), sites may be deleted from the NPL where no further response is appropriate. The ASTM search radius is 0.5 miles.

- The subject property is not identified on this database.
- Additional sites are not identified on this database.

3.1.3 Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) List

CERCLIS is a database of potential and confirmed hazardous waste sites at which the U.S. EPA Superfund program has some involvement. It contains sites that are either proposed to be or are on the NPL as well as sites that are in the screening and assessment phase for possible inclusion on the NPL. The ASTM search radius is 0.5 miles.

- The subject property is not identified on this database.
- Additional sites are not identified on this database.

3.1.4 CERCLIS No Further Remedial Action Planned (NFRAP) Site List

An archived site is one at which U.S. EPA has determined that assessment has been completed and no further remedial action is planned under the Superfund program at this time. The Archive designation means that, to the best of U.S. EPA's knowledge, assessment at a site has been completed and that U.S. EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL). This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site. The ASTM search radius is 0.5 miles.

- The subject property is not identified on this database.
- One additional site is identified on this database.
  - Palatka Gas Works is a former manufactured gas plant that is identified by Florida site ID 0404731 and EPA ID FLD981932007. This site is approximately 0.376 miles south of the subject property at 512 Madison St. In 1991, the U.S. EPA determined that the site did not qualify for the NPL and placed it on the NFRAP site list. Based on the regulatory status and location, it is unlikely that contamination from this site could migrate to the subject property.

3.1.5 Resource Conservation and Recovery Act (RCRA) Corrective Action (CORRACTS) Facilities List

RCRAInfo is U.S. EPA's comprehensive information system, providing access to data supporting the RCRA of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRA (Corrective Action Program) requires treatment, storage and disposal (TSD) facility owners and operators to investigate and cleanup hazardous waste releases at hazardous waste facilities. The RCRA Corrective Action Program allows these facilities to address the investigation and cleanup of these hazardous releases themselves. RCRA Corrective Action facilities include many current and former chemical manufacturing plants, oil refineries, lead smelters, wood preservers, steel mills, commercial landfills, and a variety of other types of entities. Due to poor

practices prior to environmental regulations, Corrective Action facilities have left large stretches of river sediments laden with PCBs; deposited lead in residential yards and parks beyond site boundaries; polluted drinking water wells in rural areas with chlorinated solvents; tainted municipal water supplies used by millions; and introduced mercury into waterways, necessitating fish advisories. At these sites, the Corrective Action Program ensures that cleanups occur. U.S. EPA and state regulators work with facilities and communities to design remedies based on the contamination, geology, and anticipated use unique to each site. The ASTM search radius is 1.0 miles.

- The subject property is not identified on this database.
- Additional sites are not identified on this database.

3.1.6 RCRA non-CORRACTS TSD Facilities List

RCRAInfo is U.S. EPA's comprehensive information system, providing access to data supporting the RCRA of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. This database includes Non-Corrective Action sites listed as treatment, storage and/or disposal facilities of hazardous waste as defined by the RCRA. The ASTM search radius is 0.5 miles.

- The subject property is not identified on this database.
- Additional sites are not identified on this database.

3.1.7 RCRA Generators List

RCRAInfo is U.S. EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRAInfo replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Generators are divided into three categories based upon the quantity of waste they produce:

1. Large Quantity Generators (LQGs) generate 1,000 kilograms per month or more of hazardous waste, more than 1 kilogram per month of acutely hazardous waste, or more than 100 kilograms per month of acute spill residue or soil.
2. Small Quantity Generators (SQGs) generate more than 100 kilograms, but less than 1,000 kilograms, of hazardous waste per month.
3. Conditionally Exempt Small Quantity Generators (CESQGs) generate 100 kilograms or less per month of hazardous waste, or 1 kilogram or less per month of acutely hazardous waste, or less than 100 kilograms per month of acute spill residue or soil.

The ASTM search radius is the subject property and adjoining properties.

- The subject property is identified on these databases.
- No adjoining properties are identified on these databases.

3.1.8 Institutional Control and Engineering Control Registries

Institutional controls are non-engineered instruments, such as administrative and legal controls, that help minimize the potential for human exposure to contamination and/or protect the integrity of the remedy. Although it is U.S. EPA's expectation that treatment or engineering controls will be used to address principal threat wastes and that groundwater will be returned to its beneficial use whenever practicable, institutional controls play an important role in site remedies because they reduce exposure to contamination by limiting land or resource use and guide human behavior at a site. For instance, zoning restrictions prevent site land uses, like residential uses, that are not consistent with the level of cleanup.

Engineering controls encompass a variety of engineered and constructed physical barriers (e.g., soil capping, subsurface venting systems, mitigation barriers, fences) to contain and/or prevent exposure to contamination on a property. The ASTM search radius is the subject property only.

- The subject property is not identified on these databases.

3.1.9 Emergency Response Notification System (ERNS) List

Database of oil and hazardous substances spill reports controlled by the National Response Center. The primary function of the National Response Center is to serve as the sole national point of contact for reporting all oil, chemical, radiological, biological, and etiological discharges into the environment anywhere in the United States and its territories. The ASTM search radius is the subject property only.

- The subject property is not identified on this database.

3.2 Standard State Environmental Records

This section addresses specific sites identified on standard state (or tribal, where applicable) environmental records that could be considered a REC in connection with the subject property if they were found within the appropriate ASTM search radius. Results of the EDR database report were cross-referenced with information obtained directly from state regulatory agency databases available online, including the DEP's Contamination Locator Map (CLM), which includes brownfields, petroleum, superfund, and other waste cleanup sites.

Although all sites in CLM are suspected or perceived to be contaminated, further investigation may show that some sites are not contaminated. Conversely, some

contaminated sites that are still undergoing preliminary screening by the Department may not yet appear in CLM. Sites that are closed or are no longer under DEP's cleanup oversight will not appear in CLM. Also, CLM may not include all information about federal facilities.

- The subject property is not identified on this database.
- Additional sites are identified on this database. These sites are discussed in applicable parts of Section 3.2.

Copies of CLM and additional database search results are included at the back of the EDR database report in Appendix C.

3.2.1 State-equivalent NPL & CERCLIS Site Lists

Florida's State Hazardous Waste Sites (SHWS) are state-funded action sites regulated by the DEP and considered to be equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds are identified along with sites where cleanup will be paid for by potentially responsible parties. The ASTM search radius is 0.5 miles for state-equivalent CERCLIS sites. Florida does not have a state database equivalent to the NPL.

- The subject property is not identified on these databases.
- Additional sites are not identified on these databases.

3.2.2 Landfill and Solid Waste Disposal Site Lists

The DEP regulates landfills to prevent negative impacts to people and the environment, and maintains lists of licensed solid waste landfills, as well as old historic waste disposal facilities, in the state of Florida. The ASTM search radius for solid waste facilities and landfill sites (SWF/LF) is 0.5 miles.

- The subject property is identified as a SWF/LF.
  - City Lot LF is a closed "old dump" site identified by facility ID 94029. Both EDR and the DEP map it 0.242 miles south of the subject property but neither provide a physical address. Based on city directories that identify the subject property as "City Incinerator" and "City Dump", this database listing may refer to the subject property and both the DEP and EDR likely mapped this facility incorrectly. A review of the DEP's soil waste database confirmed the facility is closed and indicated that no groundwater monitoring is required. Neither the DEP, Putnam County Sanitation Department, nor the Palatka DPW have regulatory records or closure information for this site. During the course of a file review, Ayres Associates determined that this facility is likely located on the subject property.

- Three additional SWF/LFs are identified within 0.5 miles of the subject property. All of the sites listed are inactive and associated with the improper storage/disposal of used tires, which is unlikely to result in contamination that could migrate to the subject property.

3.2.3 Leaking Storage Tank Lists

The DEP maintains lists of LUST and Leaking Aboveground Storage Tank (LAST) sites. When petroleum products are released from underground tanks into the soil or groundwater, the DEP will work with the responsible party and environmental professionals to clean up the spill to state standards. The ASTM search radius is 0.5 miles.

- The subject property is not identified on these databases.
- Nineteen LUST sites and one LAST site are identified on these databases. Of the nineteen LUST sites, six have a No Further Action (NFA) status, three have Cleanup Not Required (NREQ) status and two have approved Site Rehabilitation Completion Reports (SRCR). These sites have been addressed to the satisfaction of the DEP and are unlikely have contamination that could migrate to the subject property. Of the remaining LUST and LAST sites only two are on an adjoining property and likely to have contamination with the potential to migrate to the subject property:
  - Palatka City – Abandoned Lot is a LUST site owned by the City of Palatka with ongoing remedial action and is identified by facility ID 9102245. This site is on the west adjoining property. In 1990, the DEP received notification that petroleum contamination in soil and groundwater was discovered during the closure of two 1,000-gallon unleaded gasoline USTs. Both USTs were removed in 1989. In 1993, the DEP approved a Remedial Action Plan for groundwater remediation using a pump and treat system. The DEP database indicates that cleanup work status is inactive but that the facility is eligible and has received funding from the state's Abandoned Tank Restoration Program (ATRP).
  - Palatka City – Maintenance is a LUST site owned by the City of Palatka that has received Cleanup Not Required (NREQ) status and is identified by facility ID 8521034. This site is on the west adjoining property and much of the information is duplicative of the Palatka City – Abandoned City Lot. These two sites are on the same property, but they have discrete facility IDs due to funding eligibility issues with the state's ATRP. The Maintenance site had three unleaded gasoline USTs; two 1,000-gallon and one 3,000-gallon tanks. The two 1,000-gallon USTs are eligible for funding under the ATRP but the 3,000-gallon UST is not. As a result, the DEP assigned a different facility ID to the two 1,000-gallon USTs, which ensured that state funding was appropriated for those tanks. The 3,000-gallon UST was removed in 1992. While this site does have NREQ status, the regulatory distinction between the Abandoned

City Lot and Maintenance site is a function of acceptance into state funding programs and for the purpose of this assessment it is unnecessary to differentiate contamination between the two sites.

3.2.4 Registered Storage Tank Lists

DEP maintains a list of underground storage tank (UST) and aboveground storage tank (AST) locations regulated under the state code. The ASTM search radius is the subject property and adjoining properties only.

- The subject property is not identified on these databases.
- Two sites on an adjoining property are identified on the state UST and AST databases:
  - Palatka City – Maintenance Lot is identified as the owner of a two 1,000-gallon (ID 1 and 2), one 3,000-gallon unleaded gasoline USTs (ID 3), and one 500-gallon diesel AST (ID 4) at 1016 Ocean Street (FID 8521034) on the west adjoining property. According to the DEP storage tank database, the two 1,000-gallon and 3,000-gallon USTs were removed in 1989 and 1992, respectively. The AST is still in service.
  - Palatka City – Abandoned Lot is a duplicate listing for the two 1,000-gallon unleaded gasoline USTs (ID 1 and 2) previously identified as Palatka City – Maintenance Lot at 1016 Ocean St. These USTs are associated with a LUST case that eligible for funding under Florida's ATRP. To keep funding for the LUST cleanup separate from other tanks on the property, the DEP assigned them a discrete facility ID (ID 9102245).

3.2.5 Institutional Control and Engineering Control Registries

These are sites that use engineered barriers or institutional controls such as groundwater use restrictions (e.g. restriction to install potable well on the site). The ASTM search radius is the subject property only.

- The subject property is not identified on these databases.

3.2.6 Voluntary Cleanup Sites

The Voluntary Cleanup Tax Credits (VCTC) provides incentive for voluntary cleanup of certain drycleaning solvent sites and brownfield sites by awarding corporate income tax credits to offset site rehabilitation or solid waste removal costs. Participants must enter into either a Voluntary Cleanup Agreement (VCA) or Brownfields Site Rehabilitation Agreement (BSRA) with the DEP. The ASTM search radius is 0.5 miles.

- The subject property is not identified on these databases.
- Additional sites are not identified on these databases.

3.2.7 Brownfield Sites

The DEP Brownfield Redevelopment Program has a wide range of financial and liability tools available to assist local governments, businesses, lenders and others to clean up and redevelop brownfields in Florida. DEP defines brownfields as real property, the expansion, redevelopment or reuse of which may be complicated by actual or perceived environmental contamination. Brownfield properties present public health, economic, environmental and social challenges to communities in which they are located. The ASTM search radius is 0.5 miles.

- The subject property is not identified on these databases.
- One additional site is identified on these databases.
  - Former Dee Dee Bar is a Brownfield site 0.285 miles south-southwest of the subject property at 1100 Madison St. The property was previously occupied by a gas station that operated from the 1950s to 70s, but the site has been abandoned for over 20 years. It was bought off the tax rolls in 2006. The purchaser removed four USTs and later found evidence of two additional tanks which apparently remain. In 2008, the site was donated to the Florida Endowment Foundation for Florida's Graduates. Based on the location and regulatory status, it is unlikely that contamination at this site could migrate to the subject property.

3.3 Additional Environmental Records

3.3.1 Regulatory Agency File and Records Review

If the subject property or any of the adjoining properties is identified on one or more of the standard environmental records sources, pertinent regulatory files and/or records associated with the listing are reviewed by Ayres Associates to assist in identifying RECs in connection with the subject property. If such a review is not warranted in the opinion of Ayres Associates, justification for not conducting the regulatory file review is provided in this section. As an alternative, files or records from other sources may be reviewed, if deemed sufficient to evaluate the existence of a REC in connection with the subject property. The file review pertains to the following properties identified in standard environmental record sources.

Address: Ocean St and N. 10th Street
Site Name(s): City Lot LF (County Data)
Database(s): SWF/LF
Relation to subject property: Subject property

- City Lot LF is a closed "old dump" identified by facility ID 94029. Both EDR and the DEP incorrectly map this site 0.242 miles south of the subject property. The database listing does not provide a physical address for this site; however, according to the property assessment records the subject

property does not have an assigned address. Additional support that this site is located on the subject property is provided by city directories that identify the subject property as “City Incinerator” and “City Dump”, “old city dump” is included in the property’s legal property description, the assessor’s website identified the property use as “sewg/waste land” and the property’s use as a dump site was confirmed during the site visit and in an interview with the Palatka Fire Department. Neither the DEP, Putnam County Sanitation Department, nor the Palatka DPW have regulatory records of the types of waste or historical operations at this site. The only regulatory information available on the DEP’s solid waste database confirmed the facility is closed and indicated that no groundwater monitoring is required; this information was confirmed by the Putnam County Sanitation Department. The lack of regulatory files is an indication that property has a history of unregulated dumping that potentially spans nearly a century. Copies of the OCULUS search results are included in Appendix C.

Address: 1016 Ocean St
Site Name(s): Palatka City – Maintenance Lot and Abandoned Lot
Database(s): LUST, UST, AST, Cleanup Sites, DWM Contamination
Relation to subject property: West adjoining property

- The Palatka City – Maintenance Lot and Abandoned Lot are identified by facility IDs 8521034 and 9102245, respectively. However, a review of regulatory files available through the Florida DEP OCULUS system revealed these sites are located on the same property. In 1989, the DEP received notification that petroleum contamination in soil and groundwater was discovered during the closure of two 1,000-gallon unleaded gasoline USTs. Both of the USTs were removed in 1989. In 1991, the DEP received a second notification that contamination was found during the removal of a 3,000-gallon unleaded gasoline UST to the northwest of the other two tanks. A review of the 1991 site assessment reports indicated concentrations of benzene in groundwater exceeded cleanup levels but that contamination had not migrated off the property. Several soil samples and monitoring wells were installed during the assessment. The DEP approved a Remedial Action Plan for groundwater remediation using a pump and treat system in 1993. Internal DEP memorandums from 1993 indicate that while the two 1,000-gallon USTs are eligible for the State’s ATRP the 3,000-gallon UST was not. At this point, the DEP assigned a discrete facility ID to the two 1,000-gallon USTs, which ensured that state funding was appropriated only to those tanks. The DEP database indicates that cleanup work status for the Abandoned Lot is ongoing but inactive and the Maintenance Lot has NREQ status. In 2016, the DEP visited the site and noted the existence of compliance wells and a groundwater pump and treat system, evidence that the system is in place at the facility but has not been operated for a number of years. While there is no documentation that contamination has migrated to the subject property, these sites are on an adjoining and up gradient property and there is no current groundwater monitoring data or

documentation approving the closure of the remediation system in the files. Copies of the DEP regulatory files are included in Appendix C.

3.3.2 Additional Federal, State, Tribal and Local Environmental Record Sources

Local and/or additional federal, state or tribal records are reviewed in the discretion of Ayres Associates to enhance and supplement information obtained from standard environmental record sources. Sources for the records may include but are not limited to municipal, county or regional departments, agencies or electric utility companies.

The Palatka Fire Department did not have documentation of hazardous materials or spills on the subject property, but confirmed in a phone interview that the property was previously used as a dump site. According to the Fire Marshal, transformer oil and used oil may have been burned in pits at the dump for fire training exercises in the 1980s. A summary of the interview provided by the Palatka Fire Department is included in Section 5.2.

Ayres Associates requested information from the Putnam County Sanitation Department, Palatka DPW, and Palatka Building Department. These Putnam County Sanitation Department and Palatka DPW confirmed the subject property was a dump site, but did not have any records of the types of waste or historical operations at the property. Additionally, Ayres Associates requested records from the Putnam County Health Department but has not received a response as of the printing of this report.

3.4 Physical Setting Sources

The sole standard physical setting source is United States Geological Survey (USGS) topographic maps. Additional physical setting sources, including soil, groundwater or bedrock surveys and site specific hydrogeologic data maintained by DEP for known contaminated sites in the area, are reviewed in the discretion of Ayres Associates to identify conditions in which releases of hazardous substances or petroleum products are likely to migrate to the subject property or from or within the subject property into the groundwater or soil. Additional research is included in Appendix D, and topographic maps are included with historical research in Appendix E.

3.4.1 Topography, Soils and Bedrock

Topographical information was obtained from review of USGS topographic maps. Figure 1, which was generated using a 2012 USGS topographic map of the Palatka quadrangle, shows that elevations on the property are between 0 to 20 feet above mean sea level. The east and north portions of the subject property are nearly level with a gentle rise in the southwest toward N. 10th St. The balance of the subject property is gently sloping downward to the northeast toward the St. Johns River.

The Physical Setting Source section of the environmental database report, which describes topographic information, maps the approximate center of the site at 4 feet above mean sea level, and lists a general topographic gradient towards the east/northeast.

The subject property is in the St. Johns River Offset, a broad flat valley carrying the St. Johns River and numerous lakes. The valley and its features resulted from the dissolution of limestone beneath sand and clay units of Hawthorn group, which underlay the valley (U.S. Geological Survey, 2013). Along the St. Johns River, the Hawthorn group is covered by thick deposits of unconsolidated Holocene sediments containing quartz sands, carbonate sands, organics and clay (FDEP, 2016).

The NRCS soil report classifies surface soil on the subject property into three major units: Terria Ceia muck, Placid-Pompano association, and Zolfo-Urban land complex. These soil units develop on the flats and flood plains of marine terraces in climates that receive 37 to 62 inches of precipitation annually and have average temperatures between 68 to 79^{o}F.

Terria Ceia muck covers most of the property's northern half with a small portion in the southwest, both areas have historically been undeveloped. Soils in this classification develop from organic materials, are very poorly drained with shallow water tables (<6 inches) and have high to very high hydraulic conductivities. The muck is typically more than 6 feet thick and often supports vegetation associated with freshwater marshes and ponds, indicators of frequent flooding.

Placid-Pompano association soils are found in the southern half of the property, except along N. 10th Street and a small portion in the southeast. The aerial extent of these soils closely matches that of the historic dump site on the property, likely because the areas to the north and east are inundated and inaccessible most of the year. Soils in this classification are very poorly drained, have high to very high hydraulic conductivities, and develop from sandy marine deposits in areas that frequently flood. These soils are sandy, typically more than 6 feet thick and are found in areas with shallow water tables (<12 inches).

The Zolfo-Urban land complex covers the southwest corner of the property, which contains a baseball diamond and the area along N. 10th Street, which has a history of dumping. According to the NRCS information, this complex consists of two or more soils or miscellaneous areas that are too small or intricate to be shown accurately on a map. Soils in this classification develop from sandy marine deposits, are somewhat poorly drained and have moderately high to high hydraulic conductivities. Soil profiles typically contain more than 6 feet of fine sand and have water tables from 24 to 42 inches below ground surface.

According to the EDR Physical Setting Source Summary, the dominant soil unit mapped at the subject property is hydric and described as a mucky – fine sand.

3.4.2 Surface and Groundwater

General site drainage is east/northeast toward the St. Johns River. According to topographic maps, a pond covers approximately 6 acres in the north portion of the property. Aerial photos indicate the pond is likely inundated at least part of the year. Dense vegetation limits access to remote areas of the property and prevented Ayres Associates from viewing the pond during the site visit.

The deposits of unconsolidated Holocene sediments on the property are part of the surficial aquifer system that covers a large portion of Florida. Aquifers within this system are typically unconfined, less than 50 feet thick and have transmissivities ranging from 1,000 to 10,000 square feet per day. The majority of the water entering the surficial aquifer system is discharged as base flow to streams before it can infiltrate the clayey confining units of the Hawthorn Group, which separate it from the Floridian aquifer system (U.S. Geological Survey, 1990). Although no site-specific information has been reviewed during this assessment, the depth to groundwater is expected to be less than 10 feet and the flow direction is anticipated to generally follow topographic gradient. The general topographic gradient in the area is east/northeast toward the St. Johns River.

FEMA flood plain maps indicate the subject property is within a 100-year flood zone identified as “Zone AE”. FEMA describes Flood Zone AE as an area inundated by 1% annual chance flooding, for which base flood elevations have been determined. This means it has a 1% or greater chance to flood annually.

According to the EDR Physical Setting Source Summary, the property is identified on the National Wetland Inventory. The existence of wetlands on the property is also supported by shading on USGS topographic maps and the presence of hydric soils.

3.5 Historical Records Review

Ayres Associates consulted the following standard historical sources to develop a history of the previous uses of the subject property and surrounding area, in order to help identified the likelihood of past uses having led to RECs in connection with the subject property. All obvious uses of the subject property shall be identified from the present, back to the subject property’s first developed use, or back to 1940, whichever is earlier. Notwithstanding data failure, standard historical sources may be excluded if the sources are not reasonably ascertainable, or if past experience indicates that the sources are not likely to be sufficiently useful, accurate or complete in terms of satisfying the objectives.

3.5.1 Aerial Photographs

Aerial photographs dated 1943, 1953, 1964, 1972, 1980, 1994, 1999, 2005, 2006, 2007, and 2010 were prepared by EDR, and reviewed for evidence of past land use. Aerial photographs are included in Appendix E.

In 1943, the southwest quarter of the property was developed with a dirt access road that extended about 130 feet east from the intersection of Ocean Street and N. 10th Street and terminated at a small rectangular structure, possibly the city incinerator building. Approximately 5.5 acres of vegetation had been cleared east of N. 10th Street and a linear clearing, similar to a utility easement, extended from the building to the southeast adjoining property. In the north, a flat cleared area with scattered vegetation covered approximately 6 acres of the subject property and extended to the north adjoining property. USGS topo maps indicate this feature was a pond.

By 1953, a baseball field was added in the southwest corner of the property and much of the cleared area had revegetated except north of Ocean Street, which had expanded. Development of the southeast adjoining property that was just starting in the 1943 photo had expanded to a moderately sized industrial facility with several buildings and a road that extended to the pond that covered the north portion of the subject property. Based on a review of a 1957 Palatka phonebook, this site was likely a lumber or paper mill operated by Palatka Lumber Company. Although, the exact function of the road is unknown, it provided access to the pond and may have been used as dump site or source of process water for the mill. Additional development had also taken place on the west adjoining properties, but the scale of the photo limited the ability to make detailed observations.

By 1964, the clearing/potential dump area had expanded to more than doubling its size since 1953. A small structure is visible approximately 150 feet north of the baseball field. The majority of the tree cover on the southeast corner of the property remained and the north half of the property was unchanged from the 1953 photo.

In the 1972 photo it appears the dump area had expanded, covering the south half of the subject property, except the baseball field and the southeast corner. Access to the site was provided from the corner of N. 10th Street and Ocean Street.

By 1980, the dump area expanded north and occupied approximately 11 acres of the subject property. A series of access roads from N. 10th Street and the west adjoining City Maintenance Lot lead to five small circular structures, possibly pits or mounds. The large pond on the north property boundary is covered by woody vegetation.

In 1994, the dump area was approximately the same size as in 1980 and was partially vegetated. The structures and pits/mounds were no longer visible. The pond in the north had completely overgrown with woody vegetation.

No other developments were observed in the photos from 1999 through 2010. By 2010, the property was complete reclaimed by thick woody vegetation and is in its current configuration.

3.5.2 Fire Insurance Maps

From 1867 to the present, the Sanborn Map Company of Pelham, New York, produced a uniform series of large-scale maps depicting the commercial, industrial, and residential sections of thousands of cities and towns in the United States. These maps were designed to assist fire insurance agents in determining the degree of hazard associated with a particular property. Maps show the size, shape, and construction of dwellings and commercial or industrial buildings, and depict the locations of any hazardous materials, ASTs and USTs. Maps may also indicate specific property uses or occupants.

Sanborn fire insurance maps were not available for the subject property or adjacent properties.

3.5.3 Property Tax Files

Ayres Associates accessed property tax and assessment records available through the Putnam County GIS Sales and Property Search website on August 4, 2016, to review the file maintained for the subject property. According to records, the City has owned the property since 1900. Copies of pertinent records are included in Appendix E. Copies of pertinent records and a parcel map are included in Appendix A.

3.5.4 Recorded Land Title Records

EDR performed a search for deed of ownership, environmental liens and AULs at the subject property back to January 1, 1955. The search did not locate the deed of ownership or any environmental liens. The property may be subject to AULs that prohibit converting the property's use from public outdoor recreation without written approval from the Secretary of the Interior. The use limitation documents reference Booker Field which is the baseball on the southwest corner of the subject property. The documents reference a map of the subject property but do not indicate if these restrictions apply to entire property or just Booker Field. The AUL documentation did not contain any information useful for identifying RECs. Copies of the environmental lien search report are in Appendix E.

3.5.5 USGS Topographic Maps

USGS topographic maps dated 1912, 1915, 1968, 1980, 1983, 1989, 1992, and 2010 were provided by EDR and reviewed by Ayres Associates for evidence of past land use. Copies of topographic maps are included in Appendix E.

The 1912 and 1915 15-minute series maps depict the subject property as swamp land except for a small corner in the south west adjoining N. 10th and Ocean St.

The 1968, 1980, and 1983 7.5-minute series have detailed shading indicating that the majority of the property is covered by swamp and wooded except for in

the southwest area occupied by the baseball field and dump area. The maps also show a pond or inundated area along the north property boundary.

The 1989/1992 and 2012 map depicts the subject property in its current condition and covered by vegetation except for the baseball field. The property is relatively flat with a topographic high of approximately 20 feet in the southwest corner.

3.5.6 Local Street Directories

City directories have been published for U.S. cities and towns since the 18th century and provide a record of changes in property occupancy at specific locations. Review of historical city directories, therefore, allows for the evaluation of potential liabilities on a property resulting from past activities.

Historical city directories provided by EDR were reviewed by Ayres Associates to identify historical occupants of the subject property and adjacent properties. The following table summarizes city directory search results. Copies of city directory pages are included in Appendix E.

Year	**Ocean St and N. 10th Street**
1936 -1969	City Incinerator
1974 - 1982	City Dump
1989 - 2013	No listing

3.5.7 Building Department Records

The Palatka Building Department does not have any permits to construct, alter, or demolish buildings at the subject property.

3.5.8 Zoning and Land Use Records

Ayres Associates reviewed land use and zoning records available through the Putnam County Property Appraiser website. The property is zoned R-1AA for residential and the use code (96) identifies it as “sewg/waste” land. A copy of the Property Record Card obtained from the Appraiser website is included in Appendix A.

3.5.9 Other Historical Sources

Putnam County Florida, Historical Society – According to the 1928 City Directory available on the Society's website, an incinerator was located on the subject property and accepted up to 35 tons of waste daily. The facility was under the jurisdiction of the Superintendent of Streets. A copy of this document is included in Appendix E.

4.0 Site Reconnaissance

On August 23, 2016, Scott Wilson and Matthew Ashby of Ayres Associates visited the subject property. Ms. Mandi Tucker of the City of Palatka, Florida, granted us access to the former dump site located near Ocean Street and North 10th Street, PID #42-10-27-6850-0890-0000. Ms. Tucker did not accompany Ayres Associates during the site reconnaissance visit. The subject property was accessed via locked gate on a 7-foot chain link fence surrounding the parcel and walking an access roadway in the center or the parcel and viewing interior areas. Temperatures were in the mid-90's, humid, and calm. Photographs taken during the site visit are included in Appendix F.

4.1 General Site Setting

4.1.1 Current Use(s) of the Subject Property

The subject parcel is heavily wooded and largely inaccessible sans a short access road into the interior of the parcel emanating from the rear of the current DPW offices and equipment staging area. The subject parcel is unused and significantly overgrown with thick understory of kudsue and shrubs and a complete over-story of nearly mature trees. The parcel does not appear in any way to be actively in use nor has it likely been used in any fashion for many decades judging from the thick and extensive undergrowth of vegetation on the property.

4.1.2 Past Use(s) of the Subject Property

Historically, the subject property was reportedly used by locals for dumping debris in the interior of the parcel. These reports are historic and were handed down by hearsay over decades of time. Despite posting and restricted access, some locals used the wooded area to dump demolition and construction debris in the interior of the parcel.

4.1.3 Current Uses of Adjoining Properties

The current uses of adjoining properties are identified in the following table.

Direction	Use
North	North of the subject parcel is thickly wooded lands which also extend toward the north and east all the way to the St. Johns River. There are no paved roadways nor active rail corridors north of the subject parcel.
South	Immediately adjacent to and south of the subject parcel is a City park and baseball field (Booker Park). The subject parcel has a large drainage way which abuts the Booker Park parcel and although still heavy with vegetation, the terrain is steep along the two property boundaries.

East	The topography is completely and extensively vegetated all the way from the eastern property boundary until the shoreline of the St. John's River.
West	North 10th Street parallels approximately one half of the western boundary of the subject parcel as well as the City owned Department of Public Works Department Offices and equipment staging yard. The remaining half of the western perimeter of the subject property contains several parcels but again all are heavily vegetated and undeveloped.

4.1.4 Past Uses of Adjoining Properties

A portion of Booker Park on a separate parcel adjoins the subject property to the south and is used as a public park. The vast majority of the surrounding perimeter of the subject property is densely vegetated and undeveloped. One exception is the DPW offices and staging area which adjoins the subject parcel on a portion of its western perimeter.

4.1.5 Current or Past Uses in the Surrounding Area

Other than the developed Booker Park and DPW Offices and Shop area, there are no other surrounding developed properties to the subject parcel. The vast majority of adjoining lands are densely wooded and undeveloped and appear to have always been undeveloped.

4.1.6 Geologic, Hydrogeologic, Hydrologic and Topographic Conditions

The physical setting of the subject property and surrounding area is described in Section 3.4. Based on review of physical setting sources and observations during site reconnaissance, a release of petroleum or hazardous substances in the area is likely to follow hydraulic gradient east-northeast toward the St. Johns River. A release to the surface of the subject property that does not permeate soil is likely to migrate south or easterly with surface topography to a drainage ditch near the southern property boundary.

4.1.7 General Description of Structures

Structures were not observed with the limits of visibility in the dense overgrowth within the subject property. No other man-made structures were evident.

4.1.8 Roads

There was a small, unkempt road/trail which extended into the subject parcel a short distance from the DPW facility. It appears as though a dozer may have

cleared a pathway into the parcel a very long time ago as the roadway edges were bermed approximately 3 feet high about road surface and within the berms was miscellaneous debris, the majority of which appeared to be demolition debris and largely benign.

4.1.9 Potable Water Supply

Potable water supplies are not present within the subject parcel but are available from the adjoining potable water service pipelines serving the surrounding community.

4.1.10 Sewage Disposal System

Neither sanitary sewers nor holding tank/leach fields were observed during the site reconnaissance.

4.2 Interior and Exterior Observations

4.2.1 Current Use(s) of the Subject Property

Currently (and historically) the subject property has been vacant and unoccupied. There is very dense vegetation the entire length and width of the subject property with no visible evidence to suggest the subject property is being used in any way nor having been used in any manner for decades.

4.2.2 Past Use(s) of the Subject Property

The general past use of the subject property is described in Section 4.1.2. Reportedly, the interior of the subject property had been used in an unauthorized manner by local residents for illegal dumping. The City secured the access to the subject property many, many years ago which ceased the illegal dumping. During the site reconnaissance, evidence of historic dumping of what appears to be demolition debris such as concrete, clay tile pieces, hub caps, broken glass, and some but limited volumes of domestic refuse. As determined by the significant vegetative overgrowth upon and over the disposal areas, it can be assumed that this domestic and demolition waste has been in this location for many decades.

4.2.3 Hazardous Substances and Petroleum Products

Neither anything appearing to contain either hazardous materials or petroleum products were observed during the site walk over in the general disposal area. Although it should be noted that construction and demolition debris observed during the site visit may include asbestos containing building materials, lead-based paint and other hazardous substances. Also, according to the Palatka Fire Department, used oil may have been burned in pits on the property for fire training exercise in the 1980s.

4.2.4 Storage Tanks

No storage tanks were observed during the site reconnaissance. However, due to the property's history of dumping, discarded tanks may have been buried or placed in areas that were not viewed during the site visit.

4.2.5 Odors

Strong, pungent, or noxious odors were not observed during site reconnaissance or indicated by interviews or record reviews.

4.2.6 Pools of Liquid

Pools of liquid were not observed during site reconnaissance or indicated by interviews or record reviews.

4.2.7 Drums

Drums were not observed during site reconnaissance. However, due to the property's history of dumping, discarded drums may have been buried or placed in areas that were not viewed during the site visit.

4.2.8 Unidentified Substance Containers

Unidentified substance containers were not observed during site reconnaissance or indicated by interviews or record reviews.

4.2.9 Polychlorinated Biphenyls (PCBs)

Equipment or containers likely to contain PCBs were not observed during site reconnaissance. However, according to the Palatka Fire Department, transformer oil may have been burned in pits at the dump for fire training exercises in the 1980s. Transformer oil has the potential to contain PCBs.

4.3 Interior Observations

4.3.1 Heating and Cooling

Not applicable. There were no structures on the subject parcel.

4.3.2 Stains or Corrosion

None were observed.

4.3.3 Drains and Sumps

None were observed.

4.4 Exterior Observations

4.4.1 Pits, Ponds or Lagoons

The existence of a pond on the north property boundary is indicated on aerial photographs and USGS topographic maps. However, dense vegetation limited access and the pond was not observed during the site visit.

4.4.2 Stained Soil or Pavement

None were observed.

4.4.3 Stressed Vegetation

None was observed. The vegetation growing through and around the disposed demolition material was robust and healthy with no evidence of stress visible.

4.4.4 Solid Waste

Solid waste material was common along the edges (berms) of a short trail/pathway into the center of the subject parcel. Waste material found in and around the bermed areas were generally associated with demolition type debris such as broken concrete, cinder block, clay and ductile tile, roofing material, a few hub caps, yard waste, broken glass, etc. All the debris that could be readily observed was assumed to be innocuous in nature.

4.4.5 Wastewater

Evidence of wastewater discharge into a drain, ditch, underground injection system, or stream on or adjacent to the subject property was not observed during the site reconnaissance or indicated by interviews and record reviews. A large drainage draw was observed along the southern boundary of the subject property near Booker Park. The low-lying drainage likely carries area storm water over the extent of the rainy season in this area.

4.4.6 Wells

None were observed.

4.4.7 Septic Systems

None were observed.

5.0 Interview Summaries

5.1 Past and Present Owners and Occupants

Ms. Mandi Tucker, Resource Coordinator, City of Palatka, was interviewed via phone and site during site reconnaissance. Ms. Tucker indicated that the property was previously used as dump site but did not have any specific knowledge of the types of waste or hazardous substances on the property.

5.2 State and Local Government Officials

Mr. Keith Grimes, Fire Marshall, Palatka Fire Department, was interviewed via phone on September 15, 2016. According to Mr. Grimes, the department does not have any records of hazardous substances or releases at the subject property. However, he did believe that the department may have burned transformer oil and used oil at the property during department training exercises in the 1980s. Mr. Grimes was also aware of the property's historical use as a dump site.

Ms. Nancy Harris, Putnam County Sanitation Department, was interviewed via phone on September 16, 2016. According to Ms. Harris, the subject property was historically a dump site and it location is known but the department doesn't have any records of the types of wastes or years of operation for the facility.

5.3 Others

No others were interviewed during this assessment.

6.0 Non-Scope Services

Additional services or recommendations were not requested by the User. Recommendations are not required under ASTM Practice E1527-13 but may be provided upon request.

7.0 Evaluation

7.1 Summary of Findings

The following summary of findings is based on a site reconnaissance to view the subject property and adjoining properties, review of environmental and historical records, and interviews conducted during the preparation of this Phase I ESA report:

- The subject property consists of one 31.6-acre parcel in the North ½ of Section 42, Township 10 South, Range 27 East, in the City of Palatka, Putnam County, Florida. The property does not have a physical address but is identified by parcel number 42-10-27-6850-0890-0000 and a legal description of "DICKS MAP OF PALATKA MB2 P46, BLKS 89 90 91 92 99 100 101, 102 109 110(EX OR820 P1397), 111 112 119 120 121 122(BOOKER, FIELD/LEFTY TURNER PARK IS ON, BLK 90 REST IS OLD CITY DUMP & SWAMP)".

- The subject property is located east of the intersection of N. 10th Street and Ocean Street and is largely covered by thick vegetation. The balance of the property is gently sloping downward to the east/northeast toward the St. Johns River with elevations between 0 and 20 feet. Low lying areas in the east are swampy, and a pond covers approximately 6 acres along the north property line. Booker Field is in the southwest corner. An old dump site containing construction debris and general refuse occupies approximately 11 acres in the south and central portions of the property. Access is limited by a locked gate and 7-foot chain link fence surrounding the dump area. The interior of the property is largely inaccessible except by a short access road from the current Department of Public Works (DPW) offices and equipment staging area. There are currently no buildings or known utilities on the property.

- With the exception of Booker Field, which contains a baseball field and is used for recreational purposes, the property does not appear to have been used for many decades. The portions occupied by the former dump site are fenced to discourage illegal dumping.

- The City purchased the subject property around 1900. While city directories identified the property address as the city incinerator from 1928 to 1969 and city dump from 1974 to 1982, none of the historical sources reviewed revealed the property's use prior to 1928. Aerial photographs indicate that two small structure were constructed on the property; one prior to 1943 and the other prior to 1964. Both have been demolished. Between 1943 and 1980, approximately 11 acres were cleared for dumping on the south and central portions of the property. The dump site was crossed by network of access roads and contained several pits or mounds. Between 1943 and 1964, a moderately sized industrial facility on an adjoining property expanded and covered a small area on the southeast corner of the subject property. During this time, a road extended from the adjoining industrial facility to the pond on the north portion of the subject property. The dump area on the

subject property reached its maximum extent around 1980 and has laid idle since around 1994.

- The site visit and records reviews identified solid waste on approximately 11 acres of the subject property. The majority of the waste appeared to be construction and demolition debris that may include asbestos containing building materials, lead-based paint, and discarded drums or tanks containing hazardous substances. Additionally, waste and ash associated with the historical operation of the city incinerator likely remains on the property.

- The subject property is identified on the Florida solid waste facilities and landfill sites (SWF/LF) database as City Lot LF. This is a closed "old dump" identified by facility ID 94029. Both Environmental Data Resources (EDR) and the Florida Department of Environmental Protection (DEP) incorrectly map this site 0.242 miles south of the subject property. Neither the DEP, Putnam County Sanitation Department nor the Palatka DPW have regulatory records of the types of waste or historical operations at this site. The lack of regulatory files is an indication that property has a history of unregulated dumping that potentially spans nearly a century.

- The Palatka City – Maintenance Lot and Abandoned Lot are on a west adjoining property and identified on the Underground Storage Tank (UST) and Leaking Underground Storage Tank (LUST) databases. The DEP received notification that petroleum contamination in soil and groundwater was discovered during the closure of two 1,000-gallon and one 3,000-gallon unleaded gasoline USTs. The two 1,000-gallon USTs are eligible for the State's Abandoned Tank Restoration Program (ATRP) but the 3,000-gallon UST is not. To correctly appropriate state funds, the DEP assigned a discrete facility ID to the two 1,000-gallon USTs and created a regulatory distinction between the Maintenance Lot and Abandoned Lot. The DEP database indicates that cleanup work status for the Abandoned Lot is ongoing, but inactive and the Maintenance Lot has clean up Not Required (NREQ) status. In 2016, the DEP visited the site and observed compliance wells and a groundwater remediation system but noted the system has not been operated for a number of years.

- City directories identify the subject property as "City Incinerator" and "City Dump". Additionally, "old city dump" is included in the property's legal property description. The assessor's website identified the property use as "sew/waste land" and the property's use as a dump site was confirmed during the site visit and in an interview with the Palatka Fire Department.

- According to an interview with the Palatka Fire Department, transformer oil and used oil may have been burned in pits at the dump for fire training exercises in the 1980s. Five small circular structures, possibly pits or mounds, were identified in a 1980 aerial photograph.

- The property may be subject to AULs that prohibit converting its use from public outdoor recreation without written approval from the Secretary of the Interior. The use limitation documents reference Booker Field, which is the baseball field on the

southwest corner of the subject property. The documents reference a map of the subject property but do not indicate if these restrictions apply to entire property or just Booker Field.

- The property is identified on the National Wetland Inventory and the existence of wetlands on the property is further supported by shading on USGS topographic maps and the presence of hydric soils.

7.2 Conclusions and Opinions

We have performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E1527-13 of N. 10th Street and Ocean Street, Palatka, F, the subject property. Any exceptions to, or deletions from, this practice are described in Section 1.6 of this report. This assessment has revealed no evidence of recognized environmental conditions in connection with the subject property except for the following:

7.2.1 Recognized Environmental Conditions

- The likely presence of hazardous materials resulting from a nearly century long history of unregulated solid waste dumping and the four-decade operation of the city incinerator at the subject property is considered a REC. This REC includes the reported burning of transformer oils or other waste oils at the property.

- Historical fueling operations at adjoining Palatka City Maintenance and Abandoned Lot have contaminated the groundwater up gradient of the subject property with petroleum, and one of the investigations currently has an open regulatory status. While there is no documentation that groundwater on the subject property has been impacted by the release, the operation of a remediation system indicates the release was significant enough to require clean up and may have impacted groundwater on the subject property. Potential petroleum contamination in groundwater on the subject property is considered a REC. Based on the direction of groundwater flow and distance from the LUSTs, vapor intrusion is a concern.

7.2.2 Controlled Recognized Environmental Conditions

- No controlled RECs have been identified by this assessment.

7.2.3 Historical Recognized Environmental Conditions

- No historical RECs have been identified by this assessment.

7.3 Additional Information

7.3.1 Data Gaps

A data gap is considered the inability to obtain information required by ASTM E1527-13 despite good faith efforts by Ayres Associates to gather such information. The following data gaps were identified during the preparation of this Phase I ESA:

- Ayres Associates was unable to view the entire property including several features identified on aerial photographs because of dense vegetation. These features include a pond, two former structures and five pits/mounds. Ayres Associates considers this a significant data gap that limits the conclusions of this assessment.

- Ayres Associates was unable to determine all prior uses of the subject property. The earliest useful historical source obtained was a 1928 city directory identified that at least a portion of the subject property was developed for use as the city incinerator. The absence of historical sources indicating development prior to 1928 is considered a data failure but is not anticipated to significantly limit the conclusions of this Phase I ESA.

7.3.2 Business Environmental Risks

Business Environmental Risks are risks which can have a material environmental or environmentally-driven impact on the business associated with the current or planned use of a parcel of commercial real estate, not necessarily limited to those environmental issues required to be investigated in this practice.

- During the site visit and records reviews, Ayres Associates identified solid waste on approximately 11 acres of the subject property. The majority of the waste appeared to be construction and demolition debris but may include asbestos containing building materials, lead-based paint, and other hazardous substances. The cost to manage or remove these materials prior to redevelopment is considered a BER.

- The subject property is identified on the National Wetland Inventory. The existence of wetlands on the property is further supported by shading on USGS topographic maps and the presence of hydric soils. Permitting and regulatory issues associated with wetlands can impede or increase the cost to develop a property, and are considered a BER.

- The property may be subject to AULs that prohibit converting its use from public outdoor recreation without written approval from the Secretary of the Interior. The use limitation could restrict the options available for redevelopment, and is considered a BER.

7.3.3 Additional Investigation

This section is included to provide an opinion in the unusual circumstance that greater certainty is required regarding the RECs identified by this Phase I ESA. Inclusion of such an opinion does not render the assessment incomplete, nor does it constitute a recommendation for a Phase II ESA or other assessment activities.

- Remedial action is ongoing at the Abandoned City Lot (FID 9102245) on the west adjoining property. A Remedial Action Plan (1993) and field inspection report (2016) document the installation of a groundwater remediation system on the property and note that it is no longer in operation; however, the DEP files reviewed by Ayres Associates do not contain any operation logs or monitoring data from 1993 to 2016. Additional investigation is needed to determine the extent of residual groundwater contamination on the property and if the DEP approved the remediation system shutdown.

- Between 1943 and 1964, a road extended from a moderately sized industrial facility on the southeast adjoining property to the pond on the north portion of the subject property. The purpose of the road on the east adjoining property is unknown and could have been for dumping in the pond. While the existence of the road does not necessarily indicate the presence dumping, its exact function is unknown. The function of the road should be investigated to rule out any possible connection with a dumping on the subject property.

Acknowledgement

On behalf of the City of Palatka, Ayres Associates would like to extend its sincere appreciation to the U.S. Environmental Protection Agency (U.S. EPA) for their funding support and to the Florida Department of Environmental Protection (DEP) for their technical assistance. The U.S. EPA Brownfield Site Assessment Grant Program not only graciously awarded the City of Palatka this grant to assist in funding the environmental activities outlined in this report, but has continued to support the City's efforts as they move toward redevelopment. Without this funding support, this Brownfield site may have laid idle indefinitely. We are indebted to the U.S. EPA for making financial assistance available for this important redevelopment project.

7.4 References

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Environmental Data Resources, Inc. United States Geological Survey Topographic Maps. 1912, 1915, 1968, 1980, 1983, 1989, 1992 and 2012.

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Florida Department of Environmental Protection. Contamination Locator Map. http://webapps.dep.state.fl.us/DepClnup/welcome.do

Florida Department of Environmental Protection. Consolidated OCULUS System. http://depedms.dep.state.fl.us/Oculus/servlet/login

Florida Department of Environmental Protection. Solid Waste Facility Locator. http://ca.dep.state.fl.us/mapdirect/?focus=solidwaste

Florida Department of Environmental Protection. Solid Waste Facility Reports. https://fldeploc.dep.state.fl.us/www_wacs/

Florida Department of Environmental Protection. Geologic Maps and Cross Sections. http://ca.dep.state.fl.us/mapdirect/?focus=fgsgeologicmaps

Miller, James A. 1990. Groundwater Atlas of the United States. United States Geological Survey, Segment 6 Alabama, Florida, Georgia, and South Carolina, Hydrologic Investigations Atlas 730-G.

Putnam County GIS Sales and Property Search Website. http://pa.putnam-fl.com/index.php/gis-mapping-sales

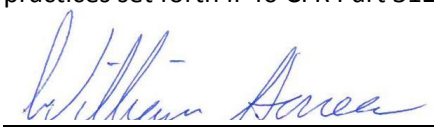
United States Department of Agriculture Natural Resources Conservation Service. Custom Soil Resource Report for Putnam County, Florida. August 4, 2016.

United States Geological Survey. Mineral Resources On-Line Spatial Data. http://mrdata.usgs.gov/geology/.

7.5 Environmental Professional Statement

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in § 312.10 of 40 CFR § 312.

I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth if 40 CFR Part 312.



William Honea – Environmental Scientist — September 26, 2016 Date

Mitchell Banach – Environmental Scientist — September 26, 2016 Date

Resumes of environmental staff that prepared this report are in Appendix G.

Appendix A

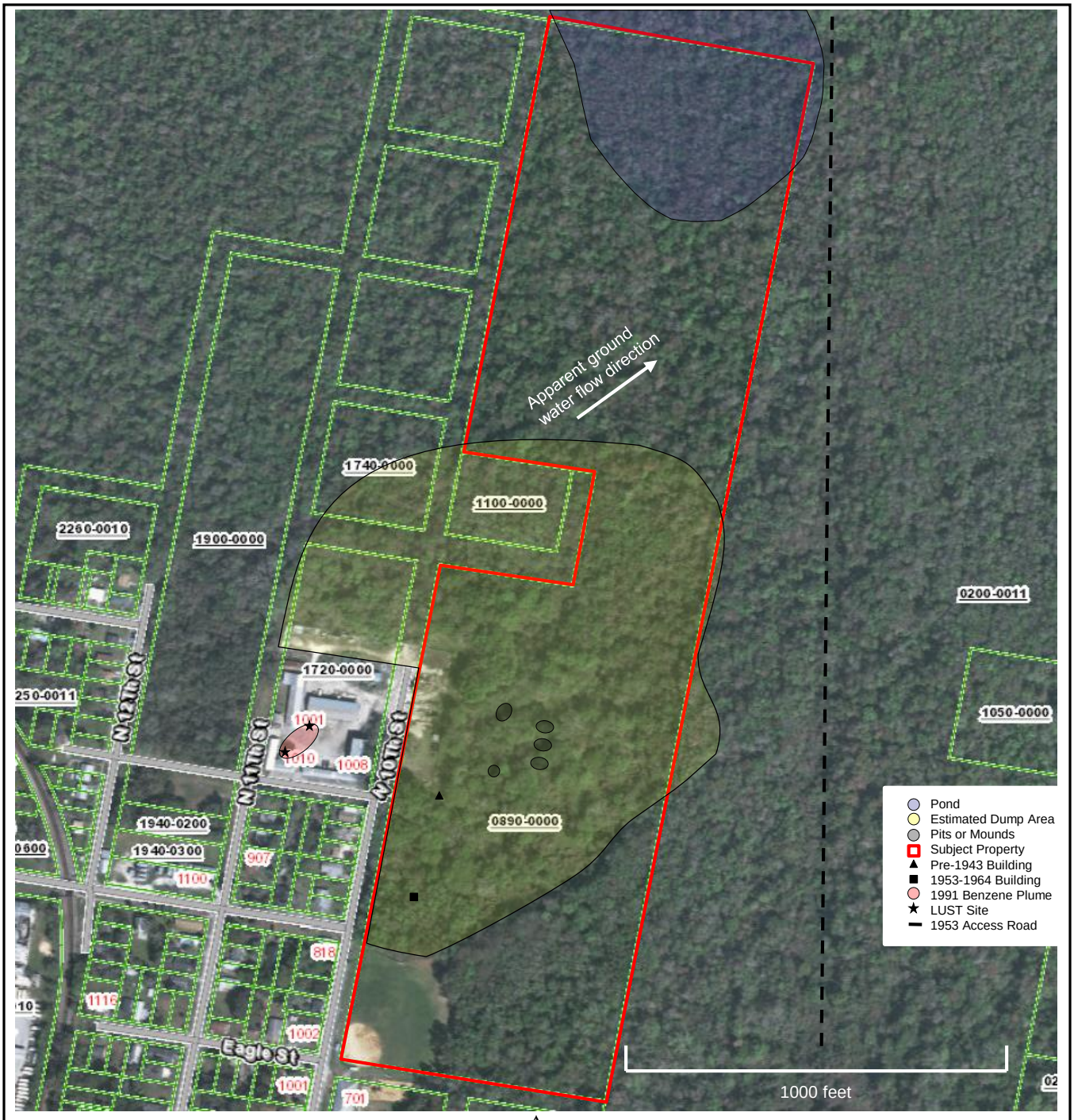
Site Figures & Property Data

Source: USGS 7.5-Minute Series Topographic Quadrangle. Palatka, FL, 2012

Figure 1 – Location Map
Phase I Environmental Site Assessment
Ocean St and N 10th St
Palatka, Florida
September 2016

19-0668.25

AYRES ASSOCIATES



Source: Putnam County GIS, 2014 aerial photograph

Figure 2 – Site Map
Phase I Environmental Site Assessment
Ocean St and N 10th St
Palatka, FL
September 2016

19-0668.25

AYRES ASSOCIATES

Parcel	42-10-27-6850-0890-0000
Owner	CITY OF PALATKA
Mailing	C/O CITY HALL 201 N 2ND ST PALATKA, FL 32177
911	0 Unassigned Location RE, []
Description	DICKS MAP OF PALATKA MB2 P46, BLKS 89 90 91 92 99 100 101, 102 109 110(EX OR820 P1397), 111 112 119 120 121 122(BOOKER, FIELD/LEFTY TURNER PARK IS ON, BLK 90 REST IS OLD CITY DUMP &, SWAMP)
Orig Parcel	

Parcel Sales Data

Book	Page	Instrument	Month	Year	QSCD	Price
0	0	UND	Jan	1900		$0

Exemption	Amount	Remainder	Owner %	Applied To
WHX	$46,240	$0		All Districts

Improvement Value	$0	**Use Code**	09600
OBXF Value	$0	**Improvements**	0
Land Value	$46,240	**Location**	City of Palatka
Market Value	$46,240	**Total Acres**	31.60
Just Value CU		**Zoning**	R-1AA
CU Value		**FLUM**	RL
Market Adjusted	$46,240		

Parcel Value Breakdown

Taxing District	Assessed Limited	Minus(-) Exemptions	Taxable Value
County	$46,240	$46,240	$0
St Johns River WMD	$46,240	$46,240	$0
Palatka	$46,240	$46,240	$0
School	$46,240	$46,240	$0

Outbuildings and Extra Features

Line	Code	Units	Length	Width	Sq Ft	Rate	Value
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

Primary Improvement

Desc			Title No.		Substructure		Cabinet & Mill	
Class		Dep Rate	Model		Floor System		Floor Finish	
Type		Yr Built	RP No. or Tag		Exterior Walls		Interior Finish	
Adj Base Rate		Eff Yr Built	Length		Height In Feet		Paint & Decor	
Base Sq Ft		Obs Cond	Width		Party Wall %		Plumbing Fixt	
% Good		Replace Cost	Lot #		Sub Frame		Bath Tile	
Quality		Dep Rep Cost	Bed/Bath		Roof Framing		Heating & Air	
			Attachments		Roof Cover		Electrical	
			Account		Bed/Bath		Corners	

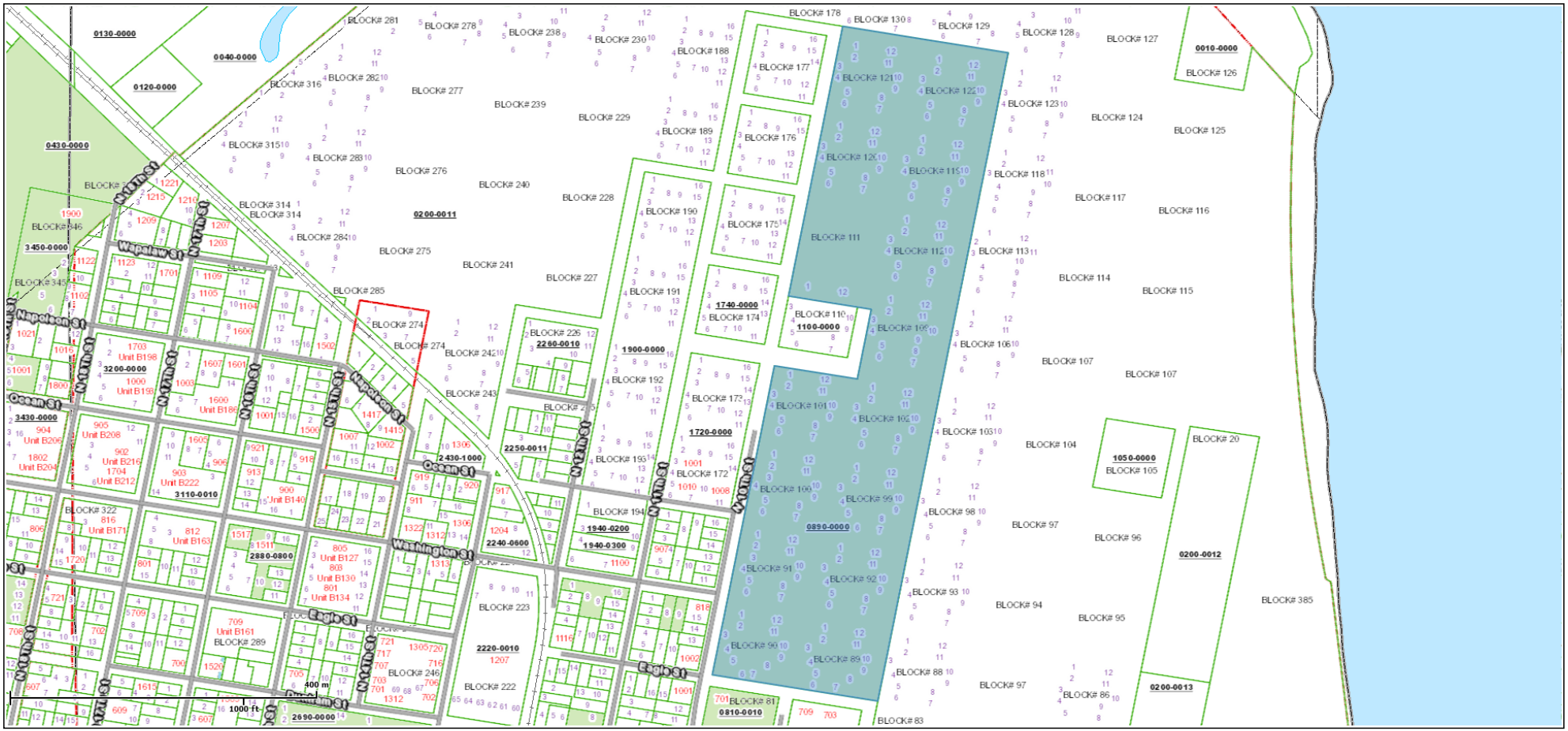
Improvement Area & Additions

Desc	% Rate	Rate	Sq Ft	Cost

Land Lines

Line	Code	Depth Chart	Depth In Feet	Corner Factor	Depth Factor	Cond	Unit Price	Adj Unit Price	Units	Just Value	CU Unit Price	CU Value	Just Value CU	Taxable Value
1	012V		0	100%		C080	4,000	3,200	12					38,400
2	003V		0	100%		C010	4,000	400	19.6					7,840
3														
4														
5														
6														
									Total	**0**		**0**	**0**	**46,240**

NOTICE: This is an interim Putnam County file. Property assessment information is subject to change until it is certified in October.



PUTNAM COUNTY GIS
GEOGRAPHIC INFORMATION SYSTEMS

Parcel Map

Ocean St & N 10th St

Appendix B

Scope of Services & User-provided Information

Scope of Services

Ayres Associates will conduct a Phase I ESA following guidelines presented in ASTM E1527-13 *Standard Practices for Environmental Site Assessments: Phase I ESA Process*. The following services will be provided:

- Research the history of the property to identify previous uses and ownership history dating back 60 years. This task includes interviewing property owners/occupants and other knowledgeable individuals to identify activities that may have adversely affected the property. Property records to be reviewed will include client records, building permits, and/or property deeds.

- Review regulatory agency documents and interview agency staff to identify adverse environmental conditions affecting the subject property including the quality of potable water supplies and known releases of hazardous materials.

- Review federal, state, and local documents and databases to locate known hazardous waste sites and hazardous waste treatment, storage, and disposal (TSD) facilities within 1-mile of the property; registered waste disposal sites and leaking underground storage tanks (LUSTs) within ½-mile of the property; and hazardous substance spills, registered underground (USTs) and above ground storage tanks (ASTs), the national priorities listing (NPL), comprehensive environmental response, compensation, and liability act listing (CERCLIS) and hazardous waste handling facilities on the subject property or adjoining properties.

- Review published geological and hydrological reports for information regarding the site and surrounding areas.

- Interview local, county, or state personnel as appropriate to research property history.

- Review environmental licenses, permits, or orders issued with respect to the real property.

- Conduct a site reconnaissance to observe the environmental conditions of the properties including improvements. During the site reconnaissance, the condition of surface features observed on the property (distressed vegetation, stained surface soil, depressions, etc.) will be noted and photographed. Access to the property will be arranged by the City of Palatka and/or its Community Partners.

- Render a professional opinion of environmental conditions affecting the subject property and offer recommendations for further environmental site assessment activities that may be necessary and appropriate.

- Document results of the ESAs in a separate report for each site. Reports will include results, conclusions, recommendations for further action, and color photographs and other graphics illustrating the property and recognized environmental conditions, as appropriate. Two original signature copies of each report will be delivered to the client and one additional copy will be provided for submittal to EPA.

An ASTM E 1527-13 ESA does not include an asbestos inspection, asbestos sampling, mold sampling, analyzing drinking water or painted surfaces for lead content, a naturally occurring radioactive materials (NORM) survey, wetlands survey, or any other environmental sampling or testing (e.g., soil, water, air, or building materials).

ASTM Practice E1527-13
USER QUESTIONNAIRE

INTRODUCTION

In order to quality for one of the *Landowner Liability Protections (LLPs)*[1] offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the "*Brownfields Amendments")*[2], the *user* must provide the following inquiries required by 40 CFR 312.25, 312.28, 312.29, 312.30 and 312.31. These inquires must also be conducted by EPA Brownfield Assessment and Characterization grantees. The *user* should provide the following information to the *environmental professional.* Failure to provide this information could result in a determination that "*all appropriate inquiries"* is not complete.

(1) **Environmental liens that are filed or recorded against the *property* (40 CFR 312.25).**
Did a search of *recorded land title records* (or judicial records where appropriate[3]) identify any environmental liens filed or recorded against the *property* under federal, tribal, state or local law?
Unknown

(2) **Activity and land use limitations (AULs) that are in place on the *property* or that have been filed or recorded against the *property* (40 CFR 312.26(a)(1)(v) and (vi)).**
Did a search of *recorded land title records* (or judicial records where appropriate[3]) identify any AULs, such as *engineering control*s, land use restrictions or *institutional controls* that are in place at the *property* and/or have been filed or recorded against the *property* under federal, tribal, state or local law?
Unknown

(3) **Specialized knowledge or experience of the person seeking to qualify for the LLP (40 CFR 312.28).**
Do you have any specialized knowledge or experience related to the *property* or nearby properties? For example, are you involved in the same line of business as the current or former *occupants* of the *property* or an *adjoining property* so that you would have specialized knowledge of the chemicals and processes used by this type of business?
Unknown

(4) **Relationship of the purchase price to the fair market value of the *property* if it were not contaminated (40 CFR 312.29).**
Does the purchase price being paid for this *property* reasonably reflect the fair market value of the *property*? If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the *property*?
Unknown

(5) **Commonly known or *reasonably ascertainable* information about the property (40 CFR 312.30).**
Are you aware of commonly known or *reasonably ascertainable* information about the *property* that would help the *environmental professional* to identify conditions indicative of releases or threatened releases? For example,
a). Do you know the past uses of the *property*?
This parcel has been owned by the City since the late 1800s early 1900s. Historically it was a dumpsite – there is now a fence around the parcel to discourage dumping here.
b). Do you know the specific chemicals that are present or once were present at the *property*?
Unknown
c). Do you know of spills or other chemical releases that have taken place at the *property*?
Unknown
d). Do you know of any environmental cleanups that have taken place at the *property*?
Unknown

(6) **The degree of obviousness of the presence or likely presence of contamination at the *property*, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31).**
Based on your knowledge and experience related to the *property* are there any *obvious* indicators that point to the presence or likely presence of contamination at the *property?*
Unknown

Additional Information

In addition, certain information should be collected, if available, and provided to the *environmental professional* selected to conduct the *Phase I Environmental Site Assessment*. This information is intended to assist the *environmental professional,* but is not necessarily required to qualify for one of the LLPs. The information includes:

a) Reason why the Phase I is being performed, to ascertain whether there is contamination at the site

b) Type of *property* and type of *property* transaction, for example, sale, purchase, exchange, etc.
Property use: 09600 Sewg/Waste Land

c) Complete and correct address for the *property* (a map or other documentation showing *property* location and boundaries is helpful), PID 42-10-27-6850-0890-0000; Ocean Street & N 10th Street

d) Scope of services desired for the Phase I (including whether any parties to the *property* transaction may have a required standard scope of services on whether any considerations beyond the requirements of Practice E 1527 are to be considered), Not Known

e) Identification of all parties who will rely on the Phase I *report*, City of Palatka

f) Identification of the site contact and how the contact can be reached, City of Palatka; Jonathan Griffith; 386-329-0107

g) Any special terms and conditions which must be agreed upon by the *environmental professional,* Unknown

h) Any other knowledge or experience with the *property* that may be pertinent to the *environmental professional* (for example, copies of any available prior *environmental site assessment reports,* documents, correspondence, etc., concerning the *property* and its environmental condition). None known

Printed Name: Mandi Tucker

Title: Cultural Resources

Signature: _____

Date: _____

[1]*Landowner Liability Protections, Protections, or LLPs,* is the term used to describe the three types of potential defenses to Superfund liability in EPA's *Interim Guidance Regarding Criteria Landowners Must Meet in Order to Qualify for Bona Fide Prospective Purchaser, Contiguous Property Owner, or Innocent Landowner Limitations on CERCLA Liability ("Common Elements"* Guide) issued on March 6, 2003.

[2]P.L. 107-118.

[3]In certain jurisdictions, federal, tribal, state, or local statutes, or regulations specify that environmental liens and AULs be filed in judicial records rather than in land title records. In such cases judicial records must be searched for environmental liens and AULs.

Appendix C

Regulatory Research

Ocean Street & North 10th Street
N. 10th Street
Palatka, FL 32177

Inquiry Number: 4692029.12s
August 04, 2016

EDR Summary Radius Map Report

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

TABLE OF CONTENTS

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

N. 10TH STREET
PALATKA, FL 32177

COORDINATES

Latitude (North):	29.6583870 - 29° 39' 30.19''
Longitude (West):	81.6353000 - 81° 38' 7.08''
Universal Tranverse Mercator:	Zone 17
UTM X (Meters):	438516.1
UTM Y (Meters):	3280922.8
Elevation:	4 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property:	TP
Source:	U.S. Geological Survey

Target Property:	NE
Source:	U.S. Geological Survey

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20151101
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
N. 10TH STREET
PALATKA, FL 32177

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	PALATKA CITY-MAINTEN	1016 OCEAN ST	LUST, UST, AST, CLEANUP SITES, DWM CONTAM	Higher	402, 0.076, WSW
A2	PALATKA CITY - ABAND	1016 OCEAN ST	LUST, UST	Higher	402, 0.076, WSW
3	PORT CONSOLIDATED IN	1100 WASHINGTON ST	LAST, CLEANUP SITES, DWM CONTAM	Higher	556, 0.105, SW
B4	NEW BEST PACKERS	1122 BRONSON ST	AST	Higher	968, 0.183, SW
B5	THE NEW BEST PACKERS	1122 BRONSON ST	RCRA-CESQG	Higher	968, 0.183, SW
6	PUTNAM COUNTY DISTRI	801 N 13TH ST	RCRA-SQG, LUST, UST, AST, FINDS, Financial...	Higher	1090, 0.206, SW
7	AMTRAK DERAILMENT SI	WASHINGTON ST & 13TH	TANKS	Higher	1099, 0.208, WSW
8	CITY LOT LF (COUNTY		SWF/LF	Higher	1280, 0.242, South
C9	FORMER DEE DEE BAR	1100 MADISON STREET	US BROWNFIELDS	Higher	1503, 0.285, SSW
C10	ENDOWMENT FOUNDATION	1100 MADISON ST	LUST, UST, Financial Assurance	Higher	1503, 0.285, SSW
D11	PALATKA GAS AUTHORIT	518 MAIN ST	LUST, UST, CLEANUP SITES, DWM CONTAM, RESP PARTY	Higher	1977, 0.374, South
D12	PALATKA GAS WORKS	512A MAIN STREET	EDR MGP	Higher	1982, 0.375, South
D13	PALATKA GAS WORKS	512 MAIN ST.	SEMS-ARCHIVE	Higher	1983, 0.376, South
D14	CREECHS IDEAL LAUNDR	501 MAIN ST	PRIORITYCLEANERS, CLEANUP SITES, DRYCLEANERS, DWM	Higher	2035, 0.385, SSE
E15	BOB & DOTS SHOPETTE	1000 REID ST	LUST, UST, AST, CLEANUP SITES, DWM CONTAM	Higher	2190, 0.415, SSW
E16	PALATKA GAS STATION	900 REID ST	LUST, UST, CLEANUP SITES, DWM CONTAM, Financial...	Higher	2191, 0.415, SSW
F17	R & R AUTOMOTIVE AND	696 STATE ROAD 20	SWF/LF	Higher	2215, 0.420, South
18	819 REID ST LLC	819 REID ST	LUST, UST, CLEANUP SITES, DWM CONTAM, Financial...	Higher	2232, 0.423, South
F19	BAGGS WHOLESALE CO I	608 REID ST	SWF/LF	Higher	2270, 0.430, South
F20	SUNRISE FOOD STORE #	623 REID ST	LUST, UST, CLEANUP SITES, DWM CONTAM, Financial...	Higher	2297, 0.435, South
G21	LAIBLS TIRE KING	514 REID ST	SWF/LF, LUST, UST	Higher	2362, 0.447, South
G22	GUARDIAN AD LITEM BU	523 REID ST	LUST, UST, Financial Assurance	Higher	2390, 0.453, South
23	BELLSOUTH TEL INC #3	319 MAIN ST	LUST, UST, AST, Financial Assurance, TIER 2	Higher	2469, 0.468, SSE
H24	GREYHOUND BUS STATIO	700 ST JOHNS AVE	LUST, UST, CLEANUP SITES, DWM CONTAM	Higher	2565, 0.486, South
I25	PALATKA CITY	8TH ST & ST JOHNS AV	LUST, UST	Higher	2578, 0.488, South
I26	HERSCHELS CUSTOM GLA	801 SAINT JOHNS AVE	LUST, UST	Higher	2597, 0.492, South
H27	PALM FURNITURE	701 ST JOHNS AVE	LUST, UST, CLEANUP SITES, DWM CONTAM	Higher	2606, 0.494, South
H28	PALATKA CITY	7TH ST	LUST, UST	Higher	2621, 0.496, South
29	PUTNAM CNTY COURTHOU	401 REID ST	LUST, UST	Higher	2634, 0.499, SSE
30	HEADSTROM & SMITH	601 ST JOHNS AVE	LUST, UST, CLEANUP SITES, DWM CONTAM	Higher	2634, 0.499, South
31	RIVERFRONT PARK GASI	INTER. OF RIVER AND	EDR MGP	Higher	3683, 0.698, SSE

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: A review of the SEMS-ARCHIVE list, as provided by EDR, and dated 03/07/2016 has revealed that there is 1 SEMS-ARCHIVE site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
PALATKA GAS WORKS	512 MAIN ST.	S 1/4 - 1/2 (0.376 mi.)	D13	12

Federal RCRA generators list

RCRA-SQG: A review of the RCRA-SQG list, as provided by EDR, and dated 12/09/2015 has revealed that there is 1 RCRA-SQG site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
PUTNAM COUNTY DISTRI	***801 N 13TH ST***	***SW 1/8 - 1/4 (0.206 mi.)***	***6***	***9***

RCRA-CESQG: A review of the RCRA-CESQG list, as provided by EDR, and dated 12/09/2015 has revealed that there is 1 RCRA-CESQG site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
THE NEW BEST PACKERS	1122 BRONSON ST	SW 1/8 - 1/4 (0.183 mi.)	B5	9

EXECUTIVE SUMMARY

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: A review of the SWF/LF list, as provided by EDR, has revealed that there are 4 SWF/LF sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CITY LOT LF (COUNTY Database: SWF/LF, Date of Government Version: 04/18/2016 Facility-Site Id: 94029 Class Status: CLOSED, NO GW MONITORING (J)		S 1/8 - 1/4 (0.242 mi.)	8	10
R & R AUTOMOTIVE AND Database: SWF/LF, Date of Government Version: 04/18/2016 Facility-Site Id: 101419 Class Status: NOT YET DETERMINED (D) Class Status: INVALID COMPLAINT (M) Class Status: INACTIVE (I)	696 STATE ROAD 20	S 1/4 - 1/2 (0.420 mi.)	F17	14
BAGGS WHOLESALE CO I Database: SWF/LF, Date of Government Version: 04/18/2016 Facility-Site Id: 96670 Class Status: INACTIVE (I)	608 REID ST	S 1/4 - 1/2 (0.430 mi.)	F19	15
LAIBLS TIRE KING Database: SWF/LF, Date of Government Version: 04/18/2016 Facility-Site Id: 100612 Class Status: INACTIVE (I)	***514 REID ST***	***S 1/4 - 1/2 (0.447 mi.)***	***G21***	***16***

State and tribal leaking storage tank lists

LUST: A review of the LUST list, as provided by EDR, and dated 04/02/2016 has revealed that there are 19 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
PALATKA CITY-MAINTEN Facility-Site Id: 8521034 Facility Status: OPEN Discharge Cleanup Status: NREQ - CLEANUP NOT REQUIRED	***1016 OCEAN ST***	***WSW 0 - 1/8 (0.076 mi.)***	***A1***	***8***
PALATKA CITY - ABAND Facility-Site Id: 9102245 Facility Status: CLOSED Discharge Cleanup Status: RA - RA ONGOING	***1016 OCEAN ST***	***WSW 0 - 1/8 (0.076 mi.)***	***A2***	***8***
PUTNAM COUNTY DISTRI Facility-Site Id: 8521001 Facility Status: OPEN Discharge Cleanup Status: NREQ - CLEANUP NOT REQUIRED Discharge Cleanup Status: NFA - NFA COMPLETE	***801 N 13TH ST***	***SW 1/8 - 1/4 (0.206 mi.)***	***6***	***9***
ENDOWMENT FOUNDATION Facility-Site Id: 9503017 Facility Status: CLOSED	***1100 MADISON ST***	***SSW 1/4 - 1/2 (0.285 mi.)***	***C10***	***11***

Discharge Cleanup Status: SRCR - SRCR COMPLETE

PALATKA GAS AUTHORIT ***518 MAIN ST*** ***S 1/4 - 1/2 (0.374 mi.)*** ***D11*** ***11***
Facility-Site Id: 8734419
Facility Status: CLOSED
Discharge Cleanup Status: ENTD - ELIGIBLE - NO TASK LEVEL DATA

BOB & DOTS SHOPETTE ***1000 REID ST*** ***SSW 1/4 - 1/2 (0.415 mi.)*** ***E15*** ***13***
Facility-Site Id: 9200714
Facility Status: CLOSED
Discharge Cleanup Status: SA - SA ONGOING

PALATKA GAS STATION ***900 REID ST*** ***SSW 1/4 - 1/2 (0.415 mi.)*** ***E16*** ***13***
Facility-Site Id: 8515696
Facility Status: OPEN
Discharge Cleanup Status: RA - RA ONGOING

819 REID ST LLC ***819 REID ST*** ***S 1/4 - 1/2 (0.423 mi.)*** ***18*** ***14***
Facility-Site Id: 8515723
Facility Status: CLOSED
Discharge Cleanup Status: SA - SA ONGOING

SUNRISE FOOD STORE # ***623 REID ST*** ***S 1/4 - 1/2 (0.435 mi.)*** ***F20*** ***15***
Facility-Site Id: 8515760
Facility Status: OPEN
Discharge Cleanup Status: NREQ - CLEANUP NOT REQUIRED
Discharge Cleanup Status: ENTD - ELIGIBLE - NO TASK LEVEL DATA

LAIBLS TIRE KING ***514 REID ST*** ***S 1/4 - 1/2 (0.447 mi.)*** ***G21*** ***16***
Facility-Site Id: 8515780
Facility Status: CLOSED
Discharge Cleanup Status: NFA - NFA COMPLETE

GUARDIAN AD LITEM BU ***523 REID ST*** ***S 1/4 - 1/2 (0.453 mi.)*** ***G22*** ***16***
Facility-Site Id: 9200867
Facility Status: CLOSED
Discharge Cleanup Status: NFA - NFA COMPLETE

BELLSOUTH TEL INC #3 ***319 MAIN ST*** ***SSE 1/4 - 1/2 (0.468 mi.)*** ***23*** ***17***
Facility-Site Id: 8734320
Facility Status: OPEN
Discharge Cleanup Status: NREQ - CLEANUP NOT REQUIRED

GREYHOUND BUS STATIO ***700 ST JOHNS AVE*** ***S 1/4 - 1/2 (0.486 mi.)*** ***H24*** ***17***
Facility-Site Id: 9202225
Facility Status: CLOSED
Discharge Cleanup Status: RAP - RAP ONGOING

PALATKA CITY ***8TH ST & ST JOHNS AV*** ***S 1/4 - 1/2 (0.488 mi.)*** ***I25*** ***18***
Facility-Site Id: 9202274
Facility Status: CLOSED
Discharge Cleanup Status: NFA - NFA COMPLETE

HERSCHELS CUSTOM GLA ***801 SAINT JOHNS AVE*** ***S 1/4 - 1/2 (0.492 mi.)*** ***I26*** ***18***
Facility-Site Id: 9063906
Facility Status: CLOSED
Discharge Cleanup Status: NFA - NFA COMPLETE

PALM FURNITURE ***701 ST JOHNS AVE*** ***S 1/4 - 1/2 (0.494 mi.)*** ***H27*** ***19***
Facility-Site Id: 9202158
Facility Status: CLOSED
Discharge Cleanup Status: SA - SA ONGOING

PALATKA CITY ***7TH ST*** ***S 1/4 - 1/2 (0.496 mi.)*** ***H28*** ***19***

Facility-Site Id: 9202278
Facility Status: CLOSED
Discharge Cleanup Status: SRCR - SRCR COMPLETE

PUTNAM CNTY COURTHOU	***401 REID ST***	***SSE 1/4 - 1/2 (0.499 mi.)***	***29***	***20***

Facility-Site Id: 9200952
Facility Status: CLOSED
Discharge Cleanup Status: NFA - NFA COMPLETE

HEADSTROM & SMITH	***601 ST JOHNS AVE***	***S 1/4 - 1/2 (0.499 mi.)***	***30***	***20***

Facility-Site Id: 9202280
Facility Status: CLOSED
Discharge Cleanup Status: SA - SA ONGOING

LAST: A review of the LAST list, as provided by EDR, and dated 05/02/2016 has revealed that there is 1 LAST site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
PORT CONSOLIDATED IN	***1100 WASHINGTON ST***	***SW 0 - 1/8 (0.105 mi.)***	***3***	***9***

Facility-Site Id: 8736520

State and tribal registered storage tank lists

UST: A review of the UST list, as provided by EDR, has revealed that there are 3 UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
PALATKA CITY-MAINTEN	***1016 OCEAN ST***	***WSW 0 - 1/8 (0.076 mi.)***	***A1***	***8***

Database: UST, Date of Government Version: 04/02/2016
Tank Status: B
Facility-Site Id: 8521034
Facility Status: OPEN

PALATKA CITY - ABAND	***1016 OCEAN ST***	***WSW 0 - 1/8 (0.076 mi.)***	***A2***	***8***

Database: UST, Date of Government Version: 04/02/2016
Tank Status: B
Facility-Site Id: 9102245
Facility Status: CLOSED

PUTNAM COUNTY DISTRI	***801 N 13TH ST***	***SW 1/8 - 1/4 (0.206 mi.)***	***6***	***9***

Database: UST, Date of Government Version: 04/02/2016
Tank Status: A
Tank Status: B
Facility-Site Id: 8521001
Facility Status: OPEN

AST: A review of the AST list, as provided by EDR, has revealed that there are 3 AST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
PALATKA CITY-MAINTEN	***1016 OCEAN ST***	***WSW 0 - 1/8 (0.076 mi.)***	***A1***	***8***
Database: AST, Date of Government Version: 04/02/2016 Facility-Site Id: 8521034 Facility Status: OPEN Facility Status: OPEN				
NEW BEST PACKERS	1122 BRONSON ST	SW 1/8 - 1/4 (0.183 mi.)	B4	9
Database: AST, Date of Government Version: 04/02/2016 Facility-Site Id: 8838433 Facility Status: CLOSED Facility Status: CLOSED				
PUTNAM COUNTY DISTRI	***801 N 13TH ST***	***SW 1/8 - 1/4 (0.206 mi.)***	***6***	***9***
Database: AST, Date of Government Version: 04/02/2016 Facility-Site Id: 8521001 Facility Status: OPEN Facility Status: OPEN				

TANKS: A review of the TANKS list, as provided by EDR, and dated 04/02/2016 has revealed that there is 1 TANKS site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
AMTRAK DERAILMENT SI	WASHINGTON ST & 13TH	WSW 1/8 - 1/4 (0.208 mi.)	7	10
Facility Status: CLOSED Facility ID: 9701040				

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A review of the US BROWNFIELDS list, as provided by EDR, and dated 03/21/2016 has revealed that there is 1 US BROWNFIELDS site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FORMER DEE DEE BAR	1100 MADISON STREET	SSW 1/4 - 1/2 (0.285 mi.)	C9	11

EXECUTIVE SUMMARY

Local Lists of Hazardous waste / Contaminated Sites

PRIORITYCLEANERS: A review of the PRIORITYCLEANERS list, as provided by EDR, and dated 04/01/2016 has revealed that there is 1 PRIORITYCLEANERS site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CREECHS IDEAL LAUNDR Facility-Site Id: 9500162	***501 MAIN ST***	***SSE 1/4 - 1/2 (0.385 mi.)***	***D14***	***12***

Other Ascertainable Records

DWM CONTAM: A review of the DWM CONTAM list, as provided by EDR, and dated 09/30/2015 has revealed that there are 11 DWM CONTAM sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
PALATKA CITY-MAINTEN Program Site Id: 9102245	***1016 OCEAN ST***	***WSW 0 - 1/8 (0.076 mi.)***	***A1***	***8***
PORT CONSOLIDATED IN Program Site Id: 8736520	***1100 WASHINGTON ST***	***SW 0 - 1/8 (0.105 mi.)***	***3***	***9***
PALATKA GAS AUTHORIT Program Site Id: 8734419 Program Site Id: 68359	***518 MAIN ST***	***S 1/4 - 1/2 (0.374 mi.)***	***D11***	***11***
CREECHS IDEAL LAUNDR Program Site Id: 000549500162	***501 MAIN ST***	***SSE 1/4 - 1/2 (0.385 mi.)***	***D14***	***12***
BOB & DOTS SHOPETTE Program Site Id: 9200714	***1000 REID ST***	***SSW 1/4 - 1/2 (0.415 mi.)***	***E15***	***13***
PALATKA GAS STATION Program Site Id: 8515696	***900 REID ST***	***SSW 1/4 - 1/2 (0.415 mi.)***	***E16***	***13***
819 REID ST LLC Program Site Id: 8515723	***819 REID ST***	***S 1/4 - 1/2 (0.423 mi.)***	***18***	***14***
SUNRISE FOOD STORE # Program Site Id: 8515760	***623 REID ST***	***S 1/4 - 1/2 (0.435 mi.)***	***F20***	***15***
GREYHOUND BUS STATIO Program Site Id: 9202225	***700 ST JOHNS AVE***	***S 1/4 - 1/2 (0.486 mi.)***	***H24***	***17***
PALM FURNITURE Program Site Id: 9202158	***701 ST JOHNS AVE***	***S 1/4 - 1/2 (0.494 mi.)***	***H27***	***19***
HEADSTROM & SMITH Program Site Id: 9202280	***601 ST JOHNS AVE***	***S 1/4 - 1/2 (0.499 mi.)***	***30***	***20***

EXECUTIVE SUMMARY

RESP PARTY: A review of the RESP PARTY list, as provided by EDR, and dated 03/05/2016 has revealed that there is 1 RESP PARTY site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
PALATKA GAS AUTHORIT	***518 MAIN ST***	***S 1/4 - 1/2 (0.374 mi.)***	***D11***	***11***
Site Status: OPEN				

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

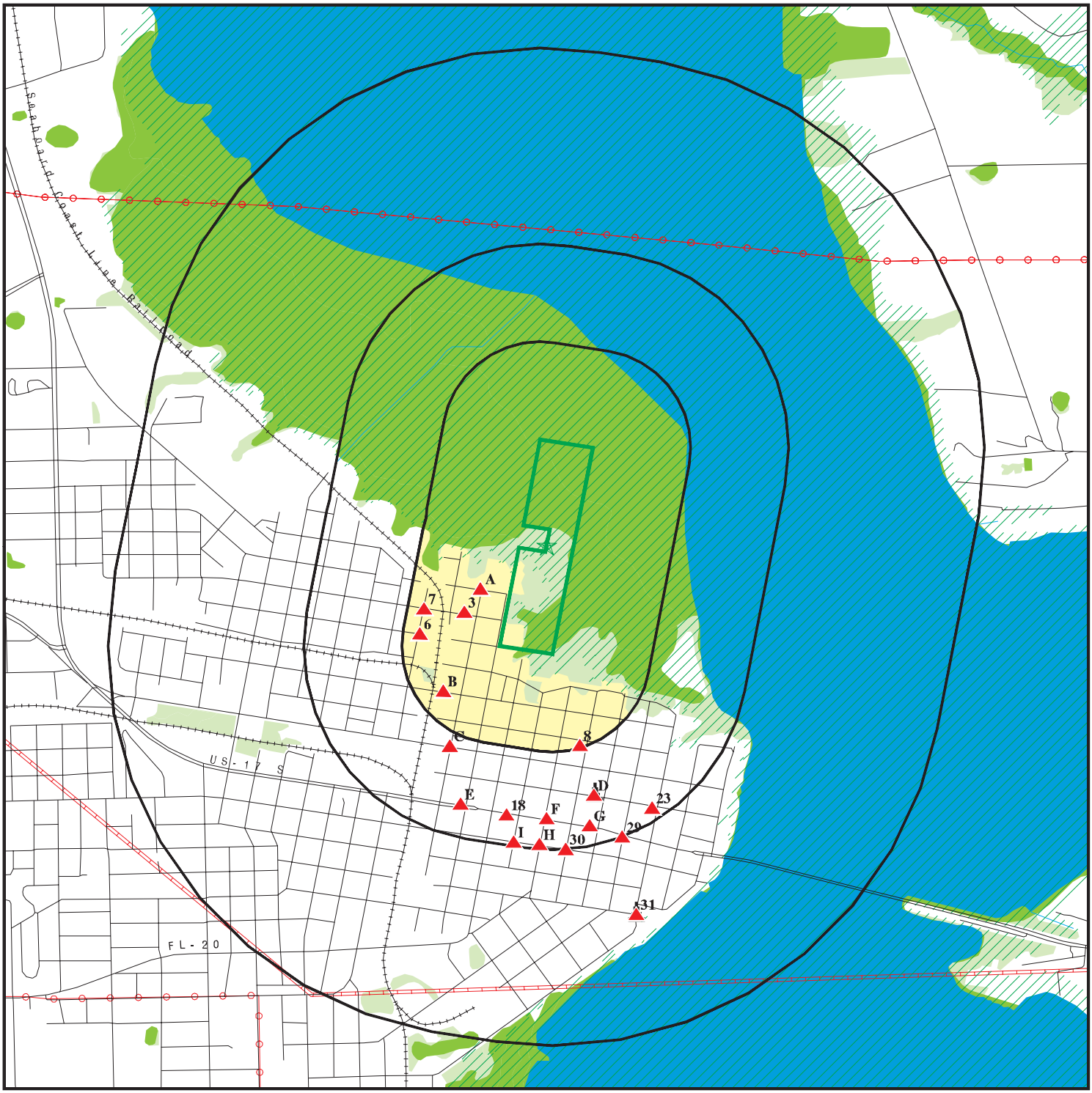
EDR MGP: A review of the EDR MGP list, as provided by EDR, has revealed that there are 2 EDR MGP sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
PALATKA GAS WORKS	512A MAIN STREET	S 1/4 - 1/2 (0.375 mi.)	D12	12
RIVERFRONT PARK GASI	INTER. OF RIVER AND	SSE 1/2 - 1 (0.698 mi.)	31	21

Count: 0 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
		NO SITES FOUND			

OVERVIEW MAP - 4692029.12S



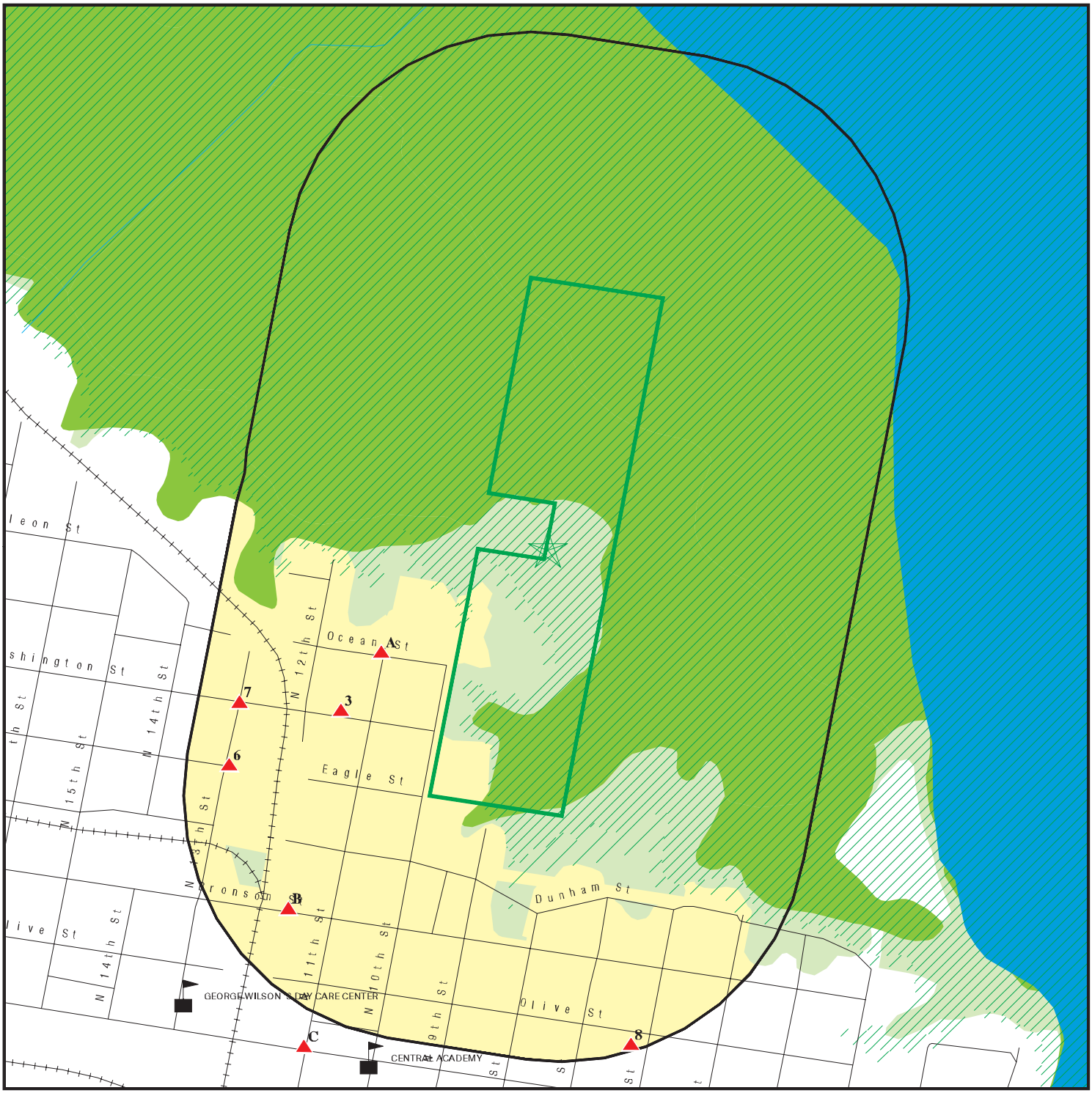
0 1/4 1/2 1 Miles

- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- Pipelines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands
- FL Brownfield

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	Ocean Street & North 10th Street	CLIENT:	Ayres Associates
ADDRESS:	N. 10th Street Palatka FL 32177	CONTACT:	William Honea
		INQUIRY #:	4692029.12s
LAT/LONG:	29.658387 / 81.6353	DATE:	August 04, 2016 11:12 am

DETAIL MAP - 4692029.12S



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

Sensitive Receptors

National Priority List Sites

Dept. Defense Sites

Indian Reservations BIA

100-year flood zone

500-year flood zone

National Wetland Inventory

State Wetlands

FL Brownfield

0 1/8 1/4 1/2 Miles

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	Ocean Street & North 10th Street	CLIENT:	Ayres Associates
ADDRESS:	N. 10th Street Palatka FL 32177	CONTACT:	William Honea
		INQUIRY #:	4692029.12s
LAT/LONG:	29.658387 / 81.6353	DATE:	August 04, 2016 11:13 am

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	0.001		0	NR	NR	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
Federal CERCLIS NFRAP site list								
SEMS-ARCHIVE	0.500		0	0	1	NR	NR	1
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	1	NR	NR	NR	1
RCRA-CESQG	0.250		0	1	NR	NR	NR	1
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	0.001		0	NR	NR	NR	NR	0
State- and tribal - equivalent CERCLIS								
SHWS	1.000		0	0	0	0	NR	0
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		0	1	3	NR	NR	4
State and tribal leaking storage tank lists								
LUST	0.500		2	1	16	NR	NR	19
LAST	0.500		1	0	0	NR	NR	1
INDIAN LUST	0.500		0	0	0	NR	NR	0
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
FF TANKS	0.250		0	0	NR	NR	NR	0
UST	0.250		2	1	NR	NR	NR	3
AST	0.250		1	2	NR	NR	NR	3
INDIAN UST	0.250		0	0	NR	NR	NR	0
TANKS	0.250		0	1	NR	NR	NR	1
State and tribal institutional control / engineering control registries								
ENG CONTROLS	0.500		0	0	0	NR	NR	0
INST CONTROL	0.500		0	0	0	NR	NR	0
State and tribal voluntary cleanup sites								
INDIAN VCP	0.500		0	0	0	NR	NR	0
VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	1	NR	NR	1
Local Lists of Landfill / Solid Waste Disposal Sites								
SWRCY	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	0.001		0	NR	NR	NR	NR	0
PRIORITYCLEANERS	0.500		0	0	1	NR	NR	1
Fl Sites	1.000		0	0	0	0	NR	0
US CDL	0.001		0	NR	NR	NR	NR	0
Local Land Records								
LIENS 2	0.001		0	NR	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS	0.001		0	NR	NR	NR	NR	0
SPILLS	0.001		0	NR	NR	NR	NR	0
SPILLS 90	0.001		0	NR	NR	NR	NR	0
SPILLS 80	0.001		0	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	0.001		0	NR	NR	NR	NR	0
EPA WATCH LIST	0.001		0	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	0.001		0	NR	NR	NR	NR	0
TRIS	0.001		0	NR	NR	NR	NR	0
SSTS	0.001		0	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	0.001		0	NR	NR	NR	NR	0
RAATS	0.001		0	NR	NR	NR	NR	0
PRP	0.001		0	NR	NR	NR	NR	0
PADS	0.001		0	NR	NR	NR	NR	0
ICIS	0.001		0	NR	NR	NR	NR	0
FTTS	0.001		0	NR	NR	NR	NR	0
MLTS	0.001		0	NR	NR	NR	NR	0
COAL ASH DOE	0.001		0	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	0.001		0	NR	NR	NR	NR	0
RADINFO	0.001		0	NR	NR	NR	NR	0
HIST FTTS	0.001		0	NR	NR	NR	NR	0
DOT OPS	0.001		0	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	0.001		0	NR	NR	NR	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	0.001		0	NR	NR	NR	NR	0
US AIRS	0.001		0	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
FINDS	0.001		0	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
AIRS	0.001		0	NR	NR	NR	NR	0
CLEANUP SITES	0.001		0	NR	NR	NR	NR	0
DEDB	0.250		0	0	NR	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
DWM CONTAM	0.500		2	0	9	NR	NR	11
Financial Assurance	0.001		0	NR	NR	NR	NR	0
FL Cattle Dip. Vats	TP		NR	NR	NR	NR	NR	0
RESP PARTY	0.500		0	0	1	NR	NR	1
SITE INV SITES	0.500		0	0	0	NR	NR	0
TIER 2	0.001		0	NR	NR	NR	NR	0
UIC	0.001		0	NR	NR	NR	NR	0
NPDES	0.001		0	NR	NR	NR	NR	0
ECHO	0.001		0	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	1.000		0	0	1	1	NR	2

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA HWS	0.001		0	NR	NR	NR	NR	0
RGA LF	0.001		0	NR	NR	NR	NR	0
RGA LUST	0.001		0	NR	NR	NR	NR	0
- Totals --		0	8	8	33	1	0	50

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1
WSW
< 1/8
0.076 mi.
402 ft.

Relative:
Higher

PALATKA CITY-MAINTENANCE
1016 OCEAN ST
PALATKA, FL 32177

LUST
UST
AST
CLEANUP SITES
DWM CONTAM

U001372258
N/A

Click here for full text details

LUST
Discharge Cleanup Status: NREQ - CLEANUP NOT REQUIRED
Facility Status: OPEN
Facility-Site Id: 8521034

Click here for Florida Oculus

UST
Facility Status: OPEN
Facility-Site Id: 8521034

Click here for Florida Oculus

AST
Facility Status: OPEN
Facility-Site Id: 8521034
Facility Status: OPEN

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CLEANUP SITES
DEP Cleanup Site Key: 43027797

DWM CONTAM
Program Site Id: 9102245

A2
WSW
< 1/8
0.076 mi.
402 ft.

Relative:
Higher

PALATKA CITY - ABANDONED CITY LOT
1016 OCEAN ST
PALATKA, FL 32077

LUST
UST

U004195532
N/A

Click here for full text details

LUST
Discharge Cleanup Status: RA - RA ONGOING
Facility Status: CLOSED
Facility-Site Id: 9102245

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UST
Facility Status: CLOSED
Facility-Site Id: 9102245

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3
SW
< 1/8
0.105 mi.
556 ft.

Relative:
Higher

PORT CONSOLIDATED INC
1100 WASHINGTON ST
PALATKA, FL 32177

Click here for full text details

LAST
Facility-Site Id: 8736520

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CLEANUP SITES
DEP Cleanup Site Key: 43027021

DWM CONTAM
Program Site Id: 8736520

LAST
CLEANUP SITES
DWM CONTAM

S110505692
N/A

B4
SW
1/8-1/4
0.183 mi.
968 ft.

Relative:
Higher

NEW BEST PACKERS
1122 BRONSON ST
PALATKA, FL 32177

Click here for full text details

AST
Facility Status: CLOSED
Facility-Site Id: 8838433
Facility Status: CLOSED

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AST

A100012742
N/A

B5
SW
1/8-1/4
0.183 mi.
968 ft.

Relative:
Higher

THE NEW BEST PACKERS INC
1122 BRONSON ST
PALATKA, FL 32177

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RCRA-CESQG
EPA Id: FLD984205724

RCRA-CESQG

1004683354
FLD984205724

6
SW
1/8-1/4
0.206 mi.
1090 ft.

Relative:
Higher

PUTNAM COUNTY DISTRICT SCHOOL BOARD TRANSPORTATION DEPT
801 N 13TH ST
PALATKA, FL 32177

Click here for full text details

RCRA-SQG
EPA Id: FLD984175307

LUST

RCRA-SQG
LUST
UST
AST
FINDS
Financial Assurance
ECHO

1000449619
FLD984175307

PUTNAM COUNTY DISTRICT SCHOOL BOARD TRANSPORTATION DEPT (Continued) **1000449619**

Discharge Cleanup Status: NREQ - CLEANUP NOT REQUIRED
Discharge Cleanup Status: NFA - NFA COMPLETE
Facility Status: OPEN
Facility-Site Id: 8521001

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UST
Facility Status: OPEN
Facility-Site Id: 8521001

Click here for Florida Oculus

AST
Facility Status: OPEN
Facility-Site Id: 8521001
Facility Status: OPEN

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FINDS
Registry ID:: 110005594963

Financial Assurance
Facility Status: OPEN
Facility ID: 8521001

7
WSW
1/8-1/4
0.208 mi.
1099 ft.

Relative:
Higher

AMTRAK DERAILMENT SITE **TANKS** **U004147115**
WASHINGTON ST & 13TH ST **N/A**
PALATKA, FL

Click here for full text details

TANKS
Facility Status: CLOSED
Facility ID: 9701040

8
South
1/8-1/4
0.242 mi.
1280 ft.

Relative:
Higher

CITY LOT LF (COUNTY DATA) **SWF/LF** **S107712811**
N/A
PALATKA, FL

Click here for full text details

SWF/LF
Facility-Site Id: 94029
Class Status: CLOSED, NO GW MONITORING (J)

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C9
SSW
1/4-1/2
0.285 mi.
1503 ft.

Relative:
Higher

FORMER DEE DEE BAR
1100 MADISON STREET
PALATKA, FL 32177

US BROWNFIELDS **1012230930**
N/A

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US BROWNFIELDS
ACRES property ID: 107223

C10
SSW
1/4-1/2
0.285 mi.
1503 ft.

Relative:
Higher

ENDOWMENT FOUNDATION FOR FL GRADUATES
1100 MADISON ST
PALATKA, FL 32177

LUST **U002314415**
UST **N/A**
Financial Assurance

Click here for full text details

LUST
Discharge Cleanup Status: SRCR - SRCR COMPLETE
Facility Status: CLOSED
Facility-Site Id: 9503017

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UST
Facility Status: CLOSED
Facility-Site Id: 9503017

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Financial Assurance
Facility Status: CLOSED
Facility ID: 9503017

D11
South
1/4-1/2
0.374 mi.
1977 ft.

Relative:
Higher

PALATKA GAS AUTHORITY
518 MAIN ST
PALATKA, FL 32177

LUST **U001372327**
UST **N/A**
CLEANUP SITES
DWM CONTAM
RESP PARTY

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LUST
Discharge Cleanup Status: ENTD - ELIGIBLE - NO TASK LEVEL DATA
Facility Status: CLOSED
Facility-Site Id: 8734419

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UST
Facility Status: CLOSED
Facility-Site Id: 8734419

Click here for Florida Oculus

CLEANUP SITES

PALATKA GAS AUTHORITY (Continued) **U001372327**

DEP Cleanup Site Key: 43016275
DEP Cleanup Site Key: 43026945

DWM CONTAM
Program Site Id: 8734419
Program Site Id: 68359

RESP PARTY
Site Status: OPEN

D12
South
1/4-1/2
0.375 mi.
1982 ft.

Relative:
Higher

PALATKA GAS WORKS **EDR MGP** **1008407144**
512A MAIN STREET **N/A**
PALATKA, FL 32077

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D13
South
1/4-1/2
0.376 mi.
1983 ft.

Relative:
Higher

PALATKA GAS WORKS **SEMS-ARCHIVE** **1003869075**
512 MAIN ST. **FLD981932007**
PALATKA, FL 32077

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SEMS-ARCHIVE
Site ID: 0404731
EPA Id: FLD981932007

D14
SSE
1/4-1/2
0.385 mi.
2035 ft.

Relative:
Higher

CREECHS IDEAL LAUNDRY & DRYCLEANING INC **PRIORITYCLEANERS** **S103121112**
501 MAIN ST **CLEANUP SITES** **N/A**
PALATKA, FL 32177 **DRYCLEANERS**
DWM CONTAM

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PRIORITYCLEANERS
Facility-Site Id: 9500162

CLEANUP SITES
DEP Cleanup Site Key: 43016903

DRYCLEANERS
Facility-Site Id: 9500162
Facility Status: CLOSED

DWM CONTAM
Program Site Id: 000549500162

E15
SSW
1/4-1/2
0.415 mi.
2190 ft.

Relative:
Higher

BOB & DOTS SHOPETTE
1000 REID ST
PALATKA, FL 32077

LUST
UST
AST
CLEANUP SITES
DWM CONTAM

U000770582
N/A

Click here for full text details

LUST
Discharge Cleanup Status: SA - SA ONGOING
Facility Status: CLOSED
Facility-Site Id: 9200714

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UST
Facility Status: CLOSED
Facility-Site Id: 9200714

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AST
Facility Status: CLOSED
Facility-Site Id: 9200714
Facility Status: CLOSED

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CLEANUP SITES
DEP Cleanup Site Key: 43027916

DWM CONTAM
Program Site Id: 9200714

E16
SSW
1/4-1/2
0.415 mi.
2191 ft.

Relative:
Higher

PALATKA GAS STATION
900 REID ST
PALATKA, FL 32177

LUST
UST
CLEANUP SITES
DWM CONTAM
Financial Assurance

U001372158
N/A

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LUST
Discharge Cleanup Status: RA - RA ONGOING
Facility Status: OPEN
Facility-Site Id: 8515696

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UST
Facility Status: OPEN
Facility-Site Id: 8515696

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CLEANUP SITES

PALATKA GAS STATION (Continued) **U001372158**

DEP Cleanup Site Key: 43025633

DWM CONTAM
Program Site Id: 8515696

Financial Assurance
Facility Status: OPEN
Facility ID: 8515696

F17
South
1/4-1/2
0.420 mi.
2215 ft.

Relative:
Higher

R & R AUTOMOTIVE AND SMALL ENGINE REPAIR **SWF/LF** **S113898551**
696 STATE ROAD 20 **N/A**
PALATKA, FL 32147

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SWF/LF
Facility-Site Id: 101419
Class Status: NOT YET DETERMINED (D)
Class Status: INVALID COMPLAINT (M)
Class Status: INACTIVE (I)

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18
South
1/4-1/2
0.423 mi.
2232 ft.

Relative:
Higher

819 REID ST LLC **LUST** **U001372171**
819 REID ST **UST** **N/A**
PALATKA, FL 32177 **CLEANUP SITES**
DWM CONTAM
Financial Assurance

Click here for full text details

LUST
Discharge Cleanup Status: SA - SA ONGOING
Facility Status: CLOSED
Facility-Site Id: 8515723

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UST
Facility Status: CLOSED
Facility-Site Id: 8515723

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CLEANUP SITES
DEP Cleanup Site Key: 43018930

DWM CONTAM
Program Site Id: 8515723

Financial Assurance

819 REID ST LLC (Continued) **U001372171**

Facility Status: CLOSED
Facility ID: 8515723

F19
South
1/4-1/2
0.430 mi.
2270 ft.

Relative:
Higher

BAGGS WHOLESALE CO INC **SWF/LF** **S113899423**
608 REID ST **N/A**
PALATKA, FL 32177

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SWF/LF
Facility-Site Id: 96670
Class Status: INACTIVE (I)

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F20
South
1/4-1/2
0.435 mi.
2297 ft.

Relative:
Higher

SUNRISE FOOD STORE #11 **LUST** **U001372189**
623 REID ST **UST** **N/A**
PALATKA, FL 32177 **CLEANUP SITES**
DWM CONTAM
Financial Assurance

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LUST
Discharge Cleanup Status: NREQ - CLEANUP NOT REQUIRED
Discharge Cleanup Status: ENTD - ELIGIBLE - NO TASK LEVEL DATA
Facility Status: OPEN
Facility-Site Id: 8515760

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UST
Facility Status: OPEN
Facility-Site Id: 8515760

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CLEANUP SITES
DEP Cleanup Site Key: 43025634

DWM CONTAM
Program Site Id: 8515760

Financial Assurance
Facility Status: OPEN
Facility ID: 8515760

G21
South
1/4-1/2
0.447 mi.
2362 ft.

Relative:
Higher

LAIBLS TIRE KING
514 REID ST
PALATKA, FL 32177

SWF/LF **U002314409**
LUST **N/A**
UST

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SWF/LF
Facility-Site Id: 100612
Class Status: INACTIVE (I)

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LUST
Discharge Cleanup Status: NFA - NFA COMPLETE
Facility Status: CLOSED
Facility-Site Id: 8515780

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UST
Facility Status: CLOSED
Facility-Site Id: 8515780

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G22
South
1/4-1/2
0.453 mi.
2390 ft.

Relative:
Higher

GUARDIAN AD LITEM BUILDING
523 REID ST
PALATKA, FL 32177

LUST **U001372457**
UST **N/A**
Financial Assurance

Click here for full text details

LUST
Discharge Cleanup Status: NFA - NFA COMPLETE
Facility Status: CLOSED
Facility-Site Id: 9200867

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UST
Facility Status: CLOSED
Facility-Site Id: 9200867

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Financial Assurance
Facility Status: CLOSED
Facility ID: 9200867

23
SSE
1/4-1/2
0.468 mi.
2469 ft.

Relative:
Higher

BELLSOUTH TEL INC #33470 PLTKFLMA
319 MAIN ST
PALATKA, FL 32177

LUST
UST
AST
Financial Assurance
TIER 2

U001372323
N/A

Click here for full text details

LUST
Discharge Cleanup Status: NREQ - CLEANUP NOT REQUIRED
Facility Status: OPEN
Facility-Site Id: 8734320

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UST
Facility Status: OPEN
Facility-Site Id: 8734320

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AST
Facility Status: OPEN
Facility-Site Id: 8734320
Facility Status: OPEN

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Financial Assurance
Facility Status: OPEN
Facility ID: 8734320

TIER 2
Facility Id: 4493299
Facility Id: 3990922
Facility Id: 4032264
Facility Id: 4982911

H24
South
1/4-1/2
0.486 mi.
2565 ft.

Relative:
Higher

GREYHOUND BUS STATION
700 ST JOHNS AVE
PALATKA, FL 32177

LUST
UST
CLEANUP SITES
DWM CONTAM

U001046401
N/A

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LUST
Discharge Cleanup Status: RAP - RAP ONGOING
Facility Status: CLOSED
Facility-Site Id: 9202225

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UST
Facility Status: CLOSED
Facility-Site Id: 9202225

GREYHOUND BUS STATION (Continued) **U001046401**

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CLEANUP SITES
DEP Cleanup Site Key: 43028075

DWM CONTAM
Program Site Id: 9202225

I25
South
1/4-1/2
0.488 mi.
2578 ft.

Relative:
Higher

PALATKA CITY **LUST** **U001379416**
8TH ST & ST JOHNS AVE **UST** **N/A**
PALATKA, FL

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LUST
Discharge Cleanup Status: NFA - NFA COMPLETE
Facility Status: CLOSED
Facility-Site Id: 9202274

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UST
Facility Status: CLOSED
Facility-Site Id: 9202274

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I26
South
1/4-1/2
0.492 mi.
2597 ft.

Relative:
Higher

HERSCHELS CUSTOM GLASS TINTING **LUST** **U001047134**
801 SAINT JOHNS AVE **UST** **N/A**
PALATKA, FL 32177

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LUST
Discharge Cleanup Status: NFA - NFA COMPLETE
Facility Status: CLOSED
Facility-Site Id: 9063906

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UST
Facility Status: CLOSED
Facility-Site Id: 9063906

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H27
South
1/4-1/2
0.494 mi.
2606 ft.

Relative:
Higher

PALM FURNITURE
701 ST JOHNS AVE
PALATKA, FL 32177

LUST
UST
CLEANUP SITES
DWM CONTAM

U001372470
N/A

Click here for full text details

LUST
Discharge Cleanup Status: SA - SA ONGOING
Facility Status: CLOSED
Facility-Site Id: 9202158

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UST
Facility Status: CLOSED
Facility-Site Id: 9202158

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CLEANUP SITES
DEP Cleanup Site Key: 43028067

DWM CONTAM
Program Site Id: 9202158

H28
South
1/4-1/2
0.496 mi.
2621 ft.

Relative:
Higher

PALATKA CITY
7TH ST
PALATKA, FL 32177

LUST
UST

U001372473
N/A

Click here for full text details

LUST
Discharge Cleanup Status: SRCR - SRCR COMPLETE
Facility Status: CLOSED
Facility-Site Id: 9202278

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UST
Facility Status: CLOSED
Facility-Site Id: 9202278

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29
SSE
1/4-1/2
0.499 mi.
2634 ft.

Relative:
Higher

PUTNAM CNTY COURTHOUSE
401 REID ST
PALATKA, FL 32177

LUST **U000770585**
UST **N/A**

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LUST
Discharge Cleanup Status: NFA - NFA COMPLETE
Facility Status: CLOSED
Facility-Site Id: 9200952

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UST
Facility Status: CLOSED
Facility-Site Id: 9200952

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30
South
1/4-1/2
0.499 mi.
2634 ft.

Relative:
Higher

HEADSTROM & SMITH
601 ST JOHNS AVE
PALATKA, FL 32177

LUST **U001372474**
UST **N/A**
CLEANUP SITES
DWM CONTAM

Click here for full text details

LUST
Discharge Cleanup Status: SA - SA ONGOING
Facility Status: CLOSED
Facility-Site Id: 9202280

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UST
Facility Status: CLOSED
Facility-Site Id: 9202280

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CLEANUP SITES
DEP Cleanup Site Key: 43018086

DWM CONTAM
Program Site Id: 9202280

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
31 **SSE** **1/2-1** **0.698 mi.** **3683 ft.** **Relative:** **Higher**	**RIVERFRONT PARK GASIFICATION** **INTER. OF RIVER AND S. 3RD STREETS** **PALATKA, FL 32077** **Click here for full text details**	**EDR MGP**	**1008407145** **N/A**

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
FL	AIRS	Permitted Facilities Listing	Department of Environmental Protection	05/03/2016	05/10/2016	06/07/2016
FL	AST	Storage Tank Facility Information	Department of Environmental Protection	04/02/2016	05/04/2016	06/07/2016
FL	BROWNFIELDS	Brownfields Sites Database	Department of Environmental Protection	03/05/2016	04/07/2016	06/07/2016
FL	BROWNFIELDS AREAS	Brownfields Areas Database	Department of Environmental Protection	03/05/2016	04/07/2016	06/07/2016
FL	BSRA	Brownfield Site Rehabilitation Agreements Listing	Department of Environmental Protection	03/15/2016	04/07/2016	06/07/2016
FL	CLEANUP SITES	DEP Cleanup Sites - Contamination Locator Map Listing	Department of Environmental Protection	02/29/2016	03/01/2016	04/12/2016
FL	DEDB	Ethylene Dibromide Database Results	Department of Environmental Protection	05/02/2016	05/03/2016	06/07/2016
FL	DRYCLEANERS	Drycleaning Facilities	Department of Environmental Protection	04/02/2016	04/27/2016	06/07/2016
FL	DWM CONTAM	DWM CONTAMINATED SITES	Department of Environmental Protection	09/30/2015	10/20/2015	12/01/2015
FL	ENG CONTROLS	Institutional Controls Registry	Department of Environmental Protection	02/01/2016	04/07/2016	06/07/2016
FL	FF TANKS	Federal Facilities Listing	Department of Environmental Protection	04/02/2016	04/05/2016	06/07/2016
FL	FL Cattle Dip. Vats	Cattle Dipping Vats	Department of Environmental Protection	02/04/2005	06/29/2007	07/11/2007
FL	FL SITES	Sites List	Department of Environmental Protection	12/31/1989	05/09/1994	08/04/1994
FL	Financial Assurance 1	Financial Assurance Information Listing	Department of Environmental Protection	05/02/2016	05/03/2016	06/07/2016
FL	Financial Assurance 2	Financial Assurance Information Listing	Department of Environmental Protection	04/27/2016	05/03/2016	06/07/2016
FL	Financial Assurance 3	Financial Assurance Information Listing	Department of Environmental Protection	04/02/2016	05/04/2016	06/07/2016
FL	Inst Control	Institutional Controls Registry	Department of Environmental Protection	02/01/2016	04/07/2016	06/07/2016
FL	LAST	Leaking Aboveground Storage Tank Listing	Department of Environmental Protection	05/02/2016	05/03/2016	06/07/2016
FL	LUST	Petroleum Contamination Detail Report	Department of Environmental Protection	04/02/2016	05/04/2016	06/07/2016
FL	PRIORITYCLEANERS	Priority Ranking List	Department of Environmental Protection	04/01/2016	05/18/2016	06/07/2016
FL	RESP PARTY	Responsible Party Sites Listing	Department of Environmental Protection	03/05/2016	04/07/2016	06/07/2016
FL	RGA HWS	Recovered Government Archive State Hazardous Waste Facilitie	Department of Environmental Protection		07/01/2013	12/30/2013
FL	RGA LF	Recovered Government Archive Solid Waste Facilities List	Department of Environmental Protection		07/01/2013	01/10/2014
FL	RGA LUST	Recovered Government Archive Leaking Underground Storage Tan	Department of Environmental Protection		07/01/2013	12/30/2013
FL	SHWS	Florida's State-Funded Action Sites	Department of Environmental Protection	03/28/2016	05/25/2016	06/07/2016
FL	SITE INV SITES	Site Investigation Section Sites Listing	Department of Environmental Protection	05/21/2016	05/25/2016	06/07/2016
FL	SPILLS	Oil and Hazardous Materials Incidents	Department of Environmental Protection	12/31/2015	01/12/2016	03/07/2016
FL	SPILLS 80	SPILLS80 data from FirstSearch	FirstSearch	09/01/2001	01/03/2013	03/06/2013
FL	SPILLS 90	SPILLS90 data from FirstSearch	FirstSearch	12/10/2012	01/03/2013	03/04/2013
FL	SWF/LF	Solid Waste Facility Database	Department of Environmental Protection	04/18/2016	04/20/2016	06/07/2016
FL	SWRCY	Recycling Centers	Department of Environmental Protection	07/24/2014	10/22/2014	01/12/2015
FL	TANKS	Storage Tank Facility List	Department of Environmental Protection	04/02/2016	05/04/2016	06/07/2016
FL	TIER 2	Tier 2 Facility Listing	Department of Environmental Protection	12/31/2014	10/15/2015	11/20/2015
FL	UIC	Underground Injection Wells Database Listing	Department of Environmental Protection	04/25/2016	04/26/2016	06/07/2016
FL	UST	Storage Tank Facility Information	Department of Environmental Protection	04/02/2016	05/04/2016	06/07/2016
FL	VCP	Voluntary Cleanup Sites	Department of Environmental Protection	05/23/2016	05/25/2016	06/07/2016
FL	WASTEWATER	Wastewater Facility Regulation Database	Department of Environmental Protection	05/02/2016	05/11/2016	06/07/2016
US	2020 COR ACTION	2020 Corrective Action Program List	Environmental Protection Agency	04/22/2013	03/03/2015	03/09/2015
US	BRS	Biennial Reporting System	EPA/NTIS	12/31/2013	02/24/2015	09/30/2015
US	COAL ASH DOE	Steam-Electric Plant Operation Data	Department of Energy	12/31/2005	08/07/2009	10/22/2009
US	COAL ASH EPA	Coal Combustion Residues Surface Impoundments List	Environmental Protection Agency	07/01/2014	09/10/2014	10/20/2014
US	CONSENT	Superfund (CERCLA) Consent Decrees	Department of Justice, Consent Decree Library	12/31/2014	04/17/2015	06/02/2015
US	CORRACTS	Corrective Action Report	EPA	12/09/2015	03/02/2016	04/05/2016
US	DEBRIS REGION 9	Torres Martinez Reservation Illegal Dump Site Locations	EPA, Region 9	01/12/2009	05/07/2009	09/21/2009
US	DOCKET HWC	Hazardous Waste Compliance Docket Listing	Environmental Protection Agency	03/01/2016	03/03/2016	04/05/2016
US	DOD	Department of Defense Sites	USGS	12/31/2005	11/10/2006	01/11/2007
US	DOT OPS	Incident and Accident Data	Department of Transporation, Office of Pipeli	07/31/2012	08/07/2012	09/18/2012

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
US	Delisted NPL	National Priority List Deletions	EPA	03/07/2016	04/05/2016	04/15/2016
US	ECHO	Enforcement & Compliance History Information	Environmental Protection Agency	09/20/2015	09/23/2015	01/04/2016
US	EDR Hist Auto	EDR Exclusive Historic Gas Stations	EDR, Inc.			
US	EDR Hist Cleaner	EDR Exclusive Historic Dry Cleaners	EDR, Inc.			
US	EDR MGP	EDR Proprietary Manufactured Gas Plants	EDR, Inc.			
US	EPA WATCH LIST	EPA WATCH LIST	Environmental Protection Agency	08/30/2013	03/21/2014	06/17/2014
US	ERNS	Emergency Response Notification System	National Response Center, United States Coast	03/28/2016	03/30/2016	05/20/2016
US	FEDERAL FACILITY	Federal Facility Site Information listing	Environmental Protection Agency	11/13/2015	01/06/2016	05/20/2016
US	FEDLAND	Federal and Indian Lands	U.S. Geological Survey	12/31/2005	02/06/2006	01/11/2007
US	FEMA UST	Underground Storage Tank Listing	FEMA	01/01/2010	02/16/2010	04/12/2010
US	FINDS	Facility Index System/Facility Registry System	EPA	07/20/2015	09/09/2015	11/03/2015
US	FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fu	EPA/Office of Prevention, Pesticides and Toxi	04/09/2009	04/16/2009	05/11/2009
US	FTTS INSP	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fu	EPA	04/09/2009	04/16/2009	05/11/2009
US	FUDS	Formerly Used Defense Sites	U.S. Army Corps of Engineers	01/31/2015	07/08/2015	10/13/2015
US	FUELS PROGRAM	EPA Fuels Program Registered Listing	EPA	05/24/2016	05/25/2016	07/13/2016
US	FUSRAP	Formerly Utilized Sites Remedial Action Program	Department of Energy	03/11/2016	03/15/2016	06/03/2016
US	HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing	Environmental Protection Agency	10/19/2006	03/01/2007	04/10/2007
US	HIST FTTS INSP	FIFRA/TSCA Tracking System Inspection & Enforcement Case Lis	Environmental Protection Agency	10/19/2006	03/01/2007	04/10/2007
US	HMIRS	Hazardous Materials Information Reporting System	U.S. Department of Transportation	06/24/2015	06/26/2015	09/02/2015
US	ICIS	Integrated Compliance Information System	Environmental Protection Agency	01/23/2015	02/06/2015	03/09/2015
US	INDIAN LUST R1	Leaking Underground Storage Tanks on Indian Land	EPA Region 1	10/27/2015	10/29/2015	01/04/2016
US	INDIAN LUST R10	Leaking Underground Storage Tanks on Indian Land	EPA Region 10	01/07/2016	01/08/2016	02/18/2016
US	INDIAN LUST R4	Leaking Underground Storage Tanks on Indian Land	EPA Region 4	02/05/2016	04/29/2016	06/03/2016
US	INDIAN LUST R5	Leaking Underground Storage Tanks on Indian Land	EPA, Region 5	02/17/2016	04/27/2016	06/03/2016
US	INDIAN LUST R6	Leaking Underground Storage Tanks on Indian Land	EPA Region 6	12/11/2015	02/19/2016	06/03/2016
US	INDIAN LUST R7	Leaking Underground Storage Tanks on Indian Land	EPA Region 7	10/09/2015	02/12/2016	06/03/2016
US	INDIAN LUST R8	Leaking Underground Storage Tanks on Indian Land	EPA Region 8	10/13/2015	10/23/2015	02/18/2016
US	INDIAN LUST R9	Leaking Underground Storage Tanks on Indian Land	Environmental Protection Agency	02/25/2016	04/27/2016	06/03/2016
US	INDIAN ODI	Report on the Status of Open Dumps on Indian Lands	Environmental Protection Agency	12/31/1998	12/03/2007	01/24/2008
US	INDIAN RESERV	Indian Reservations	USGS	12/31/2005	12/08/2006	01/11/2007
US	INDIAN UST R1	Underground Storage Tanks on Indian Land	EPA, Region 1	10/20/2015	10/29/2015	01/04/2016
US	INDIAN UST R10	Underground Storage Tanks on Indian Land	EPA Region 10	01/07/2016	01/08/2016	02/18/2016
US	INDIAN UST R4	Underground Storage Tanks on Indian Land	EPA Region 4	02/05/2016	04/29/2016	06/03/2016
US	INDIAN UST R5	Underground Storage Tanks on Indian Land	EPA Region 5	11/05/2015	11/13/2015	01/04/2016
US	INDIAN UST R6	Underground Storage Tanks on Indian Land	EPA Region 6	12/03/2015	02/04/2016	06/03/2016
US	INDIAN UST R7	Underground Storage Tanks on Indian Land	EPA Region 7	09/23/2014	11/25/2014	01/29/2015
US	INDIAN UST R8	Underground Storage Tanks on Indian Land	EPA Region 8	01/26/2016	02/05/2016	06/03/2016
US	INDIAN UST R9	Underground Storage Tanks on Indian Land	EPA Region 9	02/25/2016	04/27/2016	06/03/2016
US	INDIAN VCP R1	Voluntary Cleanup Priority Listing	EPA, Region 1	07/27/2015	09/29/2015	02/18/2016
US	INDIAN VCP R7	Voluntary Cleanup Priority Lisitng	EPA, Region 7	03/20/2008	04/22/2008	05/19/2008
US	LEAD SMELTER 1	Lead Smelter Sites	Environmental Protection Agency	11/25/2014	11/26/2014	01/29/2015
US	LEAD SMELTER 2	Lead Smelter Sites	American Journal of Public Health	04/05/2001	10/27/2010	12/02/2010
US	LIENS 2	CERCLA Lien Information	Environmental Protection Agency	02/18/2014	03/18/2014	04/24/2014
US	LUCIS	Land Use Control Information System	Department of the Navy	05/28/2015	05/29/2015	06/11/2015
US	MLTS	Material Licensing Tracking System	Nuclear Regulatory Commission	03/07/2016	03/18/2016	04/15/2016
US	NPL	National Priority List	EPA	03/07/2016	04/05/2016	04/15/2016
US	NPL LIENS	Federal Superfund Liens	EPA	10/15/1991	02/02/1994	03/30/1994

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
US	ODI	Open Dump Inventory	Environmental Protection Agency	06/30/1985	08/09/2004	09/17/2004
US	PADS	PCB Activity Database System	EPA	07/01/2014	10/15/2014	11/17/2014
US	PCB TRANSFORMER	PCB Transformer Registration Database	Environmental Protection Agency	02/01/2011	10/19/2011	01/10/2012
US	PRP	Potentially Responsible Parties	EPA	10/25/2013	10/17/2014	10/20/2014
US	Proposed NPL	Proposed National Priority List Sites	EPA	03/07/2016	04/05/2016	04/15/2016
US	RAATS	RCRA Administrative Action Tracking System	EPA	04/17/1995	07/03/1995	08/07/1995
US	RADINFO	Radiation Information Database	Environmental Protection Agency	07/07/2015	07/09/2015	09/16/2015
US	RCRA NonGen / NLR	RCRA - Non Generators / No Longer Regulated	Environmental Protection Agency	12/09/2015	03/02/2016	04/05/2016
US	RCRA-CESQG	RCRA - Conditionally Exempt Small Quantity Generators	Environmental Protection Agency	12/09/2015	03/02/2016	04/05/2016
US	RCRA-LQG	RCRA - Large Quantity Generators	Environmental Protection Agency	12/09/2015	03/02/2016	04/05/2016
US	RCRA-SQG	RCRA - Small Quantity Generators	Environmental Protection Agency	12/09/2015	03/02/2016	04/05/2016
US	RCRA-TSDF	RCRA - Treatment, Storage and Disposal	Environmental Protection Agency	12/09/2015	03/02/2016	04/05/2016
US	RMP	Risk Management Plans	Environmental Protection Agency	08/01/2015	08/26/2015	11/03/2015
US	ROD	Records Of Decision	EPA	11/25/2013	12/12/2013	02/24/2014
US	SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing	Environmental Protection Agency	03/07/2011	03/09/2011	05/02/2011
US	SEMS	Superfund Enterprise Management System	EPA	03/07/2016	04/05/2016	04/15/2016
US	SEMS-ARCHIVE	Superfund Enterprise Management System Archive	EPA	03/07/2016	04/05/2016	04/15/2016
US	SSTS	Section 7 Tracking Systems	EPA	12/31/2009	12/10/2010	02/25/2011
US	TRIS	Toxic Chemical Release Inventory System	EPA	12/31/2014	11/24/2015	04/05/2016
US	TSCA	Toxic Substances Control Act	EPA	12/31/2012	01/15/2015	01/29/2015
US	UMTRA	Uranium Mill Tailings Sites	Department of Energy	09/14/2010	10/07/2011	03/01/2012
US	US AIRS (AFS)	Aerometric Information Retrieval System Facility Subsystem (	EPA	10/20/2015	10/27/2015	01/04/2016
US	US AIRS MINOR	Air Facility System Data	EPA	10/20/2015	10/27/2015	01/04/2016
US	US BROWNFIELDS	A Listing of Brownfields Sites	Environmental Protection Agency	03/21/2016	03/22/2016	07/13/2016
US	US CDL	Clandestine Drug Labs	Drug Enforcement Administration	05/04/2016	06/03/2016	07/13/2016
US	US ENG CONTROLS	Engineering Controls Sites List	Environmental Protection Agency	09/10/2015	09/11/2015	11/03/2015
US	US FIN ASSUR	Financial Assurance Information	Environmental Protection Agency	09/01/2015	09/03/2015	11/03/2015
US	US HIST CDL	National Clandestine Laboratory Register	Drug Enforcement Administration	05/04/2016	06/03/2016	07/13/2016
US	US INST CONTROL	Sites with Institutional Controls	Environmental Protection Agency	09/10/2015	09/11/2015	11/03/2015
US	US MINES	Mines Master Index File	Department of Labor, Mine Safety and Health A	02/09/2016	03/02/2016	04/15/2016
US	US MINES 2	Ferrous and Nonferrous Metal Mines Database Listing	USGS	12/05/2005	02/29/2008	04/18/2008
US	US MINES 3	Active Mines & Mineral Plants Database Listing	USGS	04/14/2011	06/08/2011	09/13/2011
US	UXO	Unexploded Ordnance Sites	Department of Defense	10/25/2015	01/29/2016	04/05/2016
CT	CT MANIFEST	Hazardous Waste Manifest Data	Department of Energy & Environmental Protecti	07/30/2013	08/19/2013	10/03/2013
NJ	NJ MANIFEST	Manifest Information	Department of Environmental Protection	12/31/2013	07/17/2015	08/12/2015
NY	NY MANIFEST	Facility and Manifest Data	Department of Environmental Conservation	05/01/2016	05/06/2016	06/17/2016
PA	PA MANIFEST	Manifest Information	Department of Environmental Protection	12/31/2014	07/24/2015	08/18/2015
RI	RI MANIFEST	Manifest information	Department of Environmental Management	12/31/2013	06/19/2015	07/15/2015
WI	WI MANIFEST	Manifest Information	Department of Natural Resources	12/31/2015	04/14/2016	06/03/2016

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date

Oil/Gas Pipelines
Source: PennWell Corporation
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Electric Power Transmission Line Data
Source: PennWell Corporation
This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

US	AHA Hospitals	Sensitive Receptor: AHA Hospitals	American Hospital Association, Inc.
US	Medical Centers	Sensitive Receptor: Medical Centers	Centers for Medicare & Medicaid Services
US	Nursing Homes	Sensitive Receptor: Nursing Homes	National Institutes of Health
US	Public Schools	Sensitive Receptor: Public Schools	National Center for Education Statistics
US	Private Schools	Sensitive Receptor: Private Schools	National Center for Education Statistics
FL	Daycare Centers	Sensitive Receptor: Department of Children & Families	Provider Information
US	Flood Zones	100-year and 500-year flood zones	Emergency Management Agency (FEMA)
US	NWI	National Wetlands Inventory	U.S. Fish and Wildlife Service
FL	State Wetlands	Wetlands Inventory	Department of Environmental Protection
US	Topographic Map		U.S. Geological Survey

STREET AND ADDRESS INFORMATION

GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

OCEAN STREET & NORTH 10TH STREET
N. 10TH STREET
PALATKA, FL 32177

TARGET PROPERTY COORDINATES

Latitude (North):	29.658387 - 29° 39' 30.19''
Longitude (West):	81.6353 - 81° 38' 7.08''
Universal Tranverse Mercator:	Zone 17
UTM X (Meters):	438516.1
UTM Y (Meters):	3280922.8
Elevation:	4 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5651698 PALATKA, FL
Version Date:	2012
Northeast Map:	5652300 HASTINGS, FL
Version Date:	2012

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principal investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

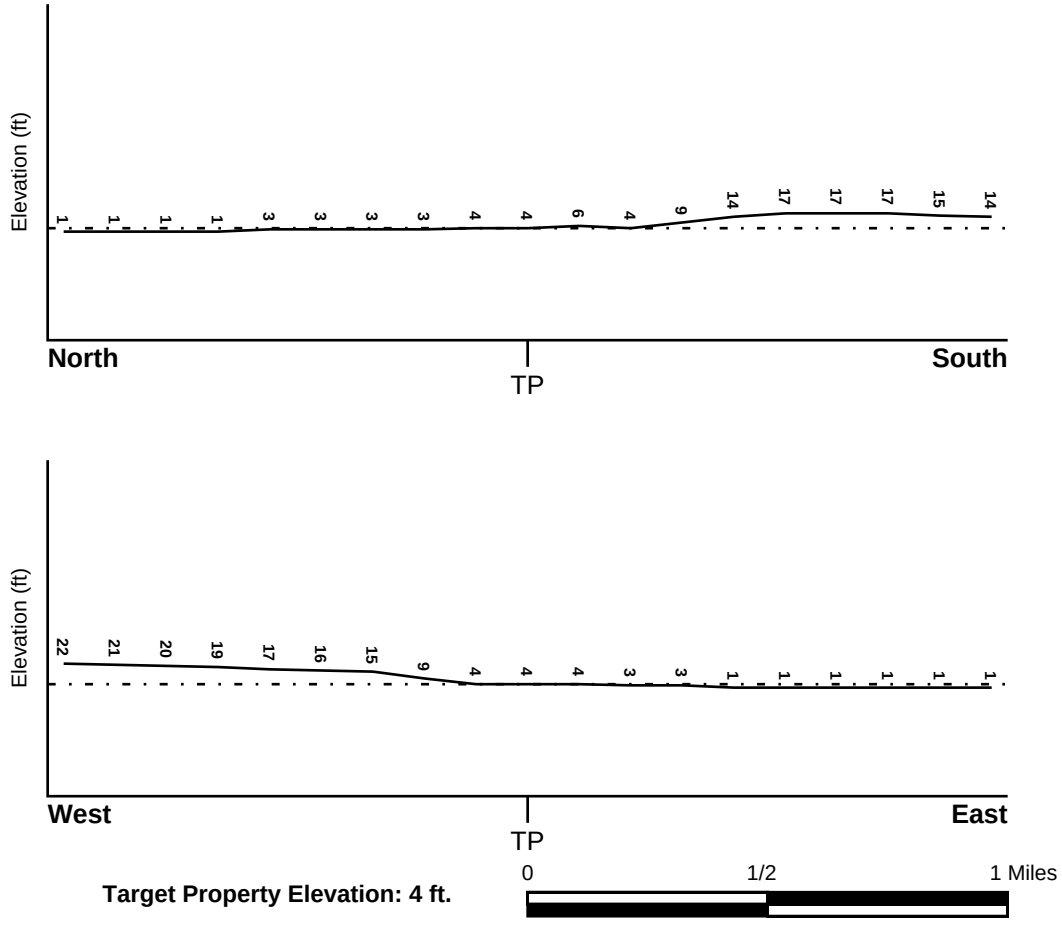
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General ENE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Target Property Elevation: 4 ft.

Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Target Property County	FEMA Flood Electronic Data
PUTNAM, FL	YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property:	1202730002B - FEMA Q3 Flood data
Additional Panels in search area:	1202720195A - FEMA Q3 Flood data 1202720215A - FEMA Q3 Flood data 1202730004B - FEMA Q3 Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
PALATKA	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
1	1/8 - 1/4 Mile SW	WSW
2	1/2 - 1 Mile SSW	NE
4	1/2 - 1 Mile South	NE
A6	1/2 - 1 Mile SSE	NE
A7	1/2 - 1 Mile SSE	E
8	1/2 - 1 Mile SSW	N
10	1/2 - 1 Mile SW	NNE

For additional site information, refer to Physical Setting Source Map Findings.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

Era:	Cenozoic
System:	Quaternary
Series:	Holocene
Code:	Qh *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratifed Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name:	TOMOKA
Soil Surface Texture:	muck
Hydrologic Group:	Class B/D - Drained/undrained hydrology class of soils that can be drained and are classified.
Soil Drainage Class:	Very poorly. Soils are wet to the surface most of the time. Depth to water table is less than 1 foot, or is ponded.

Hydric Status: Soil meets the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel:	HIGH
Depth to Bedrock Min:	> 60 inches
Depth to Bedrock Max:	> 60 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)	Soil Reaction (pH)
1	0 inches	27 inches	muck	Not reported	Highly organic soils, Peat.	Max: 20.00 Min: 6.00	Max: 4.40 Min: 3.60
2	27 inches	35 inches	sand	Granular materials (35 pct. or less passing No. 200), Fine Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 20.00 Min: 6.00	Max: 4.40 Min: 3.60
3	35 inches	55 inches	sandy clay loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 6.00 Min: 0.60	Max: 4.40 Min: 3.60

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: mucky - fine sand

Surficial Soil Types: mucky - fine sand

Shallow Soil Types: sand
sandy loam

Deeper Soil Types: sand
fine sand
muck
sandy loam

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 0.001 miles
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

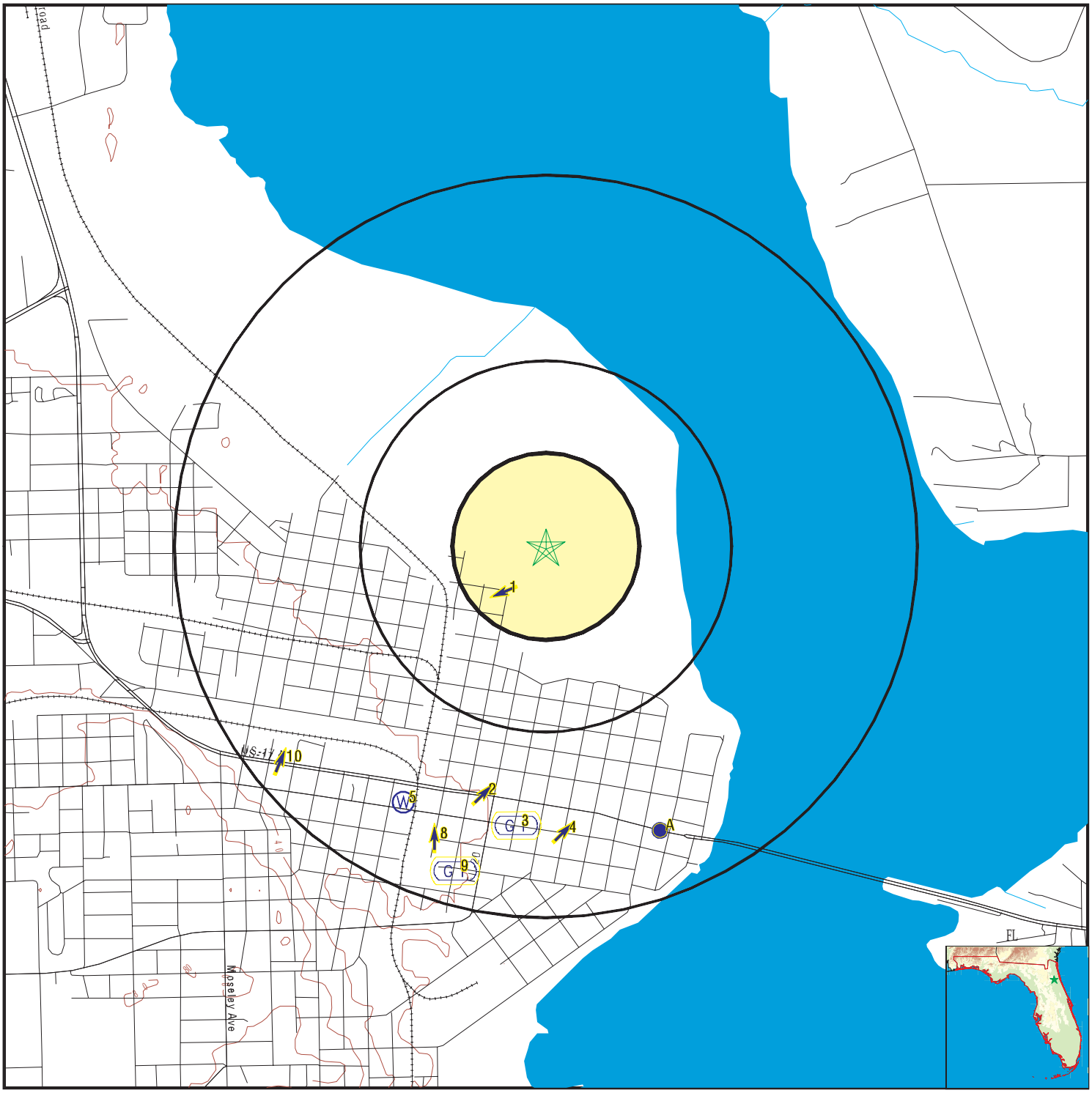
MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
5	FLSA80000093233	1/2 - 1 Mile SSW

PHYSICAL SETTING SOURCE MAP - 4692029.12s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data
- Oil, gas or related wells
- Sink holes

SITE NAME:	Ocean Street & North 10th Street	CLIENT:	Ayres Associates
ADDRESS:	N. 10th Street Palatka FL 32177	CONTACT:	William Honea
		INQUIRY #:	4692029.12s
LAT/LONG:	29.658387 / 81.6353	DATE:	August 04, 2016 11:13 am

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation		Database	EDR ID Number
1 **SW** **1/8 - 1/4 Mile** **Higher**	Click here for full text details	**AQUIFLOW**	**3709**
2 **SSW** **1/2 - 1 Mile** **Higher**	Click here for full text details	**AQUIFLOW**	**3710**
3 **South** **1/2 - 1 Mile** **Higher**	Click here for full text details	**AQUIFLOW**	**3717**
4 **South** **1/2 - 1 Mile** **Higher**	Click here for full text details	**AQUIFLOW**	**3711**
5 **SSW** **1/2 - 1 Mile** **Higher**	Click here for full text details	**FL WELLS**	**FLSA80000093233**
A6 **SSE** **1/2 - 1 Mile** **Higher**	Click here for full text details	**AQUIFLOW**	**3704**
A7 **SSE** **1/2 - 1 Mile** **Higher**	Click here for full text details	**AQUIFLOW**	**3699**
8 **SSW** **1/2 - 1 Mile** **Higher**	Click here for full text details	**AQUIFLOW**	**3705**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation		Database	EDR ID Number
9 **SSW** **1/2 - 1 Mile** **Higher**	**Click here for full text details**	**AQUIFLOW**	**3700**
10 **SW** **1/2 - 1 Mile** **Higher**	**Click here for full text details**	**AQUIFLOW**	**3707**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: FL Radon

Radon Test Results

Zip	Total Buildings	% of sites>4pCi/L	Data Source
32177	14	0.0	Certified Residential Database
32177	8	0.0	Mandatory Non-Residential Database
32177	8	0.0	Mandatory Residential Database

Federal EPA Radon Zone for PUTNAM County: 3

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for PUTNAM COUNTY, FL

Number of sites tested: 11

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area	0.580 pCi/L	100%	0%	0%
Basement	Not Reported	Not Reported	Not Reported	Not Reported

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory
Source: Department of Environmental Protection
Telephone: 850-245-8238

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

DEP GWIS - Generalized Water Information System Well Data
Source: Department of Environmental Protection
Telephone: 850-245-8507
Data collected for the Watershed Monitoring Section of the Department of Environmental Protection.

DOH and DEP Historic Study of Private Wells
Source: Department of Environmental Protection
Telephone: 850-559-0901
Historic database for private supply wells.

Well Construction Permitting Database
Source: Northwest Florida Water Management District
Telephone: 850-539-5999

Consumptive Use Permit Well Database
Source: St. Johns River Water Management District
Telephone: 386-329-4841

Permitted Well Location Database
Source: South Florida Water Management District
Telephone: 561-682-6877

Super Act Program Well Data
This table consists of data relating to all privately and publicly owned potable wells investigated as part of the SUPER Act program. The Florida Department of Health's SUPER Act Program (per Chapter 376.3071(4)(g), Florida Statutes), was given authority to provide field and laboratory services, toxicological risk assessments, investigations of drinking water contamination complaints and education of the public
Source: Department of Health
Telephone: 850-245-4250

Water Well Location Information
Source: Suwannee River Water Management District
Telephone: 386-796-7211

PHYSICAL SETTING SOURCE RECORDS SEARCHED

Water Well Permit Database
Source: Southwest Water Management District
Telephone: 352-796-7211

OTHER STATE DATABASE INFORMATION

Florida Sinkholes
Source: Department of Environmental Protection, Geological Survey
The sinkhole data was gathered by the Florida Sinkhole Research Institute, University of Florida.

Oil and Gas Permit Database
Source: Department of Environmental Protection
Telephone: 850-245-3194
Locations of all permitted wells in the state of Florida.

RADON

State Database: FL Radon
Source: Department of Health
Telephone: 850-245-4288
Zip Code Based Radon Data

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

STREET AND ADDRESS INFORMATION

DEP Cleanup Sites: 22 found.

1210 ST. JOHNS AVENUE
1210 ST. JOHNS AVENUE
PALATKA, FL
Facility Id: COM_293952
ACTIVE Other Cleanup
Watch This Site
Documents

BOB & DOTS SHOPETTE
1000 REID ST
PALATKA, FL 32077
Facility Id: 9200714
PENDING Petroleum Cleanup
Watch This Site
Documents

PALATKA GAS STATION
900 REID ST
PALATKA, FL 32177
Facility Id: 8515696
PENDING Petroleum Cleanup
Watch This Site
Documents

NOU PROPERTY
1618 REID ST
PALATKA, FL 32177
Facility Id: 8515705
ACTIVE Petroleum Cleanup
Watch This Site
Documents

WENDYS RESTAURANT
1824 REID ST
PALATKA, FL 32177
Facility Id: 9700996
PENDING Petroleum Cleanup
Watch This Site
Documents

BAINBRIDGE MOTORS INC
1910 REID ST
PALATKA, FL 32177
Facility Id: 9046019
PENDING Petroleum Cleanup
Watch This Site
Documents

CENTRAL STATES DIVERSIFIED INC
1400 REID ST
PALATKA, FL 32177
Facility Id: 9102598
PENDING Petroleum Cleanup
Watch This Site
Documents

HACKNEYS SALVAGE RECYCLING
1819 MADISON ST
PALATKA, FL 32177
Facility Id: 9100566
ACTIVE Petroleum Cleanup

Watch This Site
Documents

PORT CONSOLIDATED INC
1100 WASHINGTON ST
PALATKA, FL 32177
Facility Id: 8736520
PENDING Petroleum Cleanup
Watch This Site
Documents

PALATKA CITY - ABANDONED CITY LOT
1016 OCEAN ST
PALATKA, FL 32077
Facility Id: 9102245
ACTIVE Petroleum Cleanup
Watch This Site
Documents

PALATKA GAS AUTHORITY
518 MAIN ST
PALATKA, FL
Facility Id: COM_68359
ACTIVE Other Cleanup
Watch This Site
Documents

PALATKA GAS AUTHORITY
518 MAIN ST
PALATKA, FL 32177
Facility Id: 8734419
PENDING Petroleum Cleanup
Watch This Site
Documents

Creechs Ideal Drycleaners
501 Main St
Palatka, FL
Facility Id: 000549500162
PENDING Other Cleanup
Watch This Site
Documents

AMOCO STATION-WALLACE
322 REID ST
PALATKA, FL 32177
Facility Id: 8515691
ACTIVE Petroleum Cleanup
Watch This Site
Documents

DELCO OIL-BULK PLT
200 S 11TH ST
PALATKA, FL 32177
Facility Id: 8515829
PENDING Petroleum Cleanup
Watch This Site
Documents

HEADSTROM & SMITH
601 ST JOHNS AVE
PALATKA, FL 32177
Facility Id: 9202280
ACTIVE Petroleum Cleanup
Watch This Site

Documents

PALM FURNITURE
701 ST JOHNS AVE
PALATKA, FL 32177
Facility Id: 9202158
PENDING Petroleum Cleanup
Watch This Site
Documents

PORT CONSOLIDATED INC
100 REID ST
PALATKA, FL 32177
Facility Id: 8515805
PENDING Petroleum Cleanup
Watch This Site
Documents

GREYHOUND BUS STATION
700 ST JOHNS AVE
PALATKA, FL 32177
Facility Id: 9202225
PENDING Petroleum Cleanup
Watch This Site
Documents

C E O'CONNOR PROPERTY
300 REID ST
PALATKA, FL 32177
Facility Id: 9100099
PENDING Petroleum Cleanup
Watch This Site
Documents

SUNRISE FOOD STORE #11
623 REID ST
PALATKA, FL 32177
Facility Id: 8515760
PENDING Petroleum Cleanup
Watch This Site
Documents

819 REID ST LLC
819 REID ST
PALATKA, FL 32177
Facility Id: 8515723
ACTIVE Petroleum Cleanup
Watch This Site
Documents

DEP INFORMATION PORTAL

Nexus

Florida Department of Environmental Protection

DEP Facility/Site Details and Associated Documents

Facility/Site Details

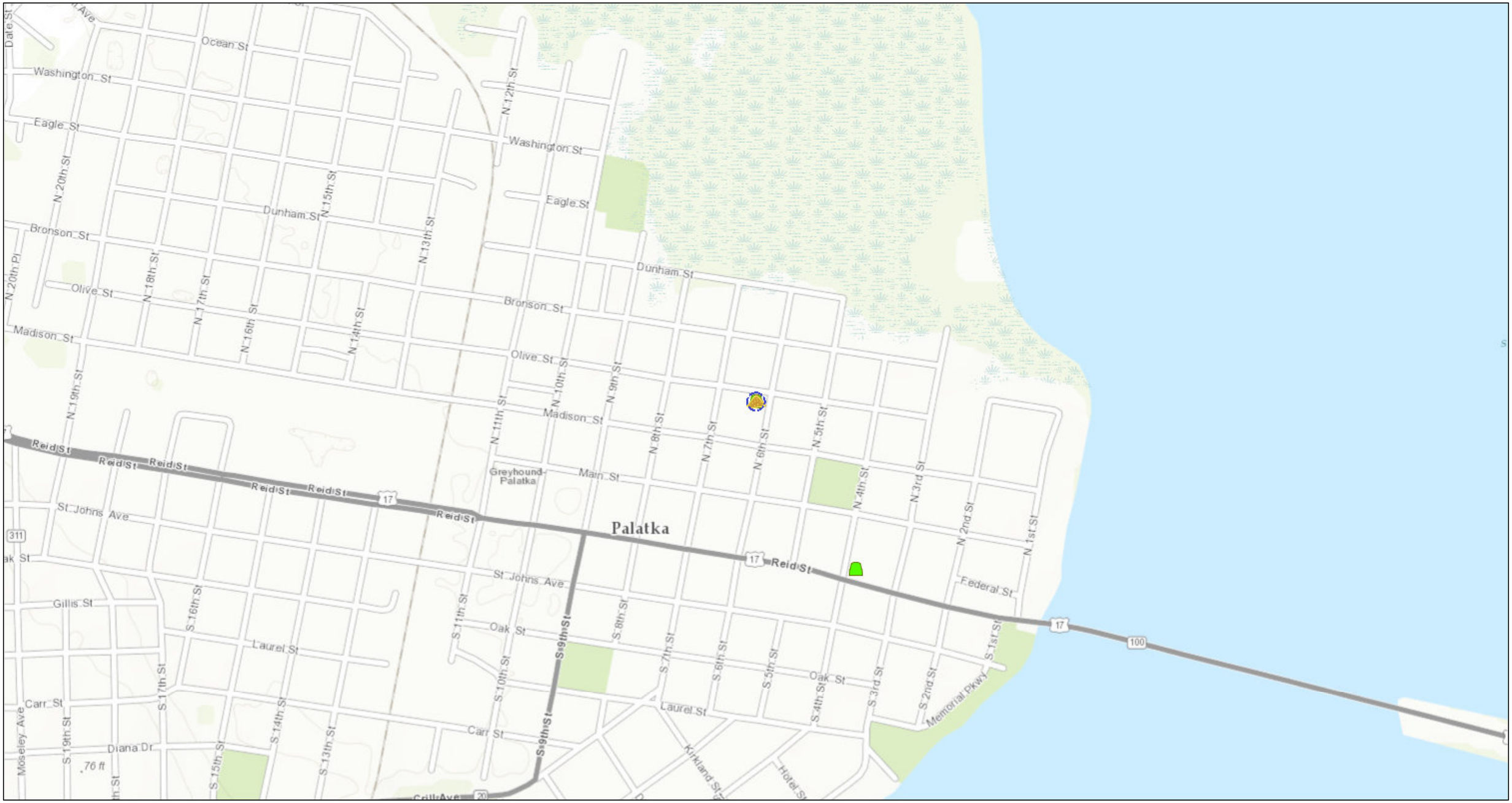
Facility/Site ID = 94029
Facility/Site Name = CITY LOT LF (COUNTY DATA)
Address = not available
City = PALATKA
County = PUTNAM
District = NED

For more information regarding this facility, navigate to the following DEP webpage and identify your district contact: http://www.dep.state.fl.us/secretary/dist/

Records on this page = 0 of 0

There are no documents that meet your criteria.

Solid Waste



August 8, 2016

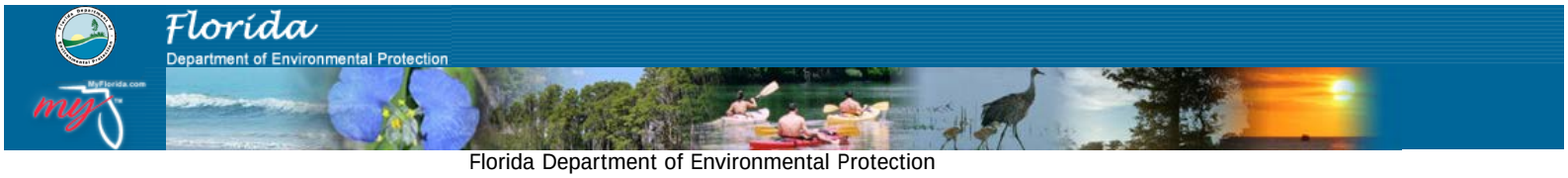
1:9,028

0 0.1 0.2 0.4 mi

0 0.175 0.35 0.7 km

- Facility
- General Disposal Area
- Waste Processing Area
- Gas Condensate Sample Point
- Leachate Collection Sample Point
- Monitor Well
- Private Supply Well
- Public Supply Well
- Soil/Ash/ Sediment Sample
- Solid Waste Effluent Monitoring Point
- Solid Waste Influent Monitoring Point
- Surface Water Sample Point

Map created by Map Direct, powered by ESRI. City Lot LF (County)



Florida Department of Environmental Protection

Solid Waste Facility Electronic Documents Listing

Solid Waste Electronic Documents available online for WACSID: 94029 CITY LOT LF (COUNTY DATA)

Access to these documents requires an Oculus logon.
For public access see the logon form for the *"PUBLIC OCULUS SIGNIN"* button and also instructions for use.

Click on the red arrow below to open a specific document, or on the facility name above for the full document list in Oculus.
Once accessed in Oculus, you may refine or expand your document **search** options there.

The documents listed below are those available in electronic format. For a complete document review you may contact the District office for the facility of interest - District Office Link.

AUTHORIZATION - NOTIFICATION AND REGISTRATION DOCUMENTS LISTED HERE

No Solid Waste **AUTHORIZATION RELATED** Documents for this WACSID were found in OCULUS.

COMPLIANCE/ENFORCEMENT DOCUMENTS LISTED HERE

No Solid Waste **COMPLIANCE/ENFORCEMENT** Documents for this WACSID were found in OCULUS.

AND PERMITTING DOCUMENTS

No Solid Waste **PERMITTING or CLEANUP** Documents for this WACSID were found in OCULUS.

AND FISCAL

No Solid Waste **ADMINISTRATIVE or FISCAL** Documents for this WACSID were found in OCULUS.

Florida Department of Environmental Protection
Water Assurance Compliance System
Solid Waste Facility Inventory Report
09/15/2016

Generate Excel Spreadsheet of Current Results

No guarantee as to the accuracy of the information in this database is implied or expressed.
While additional information may have been submitted to the Department, manpower and resources
are not always available to ensure updates of this information to the database are made in a timely manner.
Any specific information missing from the database may be obtained by a file review for the particular facility at the appropriate District office.

For Testsite Data Links:
I: TestSite Inventory Report
R: TestSite Result Report
C: Regulatory Comparison Report

For Detail Links:
A: Facility Activities
M: GIS Map on this Facility [*New and Improved]
D: Documents in OCULUS
P: PA Permits
E: Sending Feedback to Address Data Errors

TestSite Data	Detail Links	Facility ID	Facility Name	City	Address	County	District	Class	Class Type	Class Status
I R C	A M D P E	94029	CITY LOT LF (COUNTY DATA)	PALATKA		PUTNAM	NED	OLD DUMP	520	CLOSED, NO GW MONITORING

Florida Department of
Environmental Protection

Marjory Stoneman Douglas Building
3900 Commonwealth Boulevard
Tallahassee, Florida 32399-3000

Lawton Chiles
Governor

Virginia B. Wetherell
Secretary

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. Allen R. Bush
City of Palatka
201 North 2nd Street
Palatka, Florida, Florida 32711

RE: Payment of Interest Pursuant to the Order of Determination of Reimbursement Dated August 20, 1993 for the Initial Remedial Action Program Task at the City Maintenance Lot
North 11th and Ocean Street, Palatka, Florida
FDEP Facility Number: 549102245
Date Application Received: September 23, 1992

Dear Mr. Bush:

Pursuant to the Order of Determination of Reimbursement referenced above, an interest credit in the amount of $508.47 has been approved. This interest credit was calculated in accordance with Section 376.3071(12), Florida Statutes, and Rule 17-773.650(1)(c) Florida Administrative Code, based on the allowable amount of Reimbursement (exclusive of any amount already added for an interest incentive), $9,018.00 , at the prime rate of interest on the date of receipt of the application, 6.00%, from the date the application was determined to be sufficient, September 23, 1992, through the date of payment, September 01, 1993.

A request for payment has been forwarded to the Comptroller's Office and a voucher should be issued within 10 days provided there are sufficient unencumbered funds available in the Inland Protection Trust Fund.

Any questions you may have regarding this interest credit should be directed to the Petroleum Cleanup Reimbursement Section at (904) 487-3299.

Sincerely,

John M. Ruddell, Director
Division of Waste Management

cc: Larry Krestalude, Northeast District

Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

Lawton Chiles, Governor

Virginia B Wetherell, Secretary

AUG 20 1993

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. Allen R. Bush
City of Palatka
201 North 2nd Street
Palatka, Florida 32711

RE: City Maintenance Lot
North 11th and Ocean Street
Palatka, Florida
DER Facility #549102245

Dear Mr. Bush:

We have completed review of your Reimbursement Application for expenses incurred during the **Initial Remedial Action** program task at this site and have determined that $9,018.00 of the total $12,748.50 requested is allowable for reimbursement. This amount will be paid to the person responsible for conducting site rehabilitation when processing is completed by the Comptroller's office.

Some adjustments to the amount of reimbursement requested have been made. The following list details these adjustments. Citations refer to the specific sections of the enclosed Reimbursement Application Summary Sheets:

1. $1,750.00 in Section 2F and $750.00 in Section 2I were deducted for costs associated with the installation of compliance monitoring wells. Compliance monitoring wells are a requirement of Chapter 17-761, Florida Administrative Code (F.A.C.), and are specifically excluded from reimbursement pursuant to Chapter 17-773, F.A.C.

2. $346.50 in Section 13A was deducted because the number of personnel hours claimed for application preparation (18) has been determined to be excessive. However, 10.5 hours have

been allowed based on the predominant number of hours claimed for the preparation of other reimbursement applications with a similar degree of complexity.

3. $384.00 was deducted from the CPA review fee because the amount claimed $750.00, has been determined to be excessive. However, $366.00 has been allowed based on the predominant CPA review fees claimed in other reimbursement applications with similar amounts and degree of complexity.

4. Pursuant to Section 376.3072(2), Florida Statutes (F.S.), the insured is obligated to pay a single deductible amount of $500.00 per incident. This amount has been subtracted from the total allowable for reimbursement.

If you disagree with the payment described above, you have the right to challenge the Department's decision by filing a petition for an administrative determination (hearing) as described in the following paragraphs. However, pursuant to Rule 17-103, F.A.C., you may request an extension of time to file the Petition. All requests for extension of time or petitions for an administrative determination must be filed directly with the Department's Office of General Counsel at the address given below within twenty-one (21) days of receipt of this notice (do not send them to the Bureau of Waste Cleanup). If the extension of time is granted in writing, Reimbursement Program staff will review any additional information you may wish to provide. If this additional information adequately supports your claim, a payment adjustment can be made without a formal administrative hearing providing the time extension is current.

Please note that significant delays in the review of supplemental payment requests may occur due to the first come-first serve processing procedure and that time extensions must remain in effect until a final determination of reimbursement for the supplemental payment request has been issued.

Notwithstanding the above, a person whose substantial interests are affected by this Order of Determination of Reimbursement may petition for an administrative proceeding (hearing) in accordance with Section 120.57, F.S. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, within twenty-one (21)

days of receipt of this notice. Petitioner, if different from the reimbursement applicant, shall mail a copy of the petition of reimbursement to the applicant at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, F.S.

The Petition shall contain the following information;

(a) The name, address, and telephone number of each petitioner, the reimbursement applicant's name and address, if different for the petitioner, the Department file number (DER facility number), and the name and address of the facility;
(b) A statement of how and when each petitioner received notice of the Department's action or proposed action;
(c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;
(d) A statement of the material facts disputed by the petitioner, if any;
(e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;
(f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and
(g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

This Order of Determination of Reimbursement is final and effective on the date of receipt of this Order unless a petition (or time extension) is filed in accordance with the preceding paragraphs. Upon the timely filing of a petition, this Order will not be effective until further order of the Department.

When the Order is final, any party to the Order has the right to seek judicial review of the Order pursuant to Section 120.68, F.S., by filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the clerk of the Department in the Office of the General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400 and by filing a copy of the

Notice of Appeal, accompanied by the applicable filing fees, with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date the Final Order is filed with the clerk of the Department.

This Reimbursement Application may be audited pursuant to Chapter 17-773, F.A.C.

Any questions you may have on the Department's review of your reimbursement application should be directed to Al Miller at 904/222-1126. Contact with the above named person does not constitute a petition for administrative determination.

Sincerely,

John M. Ruddell

John M. Ruddell, Director
Division of Waste Management

JMR:bs

Enclosure

cc: Brigette Ffolkes, Office of General Counsel
Larry Krestalude, Northeast District

Florida Department of Environmental Regulation

Twin Towers Office Bl[redacted] • 2600 Blair Stone Road • Tallaha[redacted]e, Florida 32399-2400

Lawton Chiles, Governor

Virginia B. Wetherell, Secretary

** NOTICE **

DER Facility #: 549102245

Program Task(s): IRA

This application is entitled to an interest credit pursuant to Section 376.3071(12), F.S., based on the prime rate of interest on the date this application was submitted (9/23/92) for a period beginning 61 days after submittal through the date of payment by the Comptroller's Office. At this time, the specific date of payment cannot be established. Therefore, the interest credit will be calculated following payment of this application and will be paid separately with written notice from the Department which details the computation of interest.

Florida Department of
Environmental Protection

Northeast District
7825 Baymeadows Way, Suite B200
Jacksonville, Florida 32256-7577

Lawton Chiles
Governor

Virginia B Wetherell
Secretary

August 11, 1993

CERTIFIED - RETURN RECEIPT

Mr. Allen Bush
City Manager
City of Palatka
201 North Second Street
Palatka, FL 32177

Dear Mr. Bush:

RE: Palatka City Maintenance Lot - 1016 Ocean St.
DEP Facility #548521034
Putnam County - Pollutant Storage Tanks

The Northeast District DEP Office has reviewed the Tank Closure Report Addendum regarding the above referenced facility. It has been determined that the report adequately meets the Department's requirements for pollutant storage system closure assessment.

Based on the information submitted, contamination was below state guidance concentrations. Please note that this letter does not certify that the site is not contaminated, and the Department reserves the right to require appropriate actions for this site in accordance with the cleanup criteria Rule 17-770, Florida Administrative Code, if any contamination is discovered in the future.

If this facility is eligible for funding assistance and the owner intends to submit a reimbursement application for a completed program task, such as a Contamination Assessment (CA) with a "No Further Action Proposal", the closure assessment must follow the guidelines specified in Chapter 17-770.600, Florida Administrative Code (FAC), for Contamination Assessments. This review letter should not be considered Departmental approval of the closure report as a Contamination Assessment or a No Further Action for reimbursement purposes.

If you have any questions, you may contact me at the letterhead address or at (904) 448-4320, ext. 362.

Sincerely,

Jan P. Brewer
Environmental Specialist
Pollutant Storage Tanks

JPB

State of Florida
DEPARTMENT OF ENVIRONMENTAL REGULATION

For Routing To Other Than The Addressee

To: _____ Location: _____

To: _____ Location: _____

To: _____ Location: _____

From: _____ Date: _____

Interoffice Memorandum

TO: Jan P. Brewer, Northeast District Office

THROUGH: Tim Bahr, Technical Review Section *TB for TJB*
Bureau of Waste Cleanup

FROM: Guillermo J. Wibmer, Technical Review Section
Bureau of Waste Cleanup *GW*

DATE: July 30, 1993

SUBJECT: Palatka City - Maintenance
1016 Ocean Street
Palatka, Putnam County
DEP Facility #548521034

NORTHEAST DISTRICT
RECEIVED
AUG 5 - 1993
DEP - JACKSONVILLE

I have completed the review of the No Further Action Proposal (NFAP) dated June 2, 1993 (received July 9, 1993 [received June 24, 1993 at the Northeast District]), prepared and submitted by Universal Engineering Sciences for the above-referenced facility, and concur with the NFAP.

If you have any questions, please contact me at Suncom 278-6222.

DEPARTMENT OF ENVIRONMENTAL PROTECTION

INTEROFFICE MEMORANDUM

TO: _____
TO: _____
TO: _____
TO: _____

NORTHEAST DISTRICT - JACKSONVILLE

TO: Guillermo J. Wibmer - BWC - Engineering Support

THROUGH: Larry L. Krestalude LLK Northeast District

FROM: Jan P. Brewer - Northeast District JPB

DATE: July 5, 1993

SUBJECT: Tank Closure Report Addendum
Palatka City Maintenance - 1016 Ocean St.
DEP Facility #548521034

Attached is the addendum to the tank closure report, submitted to address your comments dated March 24, 1993 regarding the referenced facility. This site is in close proximity to an ATRP site (549102245) which has submitted a Remedial Action Plan (RAP) to your office.

If additional information is requested regarding this site, you may contact me at S/C 880-4320, ext. 362.

JPB:rs
Attachment(s)

Department of Environmental Regulation

Routing and Transmittal Slip

To: (Name, Office, Location)

1. Rick Ruscito - BWC
2. Engineering Support Section
3.
4.

Remarks

FYI:

Closure of a 3,000 gal. gasoline tank in close proximately to another tank pit which is accepted for ATRP and have approved RAP.

5485210 34 - No program 1 - 3,000 gallon removed.

5491022 45 - ATRP 2 - 1,000 gallon removed

From: J Brewer

Date 4/29/93

Phone SC 8804320

362

Department of Environmental Regulation

Routing and Transmittal Slip

To (Name, Office, Location)

1. Charles Williams- BWC
2. Reimbursement Section
3.
4. 548521034 - No program
   549102245 - ATRP

Remarks:

FYF -

One site with two tank pits, each assigned it's own facility ID #. One is covered by ATRP, the other is not in any program. The consultant called me and asked if contaminated soil from the "no program" pit was reimburseable - I said No. He may submit something to you, so I am sending you information to aid in your decision making. Thanks.

From	Date
J Brewer	4/29/93
	Phone SC 8804320

362

Florida Department of Environmental Regulation

Northeast District • Suite B200, 7825 Baymeadows Way • Jacksonville, Florida 32256-7577

Lawton Chiles, Governor

Virginia B Wetherell, Secretary

April 2, 1993

CERTIFIED - RETURN RECEIPT

Mr. Allen Bush
City Manager
City of Palatka
201 North Second Street
Palatka, FL 32177

Dear Mr. Bush:

Request Notice No. RN93-3003TK54NED
Tank Closure Report Review
Palatka City Maintenance - 1016 Ocean St.
DER Facility #548521034
Putnam County - Pollutant Storage Tanks

Enclosed are the comments from the Department's Bureau of Waste Cleanup (BWC) in Tallahassee regarding the review of the Tank Closure Report (TCR) and "No Further Action Proposal" (NFAP) submitted for the referenced facility.

It is requested that the BWC's comments be reviewed and that the requested information be submitted to this office for review within forty (40) calendar days upon receipt of this Notice.

If you have any questions, you may contact me at the letterhead address or at (904) 448-4320, ext. 362.

Sincerely,

Jan P. Brewer

Jan P. Brewer
Environmental Specialist
Pollutant Storage Tanks

JPB:rs
Enclosure(s)

Administration 448-4300
Air 448-4310
Waste Management 448-4320

Water Facilities 448-4330
Water Management 448-4340
FAX 448-4366

State of Florida
DEPARTMENT OF ENVIRONMENTAL REGULATION

For Routing To Other Than The Addressee

To: _____ Location: _____

To: _____ Location: _____

To: _____ Location: _____

From: _____ Date: _____

Interoffice Memorandum

NORTHEAST DISTRICT
RECEIVED
MAR 29 1993
DER-JACKSONVILLE

TO: Jan P. Brewer, Northeast District Office

THROUGH: Tim Bahr, Technical Review Section
Bureau of Waste Cleanup

FROM: Guillermo J. Wibmer, Technical Review Section
Bureau of Waste Cleanup

DATE: March 24, 1993

SUBJECT: Palatka City - Maintenance
1016 Ocean Street
Palatka, Putnam County
DER Facility #548521034

I have completed the review of the Tank Closure Report (TCR) and No Further Action Proposal (NFAP) dated February 8, 1993 (received February 23, 1993), prepared by Universal Engineering Sciences, submitted for the above-referenced facility, and offer the following comments and recommendations:

1. The site map should be revised to show the approximate outline of the area excavated during tank removal, the locations of the four soil sampling stations, and the location of the stockpiled soil (if it was kept covered all the time and was not aerated, it was not actually land-farmed as stated in the TCR).

2. Information should be provided on depth to groundwater at the time of excavation, which should have been obtained from the compliance wells. If these data are not available to verify that the groundwater was about 12 feet below land surface prior to infiltration, as stated in the TCR, then I will have to assume that most of the excessively contaminated soil encountered and excavated during closure was at or below the water table (depth to groundwater was 5.5 feet in January 1993 when the southwest compliance well was sampled, in agreement with information presented in the CAR for nearby Facility #549102245).

3. One permanent water table monitoring well should be installed next to the previous location of the northeast compliance well, and sampled and analyzed for EPA Method 602 (including MTBE), to determine whether the groundwater has been impacted (if the northeast compliance well was not

destroyed during closure it is acceptable to sample that well instead).

4. Construction details of the new well or of the compliance well (particularly total depth, and location of the screened interval) should be provided, as well as information on depth to groundwater at the time of sampling.

5. It is implied in the TCR that the excavation is still open. We recommend that it be backfilled, to prevent the possibility of spreading any groundwater contamination.

6. During my review of the Contamination Assessment Report for nearby Facility #549102245 (see comment #1 of my July 25, 1991 Memorandum, sent under Facility #548521034) I requested that the two tanks that were active at that time be shown on the site map. The consultant's response was that "as informed by the City of Palatka" the 3,000 gallon underground tank was located approximately 215 feet northeast of the previous location of the two 1,000 gallon tanks. However, the Site Plan included in the TCR shows that it was located only about 120 feet from that area (very close to MW-8), and it is also stated in the TCR that the active aboveground tank is located nearby. Based on this information, it is hard to believe that the consultant could have missed an aboveground tank and an underground tank surrounded by four compliance wells, located so close to the monitoring wells included in the assessment of contamination derived from the other tank pit, thus an explanation should be requested.

If you have any questions, please contact me at Suncom 278-0190.

Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

Lawton Chiles, Governor

Virginia B Wetherell, Secretary

March 3, 1993

Mr. Allen Bush
City Manager
City of Palatka
201 North Second Street
Palatka, Florida 32177

Re: City of Palatka Maintenance Lot
1016 Ocean Street
Palatka, Florida
FDER Facility No. 549102245
Remedial Action Plan - January 18, 1993

Dear Mr. Bush:

The Engineering Support Section has reviewed the above Remedial Action Plan. Please address the following comments in an addendum to the plan.

1. Air stripper:

   a. We expected closer agreement between the results our review calculations and those of the proposed air stripper. The review calculations predict a packed height in the range of 15 to 18 feet, with MTBE as the limiting contaminant, in comparison to the 6-foot packed height of the proposed stripper, with benzene as the limiting contaminant. Please provide your opinion regarding this matter.

   b. A liquid redistributor to prevent channeling of the relatively low 1 gpm liquid flow along the packing of the 14-inch diameter stripper may be needed if a packing depth greater than 6 feet is specified in response to the above comment. Please provide your opinion.

   c. Please indicate whether automated shutdown of the recovery well pump, in the event of air blower failure at the stripper, is included in your design.

   d. Please indicate whether your startup plan for the stripper includes daily sampling with a portable gc, or monitoring by some other means until it is ascertained that the stripper is operating properly.

2. Groundwater recovery system: Please provide sizing and hydraulic calculations for the proposed pneumatic recovery well pump and associated compressor described on page 7 of the plan. The referenced pump performance curves in Appendix C-4 appear to be those of a centrifugal pump, not a pneumatic positive displacement pump.

3. Equipment: Please indicate whether the proposed plan includes the following safety equipment items:

   a. National Electric Code Class I, Group D, Division 2 explosion-proof motors for all equipment items within the compound.

   b. A spark resistant AMCA Class A blower for the air stripper.

4. Sampling frequency: Please note that monthly monitoring of designated wells MW 1, 4, and 6 is required to preserve an option for termination of remedial action in accordance with the "leveling-off" option of Rule 17-770.730(7)(a), Florida Administrative Code (F.A.C.). The wording in Table 2 on page 14 of the plan may have been inadvertently interchanged with regard to monitoring of TVOA and the "leveling-off" option.

5. Annual report:

   a. It is not necessary to submit reports on a quarterly basis for the life of the project as indicated in the plan. In accordance with Rule 17-770.730(3) F.A.C., reporting on an annual basis is sufficient. However, you may submit a report for the first quarter to inform the Department of the results of your startup.

   b. In accorance with Rule 17-770.730(3)(a), the annual report should include the results of monthly water level measurements in the monitoring and recovery wells, not quarterly measurements as indicated in the plan.

6. Groundwater monitoring plan: The Department acknowledges your intention to submit a groundwater monitoring plan pursuant to Rules 17-770.730(6) and 17-770.660 F.A.C. when you believe the cleanup endpoint for this site has been achieved.

7. Fence: The Department recommends the installation of a fence around remedial equipment compounds. Please indicate whether a fence is included in your plan.

8. Record drawings: Please provide a statement that record drawings, signed and sealed by a professional engineer, will

be submitted within four months of project approval pursuant to Rule 17-770.730(2) F.A.C.

9. Soil treatment: Please provide the name of the approved soil thermal treatment facility that you expect to use for the disposal of excessively contaminated soil from the site, or a statement that an approved facility will be used.

10. Cost estimate: Given the level of design detail available for the cost estimate, we believe that a contingency lower than the 20% shown in Table 1 may be more appropriate for the project.

You may contact me at 904/488-0190 if you have any questions.

Sincerely,

Rick Ruscito

Rick Ruscito, P.E.
Engineering Support Section

cc: David Crane - Universal Engineering Sciences/Punta Gorda
Jan Brewer - DER/Jacksonville

DEPARTMENT OF ENVIRONMENTAL REGULATION

INTEROFFICE MEMORANDUM

TO: _____
TO: _____
TO: _____
TO: _____

NORTHEAST DISTRICT - JACKSONVILLE

TO: Guillermo Wibmer - BWC

THROUGH: Larry L. Krestalude - Northeast District

FROM: Jan P. Brewer - Northeast District

DATE: February 18, 1993

SUBJECT: Petroleum Contamination
Palatka City Maintenance Facility - 1016 Ocean St.
DER Facility #549102245 & #548521034

The above referenced facility has two (2) tank excavation pits with a Facility I.D. Number assigned to each pit. The pit with DER Facility I.D. Number 548521034 contained two (2) 1,000 gallon underground storage tanks, removed on December 21, 1989. Contamination was discovered at the time of the tank removal. Approximately 120 feet away from the excavation pit was an in-service 3,000 gallon underground storage tank.

On December 18, 1990, the facility applied for the ATRP Program for the two (2) 1,000 gallon underground storage tanks. Those tanks were accepted into ATRP and assigned a new DER Facility I.D. Number (549102245). The contamination has been investigated and a RAP was submitted to your office for review on January 25, 1993.

The 3,000 gallon underground storage tank was removed on December 16, 1992 and a Closure Report has been submitted to this office for review. During the tank removal, contamination was discovered and some contaminated soil was removed and is stockpiled at the site.

Because of the close proximity of the two (2) tank pits, and because a RAP has been submitted for one (1) tank pit, it is requested that your office review the closure assessment report and provide guidance and comments concerning further action at this site to this office.

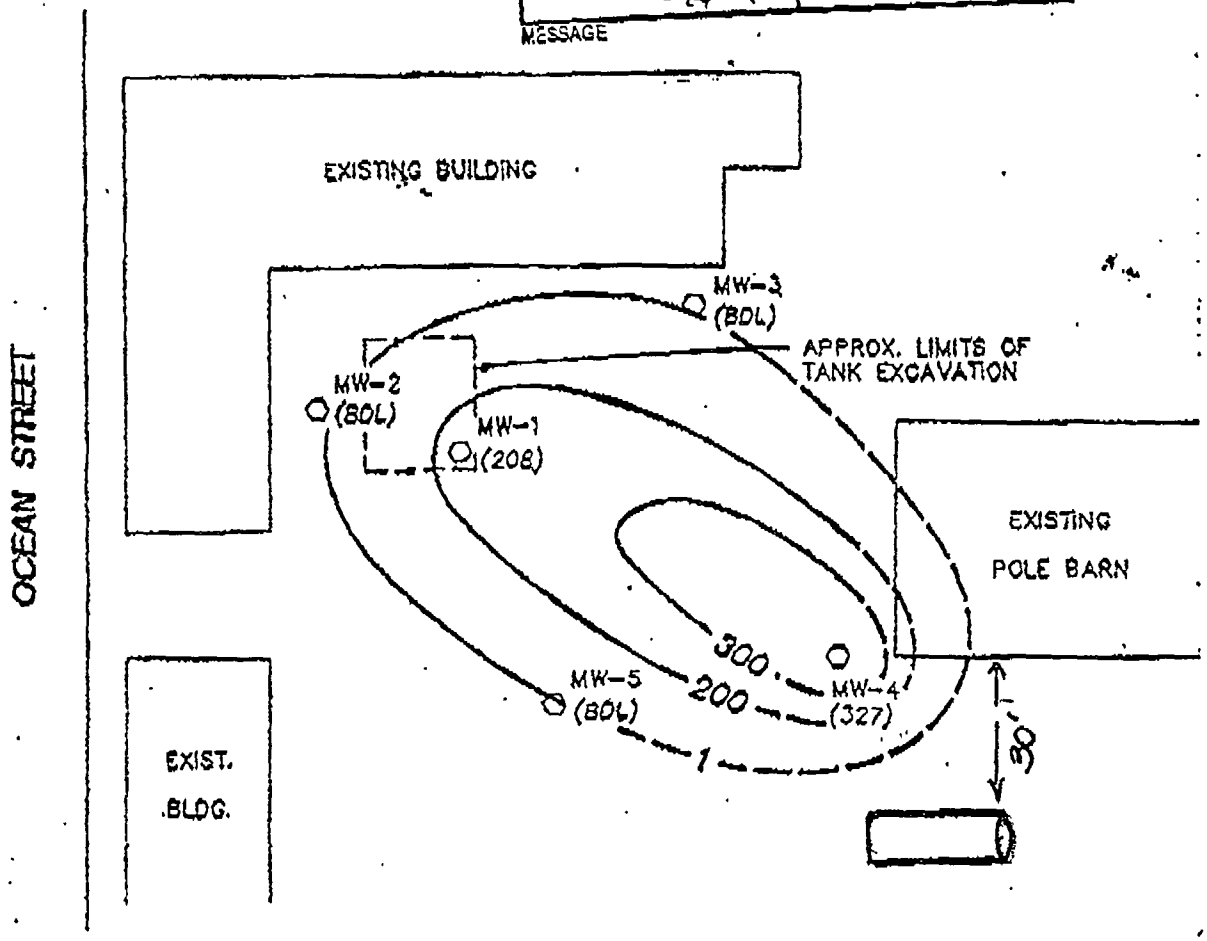
If additional information is requested regarding this site, you may contact me at S/C 880-4320, ext. 362.

JPB:rs
Attachment(s)

TO David Flowers	FROM [redacted] Bush
CO.	CO. CITY OF PALATKA
FAX# 6401	FAX# 904-329-0106

MESSAGE

Co. Putnam Co. HRS Co. FDEP



LEGEND

- ○ MONITOR WELL/AUGER BORING LOCATION
- -200- BENZENE CONCENTRATION CONTOUR, ppb
- (208) BENZENE CONCENTRATION AT WELL LOCATION, ppb

N

0 40

SCALE, FEET (APPROX.)

UNIVERSAL ENGINEERING SCIENCES

CONTAMINATION ASSESSMENT REPORT
MAINTENANCE LOT, OCEAN STREET
PALATKA, FLORIDA

BENZENE CONCENTRATION CONTOUR MAP

DRAWN BY:	C.B.	DATE:	5/31/91	CHECKED BY:	[signature]	DATE:	5/31/91
SCALE:	AS SHOWN	PROJECT NO:	15426-002-01	REPORT NO:	1534	PAGE NO:	A-12

STATE OF FLORIDA
DEPARTMENT OF HEALTH AND REHABILITATIVE SERVICES

February 12, 1993

CERTIFIED - RETURN RECEIPT 712 897 866

City of Palatka - Maintenance Lot
201 N. 2nd. Street
Palatka, FL. 32177

Dear Mr. Bush:

Re: FDER #548521034
City of Palatka - Maintenance Lot
Putnam County - Pollutant Storage Tanks

Putnam County has reviewed the Tank Closure Report, received on Feb. 12, 1993, for the above referenced facility. It has been determined that the report adequately meets the Department of Environmental Regulation's requirements for pollutant storage system closure assessment.

Based on the information submitted, the contamination that exceeded the state guidance concentrations have been removed in accordance with 17-761 FAC and the cleanup criteria Rule 17-770 FAC. Please note that this letter does not certify that the site is not contaminated, and the County reserves the right to require appropriate action for this site site in accordance with 17-770 FAC.

If this facility is eligible for funding assistance and the owner intends to submit a reimbursement application for a completed program task, such as a Contamination Assessment (CA) with a "No Further Action Proposal", the closure assessment must follow the guidelines specified in Chapter 17-770.600, Florida Administrative (FAC), for Contamination Assessments. This review letter should not be considered Departmental approval of the closure report as a Contamination Assessment or a No Further Action for reimbursement purposes.

If you have any questions, you may contact me at the letterhead address or at (904) 329-0436.

Sincerely,

David A. Flowers

David A. Flowers
Environmental Specialist II
Pollutant Storage Tanks

DAF:pk

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION
POLLUTANT STORAGE TANK SYSTEM
INSPECTION REPORT FORM - COVER PAGE

PRINTED: 02/08/93

CILITY ID #: 548521034 COUNTY: PUTNAM
CILITY NAME: PALATKA CITY-MAINTENANCE
CILITY LOCATION: 1016 OCEAN ST, PALATKA
CILITY CONTACT: PALATKA CITY PHONE: (904) 329-0100
NER: PALATKA CITY PHONE: (904) 329-0100
NER ADDRESS: 201 N 2ND ST, PALATKA, FL, 32177-3735
NER CONTACT: ALLEN BUSH OWNER CHANGE DATE: 10/15/85
TITUDE:29-39-00 LONGITUDE:81-38-15 FAC TYPE: LOCAL, CITY GOVERNMENT
ST UST COMPLIANCE DATE:12/18/92 LAST AST COMPLIANCE DATE:00/00/00
NTAMINATION DATA AVAILABLE: OTHER

NK #	SIZE	CONTENT	INSTALL DATE	UNDER OR ABOVE	TANK TYPE	INTEGRAL PIPING	MONITORING SYSTEM	TANK STAT
	1000	B	XX/XX	U	C	B	Y	B
	1000	B	XX/XX	U	C	B	Y	B
	3000	B	05/73	U	C	B	B	B
	500	D	XX/XX	A	C	B	I	U

Facility currently under C.A.R — Discharge 12/16/92 after 3000gal Removed
No tanks at facility Regulated
Tank #4 Diesel tank less 550 gals —
* Tank was removed by maintenance department for city and will be removed at later date.

SPECTION TYPE (CHOOSE ONE):
__ ROUTINE __ DISCHARGE
__ INSTALL __ CLOSURE
__ ABANDONED __ REINSPECT

SITE INFORMATION (ALL THAT APPLY):
__ NEAR PUB WELL __ REPAIRED
__ CONTAMINATED __ UPGRADED
__ COMPLAINT __ UST & AST
__ ACID TANKS __ HAZARD MAT

R DISTRICT OR LOCAL PROGRAM: Northeast Dist / Putnam Co.

SPECTOR NAME (PRINT) David A Flowers CONTACT NAME (PRINT) Allen Bush

David A. Flowers 2/9/93
INSPECTOR'S SIGNATURE & DATE CONTACT'S SIGNATURE & DATE

FLORIDA PETROLEUM LIABILITY INSURANCE AND RESTORATION PROGRAM COMPLIANCE CHECKLIST

DATE: Dec 18, 1992
DER FACILITY #: 548521034
FACILITY NAME: palatka, City - Maintenance
FACILITY ADDRESS: 1016 ocean ST. - palatka

CONTACT PERSON NAME & TELEPHONE: Allen Bush 329-0100
LATITUDE 29-39-00 LONGITUDE 81-38-15

I. COMPLIANCE WITH CHAPTER 376.3072 FLORIDA STATUTES AND CHAPTER 17-769 FLORIDA ADMINISTRATIVE CODE (FAC).

YES	NO	UNK.	
	✓		1. WAS ANY CONTAMINATION DISCOVERED PRIOR TO JANUARY 1, 1989? IF YES, EXPLAIN
		✓	2. PETROLEUM LIABILITY INSURANCE PROGRAM AFFIDAVIT FORM COMPLETED? IF YES, GIVE DATE NOTARIZED.
	✓		3. IS THE SITE INSURED BY FFLIPA? IF NOT, SUPPLY THE CARRIER INSURED WITH, OR OTHE TYPE OF FINANCIAL RESPONSIBILITY MECHANISM USED.
		✓	4. RESTORATION COVERAGE NOTICE OF ELIGIBILITY ISSUED IF YES. GIVE EFFECTIVE DATE.
	✓		5. HAS SITE ACCESS EVER BEEN DENIED? IF YES, GIVE DATE
✓			6. HAS A STORAGE TANK PROGRAM COMPLIANCE INSPECTION EVER BEEN PERFORMED FOR THIS FACILITY? IF YES, GIVE THE DATE OF THE MOST RECENT INSPECTION AND SUPPLY A COPY 12/18/92
✓			7. HAS THE SUSPECTED PETROLEUM STORAGE SYSTEM COMPONENT RESPONSIBLE FOR THE DISCHARGE BEEN REMOVED FROM SERVICE WITHIN 3 DAYS OF DISCOVERY? IF NO, EXPLAIN
✓			8. HAVE STEPS TO OBTAIN CLEANUP SERVICES BEEN INNITIATED WITHIN 3 DAYS OF THE DISCHARGE DISCOVERY? IF NO, EXPLAIN Universal Engineering Sciences —

RESTORATION PROGRAM COMPLIANCE CHECKLIST

Yes No

II. INFORMATION REQUIRED FOR SITE SCORING AND RANKING

✓ — 9. IS THERE EVIDENCE OF A CONTAMINATION PROBLEM? IF YES, EXPLAIN IN COMMENTS SECTION.

IF "YES" TO ITEM #9 CHECK ONE:

— A. TWO OR MORE MONITORING WELL/BOREHOLES SHOW >2" FREE PRODUCT

— B. ONLY 1 MONITORING WELL SHOW >2" FREE PRODUCT OR MONITORING WELLS SHOW <2" FREE PRODUCT OR PETROLEUM SHEEN.

— C. MONITORING WELLS ARE CONTAMINATED BUT CONTAIN NO FREE PRODUCT [VAPORS ONLY]

✓ D. SOIL CONTAMINATED AND/OR RECENT PRODUCT LOSS

CHECK ONE

10. CONTAMINATION PRODUCT TYPE

✓ A. LIGHT PETROLEUM [KEROSINE, unleaded GASOLINE, AVIATION FUEL, ETC.]

— B. HEAVY PETROLEUM [FUEL OIL, DIESEL OR SIMILAR PETROLEUM PRODUCTS]

— C. UNKNOWN OR OTHER _____

CHECK THOSE THAT APPLY

11. POTABLE WATER

— A. WITHIN 1/2 MILE: LARGE WELLS [>100,000GPD]
1. INDICATE DIRECTION: _____
2. ESTIMATE DISTANCE: _____

✓ B. WITHIN 1/4 MILE: SMALL WELLS [<100,000GPD]
1. INDICATE DIRECTION: N.S.
2. ESTIMATE DISTANCE: >500'

— C. SURFACE WATER BODY USED AS A PUBLIC WATER SYSTEM.

12. INDICATE BELOW THE PROXIMITY TO POPULATION CENTERS. [RESTAURANTS, SHOPPING CENTER, HOUSE, ETC.]

✓ A. > 500 FEET: INDICATE DISTANCE >500'

— B. < 500 FEET: ESTIMATE DISTANCE _____

PLEASE INDICATE HOW THE SITE SCOPING AND RANKING INFORMATION WAS DETERMINED. _____

FLORIDA PETROLEUM LIABILITY INSURANCE AND RESTOTATION PROGRAM COMPLIANCE CHECKLIST

COMMENTS City of Palatka pulled tank out of ground Certified contractor will remove - City of Palatka will supply manifest.

David A. Flaven
COMPLIANCE INSPECTOR

12/18/92
INSPECTION DATE

DER DISTRICT Northeast Dist

CORILOCAL PROGRAM Putnam County

Name Palatka City - Maintenan.
Facility I D # 54 85 21034
Date 12/18/92

UNDERGROUND STORAGE TANK CLOSURE INSPECTION FORM

			Yes	No	Unk	N/A
I	**REGISTRATION AND NOTIFICATION** 17-761 400 & 450 FAC Comments					
1	All of the facility's tanks properly registered; 400	1	✓			
2	Proper notification made 30 days prior to tank(s) closure, 450 (1) (a)	2		✓		
3	Proper notice given 24 hours prior to storage tank(s) closure; 450 (4)	3		✓		
II	**CLOSURE PROCEDURES/STATUS** 17 761 800 Comments					
4	Certified contractor performed the tank removal(s); 740 (2) City of Palatka	4	✓	✓		
5.	Storage tank(s) properly closed and removed from the site, (2) (d)	5	✓			
6.	Storage tank(s) properly closed and filled in place; (2) (d)	6				✓
7	Storage tank(s) properly closed within 90 days of discovery, (2) (a)	7				✓
8	All liquid & sludge removed from the tank(s); (2) (d)	8	✓			
9	Storage tanks properly purged or inerted prior to transport, (2) (d)	9	✓			
10.	All piping capped and/or removed;	10	✓			
11	All monitoring wells left in place for contamination assessment purposes, (2) (f)	11	✓			
12.	All monitoring wells have been properly abandoned; 800 (2) (f)	12				✓
13	A closure assessment was properly performed, .800 (3),	13	✓			
III	**DISCHARGE REPORTING** 17-761 460, F A C. Comments					
14	Evidence of contamination or a discharge reported (Explain in comments) 460 (1), (2) and (3)	14	✓			
15	Discharge Reporting Form (DRF) submitted, 460 (2)	15	✓			
IV	**DISCHARGE RESPONSE** Comments					
16	Free product present, (Explain in comments)	16				✓
17	Free product being removed, 17-761 800 (3) (d) & 17-761 820 (2)	17				✓

Comments

(*) MR. John Cullinan (Universal Engineering Services) called to say tank (4)(5) was pulled 12/16/92 3,000gal UST, OVA reading found contamination soil is on site — CAR + Discharge Form will be Mailed today.

DER Form 761-04-91 (1 Page)

INSPECTOR COPY

UNIVERSAL
ENGINEERING SCIENCES
Consultants in Geotechnical Engineering • Environmental Sciences • Construction Materials Testing

Offices in:
• Orlando
• Ocala
• Gainesville
• Fort Myers
• Merritt Island
• Daytona Beach
• West Palm Beach

February 8, 1993

Mr. Allen Bush
City of Palatka
201 North 2nd Street
Palatka, Florida 32177

(Maintenance Dept.)

Reference: Tank Closure
City Lot
FDER Facility No. 548521034
1016 Ocean Street
Order No: 93-0141 Report No: 9017

Dear Mr. Bush

On behalf of The City of Palatka, Universal Engineering Sciences, Inc. has completed the environmental on-site inspections for the removal of one 3000-gallon underground fuel storage tank at the referenced site. Our scope of services included: 1) observation of tank removal activities, 2) screening of excavated soils with an Organic Vapor Meter (Thermo-Environmental Instrument 580-B) for soil testing, 3) obtaining groundwater samples for laboratory testing.

Based on headspace analyses of soils from the tank excavation, approximately 200 yards of excessively contaminated soils were excavated during the tank removal. These soils have been landfarmed at the City Lot on an impervious surface and are kept covered with an impervious surface. The soil screening results are presented in table No. 1. These soils will be screened by Universal Engineering Sciences, Inc. again in thirty days to evaluate the loss of volatiles from the landfarm activities.

A groundwater sample collected from a compliance well adjacent to the tank excavation did not identify the presence of the target parameters. This sample was analyzed for volatile aromatic hydrocarbons by EPA Method 602 and for polynuclear aromatic hydrocarbons (PAHs) by EPA Method 610. Universal Engineering Sciences, Inc. collected the PAH due to the presence of a nearby above ground diesel tank. The laboratory results are presented in Appendix B. The removal of soils, and allowing the excavation to remain open is probably responsible for the negative detection of the target parameters from the groundwater analyses.

We appreciate this opportunity to provide service to you on this project. If you should have any questions, or if we can be of further assistance, please contact us.

Sincerely,

UNIVERSAL ENGINEERING SCIENCES, INC.

Jack W. Ray
Regional Manager

9Feb93
John J. Cullinan, P.G.
Geologist

JWR/JJC:pl
cc: Putnam County Public Health Unit

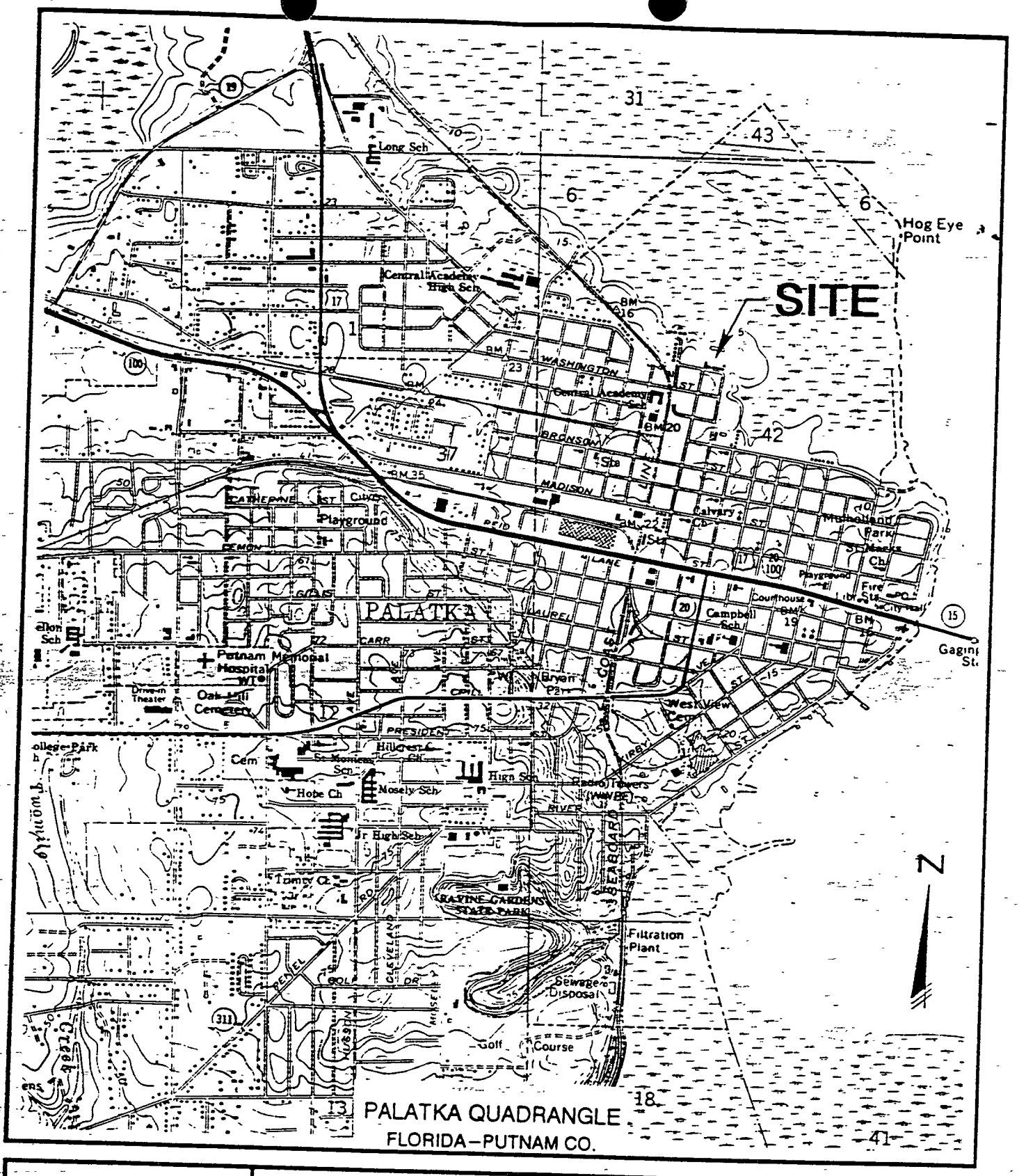
TABLE 1

Results of Soil OVM Sampling
3000-Gallon UST City Lot, Palatka, Florida

OVM Concentrations (ppm)				
	Location			
Depth	Northeast	Southeast	Southwest	Southeast
1	0	0	0	0
2	0	0	0	0
3	150	200	100	50
4	650	700	600	150
5	>1000	>1000	>1000	275
6	>1000	800	750	250
7	700	625	550	225
8	300	225	125	100
9	100	150	50	25

TANK CLOSURE REPORT (UST)

Facility:	City Lot **DER Facility No.** 548521034 1016 Ocean Street (EDI) Palatka, Florida
Owner:	City of Palatka 201 North 2nd Street Palatka, Florida 32177
Date Inspected:	December 16, 1992 and January 19, 1993 UES Representative: John Cullinan
Tank Removed:	One 3000-gallon, underground gasoline tank
Tank Condition:	3/4-inch hole on bottom
Tank Contents:	Removed prior to excavation by City of Palatka
Excavation Area:	30′ x 15′ x 12′ deep; water table @ 12′ prior to infiltration; ≈ 200 yards into excavation; slight sheen on soils above water table; petroleum staining
Monitor Wells:	Four compliance monitor wells around tank farm Southwest Monitor Well sampled
Soil Screening:	Screened soils during excavation with TEI OVM 580-B
OVA Readings:	See Table 1
Soil Testing:	Not conducted
Soil Lab Results:	Not applicable
Groundwater Testing:	One groundwater sample tested for EPA Method 602 and EPA Method 610; water depth at 5.5′ in compliance well
Groundwater Lab Results:	EPA 602 - BDL EPA 610 - BDL
Conclusions:	The soil OVM readings indicated excessively contaminated soils from four to seven feet below grade. These soils were removed from the excavation for landfarming on-site. The groundwater analyses did not detect the target parameters.
Recommendations:	No further action at this tank location; monitor land farmed soils; the City Lot facility should be considered in total for EDI purposes.

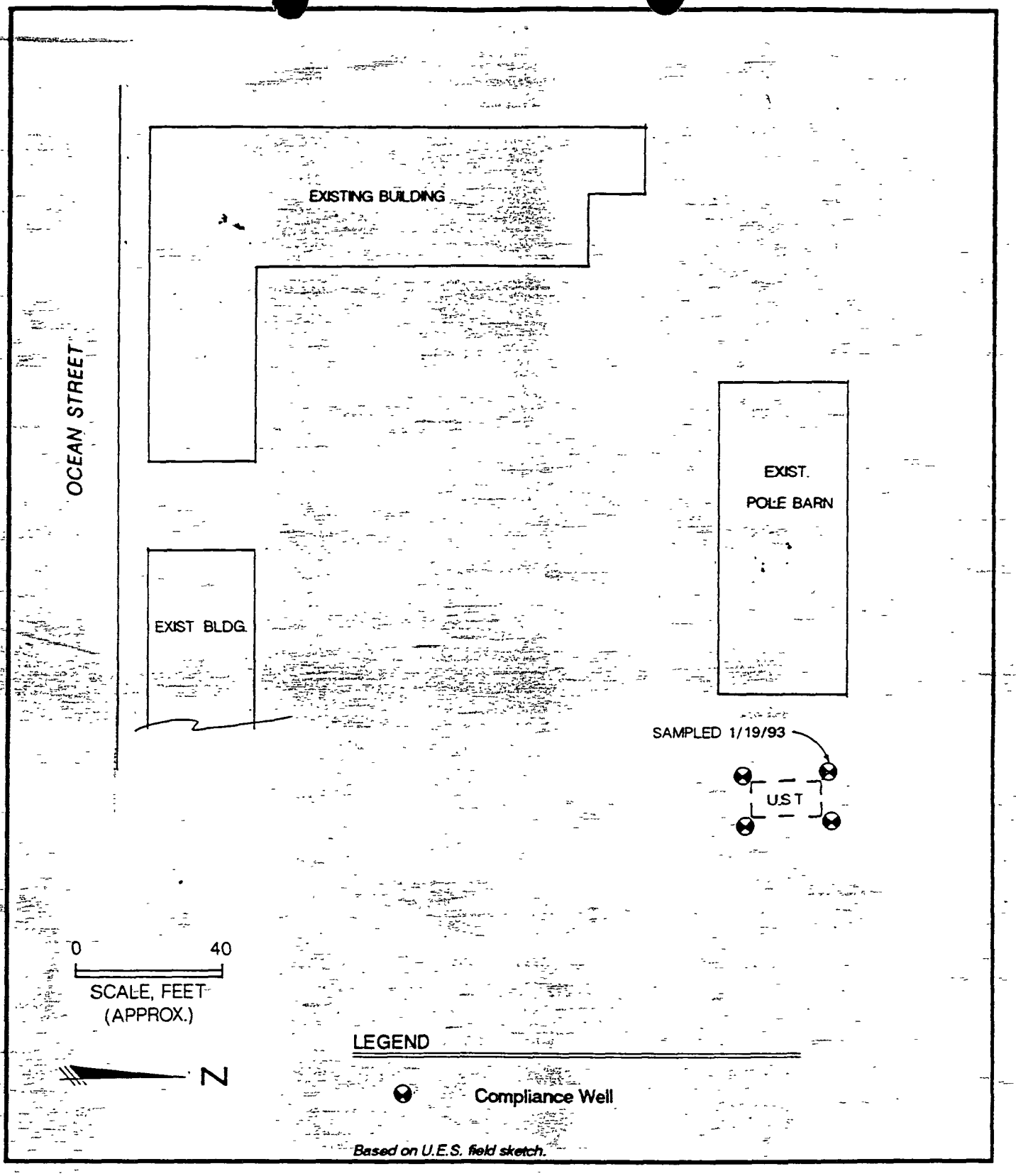


UNIVERSAL
ENGINEERING SCIENCES

CITY MAINTENANCE LOT
OCEAN STREET
PALATKA, FLORIDA

U.S.G.S. SITE LOCATION MAP

Drawn by:	Date: 2/09/93	Order No: 93-0141	Scale: 1" = 2000'
Checked by: JC	Date: 9Feb93	Report No:	Page No: A-1



Based on U.E.S. field sketch.

UNIVERSAL
ENGINEERING SCIENCES

CITY MAINTENANCE LOT
OCEAN STREET
PALATKA, FLORIDA

SITE PLAN

Drawn by:	Date: 2/09/93	Order No: 93-0141	Scale: AS SHOWN
Checked by: JC	Date: 9Feb93	Report No:	Page No: A-2

Florida Department of Environmental Regulation
Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

DER Form # 17-761.900(6)
Form Title Closure Assessment Form
Effective Date December 10, 1990
DER Application No. (Filled in by DER)

Closure Assessment Form

Owners of storage tank systems that are replacing, removing or closing in place storage tanks shall use this form to demonstrate that a storag system closure assesment was performed in accordance with Rule 17-761 or 17-762, Florida Administrative Code. Eligible Early Detection Incer tive (EDI) and Reimbursement Program sites do not have to perform a closure assessment.

Please Print or Type
Complete All Applicable Blanks

1. Date: February 5, 1993
2. DER Facility ID Number: 548521034 (EDI) 3. County: Putnam
4. Facility Name: City Lot, Palatka
5. Facility Owner: City of Palatka
6. Facility Address: 1016 Ocean Street, Palatka, Florida
7. Mailing Address: 201 North 2nd Street, Palatka, Florida 32177
8. Telephone Number: (904) 329-0100 9. Facility Operator: City of Palatka Public Works Dep
10. Are the Storage Tank(s): **(Circle one or both)** A. Aboveground or (B) Underground
11. Type of Product(s) Stored: Unleaded Gasoline
12. Were the Tank(s): **(Circle one)** A. Replaced (B) Removed C. Closed in Place D. Upgraded (aboveground tanks only)
13. Number of Tanks Closed: 1 14. Age of Tanks: Unknown

Facility Assessment Information

Yes	No	Not Applicable	
[X]	[ ]	EDI	1. Is the facility participating in the Florida Petroleum Liability Insurance and Restoration Program (FPLIRP)?
[X]	[ ]		2. Was a Discharge Reporting Form submitted to the Department? If yes, When: December 16, 1992 Where: Putnam County Health Unit to FDER
[X]	[ ]		3. Is the depth to ground water less than 20 feet?
[X]	[ ]	[ ]	4. Are monitoring wells present around the storage system? If yes, specify type: [X] Water monitoring [ ] Vapor monitoring
[ ]	[X]	[ ]	5. Is there free product present in the monitoring wells or within the excavation?
[ ]	[X]	[ ]	6. Were the petroleum hydrocarbon vapor levels in the soils greater than 500 parts per million for gasoline? Specify sample type: [ ] Vapor Monitoring wells [X] Soil sample(s)
[ ]	[ ]	[X]	7. Were the petroleum hydrocarbon vapor levels in the soils greater than 50 parts per million for diesel/kerosene? Specify sample type: [ ] Vapor Monitoring wells [ ] Soil sample(s)
[ ]	[X]	[ ]	8. Were the analytical laboratory results of the ground water sample(s) greater than the allowable state target levels? (See target levels on reverse side of this form and supply laboratory data sheets)
[ ]	[ ]	[X]	9. If a used oil storage system, did a visual inspection detect any discolored soil indicating a release?
[ ]	[ ]		10. Are any potable wells located within ¼ of a mile radius of the facility?
[ ]	[ ]		11. Is there a surface water body within ¼ mile radius of the site? If yes, indicate distance: 1/4 Mile

Northwest District
160 Governmental Center
Pensacola, Florida 32501-5794
Northeast District
7825 Baymeadows Way Suite B 200
Central District
3319 Maguire Blvd
Southwest District

DER Form # 17-761.900(6)
Form Title Closure Assessment Form
Effective Date December 10, 1990
DER Application No. (Filled in by DER)

12. A detailed drawing or sketch of the facility that includes the storage system location, monitoring wells, buildings, storm drains, sample locatio and dispenser locations must accompany this form.
13. If a facility has a pollutant storage tank system that has both gasoline and kerosene/diesel stored on site, both EPA Method 602 and EPA Meth 610 must be performed on the ground water samples obtained.
14. Amount of soils removed and receipt of proper disposal.
15. If yes is answered to any one of questions 5-9, a Discharge Reporting Form 17-761.900(1) indicating a suspected release shall be submitt to the Department within one working day.
16. A copy of this form and any attachments must be submitted to the Department's district office in your area and to the locally administered pr gram office under contract with the Department within 60 days of completion of tank removal or filling a tank with an inert material.

Signature of Owner — Date

John Cullinan — 9Feb93

Signature of Person Performing Assessment — Date

John Cullinan, P.G.

Title of Person Performing Assessment

Background file copy

State Ground Water Target Levels That Affect A Pollutant Storage Tank System Closure Assessment

State ground water target levels are as follows:

1. For gasoline (EPA Method 602):
   a. Benzene 1 ug/l
   b. Total VOA 50 ug/l
      - Benzene
      - Toluene
      - Total Xylenes
      - Ethylbenzene
   c. Methyl Test-Butyl Ether (MTBE) 50 ug/l

2. For kerosene/diesel (EPA Method 610):
   a. Polynuclear Aromatic Hydrocarbons (PAHS) (Best achievable detection limit, 10 ug/l maximum)

FLOWERS
CHEMICAL LABORATORIES INCORPORATED

RECEIVED FEB 4 1993

Received From:
U.E.S. Gainsville
4475 SW 35th Terrace
Gainsville,FL 32608

Date Reported : Jan29 1993
Project Number : N/A
PO Number : city lot-Palatka
FDHRSDW Number : 83139
FHRS ENVNumber : E83018
FDER COMQAPNum : 86-0008G
A2LA Number : 0312-01
NCDEHNR Number : 296
SCDHEC Number : 96019

For: EPA602 610(GC)
Date Sampled:Jan19 1993 Date Received:Jan21 1993 Lab Number : 12515A

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	12515 SWWELL
Dilution_Factor		-	-	-	1.00
o-dichlorobenzene	ug/L	0.500	98.4	3.34	<0.500
m-dichlorobenzene	ug/L	0.500	101.	1.14	<0.500
Para-dichlorobenzene	ug/L	0.500	100.	1.78	<0.500
Benzene	ug/L	0.500	98.9	1.00	<0.500
Chlorobenzene	ug/L	0.500	96.4	.100	<0.500
Ethylbenzene	ug/L	0.500	100.	1.34	<0.500
Toluene	ug/L	0.500	100.	1.05	<0.500
Xylene	ug/L	0.500	99.0	1.55	<0.500
Methyl-tert-butyleth	ug/L	0.500	98.8	1.35	<0.500
Total_BTEX	ug/L	0.500	99.4	1.34	<0.500
PID_Spike	ug/L	0.500	97.4	1.80	98.4
-		-	-	-	-

Data Release Authorization
Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.
This Report of Analysis may not be reproduced in part.

Jefferson S. Flowers, Ph.d.
President/Technical Director

Serving Your Analytical and Environmental Needs Since 1957

Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
481 NEWBURYPORT
P.O. BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
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FAX: (407) 260-6110

Received From:
U.E.S. Gainsville
4475 SW 35th Terrace
Gainsville,FL 32608

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NCDEHNR Number : 296
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For: EPA602 610(GC)
Date Sampled:Jan19 1993 Date Received:Jan21 1993 Lab Number : 12515A

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	12515 SWWELL
Acenaphthylene	ug/L	1.00	103.	1.30	<1.00
Acenaphthene	ug/L	1.00	103.	1.03	<1.00
Anthracene	ug/L	1.00	103.	3.56	<1.00
Benzo(a)anthracene	ug/L	1.00	102.	7.05	<1.00
Benzo(a)pyrene	ug/L	1.00	103.	8.55	<1.00
Benzo(b)fluoranthene	ug/L	1.00	101.	8.62	<1.00
Benzo(g,h,i)perylene	ug/L	1.00	93.1	10.7	<1.00
Benzo(k)fluoranthene	ug/L	1.00	83.9	8.62	<1.00
Chrysene	ug/L	1.00	102.	7.05	<1.00
Dibnz(a,h)anthracene	ug/L	1.00	96.0	14.6	<1.00
Fluoranthene	ug/L	1.00	104.	5.74	<1.00
Fluorene	ug/L	1.00	103.	1.78	<1.00
Indn(1,2,3-cd)pyrene	ug/L	1.00	96.0	14.6	<1.00

Data Release Authorization
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President/Technical Director

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FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:
U.E.S. Gainsville
4475 SW 35th Terrace
Gainsville,FL 32608

Date Reported : Jan29 1993
Project Number : N/A
PO Number : city lot-Palatka
FDHRSDW Number : 83139
FHRS ENVNumber : E83018
FDER COMQAPNum : 86-0008G
A2LA Number : 0312-01
NCDEHNR Number : 296
SCDHEC Number : 96019

For: EPA602 610(GC)
Date Sampled:Jan19 1993 Date Received:Jan21 1993 Lab Number : 12515A

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	12515 SWWELL
Naphthalene	ug/L	1.00	102.	2.35	<1.00
1-methyl-Naphthalene	ug/L	1.00	104.	1.84	<1.00
2-methyl-Naphthalene	ug/L	1.00	102.	.480	<1.00
Phenanthrene	ug/L	1.00	103.	3.56	<1.00
Pyrene	ug/L	1.00	103.	5.82	<1.00
Intl_QA_Spike(2FBP)	ug/L	1.00	103.	.960	109.
Surr_Spike(BN)	ug/L	1.00	102.	2.07	71.7

Data Release Authorization

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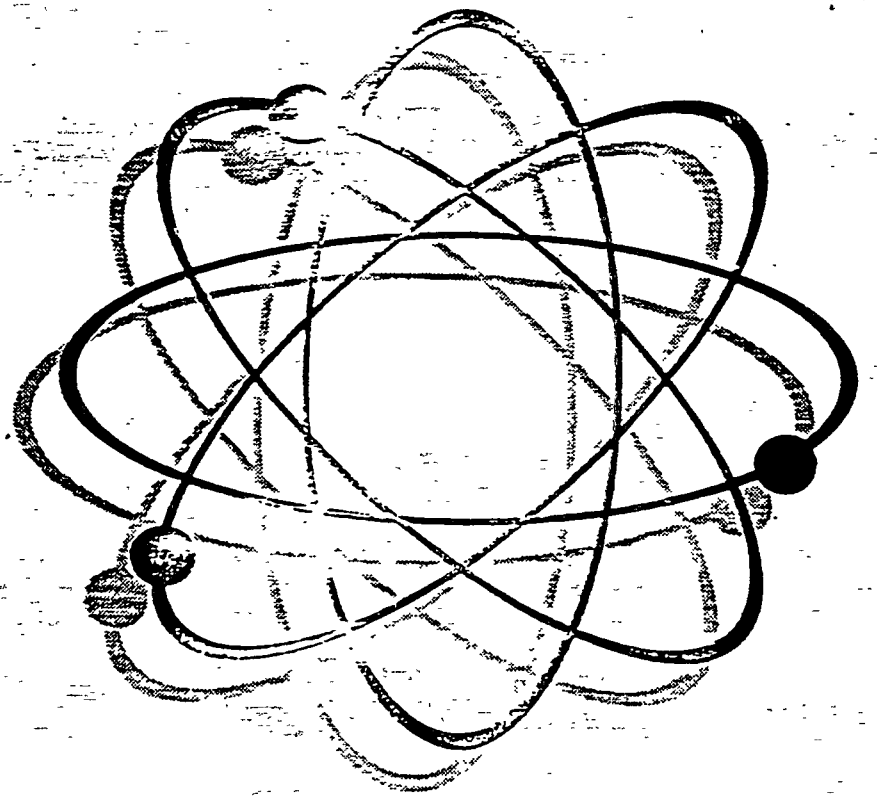
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS: (407) 339-5984

Quality Assurance Report

Prepared for: U.E.S. Gainsville
Project Number: N/A
Lab Numbers: 12515 - 12515

Report date: 28-Jan-93



ACCREDITED

FLOWERS CHEMICAL LABORATORIES

FLOWERS CHEMICAL LABORATORIES, INC.

QA Conformance Summary

Client: U.E.S. Gainsville
Project Number: N/A
P.O. Number: city lot-Palatka
Date Sampled: 19-Jan-93
Lab Numbers: 12515 - 12515

Sample Handling

Sample handling and holding time criteria were met for all samples.

Surrogate Compound Recoveries:

The recovery limits were met for all sample as shown in section 1. This represents complete success.

Accuracy / Precision:

The recovery limits were met for all compounds in the matrix spike as shown in section 2.
The recovery limits were met for all compounds in the matrix spike duplicate as shown in section 2.
The RSD was met for all compounds as shown in section 2.

Method Blanks:

No target compounds were found in the method blank in excess of the method limit as shown in section 3.

QCCS Check Sample:

The control limits were met for all compounds as shown in section 4.

FLOWERS CHEMICAL LABORATORIES, INC.

Section 1

Surrogate Compound Recovery

Client: U.E.S. Gainsville
Project Number: N/A
P.O. Number: city lot-Palatka
Date Sampled: 19-Jan-93
Lab Numbers: 12515 - 12515

PID_Spike for EPA602
Unit of measure: ug/L

Surrogate Expected: 100
Acceptability Limits: 81.7 - 118

Laboratory Number	Site Description	Surrogate Recovered	Percent Recovered
12515	S.W. well	98.4	98.4

FLOWERS CHEMICAL LABORATORIES, INC.

Section 1

Surrogate Compound Recovery

Client: U.E.S. Gainsville
Project Number: N/A
P.O. Number: city lot-Palatka
Date Sampled: 19-Jan-93
Lab Numbers: 12515 - 12515

Intl_QA_Spike(2FBP) for EPA625 Surrogate Expected: 100
Unit of measure: ug/L Acceptability Limits: 77.5 - 121

Laboratory Number	Site Description	Surrogate Recovered	Percent Recovered
12515	S.W. well	109	109

FLOWERS CHEMICAL LABORATORIES, INC.

Section 2

Matrix Spike Recovery

Client: U.E.S. Gainsville
Project Number: N/A
P.O. Number: city lot-Palatka
Date Sampled: 19-Jan-93
Lab Numbers: 12515 - 12515

Analyte	Unit	Analysis Method	Date	Spike Added	Sample Conc.	MS Conc.	MS Rec.	MSD Conc.	MSD Rec.	Acceptable Limits	RSD	Acceptable Limits
o-dichlorobenzene	ug/L	EPA602	01-21-93	40	<0.5	40.3	101%	38.4	96.1%	29.4 - 48.0	1.31	0 - 6.95
m-dichlorobenzene	ug/L	EPA602	01-21-93	40	<0.5	40.7	102%	40.1	100%	29.5 - 48.1	0.459	0 - 6.15
Para-dichlorobenzene	ug/L	EPA602	01-21-93	40	<0.5	40.5	101%	39.5	98.7%	28.0 - 48.5	0.712	0 - 6.46
Benzene	ug/L	EPA602	01-21-93	40	<0.5	39.9	99.6%	39.3	98.2%	30.8 - 47.2	0.397	0 - 4.81
Chlorobenzene	ug/L	EPA602	01-21-93	40	<0.5	38.6	96.5%	38.5	96.3%	30.1 - 48.0	0.040	0 - 6.39
Ethylbenzene	ug/L	EPA602	01-21-93	40	<0.5	40.5	101%	39.7	99.3%	30.0 - 46.9	0.537	0 - 5.26
Toluene	ug/L	EPA602	01-21-93	40	<0.5	40.3	101%	39.7	99.3%	31.0 - 46.6	0.422	0 - 4.55
Xylene	ug/L	EPA602	01-21-93	120	<0.5	120	100%	117	97.9%	94.1 - 137	1.84	0 - 14.8
Methyl-tert-butylether	ug/L	EPA602	01-21-93	40	<0.5	39.9	99.8%	39.2	97.9%	29.0 - 50.5	0.533	0 - 6.58
Total_BTEX	ug/L	EPA602	01-21-93	240	<0.5	241	100%	236	98.4%	189 - 276	3.19	0 - 23.1
Acenaphthylene	ug/L	EPA625	01-27-93	100	<1	102	102%	104	104%	81.7 - 117	1.34	0 - 10.5
Acenaphthene	ug/L	EPA625	01-27-93	100	<1	102	102%	104	104%	82.0 - 116	1.06	0 - 9.93
Anthracene	ug/L	EPA625	01-27-93	100	<1	101	101%	106	106%	79.5 - 119	3.68	0 - 16.2
Benzo(a)anthracene	ug/L	EPA625	01-27-93	100	<1	97.2	97.2%	107	107%	76.3 - 121	7.21	0 - 15.9
Benzo(a)pyrene	ug/L	EPA625	01-27-93	100	<1	97.1	97.1%	110	110%	76.5 - 122	8.84	0 - 19.1
Benzo(b)fluoranthene	ug/L	EPA625	01-27-93	100	<1	94.7	94.7%	107	107%	79.4 - 120	8.70	0 - 15.2
Benzo(g,h,i)perylene	ug/L	EPA625	01-27-93	100	<1	86.0	86.0%	100	100%	75.6 - 123	9.97	0 - 19.5
Benzo(k)fluoranthene	ug/L	EPA625	01-27-93	100	<1	94.7	94.7%	107	107%	79.2 - 120	8.70	0 - 15.3
Chrysene	ug/L	EPA625	01-27-93	100	<1	97.2	97.2%	107	107%	77.8 - 120	7.21	0 - 16.4
Dibnz(a,h)anthracene	ug/L	EPA625	01-27-93	100	<1	86.1	86.1%	106	106%	75.6 - 122	14.0	0 - 19.6
Fluoranthene	ug/L	EPA625	01-27-93	100	<1	99.3	99.3%	108	108%	81.5 - 117	5.94	0 - 12.8
Fluorene	ug/L	EPA625	01-27-93	100	<1	102	102%	105	105%	81.6 - 117	1.84	0 - 11.1
Indn(1,2,3-cd)pyrene	ug/L	EPA625	01-27-93	100	<1	86.1	86.1%	106	106%	76.9 - 120	14.0	0 - 17.4
Naphthalene	ug/L	EPA625	01-27-93	100	<1	100	100%	104	104%	79.9 - 119	2.40	0 - 11.2
1-Methyl-Naphthalene	ug/L	EPA625	01-27-93	103.8	<1	106	102%	109	105%	86.0 - 122	1.98	0 - 11.6
2-Methyl-Naphthalene	ug/L	EPA625	01-27-93	99.36	<1	101	102%	102	102%	83.5 - 115	0.495	0 - 10.4
Phenanthrene	ug/L	EPA625	01-27-93	100	<1	101	101%	106	106%	80.3 - 118	3.68	0 - 15.1
Pyrene	ug/L	EPA625	01-27-93	100	<1	99.0	99.0%	108	108%	80.7 - 118	6.01	0 - 12.9

FLOWERS CHEMICAL LABORATORIES, INC.

Section 3

Method Blank Report

Client: U.E.S. Gainsville
Project Number: N/A
P.O. Number: city lot-Palatka
Date Sampled: 19-Jan-93
Lab Numbers: 12515 - 12515

Analyte	Unit	Method	Date	Concentration
o-dichlorobenzene	ug/L	EPA602	01-21-93	<0.5
m-dichlorobenzene	ug/L	EPA602	01-21-93	<0.5
Para-dichlorobenzene	ug/L	EPA602	01-21-93	<0.5
Benzene	ug/L	EPA602	01-21-93	<0.5
Chlorobenzene	ug/L	EPA602	01-21-93	<0.5
Ethylbenzene	ug/L	EPA602	01-21-93	<0.5
Toluene	ug/L	EPA602	01-21-93	<0.5
Xylene	ug/L	EPA602	01-21-93	<0.5
Methyl-tert-butylether	ug/L	EPA602	01-21-93	<0.5
Total_BTEX	ug/L	EPA602	01-21-93	<0.5
Acenaphthylene	ug/L	EPA625	01-27-93	<1
Acenaphthene	ug/L	EPA625	01-27-93	<1
Anthracene	ug/L	EPA625	01-27-93	<1
Benzo(a)anthracene	ug/L	EPA625	01-27-93	<1
Benzo(a)pyrene	ug/L	EPA625	01-27-93	<1
Benzo(b)fluoranthene	ug/L	EPA625	01-27-93	<1
Benzo(g,h,i)perylene	ug/L	EPA625	01-27-93	<1
Benzo(k)fluoranthene	ug/L	EPA625	01-27-93	<1
Chrysene	ug/L	EPA625	01-27-93	<1
Dibnz(a,h)anthracene	ug/L	EPA625	01-27-93	<1
Fluoranthene	ug/L	EPA625	01-27-93	<1
Fluorene	ug/L	EPA625	01-27-93	<1
Indn(1,2,3-cd)pyrene	ug/L	EPA625	01-27-93	<1
Naphthalene	ug/L	EPA625	01-27-93	<1
1-Methyl-Naphthalene	ug/L	EPA625	01-27-93	<1
2-Methyl-Naphthalene	ug/L	EPA625	01-27-93	<1
Phenanthrene	ug/L	EPA625	01-27-93	<1
Pyrene	ug/L	EPA625	01-27-93	<1

FLOWERS CHEMICAL LABORATORIES, INC.

Section 4

QCCS Sample Recovery

Client: U.E.S. Gainsville
Project Number: N/A
P.O. Number: city lot-Palatka
Date Sampled: 19-Jan-93
Lab Numbers: 12515 - 12515

Analyte	Unit	Method	Date	QCCS Expected	QCCS Measured	Rec. %	Acceptable Limits
o-dichlorobenzene	ug/L	EPA602	01-21-93	40.0	40.1	100%	30.7 - 47.6
m-dichlorobenzene	ug/L	EPA602	01-21-93	40.0	39.6	99.1%	30.7 - 47.2
Para-dichlorobenzene	ug/L	EPA602	01-21-93	40.0	39.3	98.2%	30.4 - 47.7
Benzene	ug/L	EPA602	01-21-93	40.0	38.9	97.3%	35.0 - 42.6
Chlorobenzene	ug/L	EPA602	01-21-93	40.0	40.0	100%	31.6 - 47.0
Ethylbenzene	ug/L	EPA602	01-21-93	40.0	38.9	97.3%	34.1 - 43.0
Toluene	ug/L	EPA602	01-21-93	40.0	39.0	97.5%	34.3 - 43.2
Xylene	ug/L	EPA602	01-21-93	120	117	97.4%	102 - 129
Methyl-tert-butylether	ug/L	EPA602	01-21-93	40.0	39.9	99.7%	33.2 - 46.1
Total_BTEX	ug/L	EPA602	01-21-93	240	234	97.4%	204 - 259
Acenaphthylene	ug/L	EPA625	01-27-93	100	104	104%	85.6 - 115
Acenaphthene	ug/L	EPA625	01-27-93	100	104	104%	85.5 - 116
Anthracene	ug/L	EPA625	01-27-93	100	106	106%	70.9 - 130
Benzo(a)anthracene	ug/L	EPA625	01-27-93	100	107	107%	70.6 - 129
Benzo(a)pyrene	ug/L	EPA625	01-27-93	100	110	110%	65.5 - 133
Benzo(b)fluoranthene	ug/L	EPA625	01-27-93	100	107	107%	73.8 - 127
Benzo(g,h,i)perylene	ug/L	EPA625	01-27-93	100	100	100%	69.0 - 130
Benzo(k)fluoranthene	ug/L	EPA625	01-27-93	100	107	107%	73.3 - 127
Chrysene	ug/L	EPA625	01-27-93	100	107	107%	72.4 - 127
Dibnz(a,h)anthracene	ug/L	EPA625	01-27-93	100	106	106%	67.4 - 132
Fluoranthene	ug/L	EPA625	01-27-93	100	108	108%	81.9 - 119
Fluorene	ug/L	EPA625	01-27-93	100	105	105%	84.5 - 116
ndn(1,2,3-cd)pyrene	ug/L	EPA625	01-27-93	100	106	106%	71.0 - 128
Naphthalene	ug/L	EPA625	01-27-93	100	104	104%	83.4 - 118
1-Methyl-Naphthalene	ug/L	EPA625	01-27-93	104	109	105%	84.1 - 121
2-Methyl-Naphthalene	ug/L	EPA625	01-27-93	99.4	102	102%	77.4 - 120
Phenanthrene	ug/L	EPA625	01-27-93	100	106	106%	74.8 - 124
Pyrene	ug/L	EPA625	01-27-93	100	108	108%	79.1 - 122

997

FLOWERS CHEMICAL LABORATORIES

ANALYTICAL RESULTS FORM HRS Number 83139

Parameter	Symbol	Unit	S.W. well 12515	QA Section Method	MDL	%RSD	%Rec	Analyst	Date
Dilution Factor		#	1		1			DO	01-21-93
o-dichlorobenzene		ug/L	<0.5	EPA602	0.5	3.34	98.4	DO	01-21-93
m-dichlorobenzene		ug/L	<0.5	EPA602	0.5	1.14	101	DO	01-21-93
Para-dichlorobenzene		ug/L	<0.5	EPA602	0.5	1.78	100	DO	01-21-93
Benzene		ug/L	<0.5	EPA602	0.5	1.00	98.9	DO	01-21-93
Chlorobenzene		ug/L	<0.5	EPA602	0.5	0.103	96.4	DO	01-21-93
Ethylbenzene		ug/L	<0.5	EPA602	0.5	1.34	100	DO	01-21-93
Toluene		ug/L	<0.5	EPA602	0.5	1.05	100	DO	01-21-93
Xylene		ug/L	<0.5	EPA602	0.5	1.55	99.0	DO	01-21-93
Methyl tert-butylether		ug/L	<0.5	EPA602	0.5	1.35	98.8	DO	01-21-93
Total BTEX		ug/L	<0.5	EPA602	0.5	1.34	99.4	DO	01-21-93
P/T Spike		ug/L	98.4	EPA602	0.5	1.80	97.4	DO	01-21-93
[redacted]									
Acenaphthylene		ug/L	<1	EPA625	1	1.30	103	CLS	01-27-93
Acenaphthene		ug/L	<1	EPA625	1	1.03	103	CLS	01-27-93
Anthracene		ug/L	<1	EPA625	1	3.56	103	CLS	01-27-93
Benzo(a)anthracene		ug/L	<1	EPA625	1	7.05	102	CLS	01-27-93
Benzo(a)pyrene		ug/L	<1	EPA625	1	8.55	103	CLS	01-27-93
Benzo(b)fluoranthene		ug/L	<1	EPA625	1	8.62	101	CLS	01-27-93
Benzo(g,h,i)perylene		ug/L	<1	EPA625	1	10.7	93.1	CLS	01-27-93
Benzo(k)fluoranthene		ug/L	71.7	EPA625	1	8.62	83.9	CLS	01-27-93
Chrysene		ug/L	<1	EPA625	1	7.05	102	CLS	01-27-93
Dibnz(a,h)anthracene		ug/L	<1	EPA625	1	14.6	96.0	CLS	01-27-93
Fluoranthene		ug/L	<1	EPA625	1	5.74	104	CLS	01-27-93
Fluorene		ug/L	<1	EPA625	1	1.78	103	CLS	01-27-93
Indn(1,2,3-cd)pyrene		ug/L	<1	EPA625	1	14.6	96.0	CLS	01-27-93
Naphthalene		ug/L	<1	EPA625	1	2.35	102	CLS	01-27-93
1-Methyl-Naphthalene		ug/L	<1	EPA625	1	1.84	104	CLS	01-27-93
2-Methyl-Naphthalene		ug/L	<1	EPA625	1	0.488	102	CLS	01-27-93
Phenanthrene		ug/L	<1	EPA625	1	3.56	103	CLS	01-27-93
Pyrene		ug/L	<1	EPA625	1	5.82	103	CLS	01-27-93
[redacted] Spike(2FBP)		ug/L	109	EPA625	1	0.960	103	CLS	01-27-93
[redacted] Spike(BN)		ug/L	<1	EPA625	1	2.07	102	CLS	01-27-93

Date Received: 01-21-93 Typed: 01-28-93 Sent: 01-28-93

Project Number	N/A
PO Number	city lot-Palatka
Date Sampled	1 01-19-93
Date Analyzed	0
Compacted	0
Format	NormRR
Unit Cost	Exted
EPA602	6500 1
610(GC)	8500 1

0.00

ENGINEERING SCIENCES, INC.

Consultants in: Geotechnical Engineering
Environmental Sciences   Construction Materials Testing

CHAIN OF CUSTODY RECORD

Page 1 of 1

NO.

PROJECT NAME/ADDRESS: [illegible]

'S (SIGNATURE): [illegible]

LOCATION	DATE	TIME	COMPOSITE	GRAB	DESCRIPTION	TOTAL NO. OF CONTAINERS	ANALYTICAL PARAMETERS (EPA TEST METHOD): 602	610										REMARKS/ PRESERVATIVES USED
	1/[illegible]	[illegible]		✓	Water	3	✓	✓										Lab# 12515

RELINQUISHED BY: [illegible]	DATE/TIME: 1/20/93	RECEIVED BY:	RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:
RELINQUISHED BY:	DATE/TIME: 1/21/93 8:40	RECEIVED FOR LABORATORY BY: [signature]	NAME OF LAB.		REMARKS.

Florida Department of Environmental Regulation

Northeast District • Suite B200, 7825 Baymeadows Way • Jacksonville, Florida 32256-7577

Lawton Chiles, Governor

Carol M Browner, Secretary

January 25, 1993

Mr. David P. Crane
Universal Engineering Sciences
1205-D Elizabeth Street
Purta Gorda, Florida 33950

Dear Mr. Crane:

RE: City of Palatka - Maintenance Lot
1016 Ocean Street
DER Facility #548521034

The above referenced facility is eligible for reimbursement under the Abondoned Tank Restoration Program (ATRP).

Please refer all future correspondence and documents directly to Tallahassee.

If you have any questions, please contact me at the letterhead address or telephone (904) 448-4320, ext. 362.

Sincerely,

J. P. Brewer

Jan P. Brewer
Environmental Specialist
Pollutant Storage Tanks

JPB:ps

Administration 448-4300
Air 448-4310
Waste Management 448-4320

Water Facilities 448-4330
Water Management 448-4340
FAX 448-4366

DEPARTMENT OF ENVIRONMENTAL REGULATION

INTEROFFICE MEMORANDUM

To: _____
To: _____
To: _____
To: _____

NORTHEAST DISTRICT - JACKSONVILLE

TO: Guillermo Wibmer - BWC

THROUGH: Larry L. Krestalude *eqc* Northeast District

FROM: Jan P. Brewer - Northeast District

DATE: January 25, 1993

SUBJECT: Remedial Action Plan
City of Palatka - Maintenance Lot - 1016 Ocean Street
DER Facility #548521034

Enclosed is a copy of the Remedial Action Plan recently received by this office regarding the referenced facility.

It is requested that your section review the information and submit its comments directly to the responsible party.

If additional information is requested regarding this site, you may contact me at S/C 880-4320 ext. 362.

JPB:ps

Enclosure(s)

UNIVERSAL
ENGINEERING SCIENCES
Consultants In Geotechnical Engineering •
Environmental Sciences • Construction Materials Testing

Offices In
• Orlando
• Gainesville
• Fort Myers
• Merritt Island
• Daytona Beach
• West Palm Beach

January 19, 1993

Florida Department of Environmental Regulation
Northeast District
7825 Baymeadows Way, Suite 200B
Jacksonville, Florida 32256-7577

Attention: Mr. Brian K Kelley
Pollutant Storage Tanks

Reference: Remedial Action Plan
City Maintenance Lot
1016 Ocean Street
Palatka, Florida
DER Facility No. 548521034

Dear Mr. Kelley.

On behalf of the City of Palatka, Universal Engineering Sciences (UES) submits the referenced Remedial Action Plan (RAP) for your review. The RAP has been designed to clean up contamination located at the southern end of the maintenance yard.

We appreciate your patience in awaiting this RAP and assure you that we will work to complete future phases of the project according to schedule. Please feel free to contact me at (813) 637-8488 with any questions you may have regarding this document

Respectfully submitted,

Universal Engineering Sciences, Inc.

David P. Crane, P.E
Senior Environmental Engineer

cc: Addressee (2)
City of Palatka - Mr Allen R Bush (2)
UES Gainesville (1)

State of Florida
DEPARTMENT OF ENVIRONMENTAL REGULATION

For Routing To Other Than The Addressee

To _____ Location _____

To _____ Location _____

To _____ Location _____

From _____ Date _____

Interoffice Memorandum

TO: Guillermo Wibmer - BWC Technical Review Section

Tom Conrardy - BWC Engineering Support Section

Chuck Williams - BWC - Petroleum Contamination Reimbursement Section

THROUGH: Larry L. Krestalude - Northeast District

FROM: Brian K. Kelley - Northeast District

DATE: January 12, 1993

SUBJECT: Petroleum Contamination
Palatka City Maintenance Facility - 1016 Ocean St.
DER Facility #549102245 & #548521034

Following review of a Contamination Assessment Report (CAR) submitted for the referenced facility, the Technical Review Section requested that the responsible party submit a Remedial action Plan (RAP) to the Engineering Support Section. The Remedial Action Plan has not been submitted to date. The cleanup of the site is reimbursable under the Abandoned Tank Restoration Program (ATRP) under DER Facility #549102245.

Recently, a gasoline tank was removed from another tank excavation at the same facility, listed under DER Facility #548521034. Contamination was discovered during this tank removal; however, the District is still awaiting a closure assessment report. Based on the proximity of the #548521034 tank excavation and the contamination documented in the #549102245 CAR, a possibility exists that the two (2) plumes may intermingle. Moreover, modifications may be required regarding the RAP. According to our records the #548521034 site does not qualify for reimbursement under any assistance program.

The closure report will be sent to the Technical Review Section once received by the District. If you have any questions, you may contact me at S/C 880-4320, ext. 357.

BKK:rs
Attachment(s)

Florida Department of Environmental Regulation

Twin Towers Office Bldg • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

DER Form 17-761.900(1)
Form Title Discharge Reporting Form
Effective Date December 10 1990
DER Application No. _____ (Filed in by DER)

Discharge Reporting Form

Use this form to notify the Department of Environmental Regulation of:

1. Results of tank tightness testing that exceed allowable tolerances within ten days of receipt of test result.
2. Petroleum discharges exceeding 25 gallons on pervious surfaces as described in Section 17-761.460 F.A.C. within one working day of discovery.
3. Hazardous substance (CERCLA regulated), discharges exceeding applicable reportable quantities established in 17-761.460(2) F.A.C., within one working day of the discovery.
4. Within one working day of discovery of suspected releases confirmed by: (a) released regulated substances or pollutants discovered in the surrounding area, (b) unusual and unexplained storage system operating conditions, (c) monitoring results from a leak detection method or from a tank closure assessment that indicate a release may have occurred, or (d) manual tank gauging results for tanks of 550 gallons or less, exceeding ten gallons per weekly test or five gallons averaged over four consecutive weekly tests.

File copy
MAINTENANCE

Mail to the DER District Office in your area listed on the reverse side of this form

PLEASE PRINT OR TYPE

Complete all applicable blanks

1. DER Facility ID Number: 548521034 2. Tank Number: 3 3. Date: December 16, 1992
4. Facility Name: City Lot

   Facility Owner or Operator: City of Palatka

   Facility Address: 1001 North 11th Avenue, Palatka, Florida

   Telephone Number (904) 329-0107 County: Putnam

   Mailing Address: 201 North 2nd Street
5. Date of receipt of test results or discovery December 16, 1992 month/day/year
6. Method of initial discovery (circle one **only**)

   A Liquid detector (automatic or manual) D Emptying and Inspection F Vapor or visible signs of a discharge in the vicinity
   B Vapor detector (automatic or manual) E Inventory control G. Closure Soil Screening (explain)
   C Tightness test (underground tanks only) H. Other _____
7. Estimated number of gallons discharged Unknown
8. What part of storage system has leaked? (circle all that apply) A Dispenser B Pipe C. Fitting (D) Tank E Unknown
9. Type of regulated substance discharged (circle one)

   A. leaded gasoline D vehicular diesel L used/waste oil V hazardous substance includes pesticides, ammonia, chlorine and derivatives (write in name or Chemical Abstract Service CAS number) _____
   (B) unleaded gasoline F aviation gas M diesel
   C gasohol G jet fuel O. new/lube oil Z. other (write in name) _____
10. Cause of leak (circle all that apply)

    A. Unknown C Loose connection (E.) Puncture G Spill _____ I. Other (specify) _____
    B Split D. Corrosion F. Installation failure (H) Overfill _____
11. Type of financial responsibility. (circle one)

    A. Third party insurance provided by the state insurance contractor C. Not applicable
    B Self-insurance pursuant to Chapter 17-769.500 F.A.C. (D) None
12. **To the best of my knowledge and belief all information submitted on this form is true, accurate, and complete.**

    John Cullinan UES Geologist — Printed Name of Owner, Operator or Authorized Representative

    John Cullinan — Signature of Owner, Operator or Authorized Representative

Northwest District
160 Governmental Center
Pensacola, Florida 32501-5794
904-436-8300

Northeast District
7825 Baymeadows Way Suite B 200
Jacksonville, Florida 32207
904-798-4200

Central District
3319 Maguire Blvd. Suite 232
Orlando, Florida 32803-3767
407-894-7555

Southwest District
4520 Oak Fair Blvd
Tampa, Florida 33610-7347
813-623-5561

South District
2269 Bay St
Fort Myers, Florida 33901-2896
813-332-6975

Southeast District
1900 S Congress Ave. Suite A
West Palm Beach, Florida 33406
407-433-2650

NOTIFICATION OF INTERIM REMEDIAL ACTIONS FAC CHAPTER 17.770

CONTAMINATED SOIL REMOVAL AND TREATMENT ACTIVITIES

SITE LOCATION: City Lot

1001 North 11th Street Avenue, Palatka, Florida

ACTIVITY DATE: December 16, 1992 DATE NOTIFICATION SENT: December 18, 1992

U.E.S. GEOLOGIST: John Cullinan

CHAPTER 17-770.300 (8)

A. ESTIMATE OF VOLUME OF CONTAMINATED SOILS EXCAVATED: 200 yards

PRODUCT TYPE OF CONTAMINANT: Unleaded Gasoline

B. QUANTITATIVE METHOD FOR DETERMINING EXCESS SOIL CONTAMINATION:

Thermo-Environmental Instruments

OVM - Photo-Ionization Detector

C. TREATMENT OF EXCAVATED MATERIAL: Landfarm on City of Palatka property

DISPOSAL OF EXCAVATED MATERIAL: Will be determined upon completion of landfarming operation

NOTES:

Tanks

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION
POLLUTANT STORAGE TANK SYSTEM
INSPECTION REPORT FORM - COVER PAGE

PRINTED: 12/18/9

FACILITY ID #: 548521034 COUNTY: PUTNAM
FACILITY NAME: PALATKA CITY-MAINTENANCE
FACILITY LOCATION: 1016 OCEAN ST, PALATKA
FACILITY CONTACT: PALATKA CITY PHONE: (904) 329-0100
OWNER: PALATKA CITY PHONE: (904) 329-0100
OWNER ADDRESS: 201 N 2ND ST, PALATKA, FL, 32177-3735
OWNER CONTACT: ALLEN BUSH OWNER CHANGE DATE: 10/15/85
LATITUDE:29-39-00 LONGITUDE:81-38-15 FAC TYPE: LOCAL, CITY GOVERNMENT
LAST UST COMPLIANCE DATE:01/13/92 LAST AST COMPLIANCE DATE:00/00/0

TANK #	SIZE	CONTENT	INSTALL DATE	UNDER OR ABOVE	TANK TYPE	INTEGRAL PIPING	MONITORING SYSTEM	TAN STA
1	1000	B	XX/XX	U	C	B	Y	B
2	1000	B	XX/XX	U	C	B	Y	B
3	3000	B	05/73	U	C	B	B	U
4	500	D	XX/XX	A	C	B	I	U

NORTHEAST DISTRICT
RECEIVED
DEC 18 1992
DER-JACKSONVILLE

COMMENTS: This facility now has no current regulated Tanks on location

(1) Tank #3 - Removed 12/16/92 Soil will be aireated at site.

(2) Owner needs to change tank registration - status Close

INSPECTION TYPE (CHOOSE ONE)
- X ROUTINE
- __ INSTALL
- __ ABANDONED
- Both of
- __ DISCHARGE
- X CLOSURE
- __ REINSPECT

SITE INFORMATION (ALL THAT APPLY)
- __ NEAR PUB WELL
- __ CONTAMINATED
- __ COMPLAINT
- __ ACID TANKS
- __ REPAIRED
- __ UPGRADED
- __ UST & AST
- __ HAZARD MAT

DER DISTRICT OR LOCAL PROGRAM: Northeast Dist / Putnam County

INSPECTOR NAME (PRINT) David A. Flowers
David A. Flowers 12/18/92
INSPECTOR'S SIGNATURE & DATE

CONTACT NAME (PRINT) Allen Bush
12/18/92
CONTACT'S SIGNATURE & DATE

Name FAIXTRA WAY - MAINTENANCE
Facility ID # 54 8521034
Date 12/18/92

UNDERGROUND STORAGE TANK CLOSURE INSPECTION FORM

			Yes	No	Unk	N/A
I	**REGISTRATION AND NOTIFICATION** 17-761.400 & 450 FAC Comments					
1.	All of the facility's tanks properly registered; .400	1.	✓			
2	Proper notification made 30 days prior to tank(s) closure, 450 (1) (a)	2.		✓		
3.	Proper notice given 24 hours prior to storage tank(s) closure; 450 (4)	3.		✓		

* No per David Flowers City removed the tank - No PSSC

II	**CLOSURE PROCEDURES/STATUS** 17 761 800 Comments					
4.	Certified contractor performed the tank removal(s); 740 (2)	4	✓			
5.	Storage tank(s) properly closed and removed from the site, (2) (d)	5.	✓			
6.	Storage tank(s) properly closed and filled in place, (2) (d)	6.				✓
7.	Storage tank(s) properly closed within 90 days of discovery, (2) (a)	7				✓
8.	All liquid & sludge removed from the tank(s); (2) (d)	8.	✓			
9	Storage tanks properly purged or inerted prior to transport, (2) (d)	9	✓			
10.	All piping capped and/or removed;	10.	✓			
11	All monitoring wells left in place for contamination assessment purposes, (2) (f)	11				
12.	All monitoring wells have been properly abandoned; 800 (2) (f)	12				
13	A closure assessment was properly performed, 800 (3),	13	✓			

III	**DISCHARGE REPORTING** 17-761 460, F A C Comments					
14	Evidence of contamination or a discharge reported (Explain in comments) 460 (1), (2) and (3)	14	✓			
15	Discharge Reporting Form (DRF) submitted, 460 (2)	15	✓			

IV	**DISCHARGE RESPONSE** Comments					
16	Free product present, (Explain in comments)	16				✓
17	Free product being removed, 17-761 800 (3) (d) & 17-761 820 (2)	17				✓

Comments

(*) MR. JOHN CULLINAN (UNIVERSAL ENGINEERING SERVICES) CALLED TO SAY TANK (15) WAS PULLED 12/16/92 3,000 gal UST, OVA reading found CONTAMINATED SOIL IS ON SITE - CAR + Discharge Form will be Mailed today.

DER Form 761-04-91 (1 Page)

INSPECTOR COPY

Name WAIATKA Lily - MAINTENANCE
Facility ID #. 548521034
Date. 12/18/92

UNDERGROUND STORAGE TANK COMPLIANCE INSPECTION FORM

			Yes	No	Unk	N/A
I	**REGISTRATION/NOTIFICATION** Comments					
1.	Facility has registered all applicable tanks on site; 17-761.400	1	✓			
2	Current registration placard is properly displayed, 17-761.410(6)	2	✓			
	Proper notification has been made for the following, 17-761 450					
3.	Proper closure (30 days prior), (1) (a)	3		✓		
4	Change of ownership (30 days after), (1) (b)	4				✓
5.	Upgrading, replacement or installation (30 days prior), (1) (c)	5				✓
6	Change of tank status (in service/out of service), (within 30 days), (1) (d)	6				✓
7.	Change of facility status (e.g. substances stored), (within 30 days), (1) (e)	7				✓
8	Change of method of financial responsibility (within 30 days), (3)	8.				✓
9.	Start of closure, upgrades or installation (24 hr. verbal or written), (4)	9.				✓
II	**RECORD KEEPING** Comments					
10.	All records were maintained for two (2) years and were available for inspection within five (5) working days, 17-761.710 (1)	10	✓			
11	Some but not all records were maintained for two (2) years and were available for inspection within five (5) working days, 17-761 710 (1)	11				✓
III	**REPORTING/DISCHARGE RESPONSE/REPAIRS** Comments 3,000 gal UST - Removed 12/16/92					
	Proper reporting requirements been met for the following, 17-761 460					
12	Results of tightness test, (1)	12.		✓		✓
13	Any spill, overfill, or other discharge within one working day of discovery, (2)	13	+	✓		
14	Suspected releases within one working day of discovery, (3) (a), (b)	14				✓
15	Confirmed releases (positive response of a release detection device) within one working day of discovery, (3) (c)	15				✓
	The owner or the operator of the system which has discharged has					
16	Taken it out-of-service, 17-761.700 (1), had it repaired or replaced, .700, or properly closed it. .820 (1)	16.				✓
17	Removed any regulated substances from the system, 17-761 820 (1)	17.				✓
18.	Tightness tested all repaired components before placing them back in service, 17-761.700 (6)	18.				✓
19	Had repairs or replacements performed by a certified contractor, 489 105 (3)	19				✓
20.	Had tightness tests performed by registered tank tester, 17-761.200	20.				✓
21	Begun initial corrective actions for a release, 17-761 820 (2)	21				✓
IV	**INVENTORY REQUIREMENTS** Comments					
22	All inventory requirements maintained in accordance with 17-761 720 (1)	22	✓			
23	Some, but not all inventory requirements maintained in accordance with 17-761 720 (1)	23				✓
V	**PERFORMANCE STANDARDS/CATHODIC PROTECTION** Comments					
	Storage tank criteria, 17-761.500, 520 and 550					
24	Facility meets applicable storage tank standards, (1)	24	✓			N/A
25	Systems meet siting requirements, (4)	25.	✓			N/A
26	Tank(s) equipped with spill containment, (5) (b)	26				✓
27.	Tank(s) equipped with overfill protection; (5) (b)	27.	✓			N/A
28	Facility meets construction upgrading schedule, 17-761 510	28	✓			N/A

INSPECTOR COPY

Name Pahokee City - Main
Facility ID # 548521034
Date 12/18/92

UNDERGROUND STORAGE TANK COMPLIANCE INSPECTION FORM

			Yes	No	Unk	N/A
V	**PERFORMANCE STANDARDS/CATHODIC PROTECTION** Continued					
	Piping criteria, 17-761 500					
29	New piping has secondary containment, (2)	29				✓
30	Dispensers are upgraded with properly installed and maintained liners, (6)	30				✓
31	Facility meets construction upgrading schedule, 17-761 510 (6)	31	✓			
	Cathodic Protection/Certified Contractors /Tightness Testing					
32	Cathodic protection system provides continuous protection, 17-761 730 (1)-(4)	32				✓
33	PSSSC conducted all storage tank repairs, installations or removals, 17-761 740 (1)-(9)	33				✓
34	Test performed by a D.P.R. registered tester, 17-761 740	34				✓
VI	**RELEASE DETECTION/MONITORING WELLS** Comments					
35	New petroleum or hazardous substance storage tanks provided with an approved release detection system upon installation, 17-761 600 (3)	35				✓
36	All release detection systems meet general release standards, 17-761 600	36	✓			
37	Release detection systems are monitored for a discharge at least every 30 days, 17-761 600 (5)	37	✓			
38	Groundwater monitoring wells are properly sampled and meet the requirements of 17-761 640 (1)	38	✓			
39	Vapor monitoring wells are properly sampled and meet the requirements of 17-761 640 (2)	39				✓
	An approved release detection system is provided for					
40	Existing hazardous substance storage tanks, 17-761 560	40				✓
41	Existing vehicular fuel storage tanks, 17-761 610	41	✓			
42	Other existing regulated substance storage tanks, 17-761 620	42				✓
43	Integral piping provided with secondary containment, 17-761 630	43				✓
44	Integral piping without secondary containment, 17-761 640 (8)	44				✓
VII	**OUT-OF-SERVICE STATUS** Comments					
45	Storage systems have been emptied of regulated substances, 17-761 200 (26)	45				✓
	Out-of-Service storage tank systems have, 17-761 800					
46	Corrosion protection properly maintained, (1) (a) (1)	46				✓
47	Release detection system monitored for evidence of a discharge at least every six months, (1) (a) (2)	47				✓
48	Vent lines open, ancillary equipment secured, (1) (b)	48				✓
49	Been upgraded or replaced before returning to service, (1) (c)	49				✓
50	Been tested tight before returning to service, (1) (c)	50				✓
51	Been out-of-service for no more than two years, (1) (d)	51				✓
52	Been out-of-service for no more than 12 months (unprotected bare steel systems), (2) (b)	52				✓
53	Proper closure for an unmaintained tank, (2)	53				✓
54	Had a closure assessment properly performed, (3)	54				✓
VIII	**VARIANCE** Comments					
55	Facility applied for Alternate Procedure (Explain in comment) 17 761.850	55				✓
IX	**Other** Comments					
56	Any other violations noted during inspection (Explain in comments)	56				✓

INSPECTOR COPY

FLORIDA PETROLEUM LIABILITY INSURANCE AND RESTORATION PROGRAM COMPLIANCE CHECKLIST

DATE: Dec 18, 1992
DER FACILITY #: 548521034
FACILITY NAME: Palatka City - Maintenance
FACILITY ADDRESS: 1016 Ocean ST. - Palatka

CONTACT PERSON NAME & TELEPHONE: Allen Bush 329-0100
LATITUDE 29-39-00 LONGITUDE 81-38-15

I. COMPLIANCE WITH CHAPTER 376.3072 FLORIDA STATUTES AND CHAPTER 17-769 FLORIDA ADMINISTRATIVE CODE (FAC).

YES	NO	UNK.	
	✓		1. WAS ANY CONTAMINATION DISCOVERED PRIOR TO JANUARY 1, 1989? IF YES, EXPLAIN
		✓	2. PETROLEUM LIABILITY INSURANCE PROGRAM AFFIDAVIT FORM COMPLETED? IF YES, GIVE DATE NOTARIZED.
	✓		3. IS THE SITE INSURED BY FFLIPA? IF NOT, SUPPLY THE CARRIER INSURED WITH, OR OTHE TYPE OF FINANCIAL RESPONSIBILITY MECHANISM USED.
		✓	4. RESTORATION COVERAGE NOTICE OF ELIGIBILITY ISSUED IF YES. GIVE EFFECTIVE DATE.
	✓		5. HAS SITE ACCESS EVER BEEN DENIED? IF YES, GIVE DATE
✓			6. HAS A STORAGE TANK PROGRAM COMPLIANCE INSPECTION EVER BEEN PERFORMED FOR THIS FACILITY? IF YES, GIVE THE DATE OF THE MOST RECENT INSPECTION AND SUPPLY A COPY 12/18/92
✓			7. HAS THE SUSPECTED PETROLEUM STORAGE SYSTEM COMPONENT RESPONSIBLE FOR THE DISCHARGE BEEN REMOVED FROM SERVICE WITHIN 3 DAYS OF DISCOVERY? IF NO, EXPLAIN
✓			8. HAVE STEPS TO OBTAIN CLEANUP SERVICES BEEN INITIATED WITHIN 3 DAYS OF THE DISCHARGE DISCOVERY? IF NO, EXPLAIN Universal Engineering Sciences —

RESTORATION PROGRAM COMPLIANCE CHECKLIST

Yes / No

II. INFORMATION REQUIRED FOR SITE SCORING AND RANKING

✓ — 9. IS THERE EVIDENCE OF A CONTAMINATION PROBLEM? IF YES, EXPLAIN IN COMMENTS SECTION.

IF "YES" TO ITEM #9 CHECK ONE:

— A. TWO OR MORE MONITORING WELL/BOREHOLES SHOW >2" FREE PRODUCT

— B. ONLY 1 MONITORING WELL SHOW >2" FREE PRODUCT OR MONITORING WELLS SHOW <2" FREE PRODUCT OR PETROLEUM SHEEN.

— C. MONITORING WELLS ARE CONTAMINATED BUT CONTAIN NO FREE PRODUCT [VAPORS ONLY]

✓ D. SOIL CONTAMINATED AND/OR RECENT PRODUCT LOSS

CHECK ONE

10. CONTAMINATION PRODUCT TYPE

✓ A. LIGHT PETROLEUM [KEROSINE, GASOLINE (unleaded), AVIATION FUEL, ETC.]

— B. HEAVY PETROLEUM [FUEL OIL, DIESEL OR SIMILAR PETROLEUM PRODUCTS]

— C. UNKNOWN OR OTHER: _____

CHECK THOSE THAT APPLY

11. POTABLE WATER

— A. WITHIN 1/2 MILE: LARGE WELLS [>100,000GPD]
1. INDICATE DIRECTION: _____
2. ESTIMATE DISTANCE: _____

✓ B. WITHIN 1/4 MILE: SMALL WELLS [<100,000GPD]
1. INDICATE DIRECTION: N.S.
2. ESTIMATE DISTANCE: >500'

— C. SURFACE WATER BODY USED AS A PUBLIC WATER SYSTEM.

12. INDICATE BELOW THE PROXIMITY TO POPULATION CENTERS. [RESTAURANTS, SHOPPING CENTER, HOUSE, ETC.]

✓ A. ≤ 500 FEET: INDICATE DISTANCE >500'

— B. > 500 FEET: ESTIMATE DISTANCE _____

PLEASE INDICATE HOW THE SITE SCORING AND RANKING INFORMATION WAS DETERMINED. _____

FLORIDA PETROLEUM LIABILITY INSURANCE AND RESTOTATION PROGRAM COMPLIANCE CHECKLIST

COMMENTS City of Palatka pulled tank out of ground Certified contractor will remove - City of Palatka will supply manifest.

David A. Flowers
COMPLIANCE INSPECTOR

12/18/92
INSPECTION DATE

DER DISTRICT Northeast Dist

CORILOCAL PROGRAM Putnam County

Florida Department of Environmental Regulation
Twin Towers Office Bldg • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

DER Form 17-761.900(1)
Form Title Discharge Reporting Form
Effective Date December 10 1990
DER Application No. _____ (Filled in by DER)

Discharge Reporting Form

Use this form to notify the Department of Environmental Regulation of:

1. Results of tank tightness testing that exceed allowable tolerances within ten days of receipt of test result.
2. Petroleum discharges exceeding 25 gallons on pervious surfaces as described in Section 17-761.460 F.A.C. within one working day of discovery.
3. Hazardous substance (CERCLA regulated), discharges exceeding applicable reportable quantities established in 17-761.460(2) F.A.C., within one working day of the discovery.
4. Within one working day of discovery of suspected releases confirmed by: (a) released regulated substances or pollutants discovered in the surrounding area, (b) unusual and unexplained storage system operating conditions, (c) monitoring results from a leak detection method or from a tank closure assessment that indicate a release may have occurred, or (d) manual tank gauging results for tanks of 550 gallons or less, exceeding ten gallons per weekly test or five gallons averaged over four consecutive weekly tests.

Mail to the DER District Office in your area listed on the reverse side of this form

PLEASE PRINT OR TYPE
Complete all applicable blanks

1. DER Facility ID Number: 548521034 2. Tank Number: 3 3. Date: December 16, 1992
4. Facility Name: City Lot

   Facility Owner or Operator: City of Palatka

   Facility Address 1001 North 11th Avenue, Palatka, Florida

   Telephone Number (904) 329-0107 County: Putnam

   Mailing Address: 201 North 2nd Street
5. Date of receipt of test results or discovery: December 16, 1992 month/day/year
6. Method of initial discovery (circle one **only**)
   - A Liquid detector (automatic or manual)
   - B Vapor detector (automatic or manual)
   - C Tightness test (underground tanks only).
   - D Emptying and Inspection
   - E. Inventory control.
   - F Vapor or visible signs of a discharge in the vicinity
   - G Closure Soil Screening (explain)
   - H. Other: _____
7. Estimated number of gallons discharged Unknown
8. What part of storage system has leaked? (circle all that apply) A Dispenser B. Pipe C. Fitting (D) Tank E. Unknown
9. Type of regulated substance discharged. (circle one)
   - A leaded gasoline
   - (B) unleaded gasoline
   - C gasohol
   - D vehicular diesel
   - F aviation gas
   - G jet fuel
   - L used/waste oil
   - M diesel
   - O new/lube oil
   - V hazardous substance includes pesticides, ammonia, chlorine and derivatives (write in name or Chemical Abstract Service CAS number) _____
   - Z. other (write in name) _____
10. Cause of leak (circle all that apply)
    - A. Unknown
    - B. Split
    - C Loose connection
    - D. Corrosion
    - (E.) Puncture
    - F. Installation failure
    - G. Spill _____
    - (H) Overfill
    - I. Other (specify) _____
11. Type of financial responsibility. (circle one)
    - A. Third party insurance provided by the state insurance contractor
    - B Self-insurance pursuant to Chapter 17-769 500 F.A.C
    - C. Not applicable
    - (D) None
12. **To the best of my knowledge and belief all information submitted on this form is true, accurate, and complete.**

John Cullinan UES Geologist
Printed Name of Owner, Operator or Authorized Representative

Signature of Owner, Operator or Authorized Representative

Northwest District 160 Governmental Center Pensacola, Florida 32501-5794 904-436-8300
Northeast District 7825 Baymeadows Way Suite B 200 Jacksonville, Florida 32207 904-798-4200
Central District 3319 Maguire Blvd. Suite 232 Orlando, Florida 32803-3767 407-894-7555
Southwest District 4520 Oak Fair Blvd Tampa Florida 33610-7347 813-623-5561
South District 2269 Bay St Fort Myers, Florida 33901-2896 813-332-6975
Southeast District 1900 S. Congress Ave. Suite A West Palm Beach Florida 33406 407-433-2650

NOTIFICATION OF INTERIM REMEDIAL ACTIONS FAC CHAPTER 17.770

CONTAMINATED SOIL REMOVAL AND TREATMENT ACTIVITIES

SITE LOCATION: City Lot

1001 North 11th Street Avenue, Palatka, Florida

ACTIVITY DATE: December 16, 1992 DATE NOTIFICATION SENT: December 18, 1992

U.E.S. GEOLOGIST: John Cullinan

CHAPTER 17-770.300 (8)

A. ESTIMATE OF VOLUME OF CONTAMINATED SOILS EXCAVATED: 200 yards

PRODUCT TYPE OF CONTAMINANT: Unleaded Gasoline

B. QUANTITATIVE METHOD FOR DETERMINING EXCESS SOIL CONTAMINATION:

Thermo-Environmental Instruments

OVM - Photo-Ionization Detector

C. TREATMENT OF EXCAVATED MATERIAL: Landfarm on City of Palatka property

DISPOSAL OF EXCAVATED MATERIAL: Will be determined upon completion of landfarming operation

NOTES:

Florida Department of Environmental Regulation
Twin Towers Office Bldg • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400
Lawton Chiles, Governor
Carol M. Browner, Secretary

November 19, 1991

Mr. Allen R. Bush
City Manager
City of Palatka
201 North 2nd Street
Palatka, Florida 32177

Dear Mr. Bush:

The Bureau of Waste Cleanup has reviewed the Contamination Assessment Report (CAR) Addendum dated October 23, 1991 (received November 5, 1991 [received October 25, 1991 at the FDER Northeast District]), submitted for the Palatka, City - Abandoned City Lot site located at 1016 Ocean Street, Palatka, Putnam County, Florida. We found all the documents submitted to date to be adequate to meet the contamination assessment requirements of Sections 17-770.600 and 17-770.630, Florida Administrative Code (F.A.C.). Therefore, you must now submit a Remedial Action Plan (RAP) in accordance with Section 17-770.700, F.A.C. Our comments are as follows:

1. Since MW-8 and MW-9 are necessary for plume delineation, we recommend grouting the annular space of each of those wells above the sand pack to convert them to permanent monitoring wells and to prevent the possibility of contamination migrating downward along the wellbore.

2. Even when Top of Casing (TOC) elevations are resurveyed, the new values should be equivalent to the previous values. A comparison of Table 1 (CAR) and Table 2 (CAR Addendum) shows significant differences between the two sets of TOCs for MW-1 through MW-5 (MW-2 and MW-3 have the lowest values on Table 1 and the highest values on Table 2). These differences affected drastically the interpretation of groundwater flow direction, as shown by a comparison of Figure A-11 (CAR) and Figure A-11 (CAR Addendum). This problem should be avoided in the future, for this or any other site. In addition, although it is appropriate to exclude water level elevations obtained at vertical extent wells during preparation of contour maps, they should be included on the tables so a determination can be made of whether vertical hydraulic gradients are present.

The DER Facility Number for this site is 549102245. Please provide this identification on all future correspondence with the Department.

Please submit the RAP addressed to the Engineering Support Section, Bureau of Waste Cleanup, within two (2) months of receipt of this request, as required by Section 17-770.700(1), F.A.C. If you should have any questions concerning this review, please contact me at (904) 488-0190.

Sincerely,

Guillermo J. Wibmer
Technical Review Section
Bureau of Waste Cleanup

gjw

cc: Anil Desai, Universal Engineering Sciences, Inc. - Orlando
Brian K. Kelley, FDER Northeast District Office
BWC Engineering Support Section, (904) 488-0190

State of Florida
DEPARTMENT OF ENVIRONMENTAL REGULATION

For Routing To Other Than The Addressee
To _____ Location _____
To _____ Location _____
To _____ Location _____
From _____ Date _____

Interoffice Memorandum

TO: Guillermo J. Wibmer - BWC

THROUGH: Larry L. Krestalude LLK - Northeast District

FROM: Brian K. Kelley - Northeast District BKK

DATE: October 31, 1991

SUBJECT: Contamination Assessment Report (CAR) Addendum
Palatka City Maintenance Lot
DER Facility #548521034

Enclosed is a copy of the Contamination Assessment Report (CAR) Addendum recently received by this office regarding the referenced facility.

The CAR Addendum addresses comments offered in your Interoffice Memorandum dated July 25, 1991. The facility is currently eligible for the Abandoned Tank Restoration Program (ATRP), therefore, you may wish to send your comments directly to the responsible party:

Mr. Allen R. Bush
City Manager
City of Palatka
201 North 2nd Street
Palatka, FL 32177

If additional information is requested regarding this site, you may contact me at S/C 880-4320, ext. 357.

BKK:rs
Enclosure(s)

Florida Department of Environmental Regulation

Northeast District • Suite B200, 7825 Baymeadows Way • Jacksonville Florida 32256-7577

Lawton Chiles Governor — Carol M. Browner Secretary

July 31, 1991

CERTIFIED - RETURN RECEIPT

Mr. Allen R. Bush
City Manager
City of Palatka
201 North 2nd St.
Palatka, FL 32177

Dear Mr. Bush:

Request Notice No. RN91-1947TK54NED
Contamination Assessment Report (CAR) Review
City of Palatka Maintenance Yard - 1016 Ocean St.
Putnam County - Pollutant Storage Tanks

Enclosed are the comments from the Department's Bureau of Waste Cleanup (BWC) in Tallahassee regarding the review of the Contamination Assessment Report (CAR) for the referenced facility.

It is requested that the BWC's comments be addressed entirely and the applicable information be sent to this office for review within sixty (60) calendar days upon receipt of this Notice.

If you have any questions, you may contact me at the letterhead address or telephone number.

Sincerely,

Brian K. Kelley
Environmental Specialist
Pollutant Storage Tanks

BKK:rs
Enclosure(s)
cc: James Golden

State of Florida
DEPARTMENT OF ENVIRONMENTAL REGULATION

For Routing To Other Than The Addressee
To _____ Location _____
To _____ Location _____
To _____ Location _____
From _____ Date _____

Interoffice Memorandum

DER-TALLAHASSEE

TO: Brian K. Kelley, Northeast District Office

THROUGH: Tim Bahr, Technical Review Section
Bureau of Waste Cleanup

FROM: Guillermo J. Wibmer, Technical Review Section
Bureau of Waste Cleanup

DATE: July 25, 1991

SUBJECT: Palatka City - Maintenance
1016 Ocean Street
Palatka, Putnam County
DER Facility No. 548521034

I have completed the review of the Contamination Assessment Report (CAR) submitted May 31, 1991 for the above-referenced facility, and offer the following recommendations:

1. The site map should be revised to show the locations of the two active (underground and aboveground) tanks. If any of these storage/distribution systems is located in this area of the site, the structural integrity should be established via separate tank and line tightness tests in accordance with Chapter 17-761, F.A.C.

2. Supplemental soil assessment in accordance with Section 17-770.200(2), F.A.C., and the Department's February 1991 "Guidelines for Assessment and Remediation of Petroleum Contaminated Soils" should be performed to the north-northeast and northwest of boring 10 and to the north of boring 12 to define the horizontal and vertical extent of soil contamination in the unsaturated zone. The OVA values should be summarized in a table, and Figure A-2 should be revised based on the new data to show the approximate extent of soil contamination.

3. The horizontal and vertical extent of the groundwater contamination have not been defined. Five additional monitoring wells need to be installed as follows:
   a. One water table well approximately 30 feet west of MW-1;
   b. One water table well approximately 60 feet west-northwest of MW-4;
   c. One water table well approximately 30 feet from MW-4, east of (as close as possible to) the pole barn;

d. One water table well between MW-1 and MW-4, to help establish whether the contaminant concentrations detected at those two wells are related; and
e. One vertical extent well next to (north of) MW-1 (constructed so as not to allow contamination to migrate along the borehole) with an isolated screened interval about 25-30 feet below land surface (BLS), to aid in establishing the vertical extent of contamination.

4. Following installation of the supplemental monitoring wells, a complete round of sampling and analysis for EPA Method 602 (including MTBE) should be performed, so that this review can be completed and a Remedial Action Plan (RAP) can be prepared based on current data. Note, additional monitoring wells should be installed if significant contaminant concentrations are detected at perimeter monitoring wells or at the vertical extent well; if the aboveground diesel tank is located in this area of the site, EPA Methods 610 and 418.1 should be included in the analyses.

5. Following installation of the supplemental monitoring wells, and concurrent with the sampling event, a complete set of water level measurements must be obtained to verify the direction of groundwater flow and to estimate fluctuations in the water table. These data must be provided in tabular form (including top of casing elevations, depths to water, and corresponding water level elevations) and in graphic form showing the consultant's interpretation of the groundwater flow direction.

6. It is stated on page 7 that the three soil samples utilized in the laboratory permeability tests were obtained from SPT boring B-2 (a lapse for A-1 or B-1), at 3, 10 and 18 feet BLS. However, it is stated in Appendix C that the samples were obtained from boring B-1 at 1, 5 and 6 feet BLS. This inconsistency should be clarified, although based on the lithologies listed in Appendix C it appears that the depths mentioned on page 7 are the correct ones.

If you have any questions, please contact me at Suncom 278-0190. It would be most helpful, for every non-EDI site, if your memorandum includes the site's Facility No. (if available) and address, so we can access the tracking system in order to obtain information needed for the review.

State of Florida
DEPARTMENT OF ENVIRONMENTAL REGULATION

Interoffice Memorandum

For Routing To Other Than The Addressee
To _____ Location _____
To _____ Location _____
To _____ Location _____
From _____ Date _____

NORTHEAST DISTRICT
JUL 30 1991
DER-JACKSONVILLE

TO: Brian K. Kelley, Northeast District Office

THROUGH: Tim Bahr, Technical Review Section
Bureau of Waste Cleanup

FROM: Guillermo J. Wibmer, Technical Review Section
Bureau of Waste Cleanup

DATE: July 25, 1991

SUBJECT: Palatka City - Maintenance
1016 Ocean Street
Palatka, Putnam County
DER Facility No. 548521034

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If you have any questions, please contact me at Suncom 278-0190. It would be most helpful, for every non-EDI site, if your memorandum includes the site's Facility No. (if available) and address, so we can access the tracking system in order to obtain information needed for the review.

TK 01070

11-21-90

LEGAL CASE TRACKING SYSTEM

ENFORCEMENT/COMPLIANCE SUBSYSTEM

ENFORCEMENT CASE INFORMATION

CASE NAME City of Palatka

DISTRICT NED | COUNTY 54

ATTORNEY [redacted] | INVESTIGATOR Kelley

PROGRAM TK | REL PROGRAM _

PRIORITY _ VIOLATION CLASS _ | LATITUDE _____ LONGITUDE _____

FACIL ID 548521034 ✓ | FACIL NAME Maitenance Yard ✓

PERMIT # _____ | PERMIT ISSUED _____ EXPIRED _____

AGENT _____

DESCRIPTION _____

RELATED DATE INFORMATION

ENF REF	12-22-89 ✓	WARN LTR	1-23-90 ✓	DRAFT NOV	
NOV ISSUED		DRAFT CO		CO FILED	
FINAL ORDER		CASE RPT		COMPLAINT	
JUDIC ORDER		CLOSE	91-07-11 C ✓	PETITION	
COMP REF		COMP LTR	12-22-89 1-23-90 9-25-90 ✓ 90-12-10 ✓	INFRML COMP	
COMP INSP	1-18-90 ✓				

COMPLIANCE ACTIVITY SCREEN

DATE DUE	ACTIVITY	DATE COMPLETED

SITES LIST DATES SCREEN

	DUE	RECEIVED	APPROVED	STARTED	COMPLETE
PCAP					
PCAR					
CAP					
CAR	8-15-90 ✓				
RAJ					
IRAP					
IRA					
RAP					
FS					
ED					
CON					
OPM					
SRCR					
DR					

(RAJ- Risk assessment justification; FS- Feasibility study; ED- Engineering design; CON- Construction; OPM- Operation and Maintenance; SRCR- Site rehabilitation completion report; DR- Delist recommended)

54

TK01070

CASE NAME City of Palatka - Maintenance Yard

*** CURRENT CHRONOLOGY ***

DATE (YYMMDD)	ACTIVITY	DEO INIT
901210	WARNING NOTICE - SUBMIT CAR	12/13 P.K.
901224	TANK TIGHTNESS TEST RESULTS.	GB
910102	RECEIVED LETTER FROM UNIVERSAL AND APPLICATION FOR ATRP.	GB
91-01-14	ATRP APPLICATION FOWARDED TO TALLAHASSEE	GB
91-03-13	RECEIVED FPLIRP CHECKLIST FROM PUTNAM CO.	GB
91-03-13	INSPECTION/FPLIRP CHECKLIST SENT TO BWPR.	GB
910411	EXTENSION LETTER. CAR DUE 4-30-91	C
91-06-03	RCVD CAR	C
91-06-17	CAR FOWARDED TO BWC FOR REVIEW	C
91-07-11	SITE IS ELIGIBLE FOR ATRP	C

State of Florida
DEPARTMENT OF ENVIRONMENTAL REGULATION

For Routing To Other Than The Addressee

To _____ Location _____

To _____ Location _____

To _____ Location _____

From _____ Date _____

Interoffice Memorandum

TO: Tim Bahr - BWC

THROUGH: Larry L. Krestalude LLK - Northeast District

FROM: Brian K. Kelley - Northeast District BKK

DATE: June 17, 1991

SUBJECT: Contamination Assessment Report (CAR)
Palatka City Maintenance Facility
Putnam County

Enclosed is a copy of the Contamination Assessment Report (CAR) recently received by this office regarding the referenced facility.

It is requested that your section review the information and submit its comments and recommendations to this office for transmittal to the responsible party.

If additional information is requested regarding this site, you may contact me at S/C 880-4320.

BKK:rs
Enclosure(s)

UNIVERSAL
ENGINEERING SCIENCES
Consultants in Geotechnical Engineering • Environmental Sciences • Construction Materials Testing

Offices in
• Orlando
• Ocala
• Gainesville
• Fort Myers
• Merritt Island
• Daytona Beach
• West Palm Beach

April 10, 1991

Mr. Timothy Dohaney
Florida Department of Environmental Regulation
Northeast District
7825 Bay Meadows Way, Suite B-200
Jacksonville, Florida 32256-7577

Reference: Contamination Assessment
City Lot
Palatka, Florida
FDER No. 548521034
Project No. 16426-002-01

Dear Mr. Dohaney:

On behalf of the City of Palatka, Universal Engineering Sciences (UES) would like to reply to the recent warning notices received from the Department and to request an extension for Contamination Assessment Report (CAR) submittal for the subject site.

In the midst of preparing this CAR, our project manager, John Cullinan, was called to active duty as a result of the Gulf War in January 1991. Universal Engineering Sciences' Orlando office has taken over this project and plans to have a CAR completed and submitted to your office by May 30, 1991. Mr. Cullinan is not expected to return home until sometime in late May 1991.

We trust that you will find our request reasonable. Please call if you have any questions.

Respectfully submitted,

James E. Golden, P.G.
Manager - Environmental Sciences
Universal Engineering Sciences

JEG:lpb

cc: Addressee (1)
City of Palatka - Mr. Allen R. Bush (1)
UES - Gainesville (1)

Florida Department of Environmental Regulation

Northeast District • Suite B200 7825 Baymeadows Way • Jacksonville, Florida 32256-7577

Lawton Chiles, Governor

Carol M. Browner, Secretary

April 11, 1991

Mr. James E. Golden
Manager - Environmental Sciences
Universal Engineering Sciences
3532 Maggie Blvd.
Orlando, FL 32811

RE: Site Name: City Lot

Site Address: 1016 Ocean St.
Palatka, FL

Facility I.D. #: 548521034

Dear Mr. Golden:

The Northeast District Office received your request for an extension of time for the following action required by this office for the referenced facility:

_____ CA Initiation
__X__ CAR Submittal
_____ RAP Implementation

_____ Other: _____

The District has determined that your request demonstrates good cause to allow this extension. Therefore, the deadline is extended to May 30, 1991 regarding the submittal of the completed CAR (2 copies).

If you have any questions, you may contact me at the letterhead address or telephone number.

Sincerely,

Timothy J. Dohaney

Timothy J. Dohaney
Environmental Specialist
Pollutant Storage Tanks

TJD:rs 2816
cc: Allen Bush

CASE NAME: City of Palatka (Maintenance Yard)

ADD CHANGE (circle one)

Kelley	Putnam	TANKS		
INVESTIGATOR	COUNTY	PROGRAM	ATTORNEY	OGC

MILESTONE DATES

ADD CHANGE (circle one)

DATE:

OPEN DATE	WARNING LETTER			
DRAFT CO	CONSENT ORDER	DRAFT NOV	DEACTIVATE	CASE REPORT
COMPLAINT FILED	JUDICIAL ORDER	FINAL ORDER	NOV	

CASE CHRONOLOGY (Additions)

DATE	ACTIVITY
12-22-89	DNF RECEIVED
12-22-89	R.N. -CLOSURE ASSESS.
12-26-89	INSPECTION NOTIFICATION
1-18-90	CLOSURE ASSESS. RECEIVED
1-18-90	INSPECTION
1-23-90	RN - COMPLIANCE
1-23-90	WN - CAR/RAP
2-14-90	UPDATED REG. RECEIVED / COMPLIANCE ISSUES ADDRESSED
4-3-90	LETTER FROM UNIVERSAL - CONTRACTED TO DO CAR
9-25-90	LETTER - 2nd discharge
9-25-90	RN - DNF
10-1-90	DNF

State of Florida
Department of Environmental Regulation

Pollutant Storage Tank System Inspection Report Form

Facility ID No.: 548521034 County: Putnam
Facility Name: Palatka City Maintenance
Facility Location: 1016 Ocean St Palatka FL 32177
Operator: _____ Phone: _____
Owner: Palatka City Maintenance - Stan Adams Phone: _____
Latitude 29 ° 40 ' 00" Longitude 81 ° 39 ' 00" Section _____ Township _____ Range _____

Tank #	Size	Contents	Installation Date	U/A or In-Contact	Tank Construction	Integral Piping	Monitoring System	Tank Status
# 1	550	D	Unk	A	C	B	Y	Open
# 2	3000	B	1976	U	D	A	Y	Open

Comments: Monitor wells

	1	2	3	4
Odor	-0-	-0-	slight	-0-
Sheen	-0-	-0-	slight	-0-
Product	-0-	-0-	0	-0-

Tight tank test on 12-10-90

Has smell in MW 3 from 8/2/90 - 11/29/90

Inspection Type
- ☐ Complaint Response
- ☐ Initial
- ☐ EDI
- ☐ Public Well Field
- ☐ Reinspection
- ☐ Installation
- ☐ Tank Removal
- ☐ Unregistered

Facility Information
- ☐ Abandoned
- ☐ Aboveground
- ☐ Govt -Federal
- ☑ Govt -Other
- ☑ Non-retail
- ☐ Retail
- ☐ Retrofit (M or O)
- ☐ Retrofit (L or R)

DER District

Local Program: Putnam CPHU

James A. Rooney 1/4/91
Inspector's Signature & Date

Glen Garrett
Facility Contact's Signature & Date

Violations must be corrected by next routine inspection ☐ or by ☐ ___ / ___ / ___ (mo / day / yr)

DER Form 61-01 88 (04-01-88)

Department of Environmental Regulation

Inspection Form — UST Compliance Section

Facility # 3485410394
Date 1/11/91

V. RECORD KEEPING, DISCHARGE REPORTING & CONTAMINATION CLEAN UP:		Yes	No	Unk	N/A
38 Records being kept as specified by 17-61.050(4)(a)?	38	✓			
39 2 years	39	✓			
40 monitoring system exams	40	✓			
41 retrofitting records	41	✓			
42 maintenance exams	42	✓			
43 NFPA 329 tests	43	✓			
44 repairs	44	✓			
45 available within 2 working days	45	✓			
46 Tank and pipe tests	46	✓			
47 meet NFPA 329 standards 17-61.060(2)(d)4	47	✓			
48 administered by manufacturer certified personnel?	48	✓			
49 The discharge of pollutants has resulted in immediate action undertaken for	49	✓			
50 containing	50	✓			
51 removing, and	51	✓			
52 abating? 17-61 050(4)(b)1	52	✓			

VI. LEAK DETECTION/MONITORING WELLS:					
53 Facility has an approved leak detection system in compliance with the retrofit schedule? 17-61 060(2)(b)3	53		✓		
54 Monitoring wells have been properly constructed? 17-61 050(5)(a)	54	✓			
55 2" diameter casing	55	✓			
56 properly grouted	56	✓			
57 equipped with water tight cap	57	✓			
58 properly located 17-61 060(2)(b)3	58	✓			
59 Monitoring wells are being properly sampled? 17-61 050(5)(b)	59	✓			
60 containing less than 1 foot water	60		✓		
61 automatically tested wells	61				✓
62 manually sampled wells	62	✓			
63 Continuously operating leak detection systems installed and operated in accordance with manufacturer's specs? 17-61 050(4)(c)1	63	✓			
64 Positive response of a detection device treated as a discharge? 17-61 050(5)(c)	64	✓			
65 Monitoring system requirements are being complied with? 17-61 060(2)(b)3	65	✓			
66 groundwater plan	66				✓
67 SPCC plan	67				✓
68 approved alternate procedure	68				✓

Department of Environmental Regulation

Inspection Form — UST Compliance Section

Facility # 548521034

Date 1/11/91

I. REGISTRATION/NOTIFICATION:		Yes	No	Unk	N/A
1 Facility has properly registered all applicable tanks on site? 17-61 050(1)(a)	1	✓			
2 Current Registration placard is properly displayed? 376 303(1)(b), FS	2	✓			
3 Proper notification has been made for the following 17-61 050(1)(b)	3	✓			
4 abandonment	4				✓
5 facility sale	5				✓
6 retrofitting	6				✓
7 tank test failure	7	✓			
8 discharges	8	✓			
9 monitoring response	9	✓			

II. TANK STATUS:					
10 Tank Designated Out of Service 17-61 050(3)(b)1	10				✓
11 inventory + monitoring records kept or	11				✓
12 secured against tampering	12				✓
13 Tanks properly abandoned? 17-61 050(3)(c)	13				✓
14 in place or	14				✓
15. removed	15				✓

III. OPERATION AND MAINTENANCE:					
16 The schedule for retrofitting has been met? 17-61 060(2)(c) & (3)(b)2	16	✓			
17 overfill protection	17	✓			
18 piping and/or	18	✓			
19 tanks	19	✓			
20 Structure-to-soil potential test schedules for sacrificial anode protected systems are being met?	20				✓
21 tanks 17-61 060(2)(d)1 a	21				✓
22 piping 17-61 060(3)(b)1 b	22				✓
23 Impressed current protected systems are continuously energized and metered?	23				✓
24 tanks 17-61 060(2)(d)1 b	24				✓
25 piping 17-61 060(3)(b)1 c	25				✓

IV INVENTORY REQUIREMENTS:					
26 Daily inventory records maintained? 17-61 050(4)(c)2 a	26	✓			
27 water	27	✓			
28 product	28	✓			
29 meter readings	29	✓			
30 Inventory reconciliation is performed? 17-61 050(4)(c)2 b	30	✓			
31 each 5 consecutive readings	31	✓			✓
32 once a week	32				✓
33 alternate procedure dates	33	✓			
34 Significant loss/gain investigation 17-61 050(4)(c)3	34	✓			
35 performed	35	✓			
36 found source of discrepancy, and/or	36	✓			
37 followed up with precision testing? 17-61 050(4)(c)	37	✓			

FLORIDA PETROLEUM LIABILITY INSURANCE AND RESTORATION PROGRAM COMPLIANCE CHECKLIST

NORTHEAST DISTRICT

RECEIVED
MAR 13 1991
DER-JACKSONVILLE

DATE: ~~5/25/91~~
DER FACILITY #: 548521034
FACILITY NAME : City of Palatka
FACILITY ADDRESS: 11th St and ocean Blvd
329-0100 Ellen Bush
CONTACT PERSON NAME & TELEPHONE:
LATITUDE 29-40-000 LONGITUDE 81-39-600

I. COMPLIANCE WITH CHAPTER 376.3072 FLORIDA STATUTES AND CHAPTER 17-769 FLORIDA ADMINISTRATIVE CODE [FAC].

YES	NO	UNK.	
	✓		1. WAS ANY CONTAMINATION DISCOVERED PRIOR TO JANUARY 1, 1989? IF YES, EXPLAIN
		✓	2. PETROLEUM LIABILITY INSURANCE PROGRAM AFFIDAVIT FORM COMPLETED? IF YES, GIVE DATE NOTARIZED.
	✓		3. IS THE SITE INSUFED BY FPLIFA? IF NOT, SUPPLY THE CARRIER INSURED WITH, OR OTHE TYPE OF FINANCIAL RESPONSIBILITY MECHANISM USED.
		✓	4. RESTORATION COVERAGE NOTICE OF ELIGIBILITY ISSUED IF YES, GIVE EFFECTIVE DATE.
	✓		5. HAS SITE ACCESS EVER BEEN DENIED? IF YES, GIVE DATE
✓			6. HAS A STORAGE TANK PROGRAM COMPLIANCE INSPECTION EVER BEEN PERFORMED FOR THIS FACILITY? IF YES, GIVE THE DATE OF THE MOST RECENT INSPECTION AND SUPPLY A COPY 1/11/91
✓			7. HAS THE SUSPECTED PETROLEUM STORAGE SYSTEM COMPONENT RESPONSIBLE FOR THE DISCHARGE BEEN REMOVED FROM SERVICE WITHIN 3 DAYS OF DISCOVERY? IF NO, EXPLAIN
✓			8. HAVE STEPS TO OBTAIN CLEANUP SERVICES BEEN INNITIATED WITHIN 3 DAYS OF THE DISCHAPGE DISCOVERY? IF NO, EXPLAIN

No

II. INFORMATION REQUIRED FOR SITE SCORING AND RANKING

✓ 9. IS THERE EVIDENCE OF A CONTAMINATION PROBLEM? IF YES, EXPLAIN IN COMMENTS SECTION.

IF "YES" TO ITEM #9 CHECK ONE:

___ A. TWO OR MORE MONITORING WELL/BOREHOLES SHOW >2" FREE PRODUCT

___ B. ONLY 1 MONITORING WELL SHOW >2" FREE PRODUCT OR MONITORING WELLS SHOW <2" FREE PRODUCT OR PETROLEUM SHEEN.

___ C. MONITORING WELLS ARE CONTAMINATED BUT CONTAIN NO FREE PRODUCT [VAPORS ONLY]

___ D. SOIL CONTAMINATED AND/OR RECENT PRODUCT LOSS

CHECK ONE

10. CONTAMINATION PRODUCT TYPE

___ A. LIGHT PETROLEUM [KEROSINE, GASOLINE, AVIATION FUEL, ETC.]

___ B. HEAVY PETROLEUM [FUEL OIL, DIESEL OR SIMILAR PETROLEUM PRODUCTS]

___ C. UNKNOWN OR OTHER _____

CHECK THOSE THAT APPLY

11. POTABLE WATER

___ A. WITHIN 1/2 MILE: LARGE WELLS [>100,000GPD]
1. INDICATE DIRECTION: _____
2. ESTIMATE DISTANCE: _____

✓ B. WITHIN 1/4 MILE: SMALL WELLS [<100,000GPD]
1. INDICATE DIRECTION: < 500
2. ESTIMATE DISTANCE: _____

___ C. SURFACE WATER BODY USED AS A PUBLIC WATER SYSTEM.

12. INDICATE BELOW THE PROXIMITY TO POPULATION CENTERS. [RESTAURANTS, SHOPPING CENTER, HOUSE, ETC.]

✓ A. > 500 FEET: INDICATE DISTANCE > 500

___ B. < 500 FEET: ESTIMATE DISTANCE _____

PLEASE INDICATE HOW THE SITE SCORING AND RANKING INFORMATION WAS DETERMINED. _____

FLORIDA PETRO[redacted]M LIABILITY INSURA[redacted]E
RESTOTATION PROGRAM COMPLIANCE CHECKLIST

COMMENTS _____

James A. Rooney
COMPLIANCE INSPECTOR

INSPECTION DATE

DER DISTRICT _____

[OR] LOCAL PROGRAM Putnam CPHU

Department of Environmental Regulation

Routing and Transmittal Slip

(Name, Office, Location)

Bill Truman — BWPR
Petroleum Insurance Administrator

Remarks → Enclosed — two applications for ATRP. Be advised that both facilities still have tanks in operations. The active tanks are located at separate excavations within each facility property boundries.

From: Brian Kelley

Date 14 JAN 91

Phone SC 880-4320

...ironmental Regulation

...Road • Tallahassee, Florida 32399-2400

...ROGRAM (ATRP)

...1 31, 1991

...bility of a site contaminated by

...pe
...unknown.

...e (City Lot)

...perty Owner: Same

...Florida 32077

... County: Putnam

...da 32177

...989

...rvice Prior to December 1989

...(removed or filled with sand
...noved

...Number 548521034

...tank at the site.

...its
...vice

Date of Last Use

6. To the best of my knowledge and belief, all information submitted on this form is true, accurate and complete.

John Cullinan Geologist
Signature of Person Completing Form/Title

December 18, 1990
Date

John Cullinan, Universal Engineering Sciences, Inc., Geologist
Name Typed or Printed

UNIVERSAL
ENGINEERING SCIENCES
Consultants In Geotechnical Engineering • Environmental Sciences • Construction Materials Testing

Offices in
Orlando
Ocala
Gainesville
Fort Myers
Merritt Island
Daytona Beach
West Palm Beach

Order No: 90-0142
Report No: 6714

December 28, 1990

Florida Department of Environmental Regulations
N.E. District
Suite B-200
7825 Baymeadows Way
Jacksonville, Florida 32256-7577

Attention: Brian Kelly

Reference: City Lot and Kay Larkin Airport
Palatka, Florida

Dear Mr. Kelly:

Universal Engineering Sciences, Inc. has installed groundwater monitor wells at the City Lot and Kay Larkin Airport in Palatka, Florida as part of a Contamination Assessment (CA). We did not sample these wells due to our awaiting approval of a Quality Assurrance Project Plan (QAPP). With the policy change regarding site specific QAPP's, we are prepared to proceed with our CA and collect groundwater samples from these sites.

We plan to begin sampling at these sites during the week of January 7, 1991. Our report will then follow upon our receipt of the laboratory analyses.

We will keep you informed of our progress with this project. I am including the City of Palatka's request for enrollment into the Abandoned Storage Tank Restoration Program. If you have any questions, please contact me at (904) 372-3392.

Sincerely,

UNIVERSAL ENGINEERING SCIENCES, INC.

John Cullinan
Environmental Scientist

JC/gs

Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

ABANDONED TANK RESTORATION PROGRAM (ATRP)
APPLICATION FORM
Application Deadline March 31, 1991

Use this form to apply for restoration assistance eligibility of a site contaminated by petroleum products from abandoned storage systems.

DRAFT

Please Print or Type
Put "X" where answer is unknown.

1. Business/Site Name: Palatka City - Maintenance (City Lot)

Business/Site Operator: Palatka City

Business/Site Owner: Palatka City Property Owner: Same

Business/Site Address: 1016 Ocean Street, Palatka, Florida 32077

Applicant's Telephone Number: (904) 329-0100 / _____ County: Putnam
(Business) (Home)

Applicant's Mailing Address: 201 N. 2nd Street, Palatka, Florida 32177

2. Date of contamination discovery: December 20, 1989
(Attach Copy of Discharge Notification Form)

3. Date the petroleum storage system was taken out of service Prior to December 1989

4. Has the petroleum storage system been properly closed (removed or filled with sand or concrete) in accordance with DER rules? Yes - removed

5. Is the site registered with DER? If so, DER Facility Number 548521034

If not, fill in the information listed below for each tank at the site.

Tank(s)	Size(s) gallons	Underground (U) or Aboveground (A)	Tank Contents When in Service	Date of Last Use

6. To the best of my knowledge and belief, all information submitted on this form is true, accurate and complete.

John Cullinan Geologist — December 18, 1990

Signature of Person Completing Form/Title — Date

John Cullinan, Universal Engineering Sciences, Inc., Geologist

Name Typed or Printed

Florida Department of Environmental Regulation
Twin Towers Office Bldg • 2600 Blair Stone Road • Tallahassee, Florida 32

DER Form #

(For use by DER)

DRAFT

ABANDONED TANK RESTORATION AFFIDAVIT FORM

In 1990, the Florida Legislature established the Abandoned Tank Restoration Program in Chapter 376.3072, Florida Statutes. In order to be eligible for the Abandoned Tank Restoration Program, a site owner or operator must sign this affidavit to affirm that the site is in compliance with the closure requirements of the Department's Storage Tank Rule (Chapter 17-61, Florida Administrative Code) and Chapter 376, Florida Statutes and that he or she has read and is familiar with these rules and statutes.

State of Florida
County of Putnam

I, Allen R. Bush, hereby affirm that:
(Name of owner or operator)

The abandoned storage system, as defined in Chapter 376.3072, Florida Statutes, located at the site listed on the attached application, is in compliance with applicable provisions relating to stationary tanks in Chapter 376.303, Florida Statutes and Florida Administrative Code Rule 17-61, including but not limited to those provisions for:

(a) proper closure of aboveground petroleum storage systems;
(b) proper closure of underground petroleum storage systems;
(c) notification of a discharge of a pollutant from or in connection with the operation of a petroleum storage system;
(d) site no longer used to store petroleum products for consumption, use or sale.

I, Allen R. Bush, have read Chapter 376, Florida Statutes and Florida Administrative Code Rule 17-61, and the site on the attached application meets the requirements for participation in the Abandoned Tank Restoration Program as described in Chapter 376.3072, Florida Statutes and is not otherwise eligible for cleanup pursuant to Section 376.307(a), F.S., the EDI Program or Section 376.3072, F.S., the Florida Petroleum Liability Insurance and Restoration Program.

Allen R Bush
(Signature of owner or operator)

City Manager
(Title of owner or operator)

Subscribed and sworn to before me this 17th day of December, 19 90

Irene Bankhardt
(Signature and title of notary)

(Official Seal)

My commission expires NOTARY PUBLIC STATE OF FLORIDA AT LARGE
~~MY COMMISSION EXPIRES MARCH 29, 1993~~
BONDED THRU AGENT'S NOTARY BROKERAGE

DER Form 17-769.999(4)(11/90)

CITY OF PALATKA

Regular meeting 2nd and 4th Thursdays each month at 7 30 P M

201 N. 2ND STREET
PALATKA, FLORIDA 32177
(904) 329-0100

December 21, 1990

Mr. Brian Kelley
Environmental Specialist
Pollutant Storage Tanks
Florida Dept. of Environmental Regulation
Suite 200, 7825 Baymeadows Way
Jacksonville, FL 32256-7577

Dear Mr. Kelley:

Enclosed is a copy of the final report by Advanced Drilling on the tank we reported as leaking.

Please let me know if additional information is required.

Sincerely,

Allen R. Bush
City Manager

ARB/jlp

ADVANCED DRILLING

Of Jacksonville, Inc.
2243 West 30th Street
Jacksonville, Florida 32209
(904) 632-0993
FAX (904) 632-0994

Invoice #M-253

CUSTOMER NO. CITY OF PALATKA

SOLD TO: City of Palatka
201 North 2nd Street
Palatka, FL 32177

ATTN: Mr. Al Bush

SHIP TO: City Lot
201 North 2nd Street
Palatka, FL

DATE	SHIP VIA	F.O.B.	TERMS
12/12/90	N/A	N/A	NET 10 DAYS

PURCHASE ORDER NUMBER	ORDER DATE	SALESPERSON	OUR ORDER NUMBER
Verbal/Al Bush	N/A	Walter O. Sheppard III	N/A

QTY ORDERED	QTY SHIPPED	QTY B.O.	ITEM NUMBER	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
			DATE:	PRECISION TANK AND LINE TESTING:		
1	1		10/01/90	Petro-tite tank test on Unleaded tank. Tank failed test.	$500.00	$ 500.00
1	1		10/01/90	Petro-tite test on Unleaded suction line. Line failed test.	100.00	100.00
1	1		12/10/90	Strip trenched and excavated to tank top to expose fitting on tank top. Found vent line rusted through and to be cause of original tank test failure. Cleaned fittings and turned vent line upside down for tank test. Installed 4" riser with adapter and cap.	725.00	725.00
1	1		12/10/90	Retest tank. Tank passed test.	500.00	500.00
1	1		12/10/90	Cleaned angle check valve and retested Unleaded line. Line passed test.	100.00	100.00
				INVOICE TOTAL:		$1,925.00

Thank You

ok RD

FEDERAL I.D. #59-2795309

Data Chart for Tank System Tightness Test

PLEASE PRINT

1 OWNER Property ☑ Tank(s) ☑	Name: City of PALATKA Address: 201 N. 2nd St PalatKa Fl Representative: Al Bush
2 OPERATOR	Name: City of PALATKA Address: N. 11th & Oceanst. PalatKa Fl Telephone: 329-…
3 REASON FOR TEST (Explain Fully)	Certify Tank to NFPA Pub 329
4 WHO REQUESTED TEST AND WHEN	Name: Al Bush Supt. Company or Affiliation: City of PalatKa Fl Address: Same as Top Line
5 TANK INVOLVED (Use additional lines for manifolded tanks)	Identify by Direction: Only Tank; Capacity: 3000; Brand Supplier: Chevron; Grade: unlead; Approx Age: ; Steel Fiberglass: Steel
6 INSTALLATION DATA	Location (North inside driveway, Rear of station etc): N. of Lot office; Cover (Concrete Black Top Earth etc): cmt; Fills (Size Tite fill make Drop tubes Remote Fills): 3"; Vents (Size Manifolded): 2"; Siphones (Which tanks?): N/A; Pumps (Suction Make if…): Su… G.…
7 UNDERGROUND WATER	Depth to the water table from grade 88; Is the water over the tank? ☐ Yes ☑ No
8 FILL-UP ARRANGEMENTS	Tanks to be filled 0130 hr 10/1/90 Date; Arranged by Al Bush Name; Extra product to "top off" and run tank tester. How and who to provide? Consider NO Lead; Terminal or other contact for notice on inquiry: Chevron Company
9 CONTRACTOR, MECHANICS, any other contractor involved	Advanced Drlg of Jax, Inc
10 OTHER INFORMATION OR REMARKS	Disconnect Suction pump from 1/2" Li… INSTALL Test Line.
	Additional information on any items above. Officials or others to be advised when testing is in progress or completed. Visitors or observers present during test
11 TEST METHOD	☑ PETRO TITE ☐ PETRO COMP ☐ QUICK CHECK 2000
11a TEST RESULTS	Tests were made on the above tank systems in accordance with test procedures prescribed for as detailed on attached test charts with results as follows: Tank Identification: unlead; Tight: NO; Leakage Indicated: 11.895625 GPH; Date Tested: 10/1/90
12 SENSOR CERTIFICATION	Date: 1775; Serial No of Thermal Sensor
13 CONTRACTOR CERTIFICATION	Technicians: Ron Mosley; Certification # 21171294-3; Testing Contractor or Company: Advanced Drlg of Jax, In…; By Signature; Address: 2243 W. 30th St, Jax 322…; 2. ; Certification #

14 City of PalAtKa, N. Eleven And oceanst. PalAtKa, Fl 10/…

Name of Supplier Owner or Dealer — Address No and Street(s) — City — State — Date of Test

NORTHEAST DISTRICT
RECEIVED
DEC 24 1990
DER–JACKSONVILLE

15 TANK TO TEST

Only underground Tank — Identify by position

Chevron unlead — Brand and Grade

15a BRIEF DIAGRAM OF TANK FIELD

N

16 CAPACITY

Nominal Capacity 3000 Gallons

By most accurate capacity chart available 3000 Gallons

From: ☑ Station Chart ☐ Tank Manufacturer's Chart ☐ Company Engineering Data ☐ Charts supplied with Tank Tester ☐ Other

17 FILL-UP FOR TEST

Stick Water Bottom before Fill up 2 7/8 in to 4" — 45 Gallons — 64 Tank Diameter in

Total Gallons ea Reading

Inventory in Tank	3000
Water Bottom	- 45
Top off equipment	+ 20
Total Quantity	2975

18 SPECIAL CONDITIONS AND PROCEDURES TO TEST THIS TANK ☐ Water in tank ☐ Line(s) being tested with LVLLT ☐ High water table in tank excavation

See manual sections applicable. Check below and record procedure in log (27)

Use maximum allowable test pressure for all tests. Four pound rule does not apply to doublewalled tanks

Complete section below

1 Is four pound rule required? Yes ☑ No ☐

2 Height to 12" mark from bottom of tank 168 in

3 Pressure at bottom of tank 4.36 PSI

4 Pressure at top of tank 2.704 PSI

Depth of burial 34 in

Tank dia 64 in

Water table to tank bottom 10 in

NOTES

The above calculations are to be used for… conditions to establish a positive pressure advantage or when using the four pound rule to compensate for the presence of… area

Refer to NFPA 30 Sections … and …

19 TANK MEASUREMENTS FOR TSTT ASSEMBLY

Bottom of tank to grade 98 in

Add 30" for "T" probe assy 30 in

Total tubing to assemble — approximate 128 in

20 EXTENSION HOSE SETTING

Tank top to grade 34 in

Extend hose on suction tube 6" or more below tank top 6 in

If Fill pipe extends above grade use top of fill

USE WITH THERMAL SENSOR PN5039 (Blue Box)

22 Thermal Sensor reading after circulation ______ digits ______ °F Between

23 Digits per °F in range of expected change ______ digits

21 VAPOR RECOVERY SYSTEM ☐ Stage I ☐ Stage II

24b COEFFICIENT OF EXPANSION RECIPROCAL METHOD

Type of Product GAS .026

Hydrometer Employed ______ H

Temperature in Tank After Circulation ______ °F

Temperature of Sample ______ °F

Difference (+/-) ______ °F

Observed A P I Gravity ______

Reciprocal ______ Page # ______

2975 Total quantity in full tank (17) ÷ ______ Reciprocal = ______ Volume change in this tank per °F Transfer to Line 26a

24a IF USING THERMAL SENSOR DTS-2000 OR QC-2000 WHICH READ 1000 DIGITS PER °F TRANSFER 1000 TO LINE 26. DIGITS PER °F IN TEST RANGE

24c FOR TESTING WITH WATER see Table C & D

Water Temperature after Circulation Table C from Thermal Sensor ______ °F

Coefficient of Water Table D ______

Added Surfactant? ☐ Yes ☐ No Transfer COE to Line 25b

25 (a) ______ (b) ______ = (c) ______ gallons

27 Sensor Calibration ___ ___ / ___

LOG OF TEST PROCEDURES

30 HYDROSTATIC PRESSURE CONTROL

31 VOLUME MEASUREMENTS (V) RECORD TO 001 GAL

34 TEMPERATURE COMPENSATION USE FACTOR (a)

38 NET VOLUME CHANGING EACH READING

39 ACCUMULATED CHANGE

28 DATE / TIME (24 hr)	Record details of setting up and running test (Use full length of line if needed)	29 Reading No	Standpipe Level in Inches: Beginning of Reading	Standpipe Level in Inches: Level to which Restored	32 Product in graduate: Before Reading	32 Product in graduate: After Reading	33 Product Replaced (-): Product Recovered (+)	35 Thermal Sensor Reading	36 Change Higher (+) Lower (-) (c)	37 Computation (c) × (a) = Expansion (+) Contraction (-)	Temperature Adjustment — Volume Minus Expansion (+) or Contraction (-) (3)(V) − (3)(T)	A Low Level computed Change per Hour (NFPA criteria)
0800	Arrived @ Test Location Record Tank burial, Record WATER in Tank, Record Water Level in Monitor well, Isolate Suction Pump from product Line, Install Test Line set up Test Equipment, Top Off Tank & Test Equipment, and bleed Air from Same-											
0900	Circulating for Tank Test -											
	Note: Standpipe continued to drop @ rate of 30 inches every 60 seconds - Attempt to pressure up on Suction Line - pressure would fall from 15 PSI to 0 in 30 Seconds -											
							30 inches - rate of loss per Min.					
							$\frac{\text{ID standpipe}}{(3.875)^2 .7854} = .014586607 \times 42 \div 12$					
							$\frac{}{808.5}$					
							Equal volumn per inch					
							$.07105\,3125 \times 30'' = 1.73\,159375$ Loss P/min					
							$\times 60$ 1 hour					
							71 895625 G.P.H.					

P-T Tank Test Data Chart
Additional Info

1 Net Volume Change at Conclusion of Precision Test ____ gph

Name of Tester _____

Date _____

2 Statement

☐ Tank and product handling system has been tested tight according to the Precision Test Criteria as established by regulatory agency. This is not intended to indicate permission of a leak

OR

☐ Tank and product handling system has failed the tightness test according to the Precision Test Criteria as established by regulatory agency

☐ Test invalid due to [illegible] beyond control of the testing organization

It is the responsibility of the owner and/or operator of this system to immediately advise state and local authorities of any confirmed unauthorized release to the environment as a result of the indicated failure of this system. The manufacturer of this test method does not assume any responsibility or liability for any loss of product to the environment.

_____

_____

DATA CHART
For Use With
petro tite

1 LOCATION Eleven St and Ocean St Palatka, Fl 904-329-0107
(Street No and/or Comm) (City) (State) (Telephone No)

2 OWNER City of Palatka Palatka, Fl Al Bush Supt. 329-0100
(Name) (Address) (Representative) (Position) (Telephone No)

3 OPERATOR City of Palatka Same As Top Line
(Name) (Dealer, Mgr or Other) (Address (If different than Location)) (Telephone No)

4 REASON FOR TEST Certify Line to NFPA Sub.

5 TEST REQUESTED BY Al Bush Supt Palatka Fl
(Name) (Position) (Order No) (Billing Address)

6 SPECIAL INSTRUCTIONS Disconnect Suction Pump from Line.

7 CONTRACTOR OR COMPANY MAKING TEST MECHANIC(S) NAME Advanced Drlg of Jax, Inc

8 IS A TANK TEST TO BE MADE WITH THIS LINE TEST? ☑ YES ☐ NO

9 MAKE AND TYPE OF PUMP OR DISPENSERS Gilbarco

10 WEATHER Sunny TEMPERATURE IN TANKS ____ °F ____ °C COVER OVER LINES cmt (Concrete Black Top etc) APPROXIMATE BURIAL DEPTH 3'

DATE OF TEST: Year 90 Mo 12 Day 1

LOCATION: City of Palatka, Palatka, Florida

OWNER: Same

11 IDENTIFY EACH LINE AS TESTED	12 TIME (MILITARY)	13 LOG OF TEST PROCEDURES AMBIENT TEMPERATURE, WEATHER ETC	14 PRESSURE psi OR kPa BEFORE	14 PRESSURE psi OR kPa AFTER	15 VOLUME READING BEFORE	15 VOLUME READING AFTER	15 VOLUME NET CHANGE	16 TEST RESULTS CONCLUSIONS, REPAIRS AND COMMENTS
	0913	Bleed back ckt	15	0	.060	.067	+.007	
	0915	Start Line Test	=	15	=	.060	=	
	Pressure Drop to		0	15	.060	.052	-.008	
	Zero in 30 sec -			15				
	Tap on Line & Tried 15# of PSI							
	Again - Pressure Dropped to Zero							
	in 30 sec Again -							

Data Chart for Tank System Tightness Test

PLEASE PRINT

1 OWNER Property ☒ Tank(s) ☒	Name: CITY OF PALATKA; Address: 201 N. 2ND ST. PALATKA FL.; Zip; Representative: AL BUSH; Telephone
2 OPERATOR	Name: CITY OF PALATKA; Address: N. 11TH & OCEAN ST. PALATKA FL.; Zip; Telephone
3 REASON FOR TEST (Explain Fully)	CERTIFY TANK TO NFPA PUB 329
4 WHO REQUESTED TEST AND WHEN	Name: AL BUSH; Title: SUPT.; Company or Affiliation: CITY OF PALATKA; Date; Address; Zip; Telephone
5 TANK INVOLVED (Use additional lines for manifolded tanks)	Identify by Direction: ONLY TANK; Capacity: 3000; Brand/Supplier: ~~CHEVRON~~ TEXACO; Grade: UNLEADED; Approx Age: ; Steel Fiberglass: STEEL
6 INSTALLATION DATA	Location: N. OF SHOP (North inside driveway, Rear of station etc); Cover: EXPOSED (Concrete Black Top Earth etc); Fills: 4" (Size Titefill make Drop tubes Remote Fills); Vents: 2" (Size Manifolded); Siphones: N/A (Which tanks?); Pumps: SUCTION (Suction Remote Make if known)
7 UNDERGROUND WATER	Depth to the water table from grade 88; Is the water over the tank? ☐ Yes ☒ No
8 FILL-UP ARRANGEMENTS	Tanks to be filled 800 hr 12-11-90 Date; Arranged by AL BUSH Name; Telephone. Extra product to "top off" and run tank tester. How and who to provide? Consider NO Lead. Terminal or other contact for notice or inquiry: TEXACO Company; Name; Telephone
9 CONTRACTOR, MECHANICS, any other contractor involved	ADVANCED DRILLING OF JAX. INC.
10 OTHER INFORMATION OR REMARKS	TANK TOP EXPOSED FOR TEST. Additional information on any items above. Officials or others to be advised when testing is in progress or completed. Visitors or observers present during test etc
11 TEST METHOD	☒ PETRO TITE ☐ PETRO COMP ☐ QUICK CHECK 2000
11a TEST RESULTS	Tests were made on the above tank systems in accordance with test procedures prescribed for as detailed on attached test charts with results as follows:

Tank Identification	Tight	Leakage Indicated	Date Tested
UNLEADED	YES	-.014 GPH	12-11-90

12 SENSOR CERTIFICATION — Date; Serial No. of Thermal Sensor: 541

13. CONTRACTOR CERTIFICATION — Technician: R. MORGAN; Certification # 211713348; 2. ; Certification #; Testing Contractor or Company: ADVANCED DRILLING OF JAX. INC.; By; Signature; Address: 2243 W. 30TH ST. JAX. FL. 32209

PN6827

14 CITY OF PALATKA — N. ELEVEN & OCEAN ST. — PALATKA — FL. — ~~RM 12-11-90~~ 12-11-90
Name of Supplier Owner or Dealer — Address No. and Street(s) — City — State — Date of Test

RECEIVED DEC 24 1990 EAST DISTRICT JACKSONVILLE

15 TANK TO TEST

ONLY UNDER GROUND TANK

TEXACO — Identity by position

RM ~~CHEVRON~~ UNLEADED — Brand and Grade

15a BRIEF DIAGRAM OF TANK FIELD

SHED, SHOP, W, S, N, E

16 CAPACITY

Nominal Capacity 3000 Gallons

By most accurate capacity chart available 3008 Gallons

From: ☐ Station Chart ☒ Tank Manufacturer's Chart ☐ Company Engineering Data ☐ Charts supplied with Tank Tester ☐ Other

17 FILL-UP FOR TEST

Stick Water Bottom before Fill up 2 7/8 in (to ⅛") — ~~30~~ 45 Gallons — 64 in Tank Diameter

Total Gallons as Reading: Inventory in Tank 3008; Water Bottom - 45; Top off equipment + 10; Total Quantity 2973

18 SPECIAL CONDITIONS AND PROCEDURES TO TEST THIS TANK ☐ Water in tank ☐ Line(s) being tested with LVLLT ☐ High water table in tank excavation

See manual sections applicable. Check below and record procedure in log (27)

Use maximum allowable test pressure for all tests. Four pound rule does not apply to doublewalled tanks

Complete section below

1 Is four pound rule required? Yes ☒ No ☐

2 Height to 12" mark from bottom of tank 16.8 in

3 Pressure at bottom of tank 4.36 PSI

4 Pressure at top of tank 2.704 PSI

Depth of burial 34 in

Tank dia 64 in

Water table to tank bottom 10 in

NOTES

The above calculations are to be used for dry soil conditions to establish a positive pressure advantage when using the four pound rule to compensate for the presence of ... water in the tank area.

Refer to NFPA 30 Sections 2.3.2.4 and ... for the use of ... [illegible]

19 TANK MEASUREMENTS FOR TSTT ASSEMBLY

Bottom of tank to grade 98 in

Add 30" for "T" probe assy 30 in

Total tubing to assemble — approximate 128 in

20 EXTENSION HOSE SETTING

Tank top to grade 34 in

Extend hose on suction tube 6" or more below tank top 42 in

If Fill pipe extends above grade use top of fill

USE WITH THERMAL SENSOR PN5039 (Blue Box)

22 Thermal Sensor reading after circulation 13715 digits; 64-65 °F Between

23 Digits per °F in range of expected change 325 digits

14027 326

24a IF USING THERMAL SENSOR DTS-2000 OR QC-2000 WHICH READ 1000 DIGITS PER °F TRANSFER 1000 TO LINE 26, DIGITS PER °F IN TEST RANGE

21 VAPOR RECOVERY SYSTEM ☐ Stage I ☐ Stage II

24b COEFFICIENT OF EXPANSION RECIPROCAL METHOD

Type of Product UNLEADED

Hydrometer Employed 7 H

Temperature in Tank After Circulation 64.0 °F

Temperature of Sample 63 °F

Difference (+/-) -1 °F

Observed A.P.I. Gravity 60.8

Reciprocal 1452 Page # 64

2973 ÷ 1452 = 2.047520661

Total quantity in full tank (17) — Reciprocal — Volume change in this tank per °F Transfer to Line 26a

24c FOR TESTING WITH WATER see Table C & D

Water Temperature after Circulation Table C from Thermal Sensor ______ °F

Coefficient of Water Table D ______

Added Surfactant? ☐ Yes ☐ No Transfer COE to Line 25b

25 (a) ______ × (b) ______ = (c) ______ gallons

[illegible] ... .0063 ... .001300064 ... This is test factor (a) .0063

27 Sensor Calibration 16557,165

LOG OF TEST PROCEDURES

28 DATE / TIME (24 hr)	Record details of setting up and running test (Use full length of line if needed)	29 Reading No	30 Hydrostatic Pressure Control — Standpipe Level in Inches: Beginning of Reading	Level to which Restored	31 Volume Measurements (V) Record to .001 Gal — 32 Product in Graduate: Before Reading	After Reading	33 Product Replaced (+) / Product Recovered (-)	34 Temperature Compensation Use Factor (a) — 35 Thermal Sensor Reading	36 Change Higher + Lower - (c)	37 Computation (c) × (a) = Expansion Contraction	38 Net Volume Changing Each Reading — Temperature Adjustment Volume Minus Expansion (+) or Contraction (-) #33(V) — #37(1)	39 Accumulated Change — At Low Level compute Change per Hour (NFPA criteria)
900	ARRIVED AT LOCATION - TANK STRIPPED & EXPOSED PREVIOUS DAY FOUND VENT LINE BROKEN IN TWO											
	AT SWING JOINT INSTALLED TEMPORARY VENT & 4" RISER FOR RETEST - TANK & DRUM TOPPED OFF											
	FOR TEST, TOOK TANK BURIAL DEMINSIONS, CHECKED TANK FOR WATER & CHECKED WATER TABLE											
	BROKE SUCTION LINE BENEATH DISPENSER & SET UP LINE TEST, SET UP FOR TANK TEST.											
1015	PUMP PRIMED & CIRCULATING							A FACTOR		.0063		
1045	1ST API SAMPLE											
1050	2ND API SAMPLE							13				
1055	1ST SENSOR READING	1		42				715				
1110		2	41.4	42	.195	.165	-.030	759	+44	+.277	-.307	
1125		3	43.0	42	.165	.220	+.055	799	+40	+.252	-.197	
1140	ADJUSTED CIR. TUBE	4	44.0	42	.220	.315	+.095	833	+34	+.214	-.119	
1155		5	44.8	42	.315	.470	+.155	876	+43	+.271	-.116	
1210		6		12				912	+36			
1225		7		12	.120	.300	+.180	950	+38	+.239	-.059	
1230		1	13.1	12	.300	.365	+.065	961	+11	+.069	-.004	-.004
1235		2	13.0	12	.365	.425	+.060	970	+9	+.057	+.003	-.001
1240		3	12.9	12	.425	.475	+.050	980	+10	+.063	-.013	-.014
1245		4	12.9	12	.475	.525	+.050	988	+8	+.050	+.000	-.014
1250		5	12.9	12	.525	.580	+.055	996	+8	+.050	+.005	-.009
1255		6	12.9	12	.580	.630	+.050	005	+9	+.057	-.007	-.016
1300		7	12.8	12	.630	.680	+.050	014	+9	+.057	-.007	-.023
1305		8	12.9	12	.680	.730	+.050	023	+9	+.057	-.007	-.030
1310		9	12.8	12	.730	.775	+.045	030	+7	+.044	+.001	-.029
1315		10	12.8	12	.775	.820	+.045	037	+7	+.044	+.001	-.028
1320		11	12.8	12	.820	.865	+.045	045	+8	+.050	-.005	-.033
1325		12	13.0	12	.865	.920	+.055	052	+7	+.044	+.011	-.022
1330		13	13.0	12	.290	.345	+.055	061	+9	+.057	-.002	-.024
1335		14	12.9	12	.345	.395	+.050	070	+9	+.057	-.007	-.031
1340		15	12.9	12	.395	.445	+.050	077	+7	+.044	+.006	-.025
1345		16	12.8	12	.445	.490	+.045	084	+7	+.044	+.001	-.024
1350		17	12.8	12	.490	.535	+.045	090	+6	+.038	+.007	-.017
1355		18	12.8	12	.535	.580	+.045	098	+8	+.050	-.005	-.022
1400		19	12.8	12	.580	.625	+.045	106	+8	+.050	-.005	-.027
1405		20	12.8	12	.625	.670	+.045	113	+7	+.044	+.001	-.026
1410		21	12.8	12	.670	.715	+.045	120	+7	+.044	+.001	-.025
1415		22	12.8	12	.715	.760	+.045	127	+7	+.044	+.001	-.024
1420		23	12.8	12	.760	.805	+.045	135	+8	+.050	-.005	-.029
1425		24	12.8	12	.805	.850	+.045	142	+7	+.044	+.001	-.028
						-.028 ÷	2HR =	-.014 GPH				

P-T Tank Test Data Chart
Additional Info

Net volume Change at Conclusion of Precision Test: -.014 [illegible]

[illegible] Tester: Randolph [illegible]

12-21-90

2 Statement

☒ Tank and product handling system has been tested tight according to the Precision Test Criteria as established by regulatory agency. This is not intended to indicate permission [illegible]

OR

☐ Tank and product handling system has failed the tank tightness [illegible] Precision Test Criteria as established by [illegible]

OR

☐ [illegible] the test [illegible]

It is the responsibility of the owner and/or operator of this system to immediately advise state and local authorities of any implied hazard and the possibility of any reportable pollution to the environment as a result of the indicated failure of this system. The manufacturer of this test method does not assume any responsibility or liability for any loss of product to the environment.

Tank Owner/Operator ____________

Date ____________

DATA CHART
For Use With
petro tite LINE TESTER

OWNER: Name: CITY OF PALATKA
LOCATION: State: FLORIDA; City: PALATKA
DATE OF TEST: Year: 90; Mo: 12; Day: 11

1 LOCATION N. 11 + OCEAN ST. (Street No and/or Corner) PALATKA (City) FLORIDA (State) (Telephone No.)

2 OWNER CITY OF PALATKA (Name) 201 N. 2ND ST. (Address) PALATKA, FLORIDA (Representative, Position) (Telephone No)

3 OPERATOR CITY OF PALATKA (Name) SAME AS LOCATION (Dealer, Mgr or Other; Address (if different than Location)) (Telephone No)

4 REASON FOR TEST CERTIFY LINE TO NFPA STANDARDS FOR SUCTION LINES

5 TEST REQUESTED BY AL BASH (Name) CITY OF PALATKA SUPT. (Position) (Order No) (Billing Address)

6 SPECIAL INSTRUCTIONS

7 CONTRACTOR OR COMPANY MAKING TEST MECHANIC(S) NAME ADVANCED DRILLING OF JAX. INC.

8 IS A TANK TEST TO BE MADE WITH THIS LINE TEST? [X] YES [ ] NO

9 MAKE AND TYPE OF PUMP OR DISPENSERS GILBARCO SUCTION

10 WEATHER SUNNY + COOL TEMPERATURE IN TANKS ____ °F ____ °C COVER OVER LINES EXPOSED (Concrete, Black Top, etc) APPROXIMATE BURIAL DEPTH 30

11 IDENTIFY EACH LINE AS TESTED	12 TIME (MILITARY)	13 LOG OF TEST PROCEDURES AMBIENT TEMPERATURE WEATHER ETC	14 PRESSURE psi OR kPa BEFORE	14 PRESSURE psi OR kPa AFTER	15 VOLUME READING BEFORE	15 VOLUME READING AFTER	15 VOLUME NET CHANGE	16 TEST RESULTS CONCLUSIONS, REPAIRS AND COMMENTS
UNLEADED		BROKE UNION UNDER SUCTION PUMP + CONNECTED						
LINE TESTOR		TO SUCTION LINE FOR TEST						
		BLEED BACK CHECK	30	0	.073	.081	T.008	OK
	1020	START TEST	—	30	—	.073		
	1035	CONT. TEST	30	30	.073	.073	+.000	
	1050	"	30	30	.073	.073	+.000	
	1105	"	30	30	.073	.073	+.000	
	1120	"	30	30	.073	.073	+.000	+.000
		BLEED BACK CHECK	30	0	.073	.082	+.009	OK
CONCLUSION: LINE TESTED TIGHT			+.000 GPH		WITHIN NFPA STANDARDS			

NORTHEAST DISTRICT
RECEIVED
DEC 24 1990
DER-JACKSONVILLE

Florida Department of Environmental Regulation

Northeast District • Suite 200, 7825 Baymeadows Way • Jacksonville, Florida 32256-7577 • 904-448-4300

Bob Martinez, Governor | Dale Twachtmann, Secretary | John Shearer, Assistant Secretary
Ernest Frey, Deputy Assistant Secretary

December 10, 1990

CERTIFIED - RETURN RECEIPT

Mr. Allen R. Bush
City Manager
City of Palatka
201 North 2nd St.
Palatka, FL 32177

Dear Mr. Bush:

Warning Notice No. WN90-1518TK54NED
Soil and/or Groundwater Contamination
City of Palatka Maintenance Yard - 1016 Ocean St.
City of Palatka - Kay Larkin Airport - S.R. 100
Putnam County - Pollutant Storage Tanks

Chapter 403, Florida Statutes, authorizes and directs the Department of Environmental Regulation to control and prohibit pollution of air and water.

Chapter 376, Florida Statutes, further states that the discharge of pollutants upon any waters and lands of the State is prohibited and directs the Department to regulate these facilities and enforce Department rules. Pollutant is defined in Section 376.301(10), Florida Statutes.

On January 23, 1990, the Department issued the referenced facility a Warning Notice requiring a Contamination Assessment (CA) and cleanup according to the timeframes of FAC Chapter 17-770. As of this date, this office has yet to receive the required CAR within the six (6) month timeframe as indicated in the Warning Notice and as required by Chapter 17-770. The CAR for this site was due on September 1, 1990.

Therefore, portions of the Florida Statutes and Rules which you have violated are listed below.

Chapter 403, Florida Statutes, Environmental Control

403.161 Prohibitions, violation, penalty, intent -

(1) It shall be a violation of this Chapter, and it shall be prohibited:

(b) To fail to obtain any permit required by Chapter or by rule or regulation, or to violate or fail to comply with any rule, regulation, order, permit or certification adopted or issued by the Department pursuant to its lawful authority.

Chapter 17-770 Contamination Assessment Report

17-770.630

(1) Within six (6) months of discovery of contamination, two (2) copies of the CAR shall be prepared and submitted to the Department for approval.

Therefore, within twenty (20) calendar days upon receipt of this Notice, it is requested that a written response be submitted indicating the reason for the delay in submitting the completed CAR. The written response should also include a timeframe for submittal of the CAR.

Your cooperation in this matter may eliminate the need for further enforcement and/or legal action for the judicial imposition of fines and penalties pursuant to Section 403.141, Florida Statute, of $ 10,000.00 per day per violation. However, an informal conference may be requested to discuss the terms of a settlement.

Correspondence and questions regarding this Warning Notice should be directed to **Brian K. Kelley** of the Tank Section, at the letterhead address or telephone number.

Sincerely,

Ernest E. Frey, P.E.
Deputy Assistant Secretary

EEF/rs

Florida Department of Environmental Regulation

Northeast District • Suite 200, 7825 Baymeadows Way • Jacksonville Florida 32256-7577 • 904-448-4300

Bob Martinez, Governor Dale Twachtmann Secretary John Shearer Assistant Secretary
Ernest Frey, Deputy Assistant Secretary

September 25, 1990

CERTIFIED - RETURN RECEIPT

Mr. Allen R. Bush
City Manager
City of Palatka
201 North 2nd St.
Palatka, FL 32177

Dear Mr. Bush:

Request Notice No. RN90-1352TK54NED
Discharge Notification Form
City of Palatka - Maintenance Yard
Putnam County - Pollutant Storage Tanks

The Department is in receipt of your letter dated September 21, 1990 indicating that there is a suspected discharge at the referenced facility.

It is requested that the enclosed Discharge Notification Form (DNF) be completed and returned to this office within three (3) calendar days.

If you have any questions, you may contact me at the letterhead address or telephone number.

Sincerely,

Brian K. Kelley

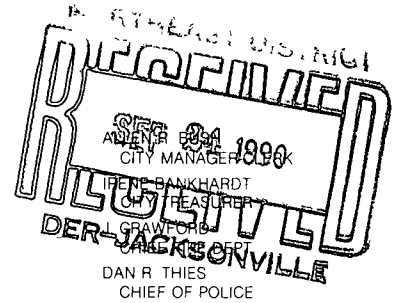
Brian K. Kelley
Environmental Specialist
Pollutant Storage Tanks

BKK:rs
Enclosure

CITY OF PALATKA

Regular meeting 2nd and 4th Thursdays each month at 7 30 P M

201 N. 2ND STREET
PALATKA, FLORIDA 32177
(904) 329-0100



September 21, 1990

Mr. Brian K. Kelly
Environmental Specialist
Florida Dept. of Environmental Regulation
Suite B-200
7825 Baymeadows Way
Jacksonville, FL 32256-7577

Dear Mr. Kelly:

Regular monitoring of the test wells around the City of Palatka's active gasoline tank revealed the slight odor of gasoline in well number 3 on September 21.

The City has requested Universal Engineering and Testing to run the necessary test on the tank. The daily inventories do not show any fuel loss.

I will apprise you of the results of the test. Please contact me if you have any further questions.

Sincerely,

Allen R. Bush
City Manager

ARB/jb

UNIVERSAL
ENGINEERING SCIENCES
Consultants In Geotechnical Engineering • Environmental Sciences • Construction Materials Testing

Offices In
• Orlando
• Gainesville
• Fort Myers
• Merritt Island
• Daytona Beach
• West Palm Beach

Order No: 90-0142
Report No: 5826

March 30, 1990

FDER Northeast District
3426 Bills Road
Jacksonville, FL 32202

Attention: Brian Kelley

Reference: Contamination Assessment
City Lot/Kay Larkin Airport
Palatka, Florida

Dear Mr. Kelley:

Universal Engineering Sciences, Inc. has been retained by the City of Palatka to perform a Contamination Assessment (CA) at each of two sites in Palatka, Florida. These sites are the City Lot and the Kay Larkin Airport. Your office received Notification of Discharge (NOD) reports for these sites in January 1990 resulting in your issuing a notice to perform the CA.

We propose to begin the CA at these locations during the first week of April, 1990. We will perform these assessments according to Florida Administration Code (FAC) 17-770, February 1990. Our first priority will be the evaluation of the vertical and horizontal extent of soil and groundwater contamination.

Universal Engineering Sciences, Inc. is preparing a site specific Quality Assurance Plan (QAP) for these projects. The QAP will be submitted to the Quality Assurance Section of the FDER prior to the start of groundwater sampling.

If you have any questions, please call me at (904) 372-3392.

Sincerely

UNIVERSAL ENGINEERING SCIENCES, INC.

John Cullinan
Geologist

JC/gs: (3)

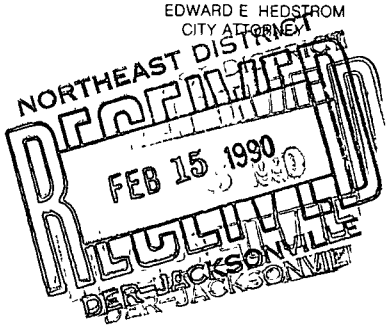
cc: Al Bush (Palatka)

CITY OF PALATKA

Regular meeting 2nd and 4th Thursdays each month at 7 30 P.M

201 N. 2ND STREET
PALATKA, FLORIDA 32177
(904) 329-0100

February 14, 1990



Mr. Brian K. Kelley
Environmental Specialist
Florida Department of Environmental Regulation
3426 Bills Road
Jacksonville, FL 32207

RE: Request No. RN90-0757TK54NED

Dear Mr. Kelley:

Enclosed are registration forms as requested in your letter of January 23, 1990. In item 2 you referred to registration placards at the used tanks. These have been on display in the terminal building at the airport and in the office at the city lot. In item number 3 you asked about the installation date of the 3000 gallon tank in use at the city lot. Attached is a letter from Mr. Perrin, who installed the tank, testifying to the installation date.

All tanks are now being stuck twice daily instead of once and are tested for water. Over/shorts are averaged weekly.

The City is currently taking bids on a firm to complete the CA where spills are reported.

If you have any questions, please feel free to contact me.

Sincerely,

Allen R. Bush
City Manager

attachments

ARB/smh

STORAGE TANK NOTIFICATION
Form 17-61.090 (3)

STATE OF FLORIDA

PLEASE PRINT OR TYPE

RECEIVED FEB 20
DER-JACKSONVILLE

(1) DER facility number (if known) #548520134 (2) County Code Putnam
(3) Original registration X data revision 2-1-90
(4) Facility type (see code list (4) on back) H

Location

(5) Facility name City of Palatka Maintenance Yard
Street address/city/state/zip 1016 Ocean St.
Palatka, Fla. 32177
Mailing address/city/state/zip 201 N 2nd St.

(6) Operator City of Palatka Telephone # 904) 329-0100
New operator date (only for change of operator) ___/___/___

(7) Company/person owning tank(s) and piping City of Palatka
Company address/city/state/zip 201 N. 2nd St.
Palatka, Fla. 32177
Contact person Ed Huntsberger Allen R. Bush Telephone # (904) 329-0100
New owner date (only for change of owner) ___/___/___

(8) Location (if available): Latitude 29° 40' ___" Longitude 81 °39 ' ___"
Section 42 Township 10 Range 27E

PLEASE FILL OUT ONE LINE FOR EACH TANK WITH CODES LISTED ON BACK

Fill out columns (9) through (16) for tanks in use, and (17) through (19) for tanks out of use

	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	17, 18, 19 for tanks retrofitted, removed abandoned, etc.	(17)	(18)	(19)
1										B	0	Dec 89
2										B	0	Dec 89
3	3000	B		May 73	U	C	B	B				

) Oliver A Perrin
Pollutant Storage System Specialty
Contractor Name
For new tank installation or tank removal

DPR # PTC 000708
Department of Professional Regulation
Certificate Number

To the best of my knowledge and belief all information submitted on this form is true, accurate and complete.

Allen R. Bush, City Manager
Print name and title of owner, operator or authorized person

Signature

2/14/90
Date

DRM 17-61.090(3) 11/29/87 (1/2)

February 13, 1990

TO WHOM IT MAY CONCERN:

The 3,000 gallon below-ground tank at the City of Palatka Maintenance Yard, 1016 Ocean Street, listed as Tank #3 on Request Notice No. RN90-0757TK54NED, was installed by me in May, 1973.

This can be verified by D. F. Dancy, Jr., agent for Gulf Oil Corporation at the time, and Tony Brinson, Superintendent for the City Streets and Sanitation Department.

Oliver A. Perrin

Oliver A. Perrin

Florida Department of Environmental Regulation

Northeast District • 3426 Bills Road • Jacksonville, Florida 32207 • 904-798-4200

Bob Martinez, Governor Dale Twachtmann, Secretary John Shearer, Assistant Secretary
Ernest Frey, Deputy Assistant Secretary

January 23, 1990

CERTIFIED - RETURN RECEIPT

Mr. Allen R. Bush
City Manager
City of Palatka
201 N. 2nd Street
Palatka, FL 32177

Dear Mr. Bush:

Warning Notice No. WN90-0758TK54NED
Soil and/or Groundwater Contamination
City of Palatka Maintenance Yard - 1016 Ocean St.
City of Palatka - Kay Larkin Airport - S.R. 100
Putnam County - Pollutant Storage Tanks

Chapter 403, Florida Statutes, authorizes and directs the Department of Environmental Regulation to control and prohibit pollution of air and water.

Chapter 376, Florida Statutes, further states that the discharge of pollutants upon any waters and lands of the State is prohibited and directs the Department to regulate these facilities and enforce Department rules. Pollutant is defined in Section 376.301(10), Florida Statutes.

The Department is in receipt of completed Discharge Notification Forms (DNF's) for the referenced facilities indicating the presence of petroleum related contamination.

Additionally, these facilities are not eligible to apply under either the State Cleanup Program or the Reimbursement Program of the State's Super Act, since the program ended December 31, 1988 and evidence of contamination was not found at these sites until December 20, 1989. Furthermore, this office has not received an indication that these facilities will be eligible for restoration coverage according to House Bill 430.

Although the Department recognizes that the City of Palatka has taken immediate initial remedial actions, further action is required to insure compliance with the Florida Statutes listed below.

Chapter 376, Florida Statutes, Pollutant Discharge Prevention and Removal.

376.302 Discharge of pollutants prohibited. The discharge of pollutants into or upon any waters of the State or lands, which discharge violates any Departmental "standard" as defined in Section 403.803(13), is prohibited.

376.305 Removal of prohibited discharges. Any person discharging a pollutant as prohibited by Section 376.30 - 376.319 shall immediately undertake to contain, remove, and abate the discharge to the satisfaction of the Department.

Therefore, due to the presence of petroleum contamination at these facilities, it is required that you initiate a Contamination Assessment (CA) according to FAC Chapter 17-70 (copy enclosed) at each facility within thirty (30) calendar days upon receipt of this Notice. Upon initiating the CA, it is requested that written confirmation indicating that the CA has begun be submitted to this office by the persons initiating the CA. The confirmation should be submitted within ten (10) calendar days upon initiation of the CA.

Additionally, within six (6) months upon initiating the CA, the Contamination Assessment Report (CAR)/Remedial Action Plan (RAP) should be submitted to this office. The CAR/RAP must conform with Chapter 17-70 requirements.

Your cooperation in this matter may eliminate the need for further enforcement and/or legal action for the judicial imposition of fines and penalties pursuant to Section 403.141, Florida Statute, of $ 10,000.00 per day per violation. However, an informal conference may be requested to discuss the terms of a settlement.

Correspondence and questions regarding this Warning Notice should be directed to Brian K. Kelley of the Tank Section, at the letterhead address or telephone number.

Sincerely,

Ernest E. Frey, P.E.
Deputy Assistant Secretary

EEF/rs

Florida Department of Environmental Regulation

Northeast District • 3426 Bills Road • Jacksonville, Florida 32207 • 904-798-4200

Bob Martinez, Governor | Dale Twachtmann, Secretary | John Shearer, Assistant Secretary
Ernest Frey, Deputy Assistant Secretary

January 23, 1990

CERTIFIED - RETURN RECEIPT

Mr. Allen R. Bush
City Manager
City of Palatka
201 N. 2nd Street
Palatka, FL 32177

Dear Mr. Bush:

Request Notice No. RN90-0757TK54NED
Soil and/or Groundwater Contamination
City of Palatka Maintenance Yard - 1016 Ocean St.
City of Palatka - Kay Larkin Airport - S.R. 100
Putnam County - Pollutant Storage Tanks

An on-site inspection was made at the referenced facilities on January 18, 1990 in response to the receipt of completed Discharge Notification Forms (DNF's).

Upon inspecting the facilities, violations of FAC Chapter 17-61 were noted. The enclosed inspection report form lists the violations found during the inspections under the comment section. Additionally, the violations are marked accordingly on pages 1 and 2 of the inspection form.

The following list contains timeframes and instructions for correcting the violations. Each number listed below corresponds to the violation number.

City of Palatka Maintenance Yard (Facility I.D. # 548520134)

1.
The enclosed registration form should be completed as indicated and returned to this office for review within twenty (20) calendar days upon receipt of this Notice.

2.
It is required that the current, applicable registration placard be properly displayed at the referenced facility immediately upon receipt of this Notice. For a copy of a lost registration placard, you may contact the Department's registration section in Tallahassee at (904) 487-7077.

16., 18. & 19.
In accordance with FAC Chapter 17-61(c)2, all underground tank systems installed before 1970, or tanks of unknown age, require retrofitting or replacement with non-corrosive construction materials by the end of December, 1989. According to current tank registration data, the age of tank number 3 is unknown. Furthermore, tank construction and piping do not meet said retrofit requirements. Therefore, it is required that storage tank number 3 either be retrofitted with an approved non-corrosive material, replaced with an approved underground storage tank or removed from service, within forty five (45) calendar days upon receipt of this Notice.

26. & 27.
The daily sticking of tanks for inventory purposes should include sticking for water in each tank. If water is/isn't present, the amount should be recorded daily. This practice should be implemented immediately upon receipt of this Notice.

30. & 33.
Daily over/shorts should be averaged every five (5) days or once a week. Then, the daily over/short average for the week should be compared to the allowed loss/gain for each tank system. The enclosed examples of maintaining inventory will further explain this requirement. This practice should be implemented immediately upon receipt of this Notice.

40. & 53.
In accordance with FAC Chapter 17-61(c)2, all underground tank systems installed before 1970, or tanks of unknown age, required retrofitting with an approved leak detection system by the end of December, 1986. Tank number's 1, 2 and 3 did not meet the required deadline. Currently, the remaining tank (# 3) has monitoring wells installed. A record of monthly monitoring well examinations should be implemented immediately.

<u>City of Palatka - Kay Larkin Airport (Facility I.D. # 548515799)</u>

1.
The enclosed registration form should be completed as indicated and returned to this office for review within twenty (20) calendar days upon receipt of this Notice. The completed registration form should include tank number's 4 and 5 as removed tanks.

2.
See number 2 above.

13.
The owners of an unmaintained storage tank system must properly abandon said system either by removal, by a licensed Pollutant Storage System Specialty Contractor (PSSSC), or by properly abandoning the system in place according to API Bulletin 1604, within ninety (90) days upon discovery. Tank number's 4 and 5 were improperly abandoned for an extended period of time. These tanks were properly abandoned by removal in December, 1989 and require no further action.

53.
Tank number's 4 and 5 did not have the required leak detection system noted in paragraph 40. & 53. above.

If you have any questions, you may contact me at the letterhead address or telephone number.

Sincerely,

Brian K. Kelley

Brian K. Kelley
Environmental Specialist
Pollutant Storage Tanks

BKK:rs

DEPARTMENT OF ENVIRONMENTAL REGULATION

ROUTING AND TRANSMITTAL SLIP

ACTION NO

ACTION DUE DATE

	Initial	Date
1. TO: (NAME, OFFICE, LOCATION) Bill Truman BWPR		
2. Tank regulation section		
3.		
4.		

REMARKS:

FYR- Copies have been sent to FPLIPA

INFORMATION

- Review & Return
- Review & File
- Initial & Forward

DISPOSITION

- Review & Respond
- Prepare Response
- For My Signature
- For Your Signature
- Let's Discuss
- Set Up Meeting
- Investigate & Report
- Initial & Forward
- Distribute
- Concurrence
- For Processing
- Initial & Return

FROM: Brian Kelley

DATE 1-22-98

PHONE

DEPARTMENT OF ENVIRONMENTAL REGULATION

ROUTING AND TRANSMITTAL SLIP

ACTION NO

ACTION DUE DATE

1. TO: (NAME, OFFICE, LOCATION)	Initial / Date
FPLIPA	
2.	Initial / Date
3.	Initial / Date
4.	Initial / Date

REMARKS:

FYR - COPIES HAVE BEEN SENT TO BWPR

INFORMATION	
	Review & Return
	Review & File
	Initial & Forward

DISPOSITION	
	Review & Respond
	Prepare Response
	For My Signature
	For Your Signature
	Let's Discuss
	Set Up Meeting
	Investigate & Report
	Initial & Forward
	Distribute
	Concurrence
	For Processing
	Initial & Return

FROM: Brian Kelley

DATE 1-22-90

PHONE

DEPARTMENT OF ENVIRONMENTAL REGULATION

ROUTING AND TRANSMITTAL SLIP

ACTION NO

ACTION DUE DATE

1. TO. (NAME, OFFICE, LOCATION)	Initial / Date
Ann Sinclair BWPR	
2. Tank Reg. Subsection	Initial / Date
3.	Initial / Date
4.	Initial / Date

REMARKS:

FYR

INFORMATION	
	Review & Return
	Review & File
	Initial & Forward

DISPOSITION	
	Review & Respond
	Prepare Response
	For My Signature
	For Your Signature
	Let's Discuss
	Set Up Meeting
	Investigate & Report
	Initial & Forward
	Distribute
	Concurrence
	For Processing
	Initial & Return

FROM: Brian Kelley

DATE 1-22-90

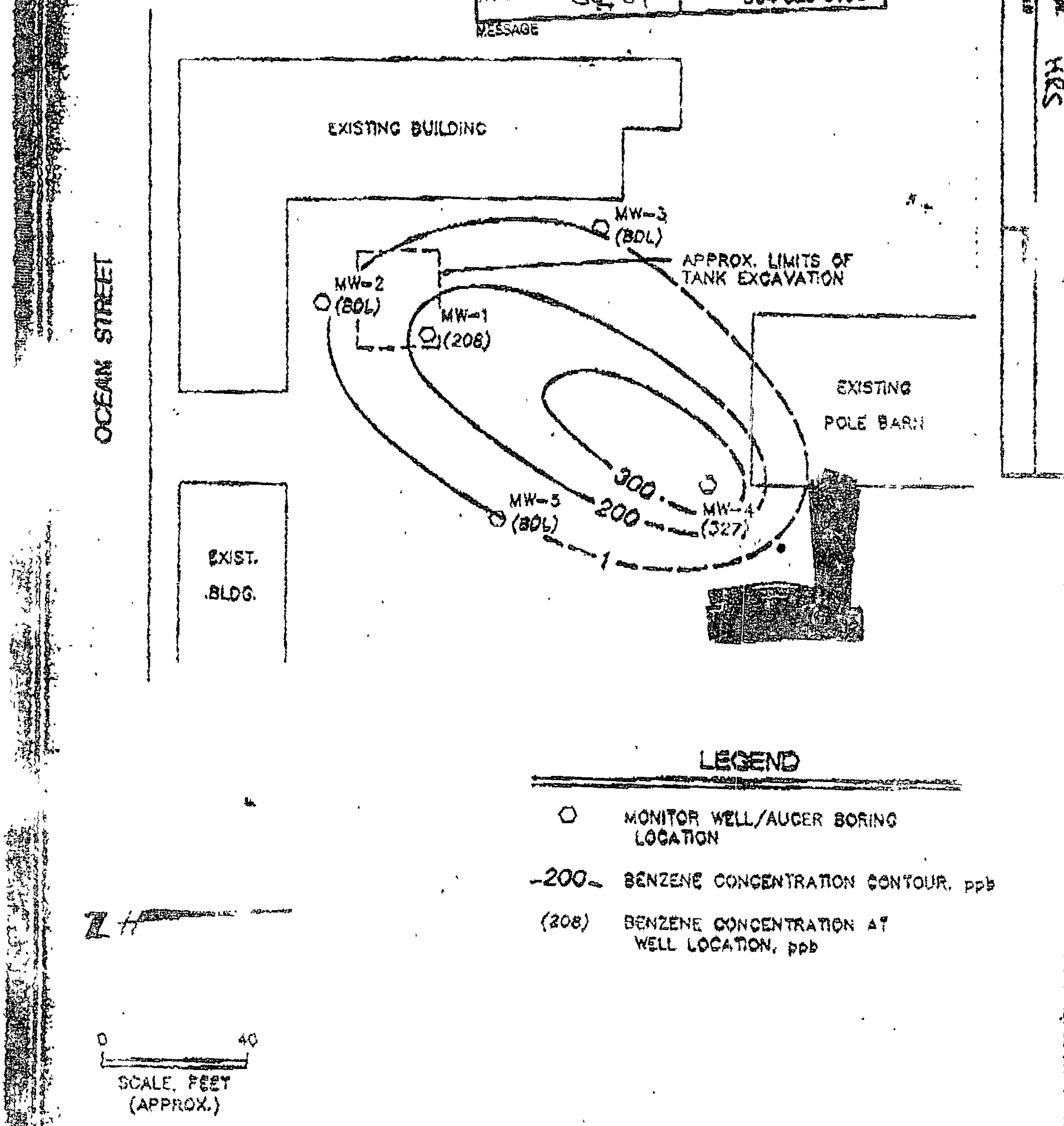
PHONE

NED

TO David Flowers	FROM [redacted]A Bush
CO.	CO. CITY OF PALATKA
FAX # 6601	FAX # 904-329-0106

MESSAGE

Putnam Co. HRS



CONTAMINATION ASSESSMENT REPORT
MAINTENANCE LOT, OCEAN STREET
PALATKA, FLORIDA

UNIVERSAL ENGINEERING SCIENCES

BENZENE CONCENTRATION CONTOUR MAP

DRAWN BY: GE	DATE: 5/31/91	CHECKED BY: [signature]	DATE: 5/31/91
SCALE: AS SHOWN	PROJECT NO: 16426-002-07	REPORT NO: 1534	PAGE NO: A-12

Florida Department of Environmental Regulation

Northeast District • 3426 Bills Road • Jacksonville, Florida 32207 • 904-798-4200

Bob Martinez, Governor Dale Twachtmann, Secretary John Shearer, Assistant Secretary
Ernest Frey, Deputy Assistant Secretary

December 26, 1989

CERTIFIED - RETURN RECEIPT

Mr. Allen R. Bush
City of Palatka
Maintenance Yard
201 N. 2nd Street
Palatka, FL 32177

Dear Mr. Bush:

City of Palatka Maintenance Yard - 1016 Ocean St.
Putnam County - Pollutant Storage Tanks

The Department is in receipt of a completed Discharge Notification form (DNF) for the referenced facility.

Due to the recent petroleum discharge an on-site inspection will be conducted at the facility to determine compliance with FAC Chapter 17-61, as well as to determine the course of action necessary to ensure the proper assessment and cleanup of any contamination found as a result of a petroleum discharge.

The inspection will be conducted on Thursday, January 18, 1990. You may contact this office in order to arrange a specific time for the inspection on that day by calling the letterhead address or telephone number.

As required by Chapter 17-61, on the day of the inspection you should have available at the facility:

1) the most current two (2) years worth of inventory and reconciliation records for the tanks;

2) Monitoring well monthly records dated from the first month monitored until present;

3) all available maintenance records which may include tightness test results, structure-to-soil potential test results, etc.;

4) keys to unlock any locked monitoring well on-site; and

5) The updated registration placard.

Our agents will have appropriate identification at the time of the inspection. Please advise your employees of our intended visit to prevent any potential confusion of problems.

If you have any questions concerning this inspection, you may contact me at the letterhead address or telephone number.

Sincerely,

Brian K. Kelley

Brian K. Kelley
Environmental Specialist
Pollutant Storage Tanks

BKK:rs

Department of Environmental Regulation

Discharge Notification Form

Form 17-1.218(3)

Use this form to notify the Department of Environmental Regulation of:

1. Results of tank testing which reveal a discharge within 3 working days of testing
2. Discharges exceeding 100 gallons on pervious surfaces as described in Section 17-61.05(4)(b) within 3 working days of discovery.
3. Positive response of a detection device, monitoring well test of sample or laboratory report within 3 working days of discovery.

Mail to the DER District Office in your district.

PLEASE PRINT OR TYPE
Put "X" where answer is unknown.

1. Facility Number 5485216 34 2. Tank Number 1 3. Date 12-21-89

4. Facility Name City of Palatka Maintenance Yard
   Facility Operator City of Palatka
   Facility Address 1016 Ocean St.
   Telephone Number (904) 329-0100 County Putnam
   Mailing Address 201 N 2nd St. Palatka, Fla. 32177

5. Date of test or discovery: December 19, 1989 month/day/year

6. Method of initial discovery (circle one only)
   - A. Automatic detector in ground, monitoring well, or containment
   - B. NFPA 329 test (underground tanks only).
   - C. Manual test of monitoring well(s)
   - D. Emptying and inspection.
   - E. Inventory control.
   - F. Odor or visible signs at facility or in vicinity
   - (G.) Other Removal (explain)

7. Estimated number of gallons lost Unknown

8. What part of the storage system is leaking? (circle all that apply) A. Dispenser B. Pipe C. Fitting (D) Tank E. Unknown

9. If a tank is leaking, circle the choices which describe the type.
   - A. Aboveground
   - B. Factory welded
   - C. Field erected
   - (D.) Underground
   - E. Bare or asphalt-coated steel
   - F. Fiberglass-clad steel
   - G. Fiberglass
   - H. Sacrificial anode type
   - I. Impressed current type
   - J. Double walled
   - M. Other or Unknown (explain)

10. Type of pollutant discharged. (circle one)
   - A. Leaded Gasoline
   - (B.) Unleaded gasoline
   - C. Gasohol or alcohol-enriched gasoline
   - E. Aviation fuel
   - Y. Other
   - Z. Unknown (explain)

11. Cause of leak (circle all that apply)

	Piping	Tank	
A. Unknown	B. Split	G. Split	J. Installation failure
	C. Loose connection	H. Corrosion	P. Other
	D. Other	(I. Puncture)	

12. TO THE BEST OF MY KNOWLEDGE AND BELIEF ALL INFORMATION SUBMITTED ON THIS FORM IS TRUE, ACCURATE, AND COMPLETE.

Allen L. Bush
Name of Owner, Operator or Authorized Representative

Signature of Owner, Operator, or Authorized Representative

KEEP A COPY OF THIS FORM FOR YOUR RECORDS

State of Florida
Department of Environmental Regulation

Pollutant Storage Tank System Inspection Report Form

Facility ID No.: 548521034 County PUTNAM
Facility Name: City of Palatka Maintenance Yard
Facility Location: 1016 Ocean St. Palatka
Operator City of Palatka Phone: (904) 329-0100
Owner: City of Palatka Phone (904) 329-0100
Latitude 29° 39' 00" Longitude 81° 38' 15" Section _____ Township _____ Range _____

Tank #	Size	Contents	Installation Date	U/A or In-Contact	Tank Construction	Integral Piping	Monitoring System	Tank Status
1	1000	B	XX/XX	U				Removed
2	1000	B	XX/XX	U				Removed
3	3000	(B)	XX/XX	U	?	B	(B)	Active
4	500	D	XX/XX	A	(?)	A	(I)	Active

Comments. VIOLATIONS AS NOTED ON PAGES 1 + 2: (6) REGISTRATION REQUIRES UPDATING — TO REFLECT REMOVAL OF TANKS 1 AND 2 AND DISPENSING OF UNLEADED GAS / INSTALLATION OF MONITORING SYSTEM AT TANK 3. (7) REGISTRATION PLACARD IS REQUIRED TO BE POSTED AT THE FACILITY. (16, 18, 19) IN ACCORDANCE WITH FAC 17-61, ALL PRE-1970 INSTALLED TANKS OR TANKS OF UNKNOWN AGE REQUIRE RETROFITTING WITH APPROVED NON-CORROSIVE CONSTRUCTION MATERIALS BY END OF 12/89 (PIPING INCLUDED); TANK 3 DOES NOT MEET REQUIREMENTS. (26, 27) DAILY WATER READINGS NOT PROVIDED. (30 – 33) FIVE DAY OR WEEKLY AVERAGE OF DAILY OVER/SHORTS NOT PROVIDED FOR SIGNIFICANT LOSS/GAIN DETERMINATION. — CONTINUED —

Inspection Type:
- ☐ Complaint Response
- ☒ Initial
- ☐ EDI
- ☐ Public Well Field
- ☐ Reinspection
- ☐ Installation
- ☐ Tank Removal
- ☐ Unregistered

Facility Information:
- ☐ Abandoned
- ☐ Aboveground
- ☐ Govt-Federal
- ☒ Govt.-Other
- ☐ Non-retail
- ☐ Retail
- ☐ Retrofit (M. or O.)
- ☐ Retrofit (L. or R.)

DER District: N.E.D.
Local Program: _____

Brian K. Kelley 1-18-90
Inspector's Signature & Date

Facility Contact's Signature & Date

Violations must be corrected by: ✓ next routine inspection ☐ or by: ☐ ____ / ____ / ____ (mo / day / yr)

DER Form 61-01 88 (04-01-88)

State of Florida
Department of Environmental Regulation

Pollutant Storage Tank System Inspection Report Form

Facility ID No.: 548521034 County: PUTNAM
Facility Name: City of Palatka Maintenance Yard
Facility Location: 1016 Ocean St Palatka
Operator: City of Palatka Phone: (904) 329-0100
Owner: City of Palatka Phone: (904) 329-0100
Latitude 29° 39' 00" Longitude 81° 38' 15" Section ____ Township ____ Range ____

Tank #	Size	Contents	Installation Date	U/A or In-Contact	Tank Construction	Integral Piping	Monitoring System	Tank Status

Comments: (40, 53) In accordance with FAC 17-61, all pre-1970 installed tanks or tanks of unknown age require retrofitting with an approved leak detection system by the end of 12/89. Tanks 1, 2, 3 did not meet retrofit deadline.

Inspection Type:
- ☐ Complaint Response
- ☐ Initial
- ☐ EDI
- ☐ Public Well Field
- ☐ Reinspection
- ☐ Installation
- ☐ Tank Removal
- ☐ Unregistered

Facility Information.
- ☐ Abandoned
- ☐ Aboveground
- ☐ Govt.-Federal
- ☐ Govt.-Other
- ☐ Non-retail
- ☐ Retail
- ☐ Retrofit (M. or O.)
- ☐ Retrofit (L. or R.)

R District

Local Program.

Inspector's Signature & Date

Facility Contact's Signature & Date

lations must be corrected by: next routine inspection ☐ or by ☐ ____ / ____ / ____ mo day yr

Form 61-01 88 (04-01-88)

Department of Environmental Regulation

Inspection Form — UST Compliance Section

Facility # 548521034
Date 1-18-90

			Yes	No	Unk	N/A
I.	**REGISTRATION/NOTIFICATION:**					
1	Facility has properly registered all applicable tanks on site? 17-61 050(1)(a) *UPDATE REQUIRED	*1	✓			
2	Current Registration placard is properly displayed? 376 303(1)(b), FS	2				
3	Proper notification has been made for the following 17-61 050(1)(b)	3	✓			
4	abandonment	4	✓			
5	facility sale	5				✓
6	retrofitting	6				✓
7	tank test failure	7				✓
8	discharges	8	✓			
9	monitoring response	9				✓
II.	**TANK STATUS:**					
10	Tank Designated Out of Service 17-61 050(3)(b)1 (TANK #1 REMOVED)	10			✓	
11	inventory + monitoring records kept or	11			✓	
12	secured against tampering	12			✓	
13	Tanks properly abandoned? 17-61 050(3)(c)	13	✓			
14	in place or	14				✓
15	removed	15	✓			
III.	**OPERATION AND MAINTENANCE:**					
16	The schedule for retrofitting has been met? 17-61 060(2)(c) & (3)(b)2	16		✓		
17	overfill protection	17	✓			
18	piping and/or (TANK #3)	18		✓		
19	tanks	19		✓		
20	Structure-to-soil potential test schedules for sacrificial anode protected systems are being met?	20				✓
21	tanks 17-61 060(2)(d)1 a	21				✓
22	piping 17-61 060(3)(b)1 b	22				✓
23	Impressed current protected systems are continuously energized and metered?	23				✓
24	tanks 17-61 060(2)(d)1 b	24				✓
25	piping 17-61 060(3)(b)1 c	25				✓
IV.	**INVENTORY REQUIREMENTS:**					
26	Daily inventory records maintained? 17-61 050(4)(c)2 a	26		✓		
27	water	27		✓		
28	product	28	✓			
29	meter readings	29	✓			
30	Inventory reconciliation is performed? 17-61 050(4)(c)2 b	30		✓		
31	each 5 consecutive readings	31		✓		
32	once a week	32		✓		
33	alternate procedure	33		✓		
34	Significant loss/gain investigation 17-61 050(4)(c)3 NO KNOWN LOSS/GAIN BY INVENTORY	34				✓
35	performed	35				✓
36	found source of discrepancy, and/or	36				✓
37	followed up with precision testing? 17-61 050(4)(c)	37				✓

Department of Environmental Regulation

Inspection Form — UST Compliance Section

Facility # 548502034

Date 1-18-90

V. RECORD KEEPING. DISCHARGE REPORTING & CONTAMINATION CLEAN UP:		Yes	No	Unk	N/A
38 Records being kept as specified by 17-61 050(4)(a)? (INVENTORY)	38	✓			
39 2 years — WELLS INSTALLED 12/89	39	✓			
40 monitoring system exams	40		✓		
41 retrofitting records	41				✓
42 maintenance exams	42			✓	
43 NFPA 329 tests	43				✓
44 repairs	44				✓
45 available within 2 working days	45				✓
46 Tank and pipe tests	46				✓
47 meet NFPA 329 standards 17-61 060(2)(d)4	47				✓
48 administered by manufacturer certified personnel?	48				✓
49 The discharge of pollutants has resulted in immediate action undertaken for	49	✓			
50 containing	50	✓			
51 removing, and	51	✓			
52 abating? 17-61 050(4)(b)1	52	✓			

VI. LEAK DETECTION/MONITORING WELLS:					
53 Facility has an approved leak detection system in compliance with the retrofit schedule? 17-61 060(2)(b)3	53		✓		
54 Monitoring wells have been properly constructed? 17-61 050(5)(a) WELLS INSTALLED 12/89 REQUIRED INSTALLATION DATE - 12/89	54	✓			
55 2" diameter casing	55	✓			
56 properly grouted	56	✓			
57 equipped with water tight cap	57	✓			
58 properly located 17-61 060(2)(b)3	58	✓			
59 Monitoring wells are being properly sampled? 17-61 050(5)(b)	59			✓	
60 containing less than 1 foot water	60				✓
61 automatically tested wells	61				✓
62 manually sampled wells	62			✓	
63 Continuously operating leak detection systems installed and operated in accordance with manufacturer's specs? 17-61 050(4)(c)1	63				✓
64 Positive response of a detection device treated as a discharge? 17-61 050(5)(c)	64				✓
65 Monitoring system requirements are being complied with? 17-61 060(2)(b)3 * AS OF 12/89	65	✓			
66 groundwater plan	66				✓
67 SPCC plan	67				✓
68 approved alternate procedure	68				✓

FLORIDA PETROLEUM LIABILITY INSURANCE AND RESTORATION PROGRAM COMPLIANCE CHECKLIST

DATE 1-18-90
DER Facility #548521034
Facility Name City of Palatka Maintenance Yard
Facility Address 1016 Ocean St. Palatka, FL 32177

Contact Person/Telephone Ed Huntsberger (904) 329-0103
Latitude 29° 39' 00" Longitude 81° 36' 15"

For the items below that may indicate non-compliance or gross negligence, please explain in detail and provide supporting documentation

YES	NO	UNKNOWN	I. Compliance with Chapter 376.3072, Florida Statutes and Chapter 17-769, F.A.C.
☐	☑	☐	1. Was any contamination discovered prior to January 1, 1989? If yes, explain. No documentation of contamination prior to Jan 1, 1989
☐	☑	☐	2. Petroleum-Liability Insurance Program Affidavit form completed? If yes, give date notarized
☐	☑		3 Is the site insured by FPLIPA? If not, supply the carrier insured with, or other type of financial responsibility mechanism used. Financial responsibility mechanism-not provided.
☐	☑	☐	4. Restoration Coverage Notice of Eligibility issued? If yes, give effective date
☐	☑		5. Has site access ever been denied?
☑	☐		6. Has a Storage Tank Program compliance inspection ever been performed for this facility? If yes, give the date of the most recent inspection and supply a copy. 1-18-90
☑	☐		7. Has the suspected petroleum storage system component responsible for the discharge been removed from service within 3 days of discovery. If no, explain. Contamination discovered during tank removal.
☑	☐		8. Have steps to obtain cleanup services been initiated within 3 days of the discharge discovery? If no, explain.

II. Information Required for Site Scoring and Ranking

☑	☐	9. Is there evidence of a contamination problem? If yes, explain in comment section.

If yes to 9, check one:

☐ a. Two or more monitoring wells/boreholes show >2" free product.

☐ b. Only 1 monitoring well shows >2" free product or monitoring wells show <2" free product or petroleum sheen.

If yes to 9, check one: Date 1-18-90

|_| c. Monitoring wells are contaminated but contain no free product (vapors only).

|✓| d. Soil contamination and/or recent product loss.
Soil contamination — OVM monitorng conducted
Water Contamination — laboratory Analysis

Check one:

10. Contamination Prooduct Type

|✓| a. Light petroleum (kerosene, gasoline, aviation fuel, etc.)

|_| b. Heavy petroleum (fuel oil, diesel or similar petroleum products)

|_| c. Unknown or other _____

Check those that apply:

11. Potable water — City water

|_| a. Within 1/2 mile: Large wells >100,000 gpd
1. Indicate direction: _____
2. Estimate distance: _____

|_| b. Within 1/4 mile: small wells <100,000 gpd
1. Indicate direction: _____
2. Estimate distance: _____

|_| c. Surface water body used as a public water system.

12. Indicate below proximity to population centers: (restaurant, shopping center, house, etc.)

|_| a. < 500 feet: Indicate distance: _____

|_| b. > 500 feet: Estimate distance: _____

Please indicate how the site scoring and ranking information was determined. On-site inspection.
Potable water — City Water

Comments: Samples were taken from a well placed at the site for a closure assessment. Based on lab analysis — levels exceeding the MCL for Benzene + Total VOA's confirm contamination

Brian K. Kelley
Compliance Inspector

1-18-90
Inspection Date

DER District: N.E.D. (or) Local Program: _____

PRELIMINARY

January 17, 1990

City of Palatka
201 North 2nd Street
Palatka, Florida 32077

Attention: Mr. Alan Bush

Reference: Monitor Well Sampling
City Lot
Palatka, Florida

Dear Mr. Bush:

Universal Engineering Sciences, Inc. has completed the installation and sampling of a monitor well (MW-2) in the backfilled tank excavation at the referenced property. This well was sampled to evaluate the groundwater quality where two underground storage tanks (UST's) were recently removed. The presence of volatile organics in the soils were detected and reported in Universal Engineering Sciences, Inc. Report No. 5521.

This well was installed by hollow stem auger advanced to eleven feet below grade (b.g.). As the hollow stem auger was removed from the boring, a two-inch PVC pipe with ten feet of slotted screen replaced the auger. The well was then finished with a bentonite and grout seal followed by a water tight manhole.

On January 5, 1990, after developing the well by purging approximately four well volumes, groundwater samples were collected for laboratory analysis. The method for analyses include EPA Method 601, 602, EDB and Lead. The results of these analysis are presented in Table I.

Table I
Date Sampled: January 5, 1990

Station	MW-2	MCL(3)
Detected Parameter (1) (2)		
Benezene	738	1
Ethylbenzene	921	N/A

Toluene	1210	N/A
Xylene	3420	N/A
MTBE	607	N/A
Total VOA's(4)	6289	50

(1) all concentrations presented in micrograms per liter (ug/l)
(2) all other parameters not detected
(3) maximum contaminant level established in FAC 17-70
(4) total volatile organic aromatics detected by EPA Method 602; includes, Benzene, Ethylbenzene, Toluene, and Xylene

Conclusions and Recommendations

Based on the results of the analysis of groundwater from MW-2, Universal Engineering Sciences, Inc. has found contamination present at levels exceeding the MCL for Benzene and total VOA's. These parameters exceed the MCL by a substantial quantity.

The results of this sampling should be reported to the FDER as as an attachment to the Notification of Discharge (NOD) filed during the previous tank excavation. The FDER will probably request that the horizontal and vertical extent of soil and groundwater contamination be determined at this site.

We appreciate this opportunity to provide service to you on this project, and we look forward to our continued association. Please do not hesitate to contact us if you should have any questions, or if we can be of some further assistance as your plans proceed.

Sincerely,

UNIVERSAL ENGINEERING SCIENCES, INC.

John Cullinan
Geologist

JC/pl: (3)

Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.

Ph. (407) 339-5984
Fax (407) 260-6110

FLOWERS CHEMICAL LABORATORIES, INC.

ANALYTICAL & CONSULTING CHEMISTS

eceived From:
Universal Eng.
3532 Maggie Blvd.
Orlando,FL 32811

Date Reported: Jan11 1990

Proj Num City Lot
DHRS Lab# : 83139
DER Lab# : E83018

or: 601 602 EDB PB
ate Received: Jan 8 1990 Lab Num: 10171-10171

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	10171 MW 2
ichlorodifluorometh	ug/L	2	112	7.78	<2
Vinyl_Chloride	ug/L	0.5	101	0.65	<0.50
1,2-Dichlorobenzene	ug/L	0.5	101	0.64	<0.50
1,3-Dichlorobenzene	ug/L	0.5	99.7	0.21	<0.50
1,4-Dichlorobenzene	ug/L	0.5	99.2	0.54	<0.50
Benzene	ug/L	0.5	98.9	0.78	738
Chlorobenzene	ug/L	0.5	99.6	0.26	<0.50
Ethylbenzene	ug/L	0.5	100	0.32	921
Toluene	ug/L	0.5	98.3	1.20	1210
Xylene	ug/L	0.5	98.7	0.90	3420
ethyl-t-butylether	ug/L	0.5	99.9	0.07	607
	-	-			-
thylene dibromide	ug/L	.005	104	3.69	<.0050

Data Release Authorization

mple integrity and reliability certified by Lab personnel prior to analysis.
thods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director

Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.

Ph. (407) 339-5984
Fax (407) 260-6110

FLOWERS CHEMICAL LABORATORIES, INC.

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ceived From:
Universal Eng.
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Date Reported: Jan11 1990

Proj Num City Lot
DHRS Lab# : 83139
DER Lab# : E83018

r: 601 602 EDB PB
te Received: Jan 8 1990 Lab Num: 10171-10171

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	10171 MW 2
Lead	mg/L	.001	101	5.70	<.0010
Dilution_Factor		1	-	-	1
1,1-Trichlorethane	ug/L	1	100	0.11	<1
1,2,2-Tetchloretan	ug/L	1	91.4	6.48	<1
1,2-Trichlorethane	ug/L	1	101	0.78	<1
,1-Dichloroethane	ug/L	1	104	2.69	<1
,1-Dichloroethene	ug/L	1	105	3.55	<1
,2-Dichloroethane	ug/L	1	104	2.90	<1
,2-Dichloropropane	ug/L	1	102	1.34	<1
·Chloroethylvinylet	ug/L	1	87.5	9.40	<1
omodichloromethane	ug/L	1	101	0.93	<1
Bromoform	ug/L	1	105	3.49	<1
1,3-Dichlorpropene	ug/L	1	100	0.28	<1
rbon_Tetrachloride	ug/L	1	101	0.36	<1
Chloroform	ug/L	1	102	1.46	<1
bromochloromethane	ug/L	1	101	0.71	<1
lethylene_Chloride	ug/L	1	109	5.82	<1
-1,3-Dichlorpropene	ug/L	1	101	0.46	<1
·ichlorfluormethane	ug/L	2	112	7.78	<2
,,2-Dichloroethene	ug/L	1	107	4.88	<1
Trichloroethylene	ug/L	1	103	2.01	<1
Tetrachloroethylene	ug/L	1	101	1.02	<1
,2-Dbrm-3-chlrprpan	ug/L	1	99.2	0.59	<1
Bromomethane	ug/L	5	101	0.65	<5
Chloroethane	ug/L	3	101	0.65	<3
Chloromethane	ug/L	5	101	0.65	<5

Data Release Authorization

mple integrity and reliability certified by Lab personnel prior to analysis.
thods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director

NEWBURYPORT & 2nd ST., P.O. BOX 150597, ALTAMONTE SPRINGS, FLA. 32715-0597

UNIVERSAL ENGINEERING TESTING COMPANY
3546 L.B. McLEOD ROAD – ORLANDO, FLORIDA 32805 – PHONE (305) 423-0504

CHAIN OF CUSTODY RECORD

PAGE ____ OF ____

PROJECT NO.

PROJECT NAME: City Lot

SAMPLERS (SIGNATURE): Joel E. John

STATION NUMBER	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	8260?	601	602	EDB	Pb					REMARKS
MW-2	1-5-90	12am		✓	MW @ City lot	5Q	✓	✓	✓	✓						Results by
					Lab# 10171											17 Jan 90
																No blanks

RELINQUISHED BY:	DATE	TIME	RECEIVED BY	RELINQUISHED BY:	DATE	TIME	RECEIVED BY
Joel E. John	1-5-90	2:00pm	U.P.S.				
RELINQUISHED BY:	DATE	TIME	RECEIVED BY	RELINQUISHED BY:	DATE	TIME	REMARKS
					1/8/90	110	
RELINQUISHED BY:	DATE	TIME	RECEIVED BY	RECEIVED FOR LABORATORY BY: [signature]			

7-CDC-098 3/88

Florida Department of Environmental Regulation

Northeast District • 3426 Bills Road • Jacksonville, Florida 32207 • 904-798-4200

Bob Martinez, Governor | Dale Twachtmann, Secretary | John Shearer, Assistant Secretary | Ernest Frey, Deputy Assistant Secretary

December 22, 1989

CERTIFIED - RETURN RECEIPT

Mr. Ed Huntsberger
City of Palatka
Building & Zoning
201 North 2nd Street
Palatka, FL 32078

Dear Mr. Huntsberger:

Request Notice No. RN89-0698TK54NED
Tank Abandonment Procedures
City of Palatka Sites:
Kaylarkin Airport
City Lot
Library
Old Jail
Putnam County - Pollutant Storage Tanks

This Notice is being sent to you in response to our phone conversation on December 21, 1989 regarding the referenced facilities.

You indicated in said conversation, as well as in your letter to the Department dated December 5, 1989, that underground storage tanks at these facilities are to be removed. In fact, it was indicated that the tanks at the airport and the city lot had recently been removed.

Enclosed is a copy of the Department's Draft Closure Policy. This policy has been drafted in response to federal EPA rules requiring a Closure Assessment or audit following the proper abandonment of underground peroleum storage systems. The Department recommends that you follow its draft policy in order to meet the current EPA requirements.

You indicated that a company, Universal Testing, has been contracted by the City to determine if soil and/or groundwater is present at the referenced facilities upon removing the tanks. It was also indicated that contaminated soils have been found, following the use of an Organic Vapor Analyzer (OVA).

Once the tanks have been removed from each facility, it is requested that you submit to this office for review, completed registration/notification forms for each site indicating the removal of the underground systems.

Additionally, if soil and/or groundwater contamination is found at any facility according to the draft closure policy, then a completed Discharge Notification Form (DNF) should be submitted to this office. And finally, a Closure Report should be submitted for each facility regarding any sampling of soil and/or groundwater that took place.

If you have any questions, you may contact me at the letterhead address or telephone number.

Sincerely,

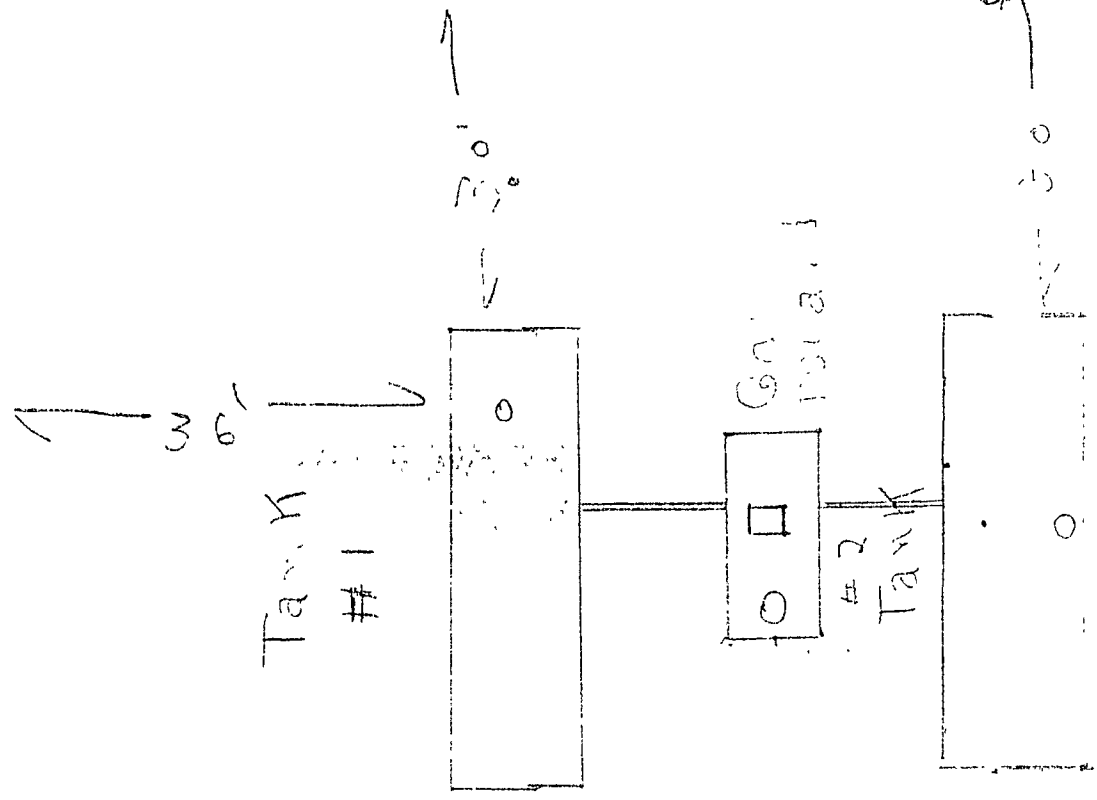
Timothy J. Dohaney

Timothy J. Dohaney
Environmental Specialist
Pollutant Storage Tanks

TJD:rs
Enclosure(s)

W+S

Store House



Field Inspection Summary Form

The Field Inspector's primary role is to observe. Inspectors may not authorize changes in scope of work, offer advice, or interfere in contractor work. Field Inspectors must obtain a copy of the Work Order or Task Assignment (WO or TA) for the scope of work to be observed. The field inspector will review the WO/TA prior to arrival and will have it onsite. If anything is observed that requires immediate attention, the inspector will contact the FDEP Site Manager. This form is a summary of observations made during the site visit. Full details are provided in the inspector's log book. A copy of the inspector's log book pages and any photographs taken for this inspection are attached.

INSPECTOR / TEAM: Stephanie Emerson/LP-01 INSPECTION DATE(S): 8/5/2016

SITE IDENTIFICATION

FAC ID: 54/9102245
DEP SITE MANAGER/ TEAM: Stephanie Emerson/LP-01
SITE NAME: Palatka City - Abandoned City Lot
CURRENT BUSINESS NAME: City of Palatka Public Works Dept
ADDRESS: 1016 Ocean Street
CITY: Palatka
COUNTY: Putnam
SCORE: 10 (LSA)
FACILITY STATUS: ○ Active Fuel Dispensing ○ Active, Not Fuel Dispensing ◉ Closed

WORK ORDER

WO or TA #: NA
EVENT #: NA

CONSULTANT

COMPANY NAME: To be determined
PROJ. MANAGER: NA
NUMBER of REPRESENTATIVES: NA
FIELD LEAD: NA

SUBCONTRACTOR(S)

COMPANY NAME: NA
NUMBER of REPRESENTATIVES:

SCOPE OF WORK OBSERVED (details on following pages)

- ☐ **Assessment:** ☐ MW Installation ☐ Groundwater Sampling ☐ Soil Boring Installation ☐ Soil Sampling
- ☐ **Remediation:** ☐ Soil Excavation ☐ Remedial Construction ☐ VE Well Install
  ☐ AS Well Install ☐ Injection Well Install ☐ Recovery Well Install
- ☐ **Pilot Testing:** ☐ In-situ AS ☐ MPE ☐ SVE ☐ Biosparge
  ☐ GW Recovery ☐ Bio-Remediation ☐ Bio-Venting ☐ Other:
- ☐ **Post Remedial Monitoring:** ☐ Groundwater Sampling ☐ Soil Sampling
- ☐ **Natural Attenuation Monitoring:** ☐ Groundwater Sampling ☐ Soil Sampling
- ☑ **Other:** Initial Site Visit

GENERAL ISSUES (If "No" or "N/A" is selected, describe issues in Comments section.)

Are digital photos attached to this report?	◉ Yes	○ No	
Were BPSS guidance and Preapproval SOP procedures followed?	○ Yes	○ No	◉ N/A
Did the contractor request that the inspector sign the Health & Safety Plan?	○ Yes	○ No	◉ N/A
Did the inspector make contact with the site owner or facility representative?	◉ Yes	○ No	○ N/A
Does the site map appear accurate?	○ Yes	◉ No	○ N/A
Does the area map appear current (adjacent properties)?	○ Yes	◉ No	○ N/A

INSTRUMENTS & EQUIPMENT

CONSULTANT INSTRUMENTS/EQUIPMENT USED:

- ☐ OVA/PID ☐ Multi-Meter
- ☐ Oil-Water Probe ☐ Datalogger ☐ Turbidity Meter
- ☐ Other:

Instrument calibration onsite observed? ○ Yes ○ No ◉ N/A

SUBCONTRACTOR INSTRUMENTS/EQUIPMENT USED:

Instrument calibration onsite observed? ○ Yes ○ No ◉ N/A

Field Inspection Summary Form

ACTIVITIES OBSERVED / COMMENTS:

DATE: 08/05/16 WEATHER: Sunny, hot, 98 degrees

INSPECTOR ON/OFF SITE: 11:37 / 12:45

CONTRACTOR ON/OFF SITE: NA / NA SUBCONTRACTOR ON/OFF SITE: NA / NA

Introduced myself to the front office staff. The property owner (City of Palatka City Manager) had not informed the Public Works Dept of my pending visit. The site contains an active Public Works facility for the City of Palatka. Spoke on the phone with the Director of Public Works, Jonathan Griffith, who was not on site at the moment. Briefly discussed what I was there to do for the inital site visit and the upcoming assessment work and time frames.

Performed a walk-over of the site. Inspected the former pump and treatment system that was still present on site. (Note: Based on knowledge gained from John Cullinan w/ACEPD, who used to work for the former environmental contractor Universal, I had knowledge that a remedation system had been started and possibly operated for a couple of years. This information is not available in OCULUS.) Was able to locate the recovery well (RW-1) associated with the former system and MW-5. The RW consisted of a 2.5 x 2.5 ft vault, with pump and flow meter inside the vault. MW-5 was in good condition, with a PVC slip cap. Measured the depth-to-water (DTW) and the total well depth. MW-5 = 3.67 ft, total depth 11.95 ft. RW-1 = ~3.5 ft bls. Another well, maybe MW-1 was located (?). However , the manhole cover had a large diameter bolt that I was unequipped to open. There were no signs of MW-3 or MW-4. MW-2 should be searched for more thoroughly with a metal detector. But it was not located during this site visit.

The former pump and treat system equipment still present included a fiberglass 2 ft dia x 10 ft high stripping column, a fiberglass 3.5 dia x 6 ft high holding tank, control panel, and PVC piping potentially going to an infiltration gallery, along with the RW.

Note - OCULUS indicates that no work has been done with regards to this faciltiy since the RAP Approval in 1993. However, it is apparent that the remedation system was started and operated for an unknown amount of time.

ACEPD is currently in the process of putting together a new Scope of Work for site assessment activities.

Site Name:	Palatka City - Abandoned City Lot
Facility ID No.:	54/9102245
Site Manager:	Stephanie Emerson
Team:	LP-01
Inspection Date:	8/5/2016

Site Name:	Palatka City - Abandoned City Lot
Facility ID No.:	54/9102245
Site Manager:	Stephanie Emerson
Team:	LP-01
Inspection Date:	8/5/2016

REQUEST FOR REVIEW OF ENVIRONMENTAL HEALTH RECORDS
belonging to the Putnam County Health Unit

Date 4-7-06

Under the provisions of Florida Statute of Chapter 119 Public Records, I would like to review the following file(s).

Name ABANDONED CITE LOT #54-9102245

I understand that while I have access to this information an agent of the Department will be present and available to answer any questions. I also understand that I may be responsible for any costs incurred by the Department for the agents time involved in providing this service. If I request copies I may be charged for them. I understand that once I have made this request and the Department has had a chance to review it, I will be given an estimate of these costs prior to reviewing the files.

I also understand that the owner of the facility will be notified that their file has been reviewed by me.

Name and address of individual making this request:

BRENT MILLER ESE
2825 LEWIS SPEEDWAY
ST. AUG. FL, 32084

Signature

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION
POLLUTANT STORAGE TANK SYSTEM
INSPECTION REPORT FORM - COVER PAGE

FACILITY ID #: 549102245 COUNTY: PUTNAM
FACILITY NAME: PALATKA,CITY-ABANDONED CITY LOT
FACILITY LOCATION: 1016 OCEAN ST, PALATKA
FACILITY CONTACT: PALATKA,CITY PHONE: (904) 329-0100
OWNER: PALATKA CITY PHONE: (904) 329-0100
OWNER ADDRESS: 201 N 2ND ST, PALATKA, FL, 32177-3735
OWNER CONTACT: ALLEN BUSH OWNER CHANGE DATE 00/00/00

LATITUDE:29-39-25 LONGITUDE:81-38-15 FAC TYPE: LOCAL, CITY GOVERNME

TANK #	SIZE	CONTENT	INSTALL DATE	UNDER OR ABOVE	TANK TYPE	INTEGRAL PIPING	MONITORING SYSTEM	TANK STAT
1	1000	B	XX/XX	U	C	B	Y	B
2	1000	B	XX/XX	U	C	B	Y	B

COMMENTS: ① @ Mr. Allen Bush this registration is duplication of tanks listed as removed on FAC ID # 548521034.

② No tanks removed in error of DER Regs. - this tanks were properly removed & documented of FAC ID 548521034.

INSPECTION TYPE (CHOOSE ONE)
X ROUTINE
__ INSTALL
__ ABANDONED
__ DISCHARGE
__ CLOSURE
__ REINSPECT

SITE INFORMATION (ALL THAT APPLY)
__ NEAR PUB WELL
__ CONTAMINATED
__ COMPLAINT
__ ACID TANKS
__ REPAIRED
__ UPGRADED
__ UST & AST
__ HAZARD MAT

DER DISTRICT OR LOCAL PROGRAM: Northeast / Putnam Co.

INSPECTOR NAME (PRINT) JAN BREWER CONTACT NAME (PRINT) ALLEN BUSH

J. P. Brewer 5/14/92
INSPECTOR'S SIGNATURE & DATE

CONTACT'S SIGNATURE & DATE

DER FORM 761-01-91

Name: PALATKA - CITY
Facility I.D.#: 549102245
Date: 5/14/92

UNDERGROUND STORAGE TANK COMPLIANCE INSPECTION FORM

			Yes	No	Unk	N/A
I.	**REGISTRATION/NOTIFICATION:** Comments: Facility duplicate of facility 5-185210.34					
1.	Facility has registered all applicable tanks on site; 17-761.400	1.				✓
2.	Current registration placard is properly displayed; 17-761.410(6)	2.				✓
	Proper notification has been made for the following; 17-761.450:					
3.	Proper closure (30 days prior); (1) (a)	3.				✓
4.	Change of ownership (30 days after); (1) (b)	4.				✓
5.	Upgrading, replacement or installation (10 days prior); (1) (c)	5.				✓
6.	Change of tank status (in service/out of service), (within 30 days); (1) (d)	6.				✓
7.	Change of facility status (e.g. substances stored), (within 30 days); (1) (e)	7.				✓
8.	Change of method of financial responsibility (within 30 days); (3)	8.				✓
9.	Start of closure, upgrades or installation (24 hr. verbal or written); (4)	9.				✓
II.	**RECORD KEEPING:** Comments:					
10.	All records were maintained for two (2) years and were available for inspection within five (5) working days; 17-761.710 (1)	10.				✓
11.	Some but not all records were maintained for two (2) years and were available for inspection within five (5) working days; 17-761.710 (1)	11.				
III.	**REPORTING/DISCHARGE RESPONSE/REPAIRS:** Comments:					
	Proper reporting requirements been met for the following; 17-761.460:					
12.	Results of tightness test; (1)	12.				✓
13.	Any spill, overfill, or other discharge within one working day of discovery; (2)	13.				✓
14.	Suspected releases within one working day of discovery; (3) (a), (b)	14.				✓
15.	Confirmed releases (positive response of a release detection device) within one working day of discovery; (3) (c)	15.				✓
	The owner or the operator of the system which has discharged has:					
16.	Taken it out-of-service; 17-761.700 (1), had it repaired or replaced; 700, or properly closed it; 820 (1)	16.				✓
17.	Removed any regulated substances from the system; 17-761.820 (1)	17.				✓
18.	Tightness tested all repaired components before placing them back in service; 17-761.700 (6)	18.				✓
19.	Had repairs or replacements performed by a certified contractor; 489.105 (3)	19.				✓
20.	Had tightness tests performed by registered tank tester; 17-761.200	20.				✓
21.	Begun initial corrective actions for a release; 17-761.820 (2)	21.				✓
IV.	**INVENTORY REQUIREMENTS:** Comments:					
22.	All inventory requirements maintained in accordance with 17-761.720 (1)	22.				✓
23.	Some, but not all inventory requirements maintained in accordance with 17-761.720 (1)	23.				✓
V.	**PERFORMANCE STANDARDS/CATHODIC PROTECTION** Comments:					
	Storage tank criteria; 17-761.500, 520 and 550:					
24.	Facility meets applicable storage tank standards; (1)	24.				✓
25.	Systems meet siting requirements; (4)	25.				✓
26.	Tank(s) equipped with spill containment; (5) (b)	26.				✓
27.	Tank(s) equipped with overfill protection; (5) (b)	27.				✓
28.	Facility meets construction upgrading schedule; 17-761.510	28.				✓

Name: PALATKA - CITY
Facility ID #: 549102245
Date: 5/14/92

UNDERGROUND STORAGE TANK COMPLIANCE INSPECTION FORM

			Yes	No	Unk	N/A
V.	**PERFORMANCE STANDARDS/CATHODIC PROTECTION** Continued					
	Piping criteria; 17-761.500:					
29.	New piping has secondary containment; (2)	29.				✓
30.	Dispensers are upgraded with properly installed and maintained liners; (6)	30.				✓
31.	Facility meets construction upgrading schedule; 17-761.510 (6)	31.				✓
	Cathodic Protection/Certified Contractors /Tightness Testing					
32.	Cathodic protection system provides continuous protection; 17-761.730 (1)-(4)	32.				✓
33.	PSSSC conducted all storage tank repairs, installations or removals; 17-761.740 (1)-(9)	33.				✓
34.	Test performed by a D.P.R.-registered tester; 17-761.740	34.				✓
VI.	**RELEASE DETECTION/MONITORING WELLS** Comments:					
35.	New petroleum or hazardous substance storage tanks provided with an approved release detection system upon installation; 17-761.600 (3)	35.				✓
36.	All release detection systems meet general release standards; 17-761.600	36.				✓
37.	Release detection systems are monitored for a discharge at least every 30 days; 17-761.600 (5)	37.				✓
38.	Groundwater monitoring wells are properly sampled and meet the requirements of 17-761.640 (1)	38.				✓
39.	Vapor monitoring wells are properly sampled and meet the requirements of 17-761.640 (2)	39.				✓
	An approved release detection system is provided for:					
40.	Existing hazardous substance storage tanks; 17-761.560	40.				✓
41.	Existing vehicular fuel storage tanks; 17-761.610	41.				✓
42.	Other existing regulated substance storage tanks; 17-761.620	42.				✓
43.	Integral piping provided with secondary containment; 17-761.630	43.				✓
44.	Integral piping without secondary containment; 17-761.640 (8)	44.				✓
VII.	**OUT-OF-SERVICE STATUS** Comments:					
45.	Storage systems have been emptied of regulated substances; 17-761.200 (26)	45.	✓			✓
	Out-of-Service storage tank systems have; 17-761.800:					
46.	Corrosion protection properly maintained; (1) (a) (1)	46.				✓
47.	Release detection system monitored for evidence of a discharge at least every six months; (1) (a) (2)	47.				✓
48.	Vent lines open, ancillary equipment secured; (1) (b)	48.				✓
49.	*Been upgraded or replaced before returning to service;* (1) (c)	49.				✓
50.	Been tested tight before returning to service; (1) (c)	50.				✓
51.	Been out-of-service for no more than two years; (1) (d)	51.				✓
52.	Been out-of-service for no more than 12 months (unprotected bare steel systems); (2) (b)	52.				✓
53.	Proper closure for an unmaintained tank; (2)	53.				✓
54.	Had a closure assessment properly performed; (3)	54.				✓
VIII.	**VARIANCE** Comments:					
55.	Facility applied for Alternate Procedure (Explain in comment) 17.761.850	55.				✓
IX.	**Other** Comments:					
56.	Any other violations noted during inspection (Explain in comments)	56.				✓

INSPECTOR COPY

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION
POLLUTANT STORAGE TANK SYSTEM
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OWNER: PALATKA CITY PHONE: (904) 329-0100
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OWNER CONTACT: ALLEN BUSH OWNER CHANGE DATE 00/00/00

LATITUDE:29-39-25 LONGITUDE:81-38-15 FAC TYPE: LOCAL, CITY GOVERNME

TANK #	SIZE	CONTENT	INSTALL DATE	UNDER OR ABOVE	TANK TYPE	INTEGRAL PIPING	MONITORING SYSTEM	TANK STAT
1	1000	B	XX/XX	U	C	B	Y	B
2	1000	B	XX/XX	U	C	B	Y	B

COMMENTS: (1) @ Mr. Allen Bush this registrater is duplication of tanks listed as removed @ FAC ID # 549521034.

(2) No tanks removed in error of DER Regs. - this tanks were properly removed + documented @ FAC ID 549521034.

INSPECTION TYPE (CHOOSE ONE)
- X ROUTINE
- __ INSTALL
- __ ABANDONED
- __ DISCHARGE
- __ CLOSURE
- __ REINSPECT

SITE INFORMATION (ALL THAT APPLY)
- __ NEAR PUB WELL
- __ CONTAMINATED
- __ COMPLAINT
- __ ACID TANKS
- __ REPAIRED
- __ UPGRADED
- __ UST & AST
- __ HAZARD MAT

DER DISTRICT OR LOCAL PROGRAM: Northeast / Putnam Co.

INSPECTOR NAME (PRINT) JAN BREWER CONTACT NAME (PRINT) ALLEN BUSH

J. Brewer 5/14/92
INSPECTOR'S SIGNATURE & DATE

CONTACT'S SIGNATURE & DATE

Name: PALATKA - CITY
Facility I.D.#: 5491 02245
Date: 5/14/92

UNDERGROUND STORAGE TANK COMPLIANCE INSPECTION FORM

			Yes	No	Unk	N/A
I.	REGISTRATION/NOTIFICATION: Comments: Facility duplicate of Facility 11 5218521024					
1.	Facility has registered all applicable tanks on site; 17-761.400	1.				✓
2.	Current registration placard is properly displayed; 17-761.410(6)	2.				✓
	Proper notification has been made for the following; 17-761.450:					
3.	Proper closure (30 days prior); (1) (a)	3.				✓
4.	Change of ownership (30 days after); (1) (b)	4.				✓
5.	Upgrading, replacement or installation (10 days prior); (1) (c)	5.				✓
6.	Change of tank status (in service/out of service), (within 30 days); (1) (d)	6.				✓
7.	Change of facility status (e.g. substances stored), (within 30 days); (1) (e)	7.				✓
8.	Change of method of financial responsibility (within 30 days); (3)	8.				✓
9.	Start of closure, upgrades or installation (24 hr. verbal or written); (4)	9.				✓
II.	RECORD KEEPING: Comments:					
10.	All records were maintained for two (2) years and were available for inspection within five (5) working days; 17-761.710 (1)	10.				✓
11.	Some but not all records were maintained for two (2) years and were available for inspection within five (5) working days; 17-761.710 (1)	11.				✓
III.	REPORTING/DISCHARGE RESPONSE/REPAIRS: Comments:					
	Proper reporting requirements been met for the following; 17-761.460:					
12.	Results of tightness test; (1)	12.				✓
13.	Any spill, overfill, or other discharge within one working day of discovery; (2)	13.				✓
14.	Suspected releases within one working day of discovery; (3) (a), (b)	14.				✓
15.	Confirmed releases (positive response of a release detection device) within one working day of discovery; (3) (c)	15.				✓
	The owner or the operator of the system which has discharged has:					
16.	Taken it out-of-service; 17-761.700 (1), had it repaired or replaced; .700; or properly closed it; 820 (1)	16.				✓
17.	Removed any regulated substances from the system; 17-761.820 (1)	17.				✓
18.	Tightness tested all repaired components before placing them back in service; 17-761.700 (6)	18.				✓
19.	Had repairs or replacements performed by a certified contractor; 489.105 (3)	19.				✓
20.	Had tightness tests performed by registered tank tester; 17-761.200	20.				✓
21.	Begun initial corrective actions for a release; 17-761.820 (2)	21.				✓
IV.	INVENTORY REQUIREMENTS: Comments:					
22.	All inventory requirements maintained in accordance with 17-761.720 (1)	22.				✓
23.	Some, but not all inventory requirements maintained in accordance with 17-761.720 (1)	23.				✓
V.	PERFORMANCE STANDARDS/CATHODIC PROTECTION Comments:					
	Storage tank criteria; 17-761.500, .520 and .550:					
24.	Facility meets applicable storage tank standards; (1)	24.				✓
25.	Systems meet siting requirements; (4)	25.				✓
26.	Tank(s) equipped with spill containment; (5) (b)	26.				✓
27.	Tank(s) equipped with overfill protection; (5) (b)	27.				✓
28.	Facility meets construction upgrading schedule; 17-761.510	28.				✓

Name: PALATKA - CITY
Facility ID #: 549102245
Date: 5/14/92

UNDERGROUND STORAGE TANK COMPLIANCE INSPECTION FORM

		Yes	No	Unk	N/A
V.	**PERFORMANCE STANDARDS/CATHODIC PROTECTION** Continued				
	Piping criteria; 17-761.500:				
29.	New piping has secondary containment; (2)				✓
30.	Dispensers are upgraded with properly installed and maintained liners; (6)				✓
31.	Facility meets construction upgrading schedule; 17-761.510 (6)				✓
	Cathodic Protection/Certified Contractors /Tightness Testing				
32.	Cathodic protection system provides continuous protection; 17-761.730 (1)-(4)				✓
33.	PSSSC conducted all storage tank repairs, installations or removals; 17-761.740 (1)-(9)				✓
34.	Test performed by a D.P.R.-registered tester; 17-761.740				✓
VI.	**RELEASE DETECTION/MONITORING WELLS** Comments:				
35.	New petroleum or hazardous substance storage tanks provided with an approved release detection system upon installation; 17-761.600 (3)				✓
36.	All release detection systems meet general release standards; 17-761.600				✓
37.	Release detection systems are monitored for a discharge at least every 30 days; 17-761.600 (5)				✓
38.	Groundwater monitoring wells are properly sampled and meet the requirements of 17-761.640 (1)				✓
39.	Vapor monitoring wells are properly sampled and meet the requirements of 17-761.640 (2)				✓
	An approved release detection system is provided for:				
40.	Existing hazardous substance storage tanks; 17-761.560				✓
41.	Existing vehicular fuel storage tanks; 17-761.610				✓
42.	Other existing regulated substance storage tanks; 17-761.620				✓
43.	Integral piping provided with secondary containment; 17-761.630				✓
44.	Integral piping without secondary containment; 17-761.640 (8)				✓
VII.	**OUT-OF-SERVICE STATUS** Comments:				
45.	Storage systems have been emptied of regulated substances; 17-761.200 (26)	✓			✓
	Out-of-Service storage tank systems have; 17-761.800:				
46.	Corrosion protection properly maintained; (1) (a) (1)				✓
47.	Release detection system monitored for evidence of a discharge at least every six months; (1) (a) (2)				✓
48.	Vent lines open, ancillary equipment secured; (1) (b)				✓
49.	Been upgraded or replaced before returning to service; (1) (c)				✓
50.	Been tested tight before returning to service; (1) (c)				✓
51.	Been out-of-service for no more than two years; (1) (d)				✓
52.	Been out-of-service for no more than 12 months (unprotected bare steel systems); (2) (b)				✓
53.	Proper closure for an unmaintained tank; (2)				✓
54.	Had a closure assessment properly performed; (3)				✓
VIII.	**VARIANCE** Comments:				
55.	Facility applied for Alternate Procedure (Explain in comment) 17.761.850				✓
IX.	**Other** Comments:				
56.	Any other violations noted during inspection (Explain in comments)				✓

FACILITY COPY

Appendix D

Additional Research

United States Department of Agriculture

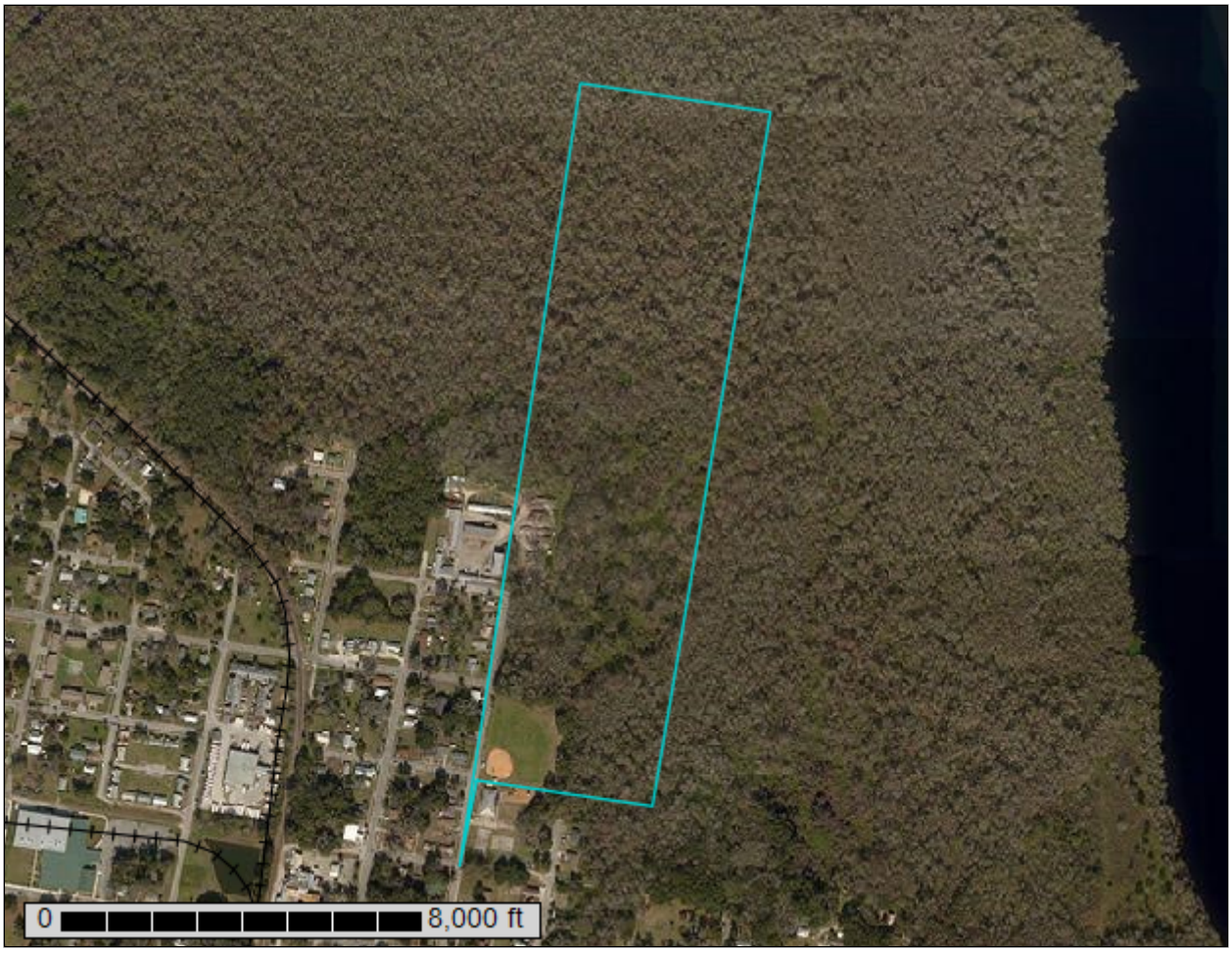
NRCS

Natural Resources Conservation Service

A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for Putnam County Area, Florida

Ocean St & N 10th St



August 4, 2016

Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (http://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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Contents

How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil scientists classified and named the soils in the survey area, they compared the

individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

Custom Soil Resource Report
Soil Map

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL: http://websoilsurvey.nrcs.usda.gov
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Putnam County Area, Florida
Survey Area Data: Version 12, Nov 19, 2015

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jan 29, 2015—Feb 14, 2015

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Putnam County Area, Florida (FL107)			
Map Unit Symbol	**Map Unit Name**	**Acres in AOI**	**Percent of AOI**
26	Terra Ceia muck, 0 to 1 percent slopes, frequently flooded	20.1	43.4%
43	Placid-Pompano association, frequently flooded	17.7	38.2%
53	Zolfo-Urban land complex	8.5	18.4%
Totals for Area of Interest		**46.4**	**100.0%**

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If

intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Putnam County Area, Florida

26—Terra Ceia muck, 0 to 1 percent slopes, frequently flooded

Map Unit Setting

National map unit symbol: 2svzm
Elevation: 0 to 130 feet
Mean annual precipitation: 37 to 62 inches
Mean annual air temperature: 68 to 79 degrees F
Frost-free period: 300 to 365 days
Farmland classification: Not prime farmland

Map Unit Composition

Terra ceia and similar soils: 90 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Terra Ceia

Setting

Landform: Flood plains on marine terraces
Landform position (three-dimensional): Tread, talf
Down-slope shape: Linear, convex
Across-slope shape: Linear
Parent material: Herbaceous organic material

Typical profile

Oa1 - 0 to 28 inches: muck
Oa2 - 28 to 80 inches: muck

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Very poorly drained
Runoff class: Very high
Capacity of the most limiting layer to transmit water (Ksat): High to very high (5.95 to 19.98 in/hr)
Depth to water table: About 0 to 6 inches
Frequency of flooding: Frequent
Frequency of ponding: None
Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum in profile: 4.0
Available water storage in profile: Very high (about 26.9 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7w
Hydrologic Soil Group: A/D
Other vegetative classification: Freshwater Marshes and Ponds (R155XY010FL), Organic soils in depressions and on flood plains (G155XB645FL)

Minor Components

Gator

Percent of map unit: 3 percent
Landform: Flood plains on marine terraces

Landform position (three-dimensional): Tread, talf
Down-slope shape: Linear, convex
Across-slope shape: Linear
Other vegetative classification: Organic soils in depressions and on flood plains (G155XB645FL)

Riviera

Percent of map unit: 2 percent
Landform: Flood plains on drainageways on marine terraces
Landform position (three-dimensional): Tread, talf, dip
Down-slope shape: Linear, convex
Across-slope shape: Linear, concave
Ecological site: Slough (R155XY011FL)
Other vegetative classification: Slough (R155XY011FL), Sandy over loamy soils on stream terraces, flood plains, or in depressions (G155XB245FL)

Samsula, muck

Percent of map unit: 2 percent
Landform: Flood plains on marine terraces
Landform position (three-dimensional): Tread, talf
Down-slope shape: Linear, concave
Across-slope shape: Linear, concave
Other vegetative classification: Freshwater Marshes and Ponds (R155XY010FL), Organic soils in depressions and on flood plains (G155XB645FL)

Bluff

Percent of map unit: 1 percent
Landform: Flood plains on drainageways on marine terraces
Landform position (three-dimensional): Tread, talf
Down-slope shape: Linear, convex
Across-slope shape: Linear
Other vegetative classification: Freshwater Marshes and Ponds (R154XY010FL), Loamy and clayey soils on stream terraces, flood plains, or in depressions (G155XB345FL)

Favoretta

Percent of map unit: 1 percent
Landform: Flood plains on marine terraces
Landform position (three-dimensional): Tread, talf
Down-slope shape: Linear, convex
Across-slope shape: Linear
Other vegetative classification: Loamy and clayey soils on stream terraces, flood plains, or in depressions (G155XB345FL)

Okeelanta

Percent of map unit: 1 percent
Landform: Flood plains on marine terraces
Landform position (three-dimensional): Tread, talf
Down-slope shape: Linear, convex
Across-slope shape: Linear
Other vegetative classification: Freshwater Marshes and Ponds (R155XY010FL), Organic soils in depressions and on flood plains (G155XB645FL)

43—Placid-Pompano association, frequently flooded

Map Unit Setting

National map unit symbol: bvjk
Mean annual precipitation: 46 to 54 inches
Mean annual air temperature: 68 to 75 degrees F
Frost-free period: 304 to 334 days
Farmland classification: Not prime farmland

Map Unit Composition

Placid and similar soils: 55 percent
Pompano and similar soils: 30 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Placid

Setting

Landform: Flood plains on marine terraces, drainageways on marine terraces
Landform position (three-dimensional): Talf
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Sandy marine deposits

Typical profile

A - 0 to 11 inches: sand
Cg - 11 to 80 inches: sand

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Very poorly drained
Runoff class: Very high
Capacity of the most limiting layer to transmit water (Ksat): High to very high (5.95 to 19.98 in/hr)
Depth to water table: About 0 to 12 inches
Frequency of flooding: Frequent
Frequency of ponding: None
Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum in profile: 4.0
Available water storage in profile: Low (about 5.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 6w
Hydrologic Soil Group: A/D
Other vegetative classification: Sandy soils on stream terraces, flood plains, or in depressions (G155XB145FL)

Description of Pompano

Setting

Landform: Flood plains on marine terraces, drainageways on marine terraces
Landform position (three-dimensional): Talf
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Sandy marine deposits

Typical profile

A - 0 to 6 inches: sand
Cg - 6 to 80 inches: sand

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Poorly drained
Runoff class: Very high
Capacity of the most limiting layer to transmit water (Ksat): High to very high (5.95 to 19.98 in/hr)
Depth to water table: About 0 to 12 inches
Frequency of flooding: Frequent
Frequency of ponding: None
Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum in profile: 4.0
Available water storage in profile: Very low (about 2.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 6w
Hydrologic Soil Group: A/D
Other vegetative classification: Sandy soils on stream terraces, flood plains, or in depressions (G155XB145FL)

Minor Components

Samsula

Percent of map unit: 15 percent
Landform: Depressions on marine terraces
Landform position (three-dimensional): Dip
Down-slope shape: Concave
Across-slope shape: Concave
Other vegetative classification: Freshwater Marshes and Ponds (R154XY010FL), Organic soils in depressions and on flood plains (G155XB645FL)

53—Zolfo-Urban land complex

Map Unit Setting

National map unit symbol: bvjx

Elevation: 10 to 120 feet
Mean annual precipitation: 46 to 54 inches
Mean annual air temperature: 68 to 75 degrees F
Frost-free period: 304 to 334 days
Farmland classification: Not prime farmland

Map Unit Composition

Zolfo and similar soils: 60 percent
Urban land: 30 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Zolfo

Setting

Landform: Flats on marine terraces
Landform position (three-dimensional): Talf
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Sandy marine deposits

Typical profile

A - 0 to 9 inches: fine sand
E - 9 to 53 inches: fine sand
Bh - 53 to 80 inches: fine sand

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Somewhat poorly drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to 1.98 in/hr)
Depth to water table: About 24 to 42 inches
Frequency of flooding: None
Frequency of ponding: None
Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum in profile: 4.0
Available water storage in profile: Low (about 5.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 3w
Hydrologic Soil Group: A
Other vegetative classification: Forage suitability group not assigned (G155XB999FL)

Description of Urban Land

Setting

Landform: Marine terraces
Landform position (three-dimensional): Interfluve, talf
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: No parent material

Interpretive groups

Land capability classification (irrigated): None specified
Other vegetative classification: Forage suitability group not assigned (G155XB999FL)

Minor Components

Cassia

Percent of map unit: 2 percent
Landform: Flats on marine terraces, rises on marine terraces
Landform position (three-dimensional): Interfluve, rise
Down-slope shape: Convex
Across-slope shape: Linear
Other vegetative classification: Sand Pine Scrub (R154XY001FL), Forage suitability group not assigned (G155XB999FL)

Tavares

Percent of map unit: 2 percent
Landform: Knolls on marine terraces, ridges on marine terraces
Landform position (three-dimensional): Interfluve, rise
Down-slope shape: Convex
Across-slope shape: Linear
Other vegetative classification: Longleaf Pine-Turkey Oak Hills (R154XY002FL), Forage suitability group not assigned (G155XB999FL)

Narcoossee

Percent of map unit: 2 percent
Landform: Knolls on marine terraces, rises on marine terraces
Landform position (three-dimensional): Interfluve, rise
Down-slope shape: Convex
Across-slope shape: Linear
Other vegetative classification: Upland Hardwood Hammock (R154XY008FL), Forage suitability group not assigned (G155XB999FL)

Myakka, non-hydric

Percent of map unit: 2 percent
Landform: Flatwoods on marine terraces
Landform position (three-dimensional): Talf
Down-slope shape: Convex
Across-slope shape: Linear
Other vegetative classification: North Florida Flatwoods (R154XY004FL), Forage suitability group not assigned (G155XB999FL)

Centenary

Percent of map unit: 2 percent
Landform: Knolls on marine terraces, ridges on marine terraces
Landform position (three-dimensional): Interfluve, rise
Down-slope shape: Convex
Across-slope shape: Linear
Other vegetative classification: Upland Hardwood Hammock (R154XY008FL), Forage suitability group not assigned (G155XB999FL)

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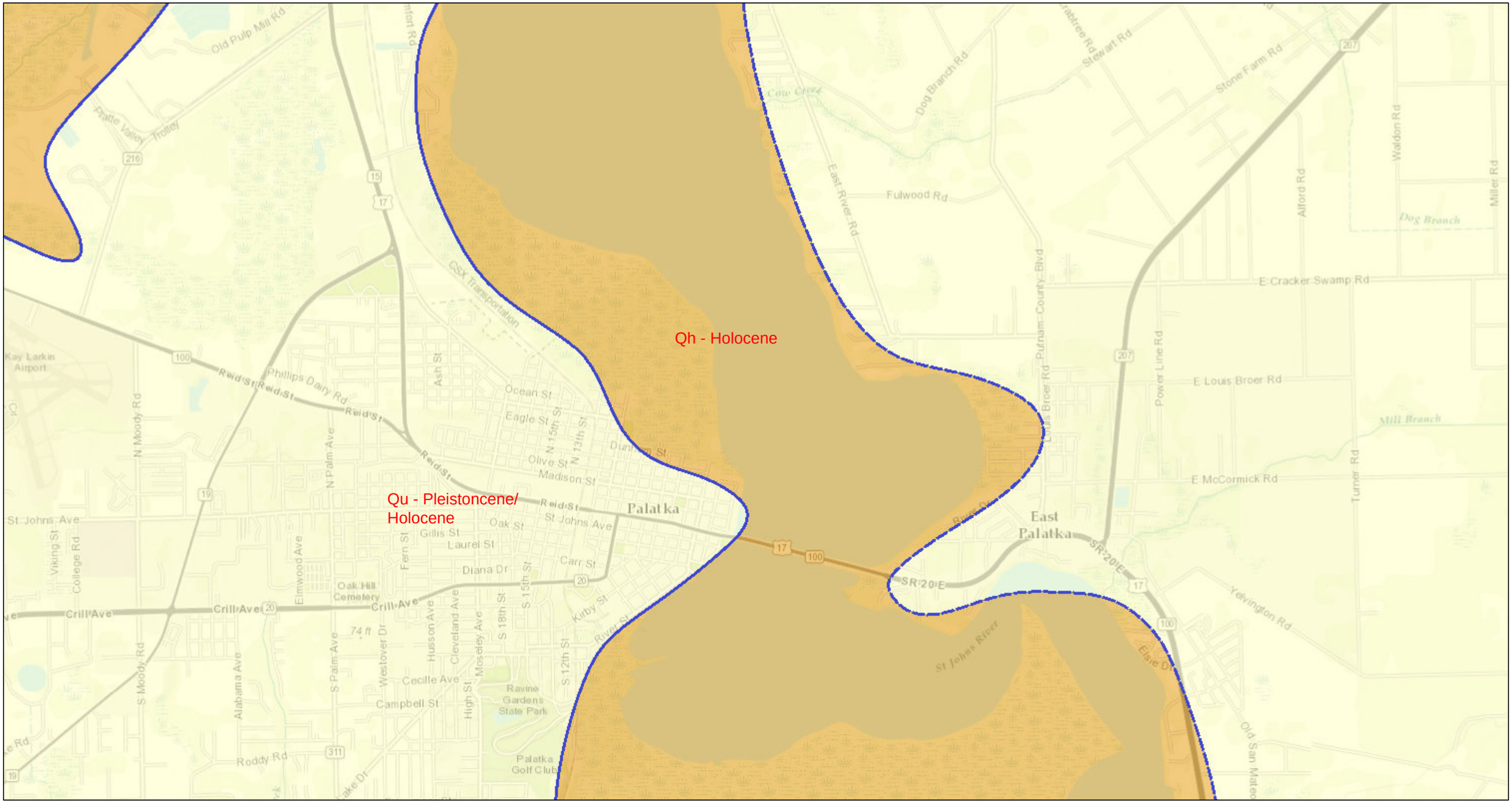
Geologic Map



August 9, 2016

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Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

Map created by Map Direct, powered by ESRI. Ocean St and N 10th St

Undifferentiated sediments

Undifferentiated sediments - Undifferentiated Quaternary Sediments - Much of Florida's surface is covered by a varying thickness of undifferentiated sediments consisting of siliciclastics, organics and freshwater carbonates. Where these sediments exceed 20 feet (6.1 meters) thick, they were mapped as discrete units. In an effort to subdivide the undifferentiated sediments, those sediments occurring in flood plains were mapped as alluvial and flood plain deposits (Qal). Sediments showing surficial expression of beach ridges and dunes were mapped separately (Qbd) as were the sediments composing Trail Ridge (Qtr). Terrace sands were not mapped (refer to Healy [1975] for a discussion of the terraces in Florida). The subdivisions of the Undifferentiated Quaternary Sediments (Qu) are not lithostratigraphic units but are utilized in order to facilitate a better understanding of the State's geology. The siliciclastics are light gray, tan, brown to black, unconsolidated to poorly consolidated, clean to clayey, silty, unfossiliferous, variably organic-bearing sands to blue green to olive green, poorly to moderately consolidated, sandy, silty clays. Gravel is occasionally present in the panhandle. Organics occur as plant debris, roots, disseminated organic matrix and beds of peat. Freshwater carbonates, often referred to as marls in the literature, are scattered over much of the State. In southern Florida, freshwater carbonates are nearly ubiquitous in the Everglades. These sediments are buff colored to tan, unconsolidated to poorly consolidated, fossiliferous carbonate muds. Sand, silt and clay may be present in limited quantities. These carbonates often contain organics. The dominant fossils in the freshwater carbonates are mollusks.

State	Florida
Name	Undifferentiated sediments
Geologic age	Pleistocene/Holocene
Original map label	Qu
Comments	Unit descriptions combine Qal, Qbd, Qtr and Qu all into one group 'undifferentiated sediments'. Tried to describe each unit separately as best as possible.
Primary rock type	clay or mud
Secondary rock type	beach sand
Other rock types	silt; gravel; peat; sand
Lithologic constituents	Major Unconsolidated > Fine-detrital > Clay Unconsolidated > Coarse-detrital > Sand Minor Unconsolidated > Fine-detrital > Silt Incidental

Unconsolidated > Peat *(Bed)* *Organics occur as plant debris, roots, disseminated organic matrix and beds of peat.*
Unconsolidated > Coarse-detrital > Gravel
Unconsolidated > Marl *Freshwater carbonates, often referred to as marls in the literature, are scattered over much of the State. In southern Florida, freshwater carbonates are nearly ubiquitous in the Everglades. These sediments are buff colored to tan, unconsolidated to poorly consolidated, fossiliferous carbonate muds. Sand, silt and clay may be present in limited quantities. These carbonates often contain organics. The dominant fossils in the freshwater carbonates are mollusks.*

Map references Scott, T. M., Campbell, K. M., Rupert, F. R., Arthur, J. D., Missimer, T. M., Lloyd, J. M., Yon, J. W., and Duncan, J. G., 2001, Geologic Map of the State of Florida, Florida Geological Survey & Florida Department of Environmental Protection, Map Series 146.

Unit references Scott, T. M., Campbell, K. M., Rupert, F. R., Arthur, J. D., Missimer, T. M., Lloyd, J. M., Yon, J. W., and Duncan, J. G., 2001, Geologic Map of the State of Florida, Florida Geological Survey & Florida Department of Environmental Protection, Map Series 146.

Scott, Thomas M. P.G. #99, Text to Accompany the Geologic Map of Florida, Open-file Report 80, Florida Geological Survey, 2001.

Healy, H.G., 1975, Terraces and shorelines of Florida: Florida Bureau of Geology Map Series 71.

Counties Alachua - Bay - Calhoun - Charlotte - Citrus - Clay - Columbia - DeSoto - Dixie - Duval - Flagler - Franklin - Gilchrist - Glades - Gulf - Hamilton - Hardee - Hendry - Hernando - Highlands - Hillsborough - Indian River - Jefferson - Lafayette - Lake - Leon - Liberty - Madison - Manatee - Marion - Martin - Nassau - Orange - Osceola - Pasco - Pinellas - Polk - Putnam - Saint Lucie - Santa Rosa - Sarasota - Seminole - Suwannee - Taylor - Union - Volusia - Wakulla - Walton - Washington

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Holocene sediments

Holocene sediments - the Holocene sediments in Florida occur near the present coastline at elevations generally less than 5 feet (1.5 meters). The sediments include quartz sands, carbonate sands and muds, and organics.

State	Florida
Name	Holocene sediments
Geologic age	Holocene
Original map label	Qh
Primary rock type	beach sand
Secondary rock type	clay or mud
Other rock types	biogenic sediment
Lithologic constituents	Major Unconsolidated > Coarse-detrital > Sand *(Beach)* *Quartz sands.* Minor Sedimentary > Carbonate *Carbonate sands and muds.* Unconsolidated > Peat *Organics.* Unconsolidated > Fine-detrital > Clay *(Beach)*
Map references	Scott, T. M., Campbell, K. M., Rupert, F. R., Arthur, J. D., Missimer, T. M., Lloyd, J. M., Yon, J. W., and Duncan, J. G., 2001, Geologic Map of the State of Florida, Florida Geological Survey & Florida Department of Environmental Protection, Map Series 146.
Unit references	Scott, T. M., Campbell, K. M., Rupert, F. R., Arthur, J. D., Missimer, T. M., Lloyd, J. M., Yon, J. W., and Duncan, J. G., 2001, Geologic Map of the State of Florida, Florida Geological Survey & Florida Department of Environmental Protection, Map Series 146. --- Scott, Thomas M. P.G. #99, Text to Accompany the Geologic Map of Florida, Open-file Report 80, Florida Geological Survey, 2001.
Counties	Bay - Brevard - Charlotte - Collier - Dixie - Duval - Escambia - Flagler - Franklin - Glades - Gulf - Highlands - Hillsborough - Indian River - Lake - Lee - Manatee - Martin - Miami-Dade - Monroe - Nassau - Okaloosa - Okeechobee - Orange - Pinellas - Polk - Putnam - Saint Johns - Saint Lucie - Santa Rosa - Sarasota - Seminole - Sumter - Volusia - Wakulla - Walton

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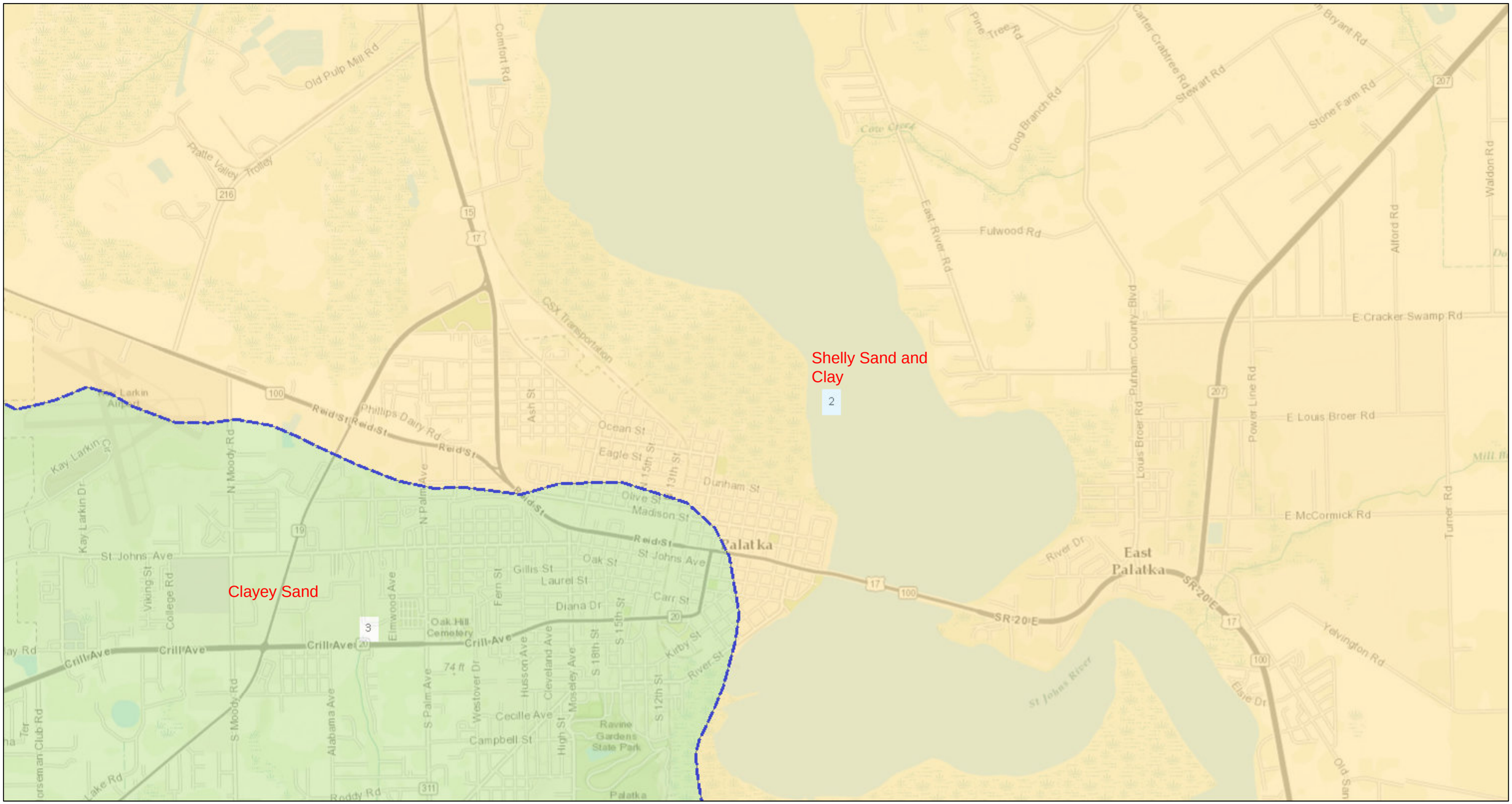
Page Contact Information: Peter Schweitzer

Geologic Maps and Cross Sections



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- CLAYEY SAND
- DOLOMITE
- GRAVEL AND COARSE SAND
- LIMESTONE
- LIMESTONE/DOLOMITE
- MED. FINE SAND AND SILT
- PEAT
- SANDY CLAY AND CLAY
- SHELL BEDS
- SHELLY SAND AND CLAY
- WATER

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Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

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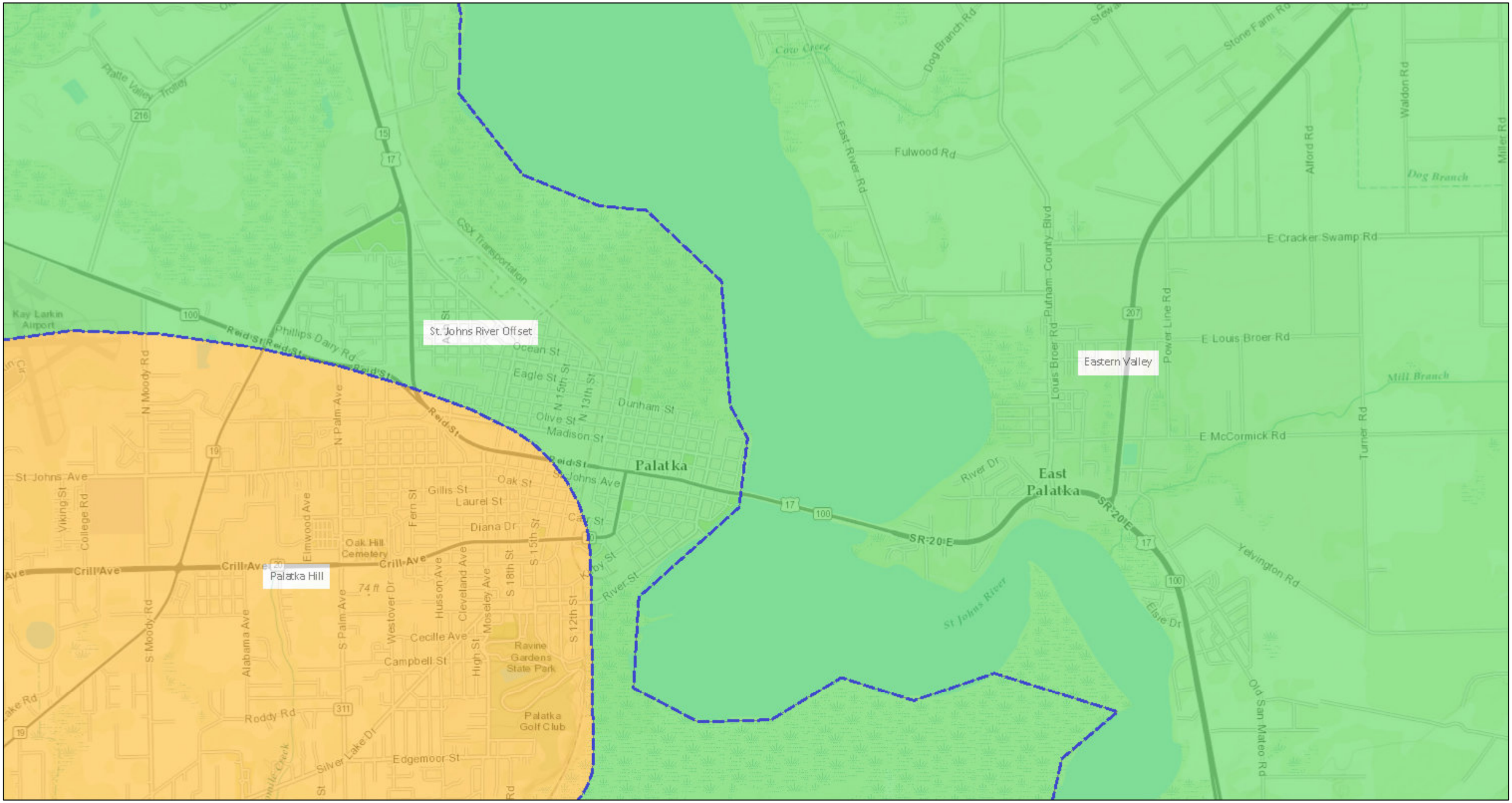
Geomorphology



August 9, 2016

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- Bar
- Cape
- Everglades
- Highlands
- Hills
- Inclines
- Island Chain
- Keys and Atolls
- Lowlands, Gaps and Valleys
- Plains
- Ridges
- Rise
- Slopes
- Spur
- Swamps
- Uplands
- Waterbody

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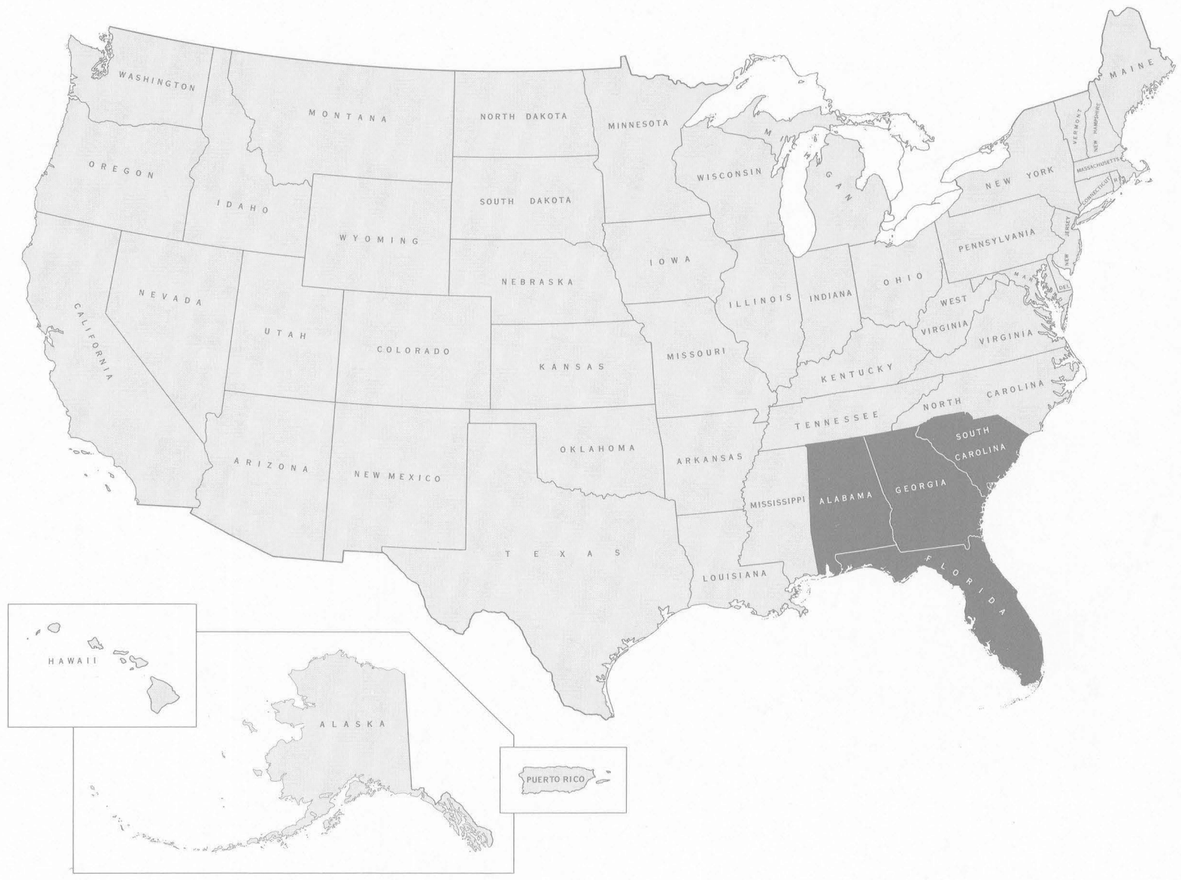
Ground Water Atlas of the United States

Segment 6

Alabama
Florida
Georgia
South Carolina



HYDROLOGIC INVESTIGATIONS ATLAS 730-G

U.S. Geological Survey

GROUND WATER ATLAS OF THE UNITED STATES

Hydrologic Investigations Atlas 730-G

FOREWORD

The Ground Water Atlas of the United States presents a comprehensive summary of the Nations's ground-water resources, and is a basic reference for the location, geography, geology, and hydrologic characteristics of the major aquifers in the Nation. The information was collected by the U.S. Geological Survey and other agencies during the course of many years of study. Results of the U.S. Geological Survey's Regional Aquifer-System Analysis Program, a systematic study of the Nation's major aquifers, were used as a major, but not exclusive, source of information for compilation of the Atlas.

The Atlas, which is designed in a graphical format that is supported by descriptive discussions, includes 13 chapters, each representing regional areas that collectively cover the 50 States and Puerto Rico. Each chapter of the Atlas presents and describes hydrogeologic and hydrologic conditions for the major aquifers in each regional area. The scale of the Atlas does not allow portrayal of minor features of the geology and hydrology of each aquifer presented, nor does it include discussion of minor aquifers. Those readers that seek detailed, local information for the aquifers will find extensive lists of references at the end of each chapter.

An introductory chapter presents an overview of ground-water conditions Nationwide and discusses the effects of human activities on water resources, including saltwater encroachment and land subsidence.

Dallas L. Peck

DEPARTMENT OF THE INTERIOR

MANUEL LUJAN, JR., *Secretary*

U.S. GEOLOGICAL SURVEY

Dallas L. Peck, *Director*

CONVERSION FACTORS

For readers who prefer to use the International System (SI) units, rather than the inch-pound terms used in this report, the following conversion factors may be used:

Multiply inch-pound units	*By*	*To obtain metric units*
	Length	
inch (in)	2.54	centimeter (cm)
foot (ft)	0.3048	meter (m)
foot squared per day (ft^2/d)	0.0929	meter squared per day (m^2/d)
cubic foot per second (ft^3/s)	0.02832	cubic meter per second (m^3/s)
mile (mi)	1.609	kilometer (km)
square mile (mi^2)	2.590	square kilometer (km^2)
	Volume	
gallon per minute (gal/min)	0.06309	liter per second (L/s)
million gallons per day (Mgal/d)	0.04381	cubic meter per second (m^2/s)
billion gallons per day (Bgal/d)	3.785	million cubic meters per day (Mm^3/d)
	Temperature	
degree Celsius (°C)	9/5(°C)+32=°F	degree Fahrenheit (°F)

Sea Level: In this report, 'sea level' refers to the National Geodetic Vertical Datum of 1929 (NGVD of 1929)--a geodetic datum derived from a general adjustment of the first-order level nets of both the United States and Canada, formerly called 'Sea Level Datum of 1929'.

ATLAS ORGANIZATION

The Ground Water Atlas of the United States is divided into 14 chapters. Chapter A presents introductory material and nationwide summaries; chapters B through M describe all principal aquifers in a multistate segment of the conterminous United States; and chapter N describes all principal aquifers in Alaska, Hawaii, and Puerto Rico.

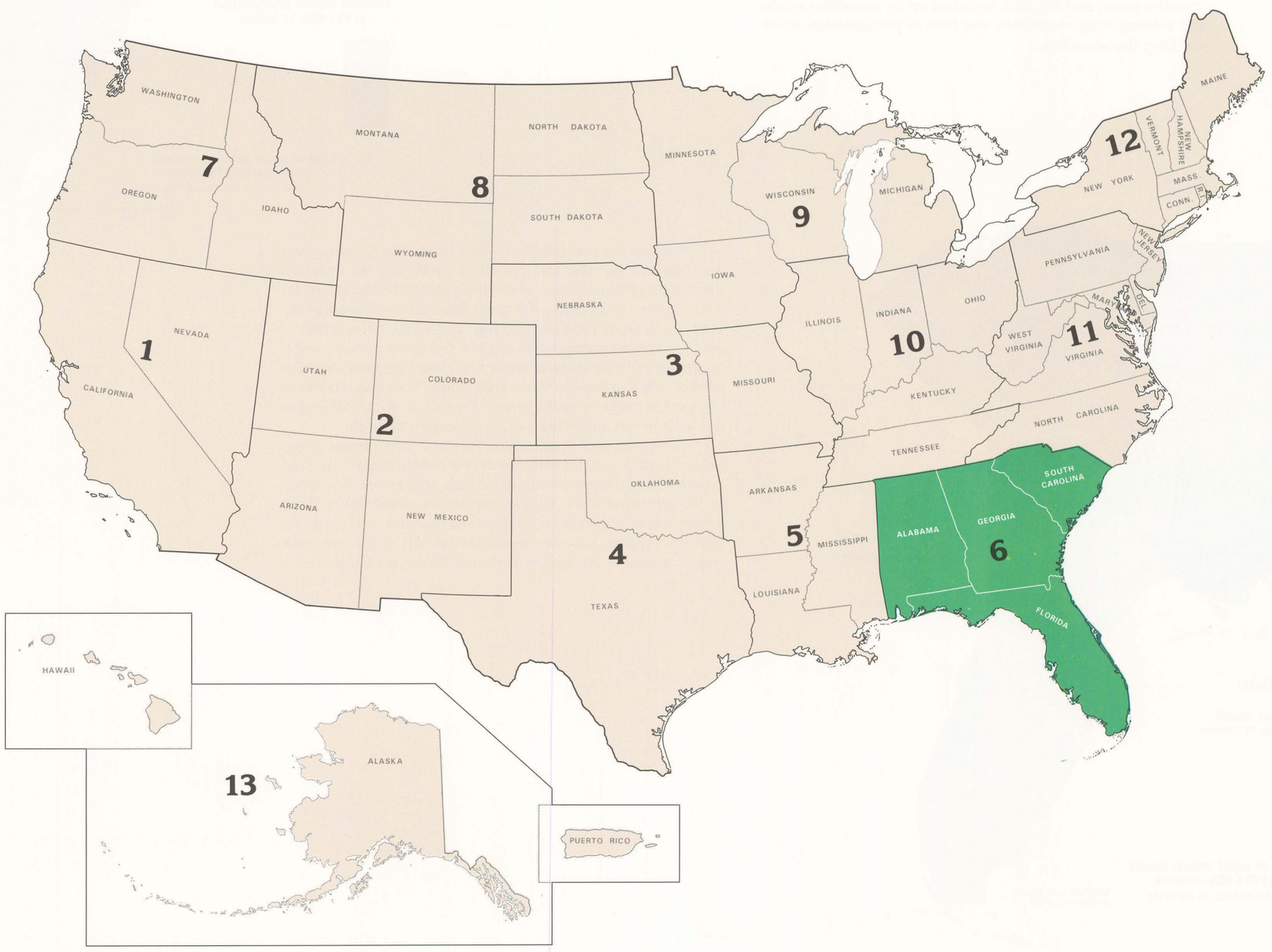
Segment Number	*Chapter content*	*Hydrologic Atlas Chapter*
–	Introductory material and nationwide summaries	730-A
1	California, Nevada	730-B
2	Arizona, Colorado, New Mexico, Utah	730-C
3	Kansas, Missouri, Nebraska	730-D
4	Oklahoma, Texas	730-E
5	Arkansas, Louisiana, Mississippi	730-F
6	Alabama, Florida, Georgia, South Carolina	730-G
7	Idaho, Oregon, Washington	730-H
8	Montana, North Dakota, South Dakota, Wyoming	730-I
9	Iowa, Michigan, Minnesota, Wisconsin	730-J
10	Illinois, Indiana, Kentucky, Ohio, Tennessee	730-K
11	Delaware, Maryland, New Jersey, North Carolina, Pennsylvania, Virginia, West Virginia	730-L
12	Connecticut, Maine, Massachusetts, New Hampshire, New York, Rhode Island, Vermont	730-M
13	Alaska, Hawaii, Puerto Rico	730-N

GROUND WATER ATLAS OF THE UNITED STATES

SEGMENT 6

ALABAMA, FLORIDA, GEORGIA, AND SOUTH CAROLINA

By James A. Miller



CONTENTS

Regional summary

INTRODUCTION

The four States—Alabama, Florida, Georgia, and South Carolina—that comprise Segment 6 of this Atlas are located adjacent to the Atlantic Ocean or the Gulf of Mexico, or both. These States are drained by numerous rivers and streams, the largest being the Tombigbee, Alabama, Chattahoochee, Suwannee, St. Johns, Altamaha, and Savannah Rivers. These large rivers and their tributaries supply water to cities such as Columbia, S.C., Atlanta, Ga., and Birmingham, Ala. However, the majority of the population, particularly in the Coastal Plain which comprises more than one-half of the four-State area, depends on ground water as a source of water supply. The aquifers that contain the water are mostly composed of consolidated to unconsolidated sedimentary rocks, but also include hard, crystalline rocks in parts of three of the States. This chapter describes the geology and hydrology of each of the principal aquifers throughout the four-State area.

Precipitation is the source of all the water in the four States of Segment 6. Average annual precipitation (1951–80) ranges from about 48 inches per year over a large part of central South Carolina and Georgia to about 80 inches per year in mountainous areas of northeastern Georgia and western South Carolina. (**fig. 1**) In general, precipitation is greatest in the mountains (because of their orographic effect) and near the coast, where water vapor, which has been evaporated primarily from the ocean and the gulf, is picked up by prevailing winds and subsequently condenses and falls as precipitation when reaching the shoreline.

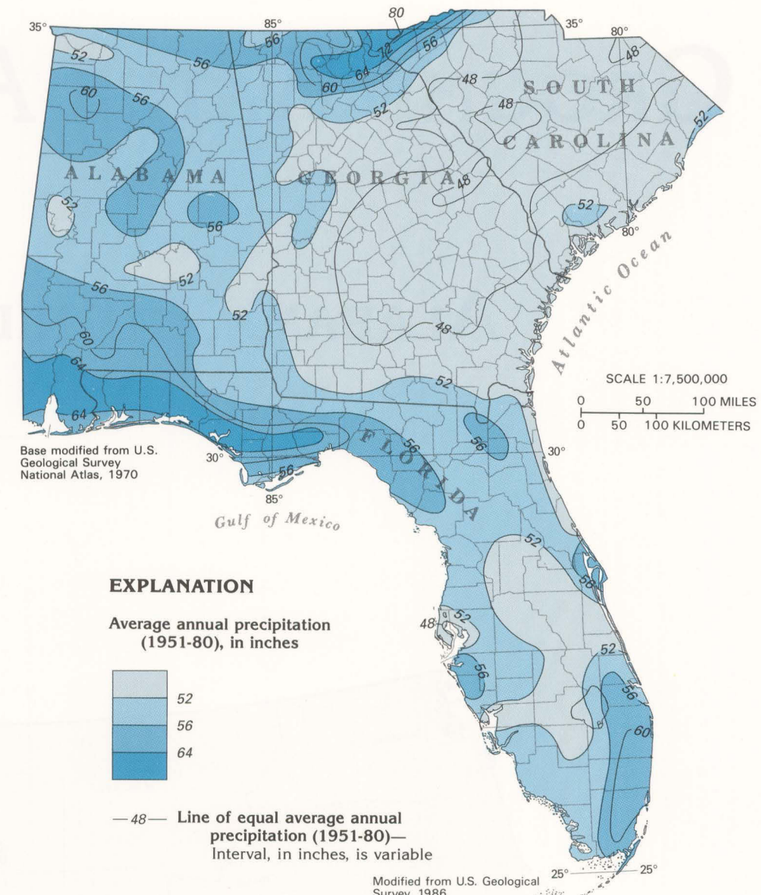


Figure 1. *Average annual precipitation (1951–80) ranges from about 48 to about 80 inches.*

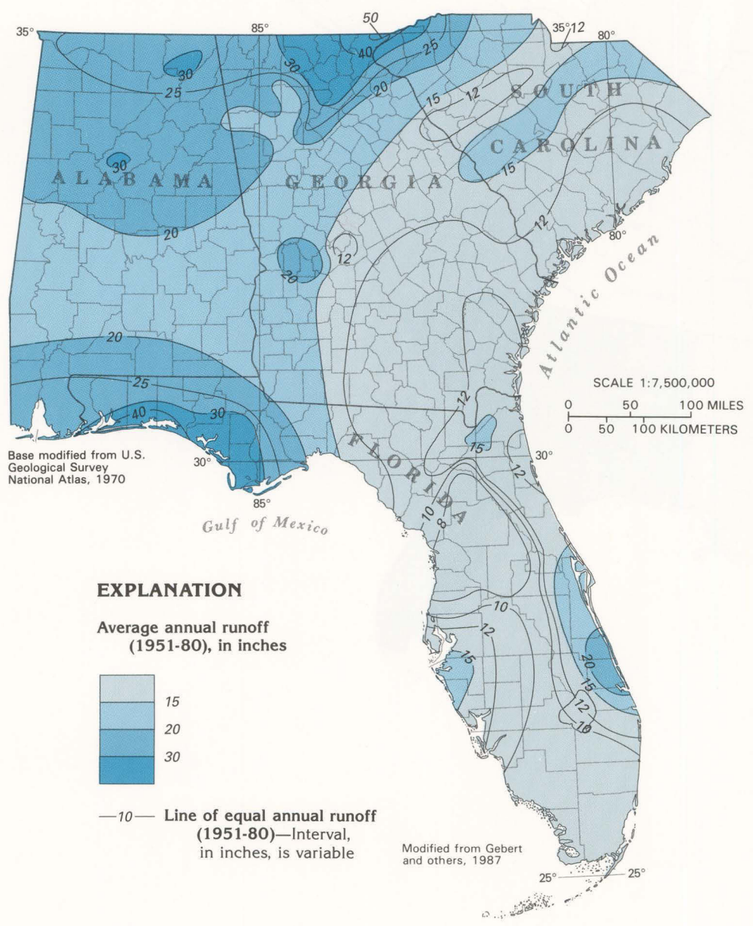


Figure 2. *Average annual runoff (1951–80) generally has the same areal distribution as precipitation; that is, runoff is greater where precipitation is greater.*

Much of the precipitation either flows directly into rivers and streams as overland runoff or indirectly as baseflow discharging from aquifers where the water has been stored for a short time. Accordingly, the areal distribution of average annual runoff from 1951 to 1980 (**fig. 2**) directly reflects that of average annual precipitation during the same period; runoff is greater in mountainous areas and near the coast. Average annual runoff in the four-State area ranges from about 8 inches per year in parts of north-central Florida to about 50 inches per year in the mountains of northeastern Georgia.

Comparison of the precipitation and runoff maps shows precipitation is greater than runoff everywhere in the four-State area. Much of the precipitation that falls on the area is returned to the atmosphere by evapotranspiration—evaporation from surface-water bodies, such as lakes and marshes, and transpiration from plants. However, a substantial part of the precipitation is available for aquifer recharge throughout the area.

MAJOR AQUIFERS

There are numerous aquifers in Segment 6, that range in composition from unconsolidated sand of the surficial aquifer system to hard, crystalline rocks of the Piedmont and Blue Ridge aquifers. These aquifers are grouped into nine major aquifers or aquifer systems on the basis of differences in their rock types and ground-water flow systems. An aquifer system consists of two or more aquifers that are hydraulically connected—that is, their flow systems function similarly, and a change in conditions in one aquifer affects the other aquifer(s).

The areas where eight major aquifers are exposed at land surface are shown in **figure 3** (see opposite page). Many of these aquifers extend underground far beyond the limits of outcrop, and, accordingly, may be used for water supply in much larger areas than the size of their outcrop may indicate. In places, deeper aquifers that contain freshwater underlie the major aquifers mapped here. For example, in southeastern South Carolina, the surficial aquifer system shown on the map is underlain by the Floridan aquifer system, which in turn is underlain by the Southeastern Coastal Plain aquifer system, all of which contain mostly freshwater. In other places, such as the areas where aquifers of the Piedmont, Blue Ridge, Valley and Ridge, and Appalachian Plateaus physiographic provinces are mapped, deeper aquifers are nonexistent. In places in Alabama, Georgia, and Florida, a clayey confining unit that overlies the Floridan aquifer system is exposed at land surface, and wells need to be drilled through this clayey confining unit to penetrate the underlying aquifer.

The surficial aquifer system consists mostly of unconsolidated sand, but also contains a few beds of shell and limestone. The sand and gravel and Biscayne aquifers are separately recognized parts of the surficial aquifer system that consist of distinctive rock types. The sand and gravel aquifer consists of complexly interbedded lenses and layers of coarse sand and gravel, and the Biscayne aquifer consists predominantly of limestone. The intermediate aquifer system consists of sand and limestone and lies between the surficial aquifer system and the Floridan aquifer system. The intermediate aquifer system does not crop out, and, accordingly, is not shown on the map.

The Floridan aquifer system consists of limestone and dolomite, and is the most productive of the aquifers in the mapped area, in terms of total water yield. The Southeastern Coastal Plain aquifer system consists of four regional aquifers that are predominately sand, but these aquifers also contain some beds of gravel and limestone. All the aquifers from the surficial aquifer system down through the Southeastern Coastal Plain aquifer system are present in the Coastal Plain physiographic province (**fig. 4**). Water in all of the Coastal Plain aquifers is present primarily in intergranular pore spaces. However, solution openings in carbonate rocks of the Biscayne aquifer and Floridan aquifer system yield large volumes of water.

Piedmont and Blue Ridge aquifers consist of indurated metamorphic rocks, such as gneiss and schist, and igneous rocks, such as granite, that underlie the rolling hills of the Piedmont physiographic province and the mountains of the Blue Ridge physiographic province. Water is present in these rocks in fractures, but locally a large volume of water is stored in the regolith, or blanket of weathered material that overlies the rock.

Folded Paleozoic rocks underlie the Valley and Ridge physiographic province, and flatlying Paleozoic rocks underlie the combined Appalachian Plateaus and Interior Low Plateaus physiographic provinces. In these three provinces, the Paleozoic rocks consist of indurated sedimentary rocks; the major aquifers consist of limestone. However, the ground-water flow system is different where these rocks are folded and where they are not.

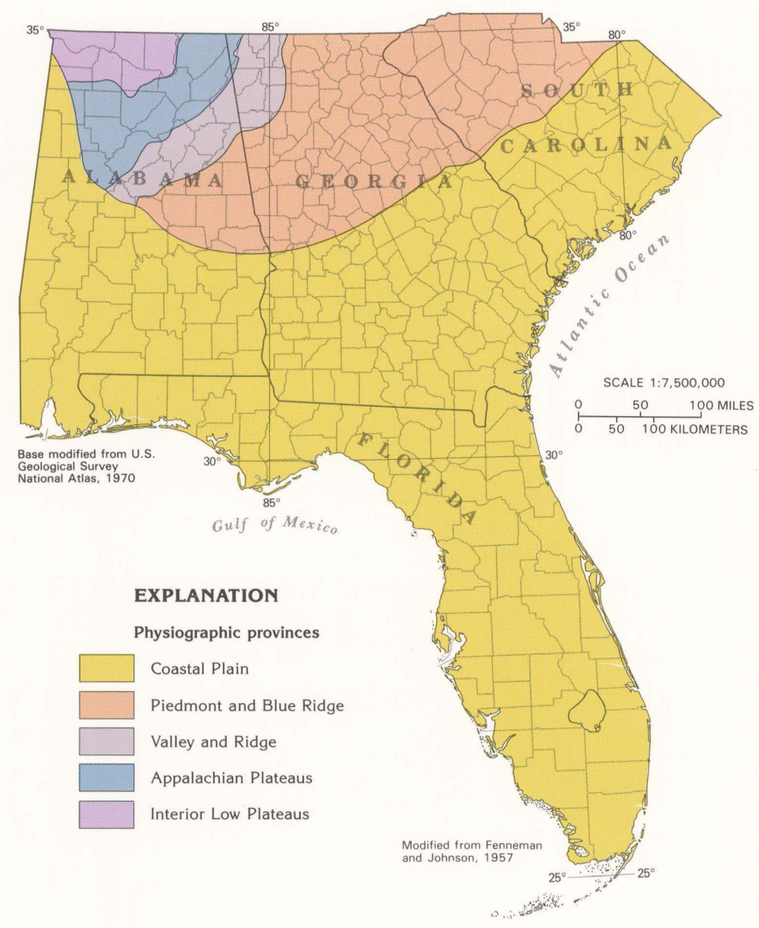
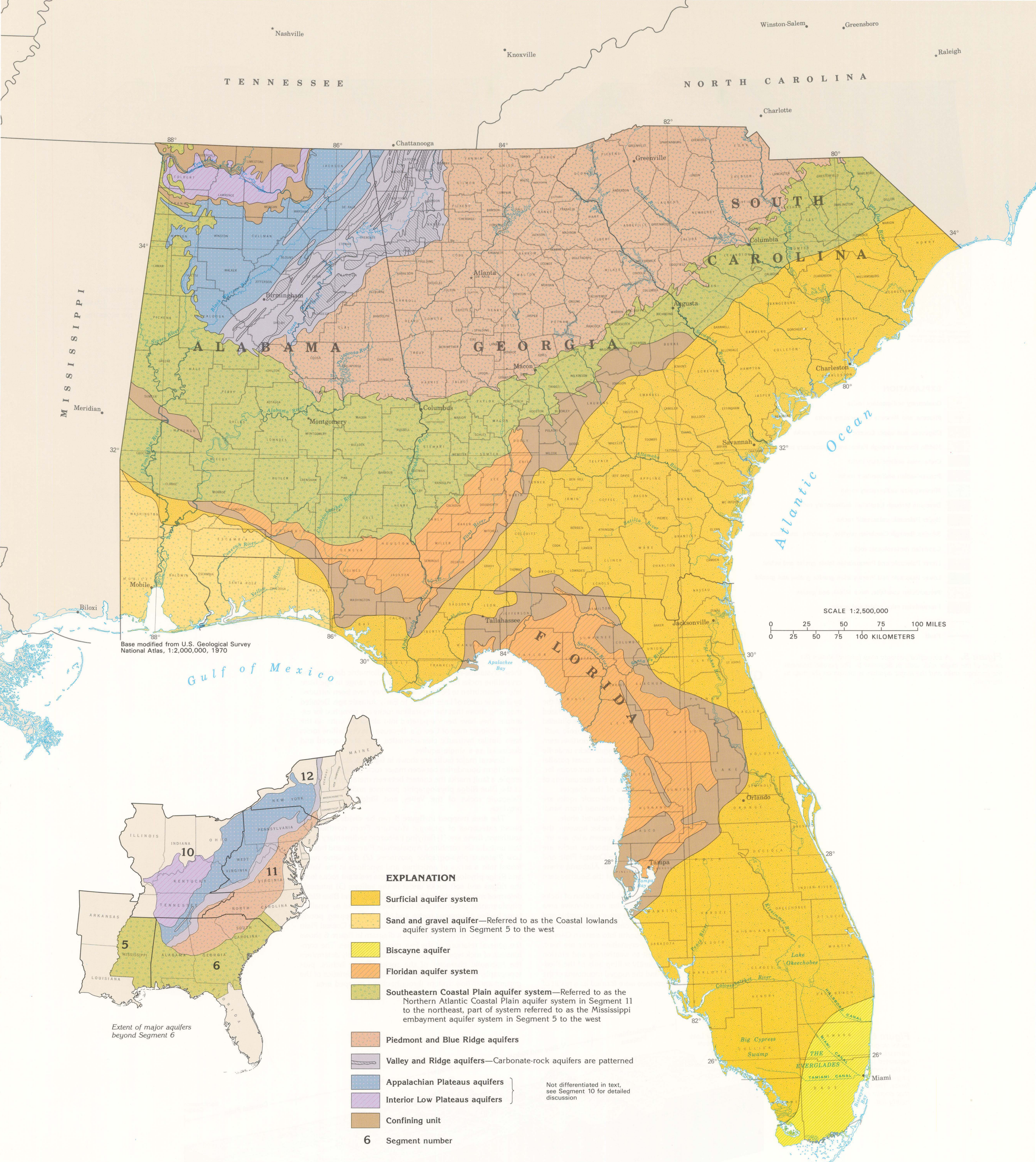


Figure 4. *Six physiographic provinces are present in Segment 6. Two of these provinces—Piedmont and Blue Ridge—have been combined in this chapter because of similarity in geology and hydrology.*



Extent of major aquifers beyond Segment 6

EXPLANATION

- **Surficial aquifer system**
- **Sand and gravel aquifer**—Referred to as the Coastal lowlands aquifer system in Segment 5 to the west
- **Biscayne aquifer**
- **Floridan aquifer system**
- **Southeastern Coastal Plain aquifer system**—Referred to as the Northern Atlantic Coastal Plain aquifer system in Segment 11 to the northeast, part of system referred to as the Mississippi embayment aquifer system in Segment 5 to the west
- **Piedmont and Blue Ridge aquifers**
- **Valley and Ridge aquifers**—Carbonate-rock aquifers are patterned
- **Appalachian Plateaus aquifers**
- **Interior Low Plateaus aquifers**

  Not differentiated in text, see Segment 10 for detailed discussion
- **Confining unit**
- **6** **Segment number**

Figure 3. *The numerous aquifers in Segment 6 can be grouped into nine major aquifers or aquifer systems. The extent of eight of these major aquifers or aquifer systems at the land surface is mapped here. One aquifer, the intermediate aquifer system, is not exposed at the land surface.*

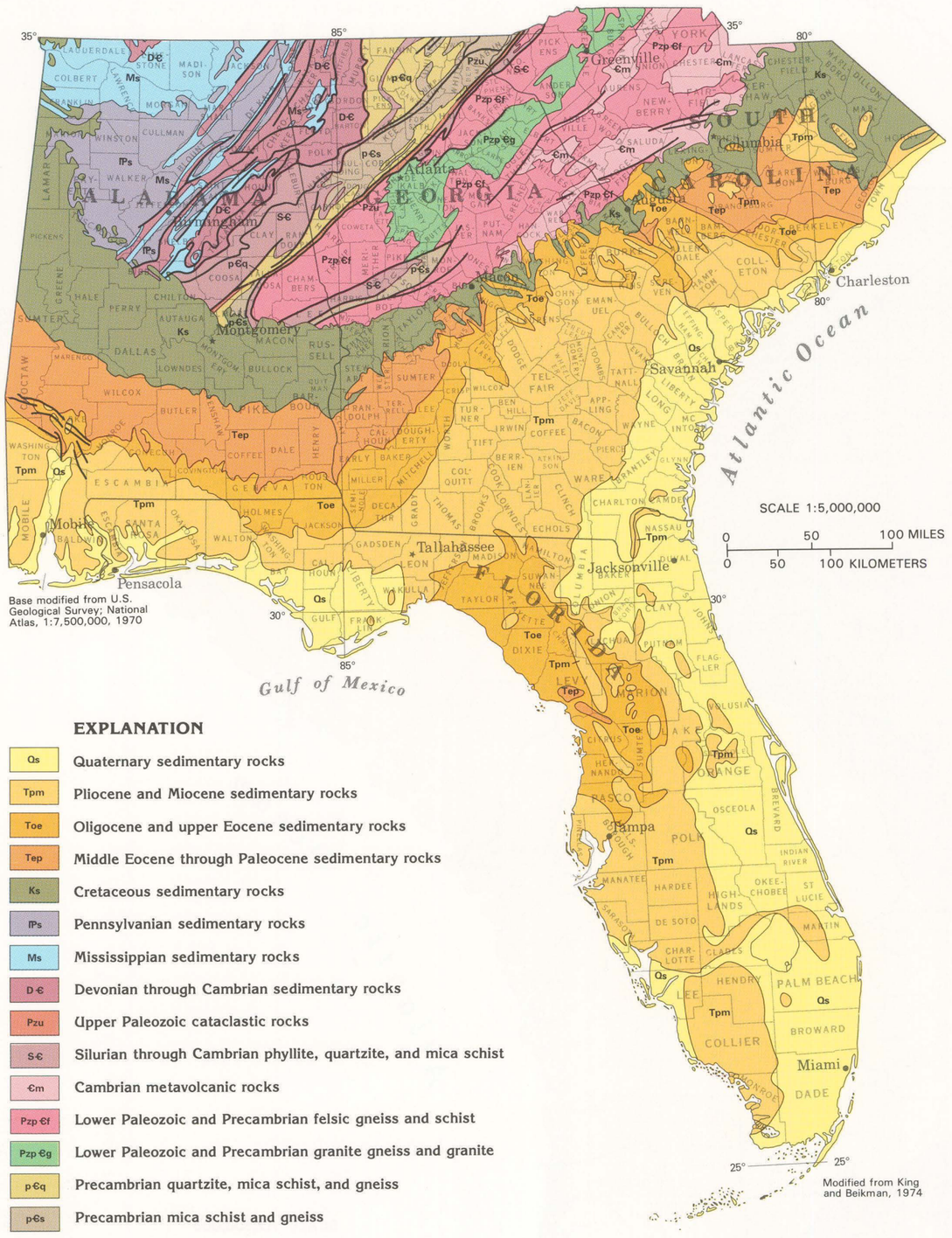


Figure 5. *A simplified geologic map (above) shows the extent of the major rock units in Segment 6. The parallel between the geologic units and the major aquifers is shown on the map to the right.*

GEOLOGY

Two categories of sedimentary rocks comprise most of the rocks underlying the four States of Segment 6: well-indurated rocks of Paleozoic age and poorly indurated to unconsolidated rocks of Cretaceous age and younger. The Paleozoic sedimentary rocks crop out in northern Alabama and northwestern Georgia; whereas, the Cretaceous and younger rocks underlie the Coastal Plain and form a broad, arcuate, coast-parallel band. Both categories have been divided into numerous formations, as shown on correlation charts in the discussions of the major aquifers in following sections of this chapter.

The majority of the water-yielding Paleozoic rocks are limestone; however, some water also is obtained from sandstone and, locally, from chert beds and fractured shale.

Most Coastal Plain strata are clastic rocks; however, the carbonate rocks of the Floridan aquifer system also are important. Triassic, Jurassic, and Lower Cretaceous rocks are present only in the deep subsurface of the Coastal Plain and do not form aquifers except in a local area in Alabama where Lower Cretaceous rocks form a small part of the Southeastern Coastal Plain aquifer system.

The geologic map (**fig. 5**) shows the distribution of rocks by major age category and also shows that an extensive area is underlain by crystalline rocks. These are metamorphic and igneous rocks that crop out in a broad, northeast-trending band that widens from eastern Alabama into eastern Georgia and western South Carolina. The crystalline rocks are hard, and generally are more resistant to weathering and erosion than sedimentary rocks. The gently rolling hills of the Piedmont physiographic province and the rugged mountains of the Blue Ridge physiographic province were formed as a result of these crystalline-rock characteristics. Radiometric dating of the crystalline rocks has determined that they range in age from late Precambrian to Permian. Locally, they have been intruded by diabase dikes of Late Triassic to Early Jurassic age. Detailed mapping shows that the crystalline rocks are complex; for example, they have been separated into about 90 units on the 1976 geologic map of Georgia. Because the crystalline rocks have similar hydraulic characteristics, they are mapped and discussed as a single aquifer.

Several major faults are shown in **figure 5**. Some of these faults form boundaries between major rock categories; for example, a fault marks the contact between metamorphic rocks of the Blue Ridge physiographic province and tightly folded Paleozoic rocks of the Valley and Ridge physiographic province.

The area mapped in **figure 5** can be divided into four broad categories of geologic structure. From northwest to southeast, these are: (1) flatlying Paleozoic sedimentary rocks that underlie the combined Appalachian Plateaus and Interior Low Plateaus physiographic provinces; (2) the same rocks folded into a series of anticlines and synclines in the Valley and Ridge physiographic province, where resistant rocks form the ridges and soft rocks underlie the valleys; (3) intensely deformed metamorphic rocks of the Piedmont and Blue Ridge physiographic provinces that have been intruded by small to large bodies of igneous rocks; and (4) gently dipping, poorly consolidated to unconsolidated sediments of the Coastal Plain physiographic province. The block diagram in **figure 6** shows the general relations of the four major categories. The combination of rock type and geologic structure largely determines the hydraulic character of the rocks. These factors, plus topography and climate, determine the characteristics of the ground-water flow system throughout the mapped area.

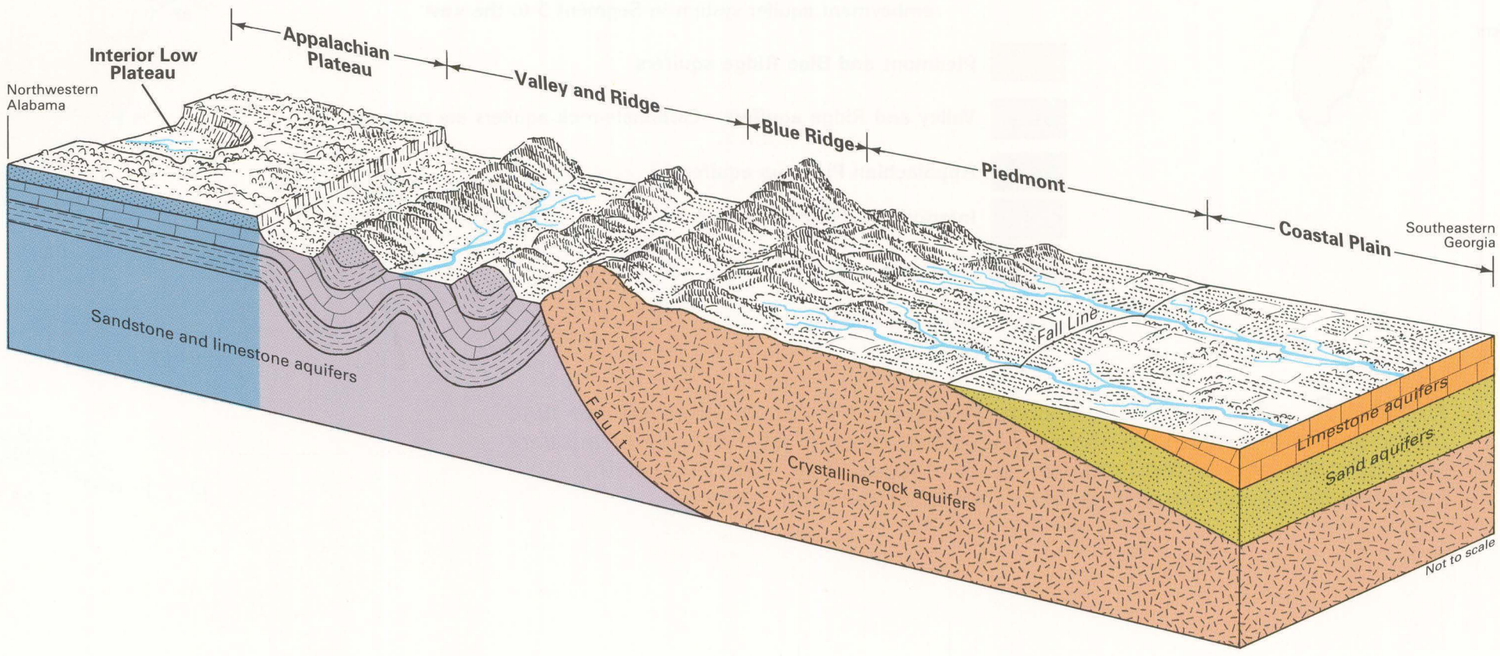


Figure 6. *The Paleozoic rocks range from flatlying to intensely folded. They are separated from crystalline rocks of the Piedmont and Blue Ridge physiographic provinces by faults. The Coastal Plain strata that overlie older rocks are nearly flat.*

VERTICAL SEQUENCE OF AQUIFERS

Some of the major aquifers and aquifer systems in Segment 6 lie atop others. For example, the Biscayne aquifer in southern Florida overlies the Floridan aquifer system, but the two are separated by a thick, clayey confining unit (**fig. 7**). Water is able to move vertically between some of these aquifers. Movement is in the direction of decreasing hydraulic head, and occurs most easily where the confining units separating the aquifers are absent, thin, or leaky.

The sequence of maps on this page shows the extent of each aquifer or aquifer system. Comparison of the maps shows the places where aquifers are stacked upon each other. The three uppermost aquifers in the Coastal Plain are shown in **figure 8**. These aquifers, the surficial aquifer system, sand and gravel aquifer, and Biscayne aquifer are all the same geologic age (primarily Pleistocene and younger), and all contain water mostly under unconfined (water table) conditions. However, even though these aquifers are lateral equivalents, the lithology and permeability of each are different. The surficial aquifer system is a thin, widespread layer of unconsolidated sand beds that commonly contains a few beds of shell and limestone. This aquifer system generally yields small volumes of water, and primarily is used for domestic supplies. The sand and gravel aquifer consists largely of interbedded layers of coarse sand and gravel that were deposited by streams. Thin clay beds in this aquifer locally create semiconfined conditions. The sand and gravel aquifer yields moderate volumes of water, and is an important source of supply for several counties in westernmost panhandle Florida and southwestern Alabama. Westward, in Mississippi, the sand and gravel aquifer grades into the Coastal lowlands aquifer system. The Biscayne aquifer, the source of water supply for several large cities along the southeastern coast of Florida, is a highly permeable sequence of mostly carbonate rocks that were deposited in marine waters.

The intermediate aquifer system (**fig. 9**) underlies the surficial aquifer system and overlies the Floridan aquifer system. The intermediate aquifer system is bounded above and below by clayey confining units. The system is not exposed at land surface and is recharged primarily by downward leakage from overlying aquifers. Sand beds and limestone lenses comprise the permeable parts of the system. The intermediate aquifer system is an important source of municipal supply in Sarasota, Charlotte, and Glades Counties, Fla.; elsewhere, it primarily is used for domestic supplies.

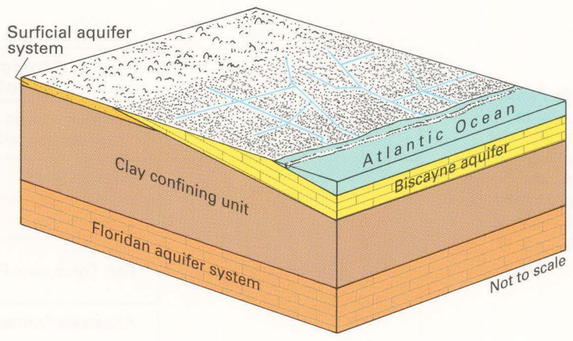


Figure 7. *In places, some major aquifers overlie others. In south Florida, for example, the freshwater-yielding Biscayne aquifer is separated from the underlying Floridan aquifer system, which contains saltwater, by a thick, clayey confining unit.*

The Floridan aquifer system (**fig. 10**) consists of a thick sequence of carbonate rocks and is the most productive aquifer in Segment 6. The Floridan underlies the intermediate aquifer system where the latter is present; it also underlies the surficial aquifer system, the sand and gravel aquifer, and the Biscayne aquifer, but is separated from them practically everywhere by a thick, clayey confining unit. Where the surficial aquifer system overlies the Floridan, the clayey confining unit between the systems is thick in some places and thin or absent in other places. The Floridan supplied more than 3 billion gallons of water per day during 1985, primarily for municipal and agricultural purposes.

The Southeastern Coastal Plain aquifer system (**fig. 11**) underlies the Floridan aquifer system in some places (mostly in western Georgia and westward) and grades laterally into the Floridan in other places (mostly in southeastern Georgia and southwestern South Carolina). The upper part of the Southeastern Coastal Plain aquifer system grades laterally into the Mississippi embayment aquifer system in western Alabama (**fig. 3**). The Southeastern Coastal Plain aquifer system consists of four regional aquifers that are primarily sand beds, but which contain some gravel and limestone. The four regional aquifers generally yield large volumes of water in updip areas, where they are mostly sand, but the aquifers are less permeable in a coastward direction due to increasing clay content toward the coast. The system is an important source of water supply for all purposes throughout the inner part of the Coastal Plain.

Although rocks of the Piedmont, Blue Ridge, Valley and Ridge, and the combined Appalachian Plateaus and Interior Low Plateaus physiographic provinces (**fig. 12**) extend under the Southeastern Coastal Plain aquifer system, these rocks generally are not used as aquifers there because water can be more readily obtained from the shallower, unconsolidated Coastal Plain sediments. Piedmont and Blue Ridge aquifers consist of a complex sequence of metamorphic and igneous rocks, and primarily supply domestic or agricultural wells. Well yields generally are small; the water is obtained from fractures in the unweathered crystalline rock and from the mantle of regolith (weathered materials, soil, and alluvium) that overlies it. Major fault systems separate the Piedmont and Blue Ridge aquifers from the Valley and Ridge aquifers to the northwest.

The Valley and Ridge and the combined Appalachian Plateaus and Interior Low Plateaus aquifers consist of indurated sedimentary rocks of Paleozoic age. Water is obtained primarily from limestone in these provinces and secondarily from sandstone, chert beds, or fractured shale. In the Valley and Ridge province, these sedimentary rocks have been tightly folded into a sequence of northeast-trending anticlines and synclines that have been displaced by thrust faults in many places. Ground-water circulation extends to greater depths in these folded rocks than in the Appalachian Plateaus and Interior Low Plateaus provinces to the northwest where the same rocks are almost flatlying. In the Appalachian Plateaus province, the flatlying beds are topped with a resistant cap of sandstone; in the Interior Low Plateaus province, the sandstone has been dissected by erosion, and underlying limestone beds are exposed. The contact between the Valley and Ridge and Appalachian Plateaus provinces is distinct in some places where it follows faults and is gradational from nearly horizontal strata to folds in other places.

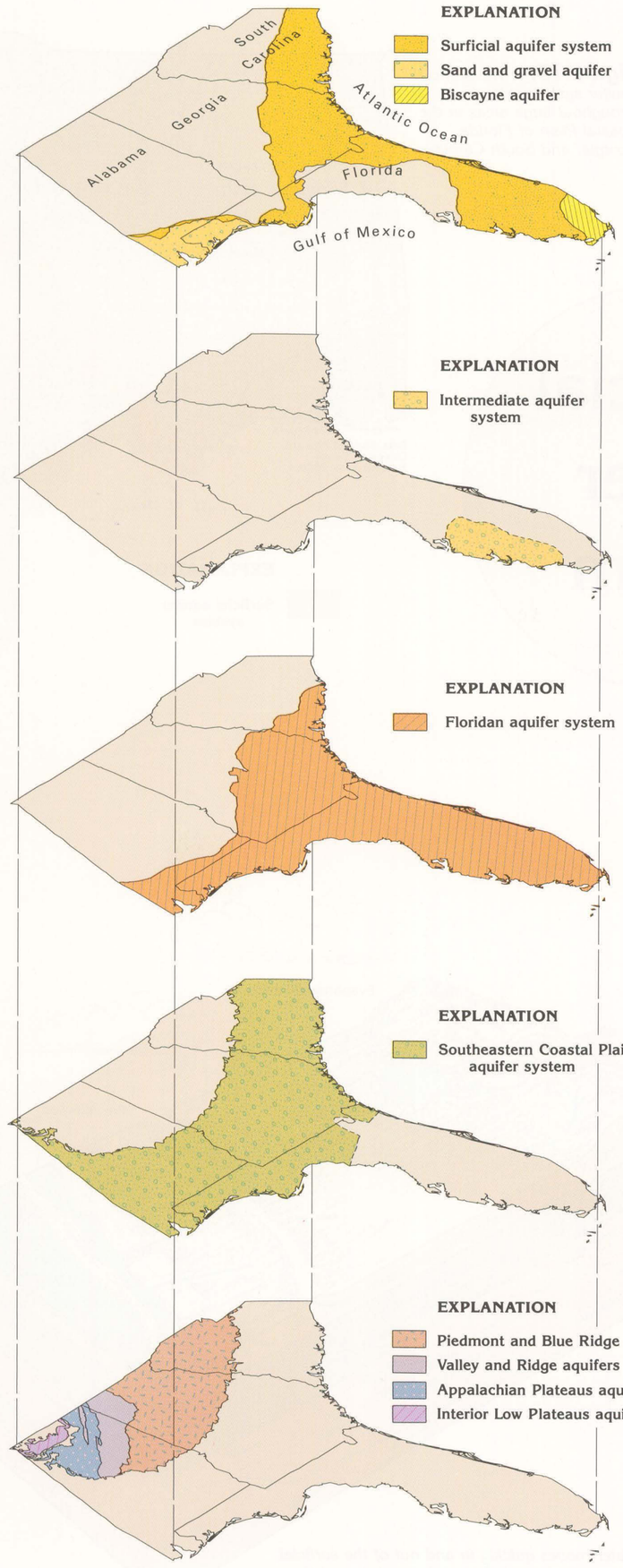


Figure 8. *The uppermost Coastal Plain rocks are divided into three aquifers, all consisting of strata of the same age. The surficial aquifer system is a thin blanket of sand and shell beds that yields small volumes of water, the sand and gravel aquifer is a thick sequence of coarse clastic rocks that yields moderate volumes of water, and the Biscayne is a carbonate-rock aquifer that yields large volumes of water.*

Figure 9. *The intermediate aquifer system underlies the surficial aquifer system in southwestern Florida and consists mostly of sand, which yields small volumes of water, with some limestone beds, which yield large volumes of water.*

Figure 10. *The Floridan aquifer system consists of carbonate rocks and is the most productive water-yielding unit in Segment 6. The Floridan is overlain by the intermediate aquifer system and also by the three younger aquifers shown in figure 8. In most places, the Floridan is separated from these overlying aquifers by a clayey confining unit.*

Figure 11. *The clastic rocks of the Southeastern Coastal Plain aquifer system yield moderate volumes of water. The clastic rocks underlie the Floridan aquifer system in places, and grade laterally into the Floridan in other places. A clayey confining unit separates the two systems in Alabama and western Georgia.*

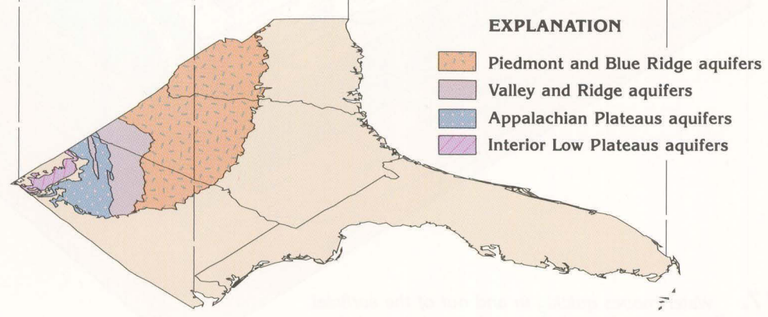


Figure 12. *Crystalline rocks, such as granite, gneiss, and schist, comprise aquifers in the Piedmont and Blue Ridge provinces; indurated sedimentary rocks comprise aquifers in the Valley and Ridge province and in the combined Appalachian and Interior Low Plateaus provinces. All of the aquifers shown on this figure generally yield small volumes of water, and extend under the Southeastern Coastal Plain aquifer system, but are little used where the greater yielding Coastal Plain rocks cover them.*

FRESH GROUND-WATER WITHDRAWALS

Ground water is the source of water supply for almost 11 million people, or about 73 percent of the population in the four-State area.

About 5,600 million gallons per day was withdrawn from all the principal aquifers during 1985; 46 percent was used in rural areas for domestic and commercial supplies and for agricultural supplies. Withdrawals for public supply were somewhat less, accounting for 35 percent of the total water withdrawn.

Total withdrawals of fresh ground water, by county, are shown in **figure 13**. Counties with the largest withdrawals are those that have large population centers except for south-central Florida, where combined agricultural and mining uses account for most of the withdrawals. Fresh ground-water withdrawals for most water use categories are increasing, according to a recent (1990) nationwide compilation of water-use data by the U.S. Geological Survey.

Total withdrawals of freshwater during 1985 from each of the principal aquifers in four-State area are shown in **figure 14**. About 3,181 million gallons per day was withdrawn from the Floridan aquifer system, almost four times as much water as was withdrawn from the second most used aquifer, the Biscayne aquifer (786 million gallons per day), and almost twice as much water as was withdrawn from all the other principal aquifers combined. More water was withdrawn from the Biscayne aquifer, although it only extends throughout a small area in the southeastern tip of Florida, than from either the Southeastern Coastal Plain aquifer system (574 million gallons per day) or the surficial aquifer system (361 million gallons per day), even though both have a much larger areal extent. This is because the Biscayne is the source of supply for several large cities, including Miami, West Palm Beach, and Fort Lauderdale, along the southeast coast of Florida. About 298 million gallons per day was withdrawn from the intermediate aquifer system, about 150 million gallons per day from the sand and gravel aquifer, and about 149 million gallons per day from the combined Valley and Ridge, Appalachian Plateaus, and Interior Low Plateaus aquifers. Only about 100 million gallons per day, or about 2 percent of the total freshwater withdrawn, was obtained from the Piedmont and Blue Ridge aquifers because surface water is the primary source of supply in the area underlain by these aquifers.

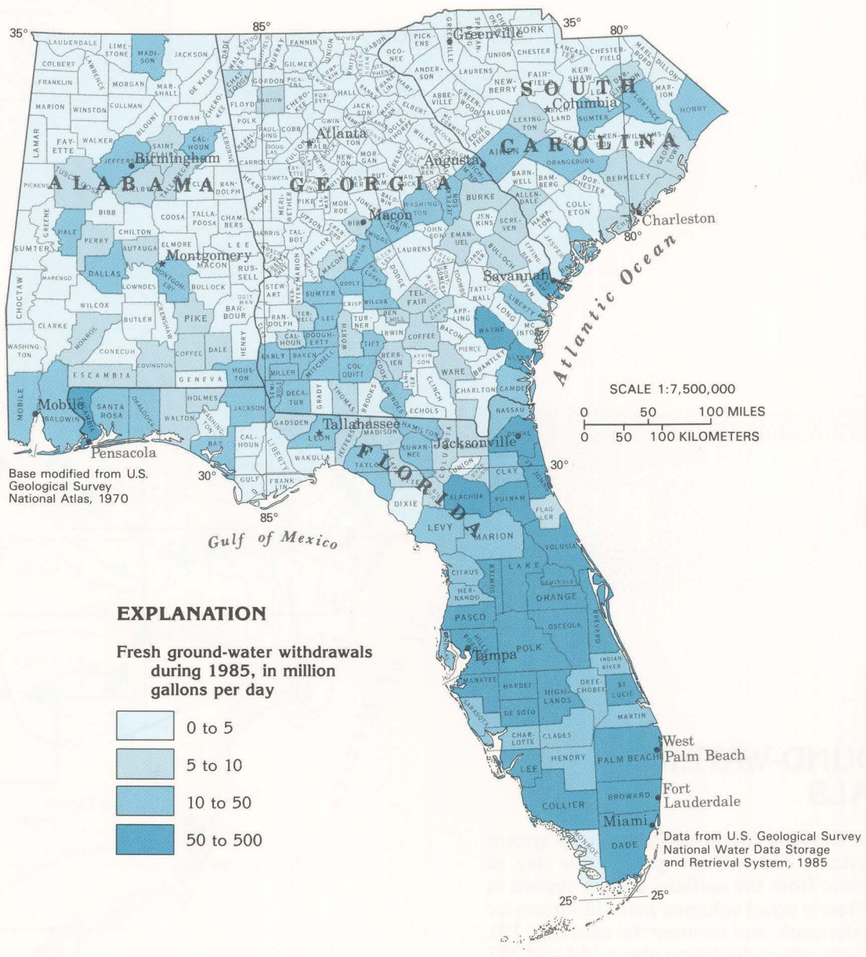


Figure 13. *Fresh ground-water withdrawals were greatest in Florida during 1985 because the large population centers and extensive areas of agricultural water use in the State rely primarily on ground water for their water supplies.*

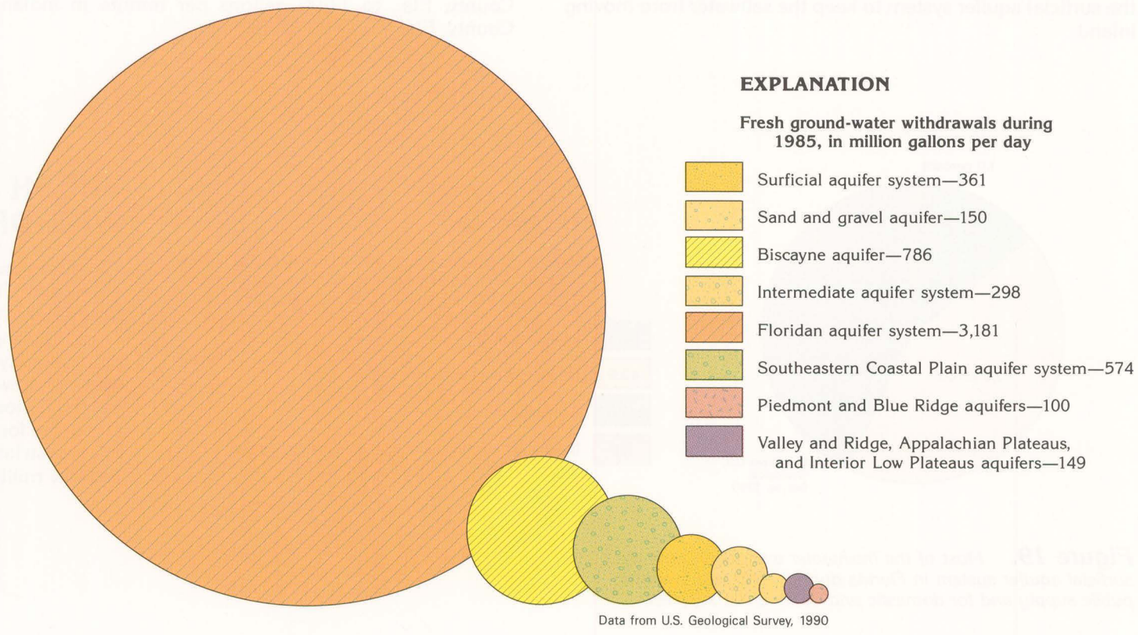


Figure 14. *The Floridan aquifer system was the source of about 57 percent of the fresh ground-water withdrawals in the four-State area during 1985; about 14 percent of the fresh water was withdrawn from the Biscayne aquifer, the second most used aquifer.*

Surficial aquifer system

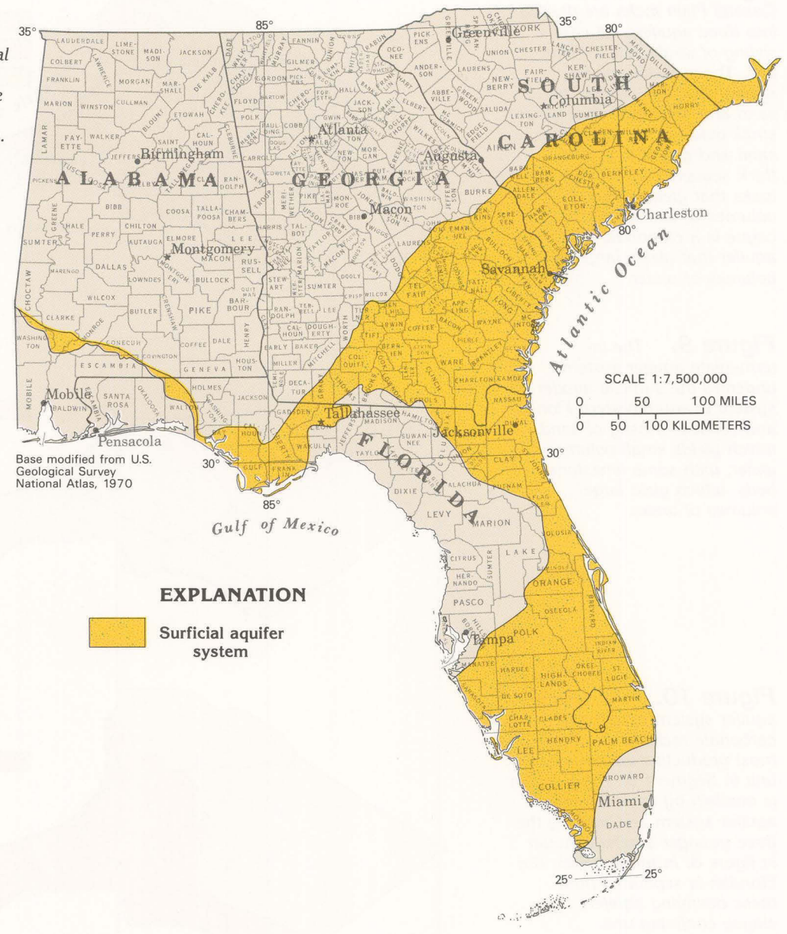


Figure 15. *The surficial aquifer system extends throughout large areas in the Coastal Plain of Florida, Georgia, and South Carolina.*

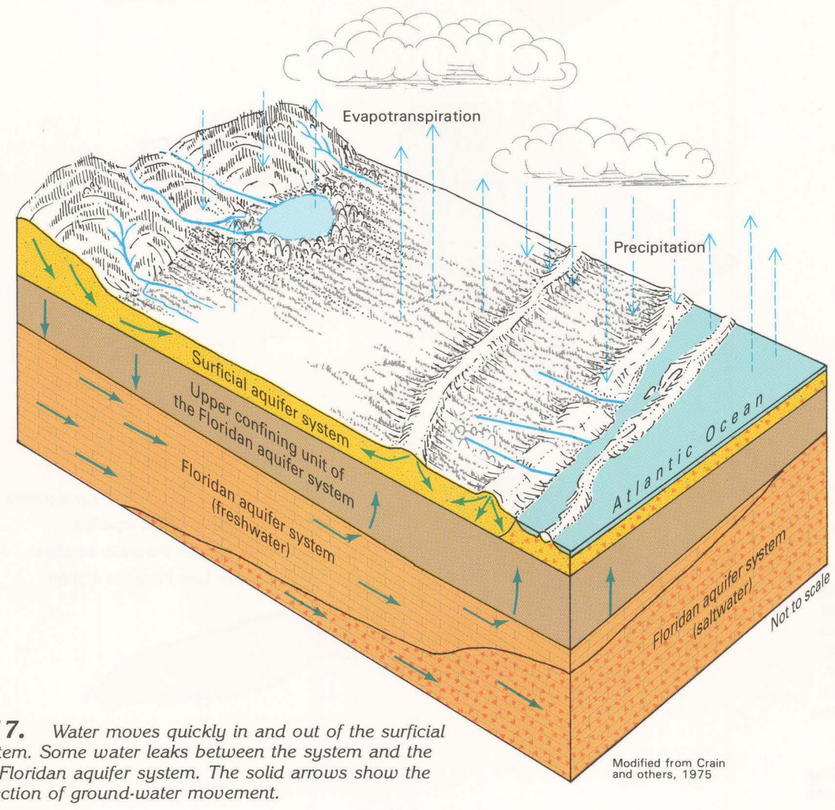


Figure 17. *Water moves quickly in and out of the surficial aquifer system. Some water leaks between the system and the underlying Floridan aquifer system. The solid arrows show the general direction of ground-water movement.*

GROUND-WATER FLOW

Ground water in the surficial aquifer system is under unconfined, or water-table, conditions practically everywhere. Locally, thin clay beds create confined or semiconfined conditions within the system. Most of the water that enters the system moves quickly along short flowpaths and discharges as baseflow to streams.

The general movement of water within the system is illustrated in **figure 17**, which is an idealized diagram representing hydrologic conditions in Indian River County, Fla. Water enters the system as precipitation. A large percentage of this water is returned to the atmosphere by evapotranspiration. Water that is not returned to the atmosphere by evapotranspiration, or that does not directly run off into surface-water bodies, percolates downward into the surficial aquifer system and then moves laterally through the system until it discharges to a surface-water body or to the ocean.

In places, some water leaks upward from the underlying Floridan aquifer system through the clayey confining unit separating the Floridan and surficial systems (**fig. 17**). In other places, where the hydraulic head of the Floridan is lower than the water table of the surficial aquifer, leakage can occur in the opposite direction.

Because the surficial aquifer system extends seaward under the Atlantic Ocean, saltwater can encroach into the aquifer in coastal areas. Encroachment is more extensive during droughts because there is less freshwater available in the surficial aquifer system to keep the saltwater from moving inland.

The configuration of the long-term, average water table of the surficial aquifer system, where it has been mapped in the eastern and southern part of the Florida peninsula, is shown in **figure 18**. The water-table configuration is generally a subdued reflection of the topography of land surface. Steep gradients occur between streams and ridges or hills, and gentle gradients occur in broad, flat interstream areas and under broad topographic highs.

The arrows in **figure 18** show that the general direction of ground-water movement is toward the Atlantic Ocean, the Gulf of Mexico, or toward major rivers. The water-table surface is complex, reflecting the fact that water in the surficial aquifer system moves quickly toward the nearest surface-water body. Accordingly, local directions of ground-water movement change markedly within short distances.

The wide spacing of the contours in Collier County and adjacent areas reflects two conditions: (1) the Big Cypress Swamp, which is virtually flat, is present throughout much of this area; and (2) the surficial aquifer system largely consists of highly permeable limestone in this area. Steeper gradients elsewhere are more typical of a sand aquifer in an area of gentle topography.

The transmissivity of the surficial aquifer system is extremely variable. Most reported values range from 1,000 to 10,000 feet squared per day; in places, values of 25,000 to 50,000 feet squared per day have been reported. The larger values are primarily for beds of shell or limestone. Well yields range from less than 50 gallons per minute in most of Georgia and South Carolina, to 450 gallons per minute in St. Johns County, Fla., to 1,000 gallons per minute in Indian River County, Fla.

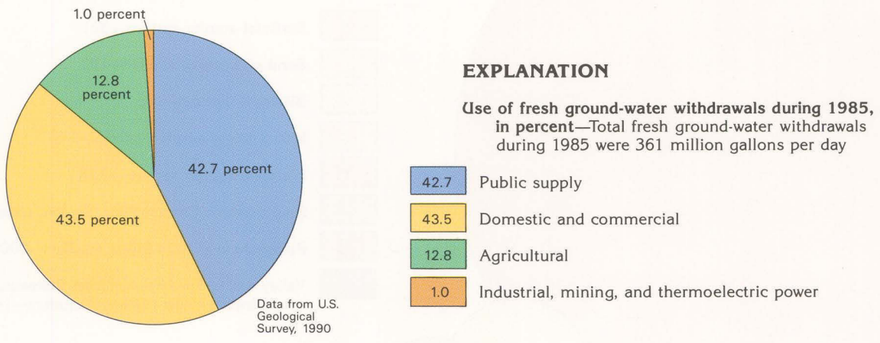


Figure 19. *Most of the freshwater withdrawn from the surficial aquifer system in Florida during 1985 was used for public supply and for domestic and commercial supplies.*

FRESH GROUND-WATER WITHDRAWALS

Water-use data are available for the surficial aquifer system only from Florida. About 361 million gallons per day of freshwater was withdrawn from the surficial aquifer system in Florida during 1985. Nearly equal volumes were withdrawn for public supply and for domestic and commercial uses (**fig. 19**), with withdrawals for these categories being about 154 and 157 million gallons per day, respectively. Agricultural withdrawals accounted for about 13 million gallons per day, and withdrawals for industrial, mining, and thermoelectric-power uses were about 4 million gallons per day, primarily for industrial use.

INTRODUCTION

The surficial aquifer system (**fig. 15**) in the southeastern United States includes any otherwise undefined aquifers that are present at the land surface. Even though the sand and gravel aquifer of Florida and southwestern Alabama, and the Biscayne aquifer of southern Florida are present at the land surface and are the lateral equivalents of the surficial aquifer system, they are treated separately in this Atlas because of their importance as water sources. The sand and gravel, and the Biscayne aquifers supply large municipalities; the surficial aquifer system, although used by a large number of people, principally is used only for domestic, commercial, or small municipal supplies.

The thickness of the surficial aquifer system is typically less than 50 feet, but its thickness in Florida is as much as 400 feet in Indian River and St. Lucie Counties; 250 feet in Martin and Palm Beach Counties; and 150 feet in eastern St. Johns County. In southeastern Georgia, thicknesses of about 60 feet have been mapped for the system. The system generally thickens coastward.

HYDROGEOLOGIC UNITS

The surficial aquifer system consists mostly of beds of unconsolidated sand, shelly sand, and shell. Locally, in southwestern Florida, limestone beds form an important and highly permeable part of the system. In places, clay beds are sufficiently thick and continuous to divide the system into two or three aquifers; mostly, however, the system is undivided. Complex interbedding of fine- and coarse-textured rocks is typical of the system.

The rocks that comprise the surficial aquifer system range from late Miocene to Holocene in age. Although **figure 16** shows that nine geologic formations are part of the system at different places in Florida, the entire sequence of formations is not present at any one location. The formations are thin and mostly lens-like, and it is unusual for more than three or four of them to comprise the aquifer system at any place. Many of the geologic formations shown interfinger with each other, and some of them, such as the Caloosahatchee Marl, are not particularly productive aquifers. In Georgia and South Carolina, unnamed, sandy, marine terrace deposits of Pleistocene age and sand of Holocene age comprise the system. These sandy beds commonly contain clay and silt. In Alabama, a thin, unnamed sand of Holocene age comprises the system.

Limestone beds of the Tamiami and Fort Thompson Formations, mostly restricted to southern and southwestern Florida, are the most productive parts of the surficial aquifer system. Yields from these formations are especially large where large-scale openings have been developed by dissolution of part of the limestone. In places where the combined Pamlico Sand and overlying sand deposits of Holocene age are 40 feet or more thick, moderate yields are obtained; elsewhere, the system generally does not yield much water.

Figure 16. *In Florida, rocks of late Miocene to Holocene age comprise the surficial aquifer system. In Alabama, Georgia, and South Carolina, a thin, unnamed sand sequence of Pleistocene and younger age comprises the system.*

Series	Stratigraphic and hydrologic units		Lithology
Holocene	Undifferentiated alluvium and terrace deposits	Surficial aquifer system	Sand with local shell beds
Pleistocene[1]	Pamlico Sand		Fine to medium sand
	Miami Oolite		Oolitic limestone
	Fort Thompson Formation		Interbedded sand, shell, and limestone
	Anastasia Formation		Sandy limestone and marl
	Caloosahatchee Marl		Marl with minor sand and silt
Pliocene	Tamiami Formation		Marl with beds of fossiliferous limestone
	Bone Valley Formation		Phosphatic sand and clay
Miocene	Choctawhatchee Formation		Sand and limestone

[1](Stratigraphic units are equivalent in part. Order does not necessarily reflect relative age)

Modified from Healy, 1982

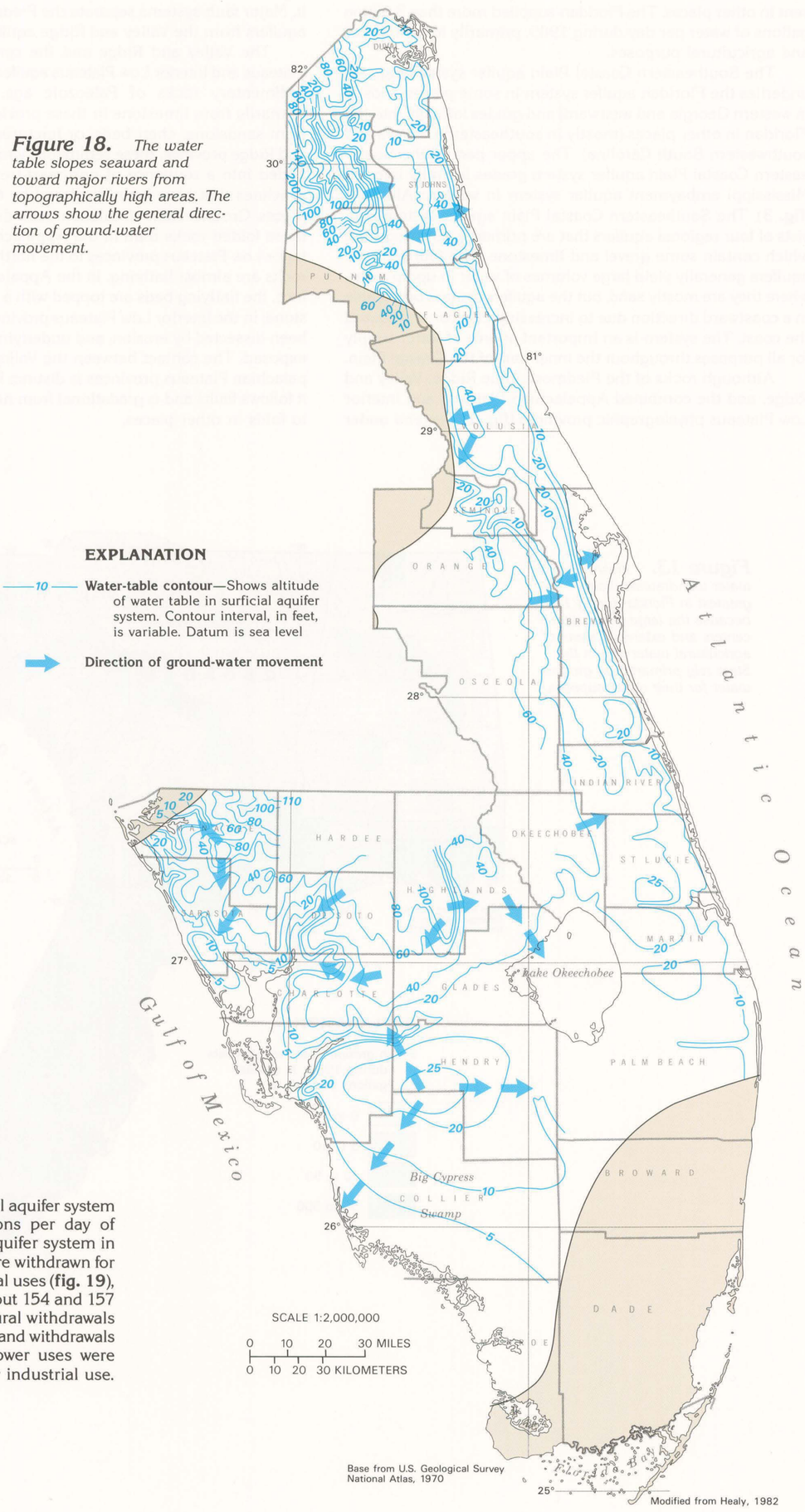


Figure 18. *The water table slopes seaward and toward major rivers from topographically high areas. The arrows show the general direction of ground-water movement.*

Appendix E

Historical Research

Ocean Street & North 10th Street

N. 10th Street

Palatka, FL 32177

Inquiry Number: 4692029.20

August 04, 2016

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EDR Aerial Photo Decade Package

08/04/16

Site Name:

Ocean Street & North 10th Stre
N. 10th Street
Palatka, FL 32177
EDR Inquiry # 4692029.20

Client Name:

Ayres Associates
5201 E. Terrace Drive, Suite 200
Madison, WI 53718
Contact: William Honea

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Search Results:

Year	Scale	Details	Source
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2007	1"=500'	Flight Year: 2007	USDA/NAIP
2006	1"=500'	Flight Year: 2006	USDA/NAIP
2005	1"=500'	Flight Year: 2005	USDA/NAIP
1999	1"=500'	Acquisition Date: January 25, 1999	USGS/DOQQ
1994	1"=500'	Flight Date: January 01, 1994	FL DOT
1980	1"=500'	Flight Date: January 01, 1980	FL DOT
1972	1"=500'	Flight Date: January 01, 1972	ASCS
1964	1"=500'	Flight Date: January 01, 1964	ASCS
1953	1"=500'	Flight Date: January 01, 1953	ASCS
1943	1"=500'	Flight Date: January 01, 1943	ASCS

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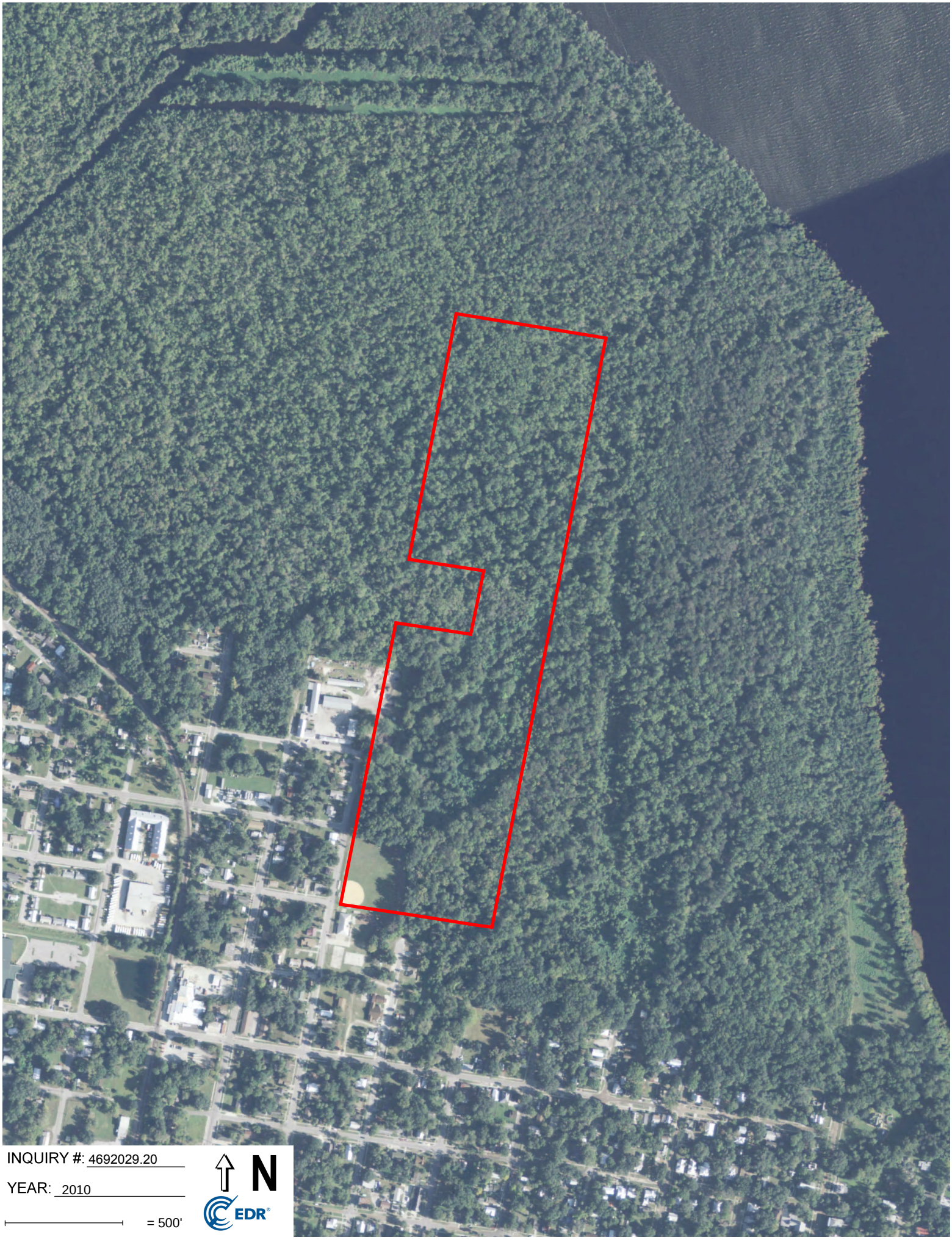
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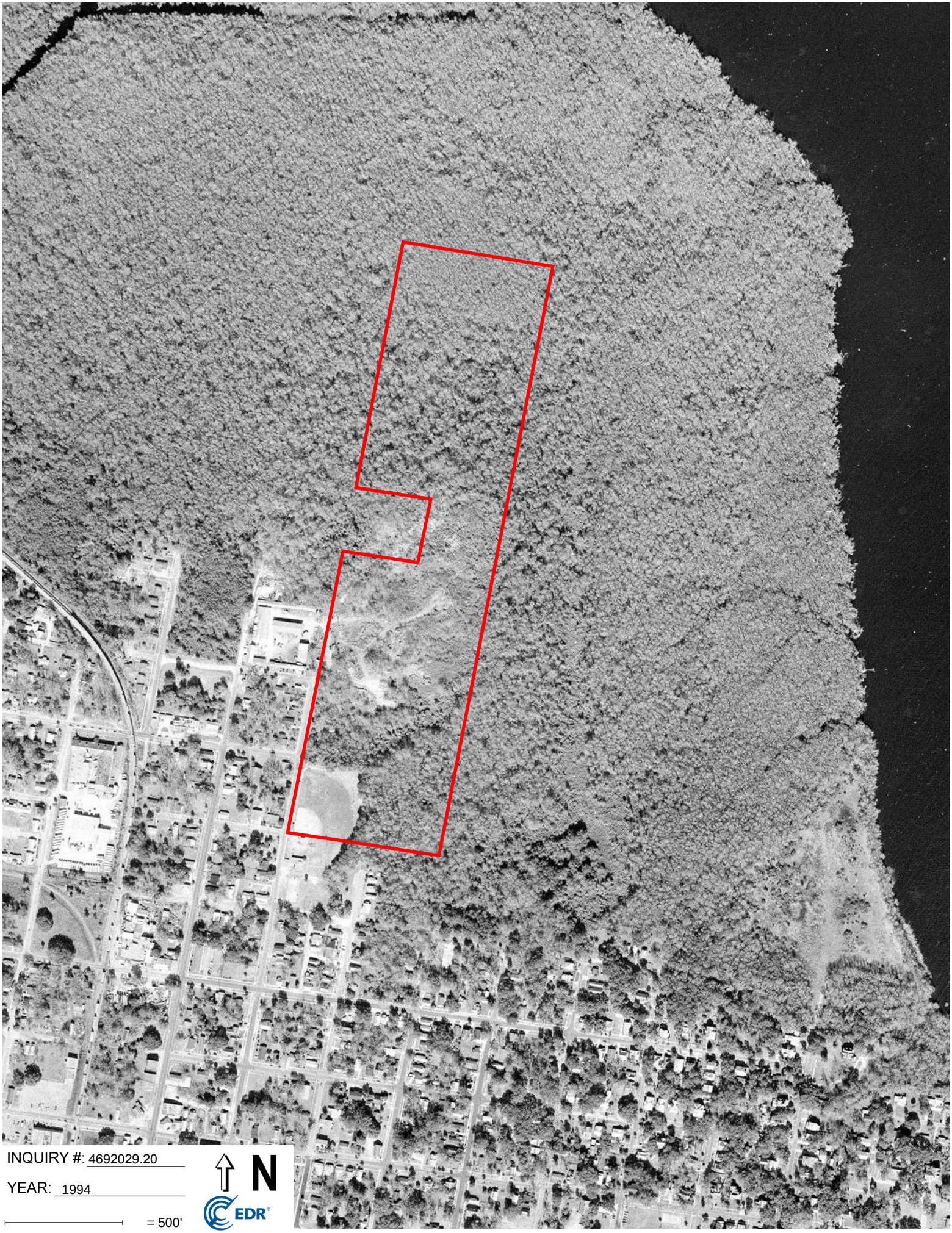

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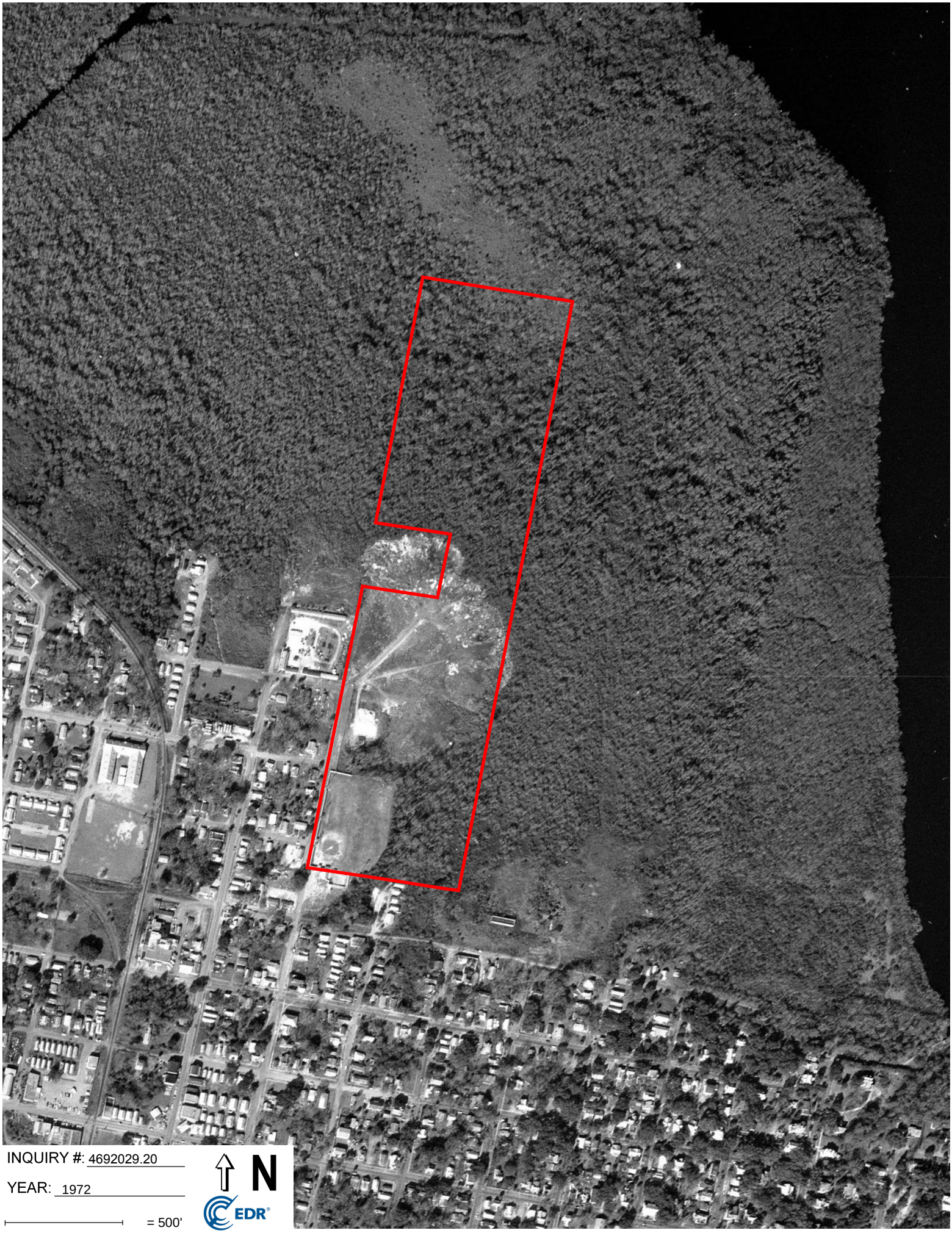

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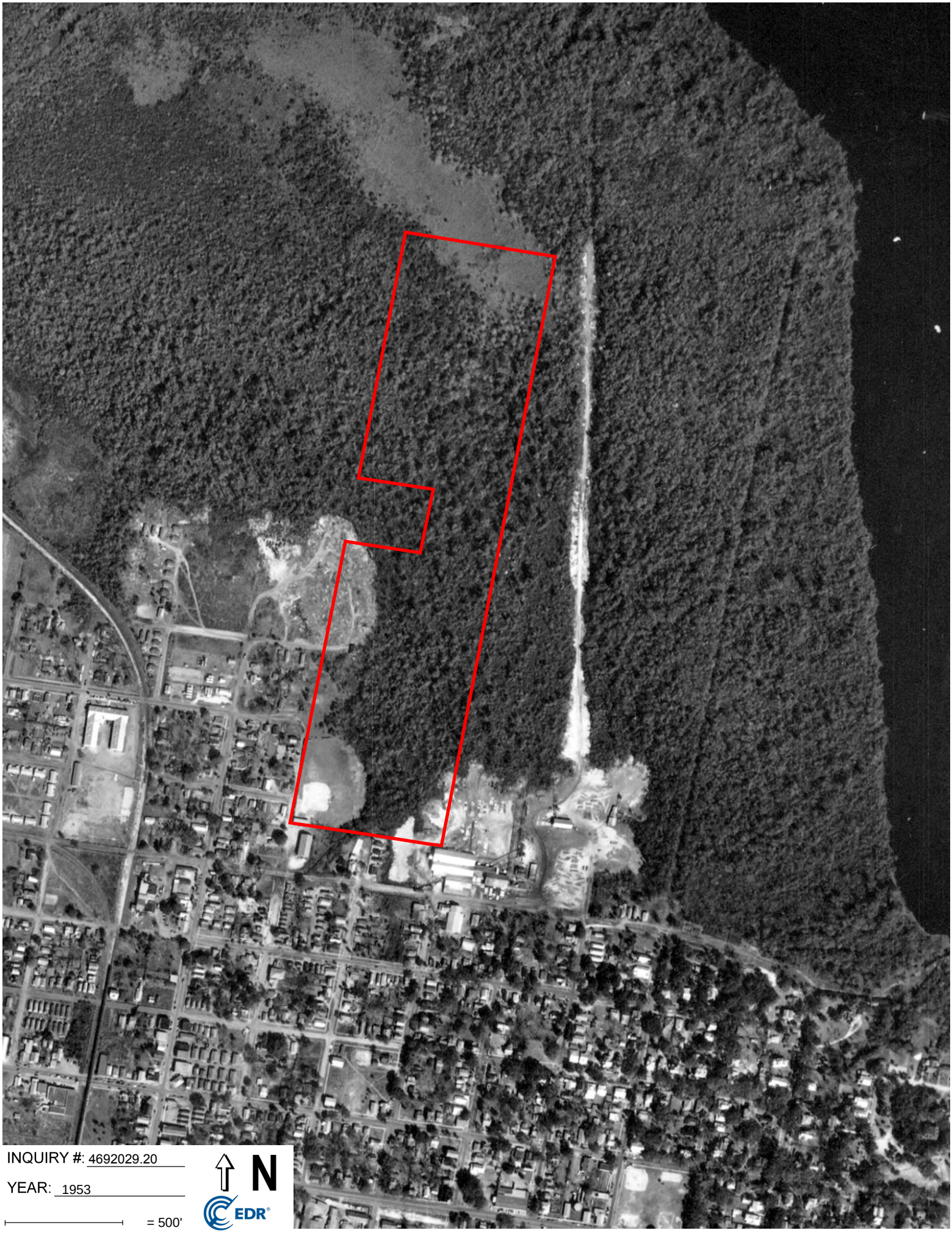

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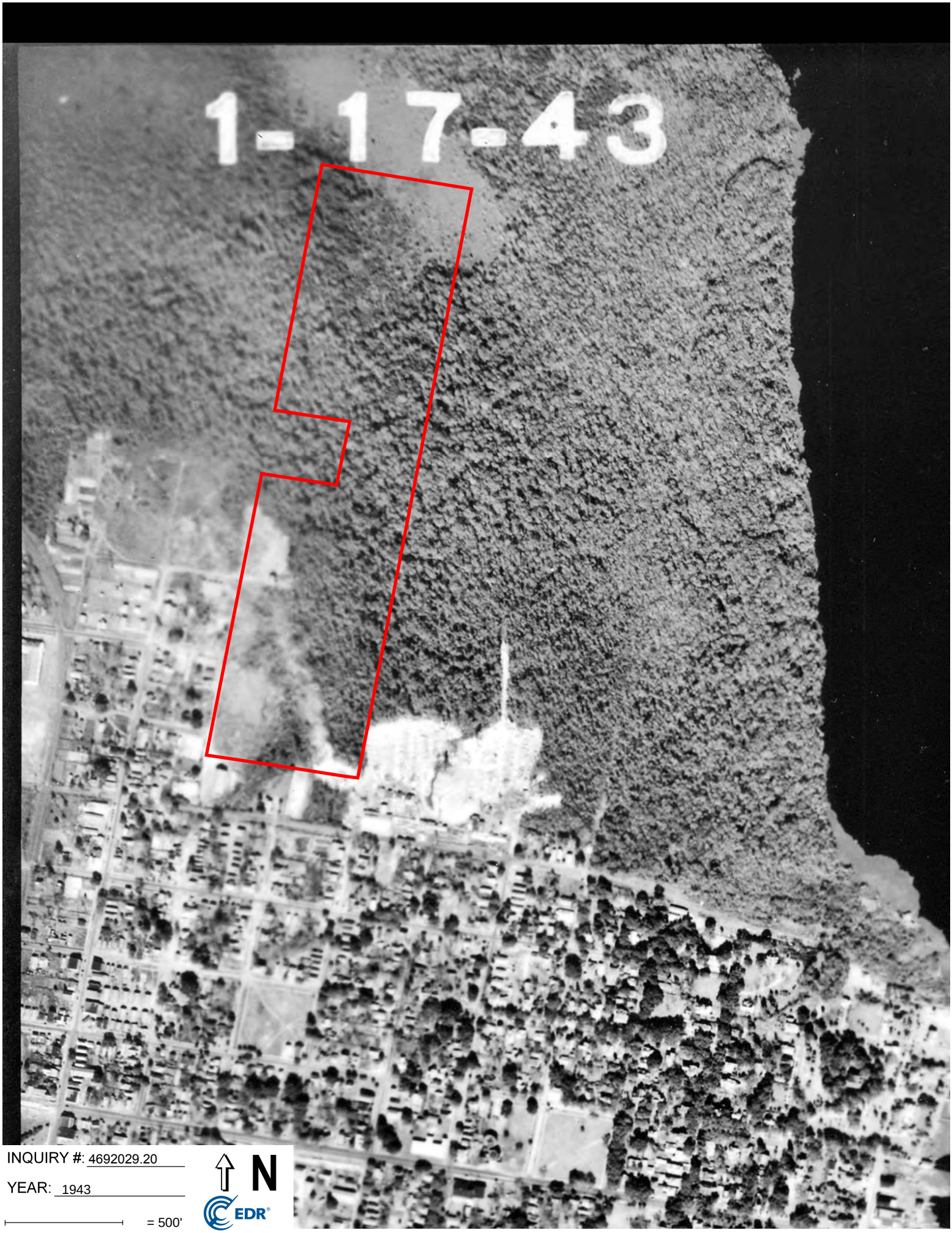

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YEAR: 1943

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Ocean Street & North 10th Street

N. 10th Street

Palatka, FL 32177

Inquiry Number: 4692029.14

August 04, 2016

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EDR Historical Topo Map Report

08/04/16

Site Name:

Ocean Street & North 10th Stre
N. 10th Street
Palatka, FL 32177
EDR Inquiry # 4692029.14

Client Name:

Ayres Associates
5201 E. Terrace Drive, Suite 200
Madison, WI 53718
Contact: William Honea

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Ayres Associates were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:

P.O.# NA
Project: 19-0668.00 Palatka Browfield

Coordinates:

Latitude:	29.658387 29° 39' 30" North
Longitude:	-81.6353 -81° 38' 7" West
UTM Zone:	Zone 17 North
UTM X Meters:	438517.37
UTM Y Meters:	3281101.52
Elevation:	4.00' above sea level

Maps Provided:

2012
1989, 1992
1983
1980
1968
1915
1912

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

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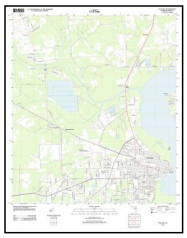

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2012
7.5-minute, 24000

Hastings
2012
7.5-minute, 24000

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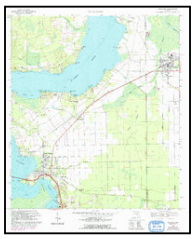

Hastings
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Photo Revised 1988
Aerial Photo Revised 1989

Palatka
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Edited 1992

1983 Source Sheets

Palatka
1983
7.5-minute, 24000
Photo Inspected 1983
Photo Revised 1980

1980 Source Sheets

Palatka
1980
7.5-minute, 24000
Photo Revised 1980
Aerial Photo Revised 1977

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1968 Source Sheets

Palatka
1968
7.5-minute, 24000
Aerial Photo Revised 1967

Hastings
1968
7.5-minute, 24000
Aerial Photo Revised 1967

1915 Source Sheets

Palatka
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1912 Source Sheets

Palatka
1912
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Historical Topo Map

2012

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W E
SW S SE

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NE, Hastings, 2012, 7.5-minute

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ADDRESS: N. 10th Street
Palatka, FL 32177
CLIENT: Ayres Associates

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This report includes information from the following map sheet(s).

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W E
SW S SE

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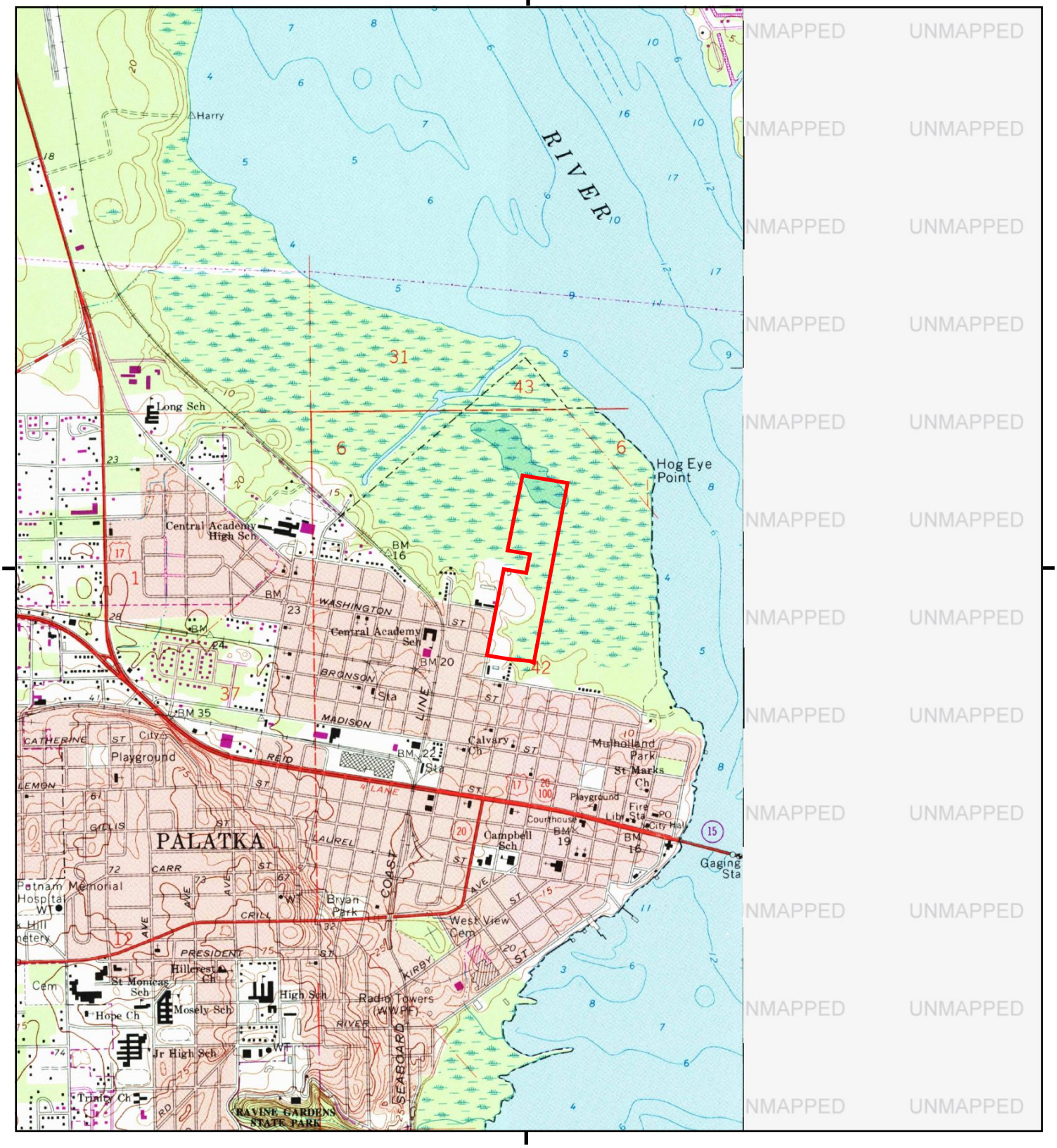
NE, Hastings, 1989, 7.5-minute

SITE NAME: Ocean Street & North 10th Street
ADDRESS: N. 10th Street
Palatka, FL 32177
CLIENT: Ayres Associates

N



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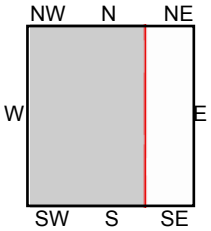


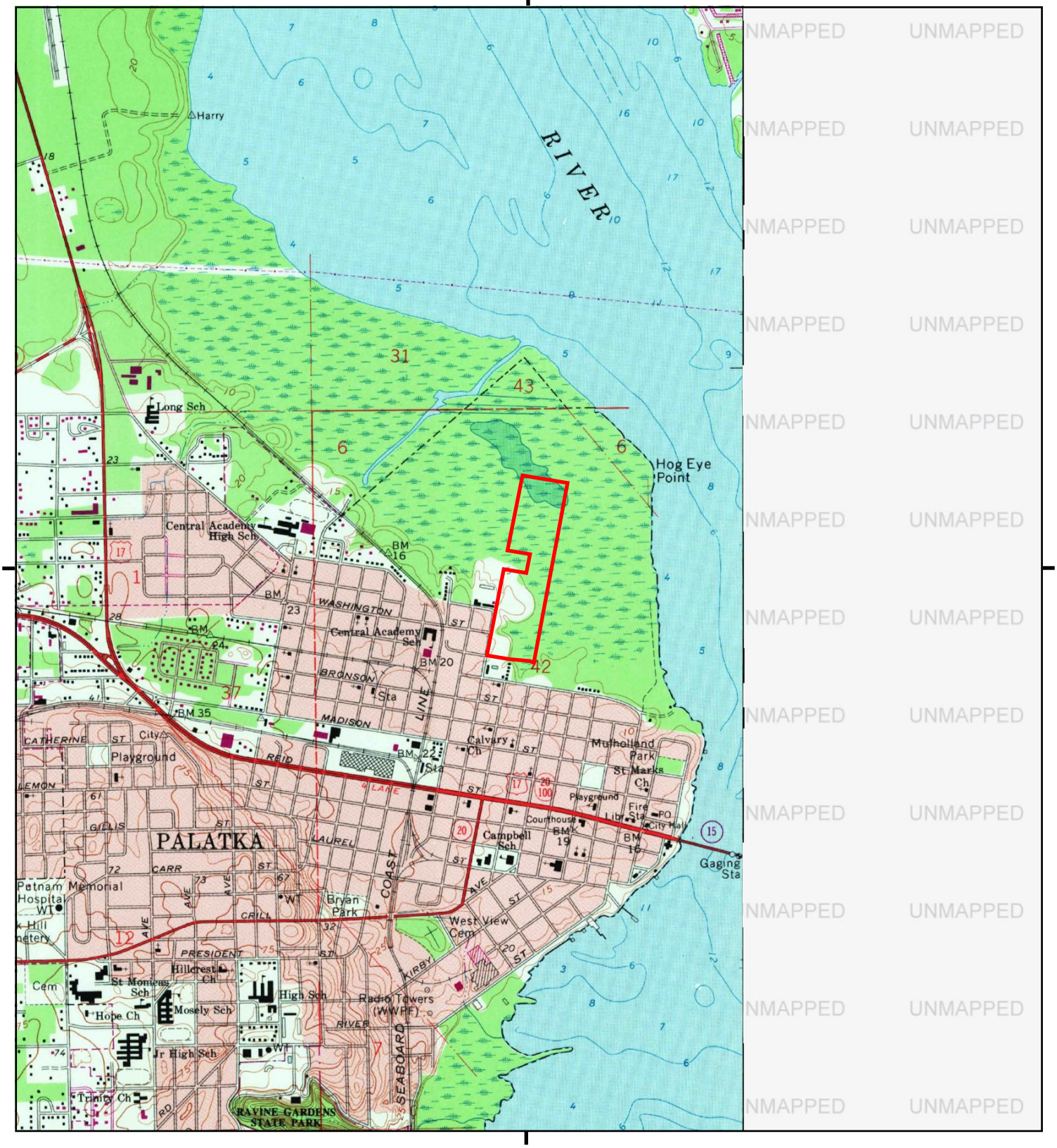
TP, Palatka, 1983, 7.5-minute

SITE NAME: Ocean Street & North 10th Street
ADDRESS: N. 10th Street
Palatka, FL 32177
CLIENT: Ayres Associates

N

Historical Topo Map

1980



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

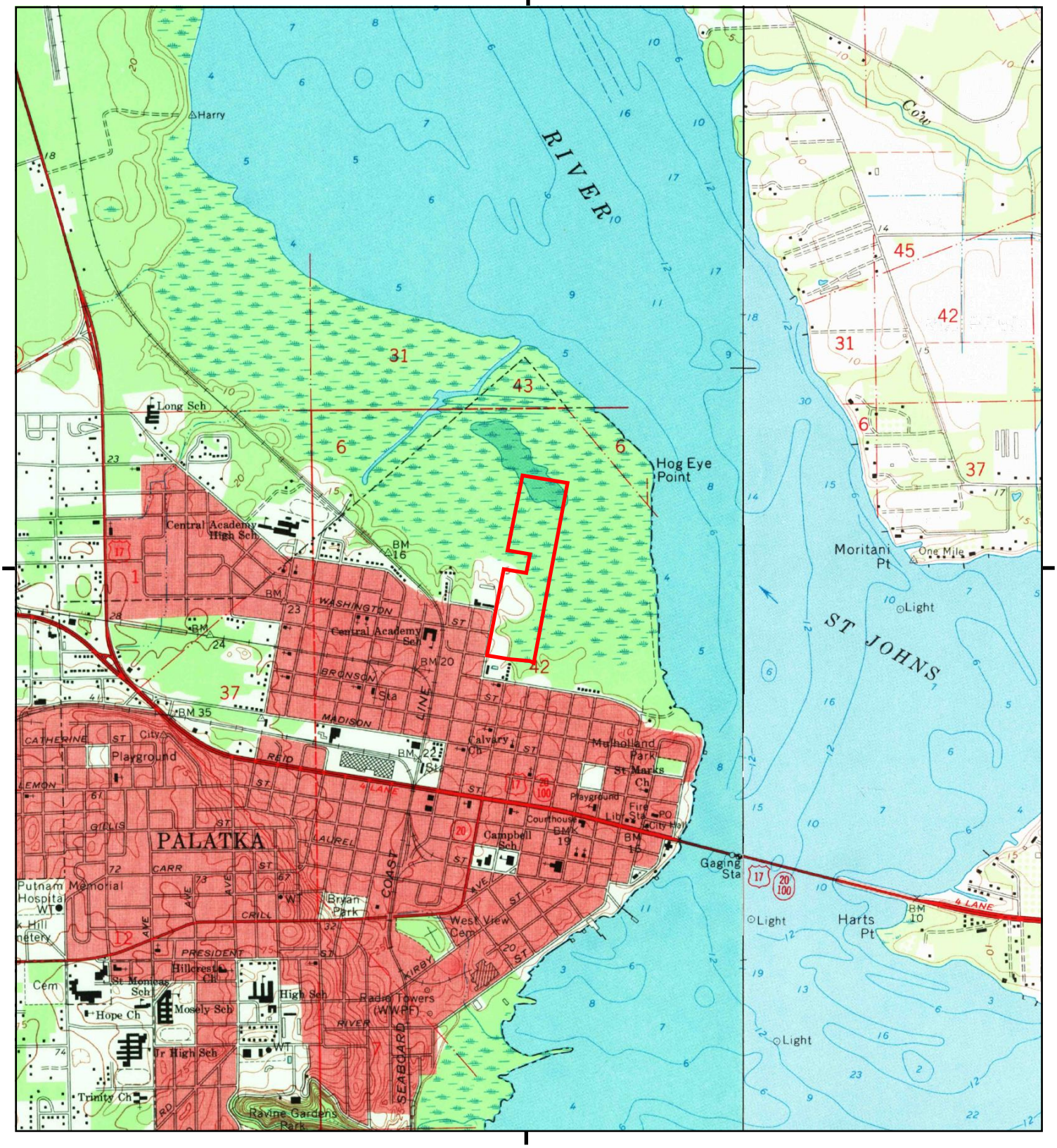
TP, Palatka, 1980, 7.5-minute

SITE NAME: Ocean Street & North 10th Street
ADDRESS: N. 10th Street
Palatka, FL 32177
CLIENT: Ayres Associates

N

Historical Topo Map

1968



This report includes information from the following map sheet(s).

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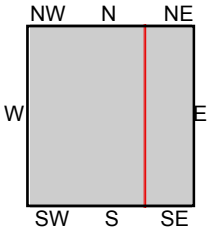


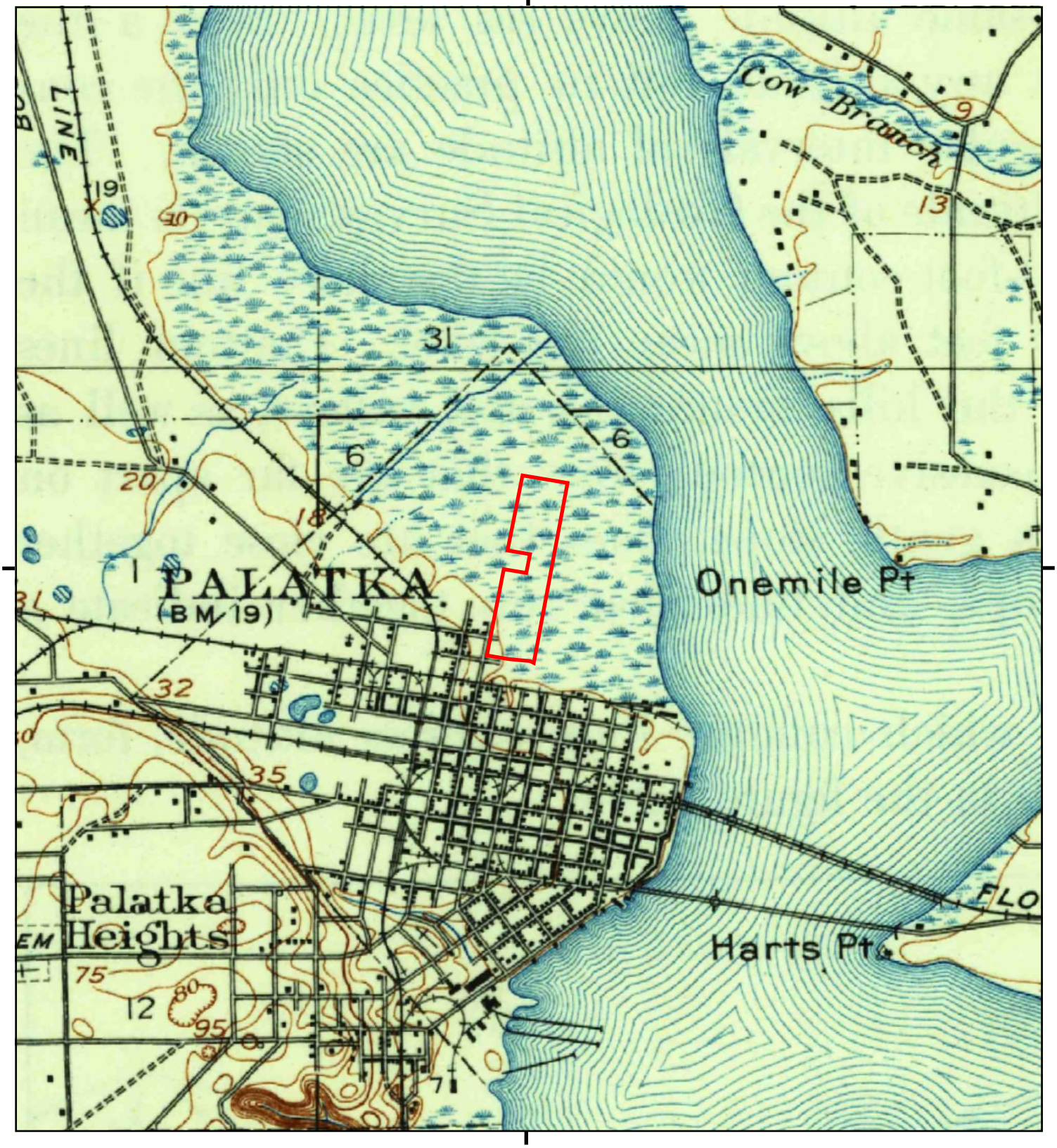
TP, Palatka, 1968, 7.5-minute
NE, Hastings, 1968, 7.5-minute

SITE NAME: Ocean Street & North 10th Street
ADDRESS: N. 10th Street
Palatka, FL 32177
CLIENT: Ayres Associates

N

Historical Topo Map

1915



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

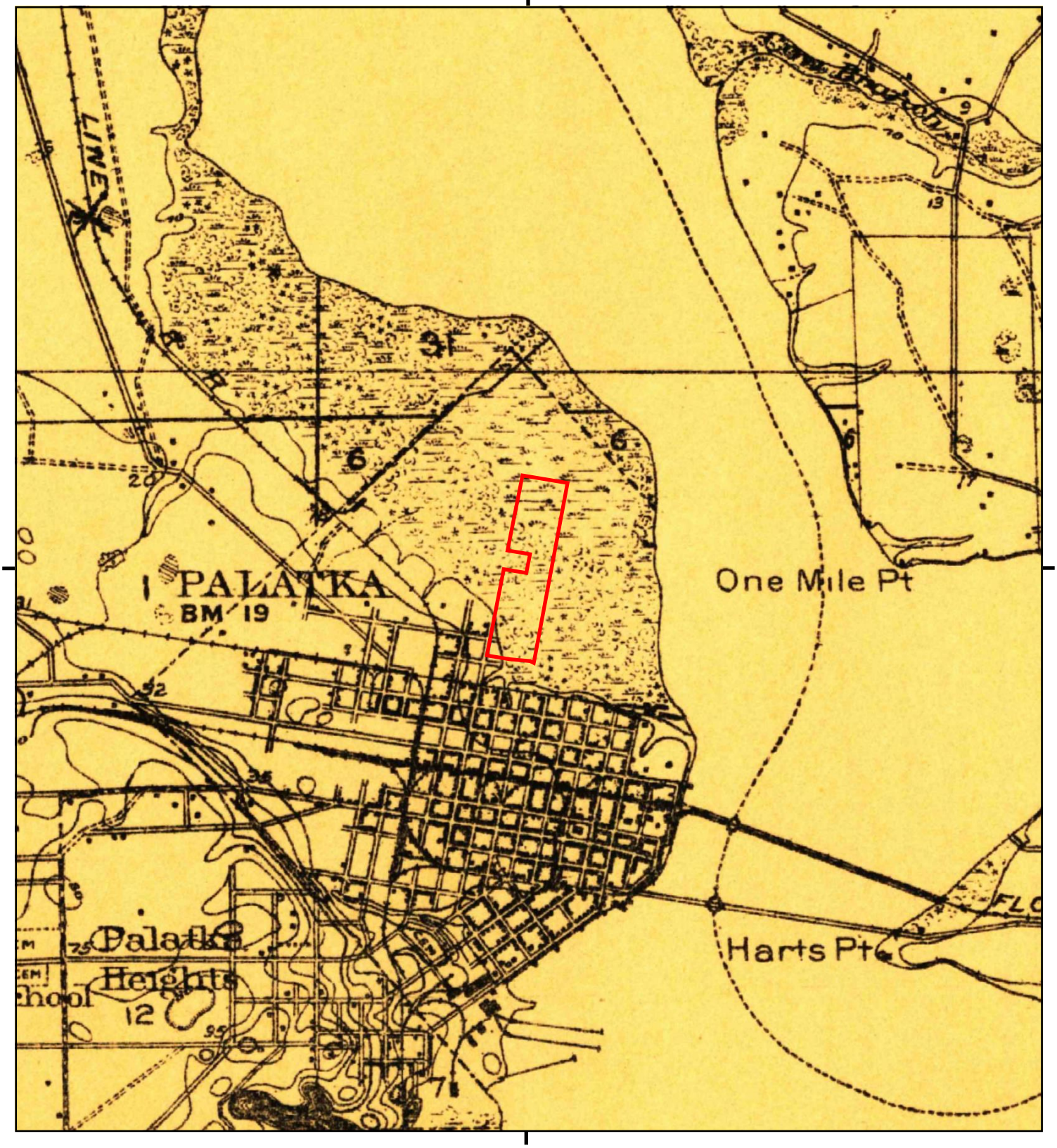
TP, Palatka, 1915, 15-minute

SITE NAME: Ocean Street & North 10th Street
ADDRESS: N. 10th Street
Palatka, FL 32177
CLIENT: Ayres Associates

N

Historical Topo Map

1912



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Palatka, 1912, 15-minute

SITE NAME: Ocean Street & North 10th Street
ADDRESS: N. 10th Street
Palatka, FL 32177
CLIENT: Ayres Associates

N

Ocean Street & North 10th Street

N. 10th Street

Palatka, FL 32177

Inquiry Number: 4692029.13

August 04, 2016

Certified Sanborn® Map Report

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

Certified Sanborn® Map Report

08/04/16

Site Name:

Ocean Street & North 10th Stre
N. 10th Street
Palatka, FL 32177
EDR Inquiry # 4692029.13

Client Name:

Ayres Associates
5201 E. Terrace Drive, Suite 200
Madison, WI 53718
Contact: William Honea

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Ayres Associates were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Certification # 75C8-4DEF-81FA

PO # NA

Project 19-0668.00 Palatka Browfield

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.

Sanborn® Library search results

Certification #: 75C8-4DEF-81FA

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ☑ Library of Congress
- ☑ University Publications of America
- ☑ EDR Private Collection

The Sanborn Library LLC Since 1866™

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Ocean Street & North 10th Street
N. 10th Street
Palatka, FL 32177

Inquiry Number: 4692029.15
August 08, 2016

The EDR-City Directory Image Report

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available city directory data at 5 year intervals.

RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

Year	Target Street	Cross Street	Source
2013	☑	☐	Cole Information Services
2008	☑	☐	Cole Information Services
2003	☑	☐	Cole Information Services
1999	☑	☐	Cole Information Services
1995	☑	☐	Cole Information Services
1992	☑	☐	Cole Information Services
1989	☑	☐	Polk's City Directory
1982	☑	☐	Polk's City Directory
1978	☑	☐	Polk's City Directory
1974	☑	☐	Polk's City Directory
1969	☑	☐	Polk's City Directory
1964	☑	☐	Polk's City Directory
1959	☑	☐	Polk's City Directory
1954	☑	☐	Polk's City Directory
1948	☑	☐	Polk's City Directory
1936	☑	☐	Polk's City Directory

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FINDINGS

TARGET PROPERTY STREET

N. 10th Street
Palatka, FL 32177

Year	*CD Image*	*Source*
N 10TH ST		
2013	pg A1	Cole Information Services
2008	pg A2	Cole Information Services
2003	pg A3	Cole Information Services
1999	pg A4	Cole Information Services
1995	pg A5	Cole Information Services
1992	pg A6	Cole Information Services
1989	pg A7	Polk's City Directory
1982	pg A8	Polk's City Directory
1978	pg A10	Polk's City Directory
1978	pg A9	Polk's City Directory
1974	pg A11	Polk's City Directory
1969	pg A12	Polk's City Directory
1969	pg A13	Polk's City Directory
1964	pg A14	Polk's City Directory
1964	pg A15	Polk's City Directory
1959	pg A16	Polk's City Directory
1959	pg A17	Polk's City Directory
1954	pg A18	Polk's City Directory
1948	pg A19	Polk's City Directory
1948	pg A20	Polk's City Directory
1936	pg A21	Polk's City Directory

FINDINGS

CROSS STREETS

No Cross Streets Identified

City Directory Images

Target Street	Cross Street	Source
✓	-	Cole Information Services

N 10TH ST 2013

109	WAYNE KEENE
118	ARTHUR COLEY
122	AUDREY BOONE
308	VICTORIA JOHNSON
313	CHELSEA MOORE
416	LLOYD CARUTHERS
500	WILLIAM GRINER
507	CLAUDINE TURNER
508	FRANCES WILLIAMS
509	OCCUPANT UNKNOWN
510	ROBER WHITFIELD
511	KIKI WHITE
513	RAY BROWN
518	OCCUPANT UNKNOWN
601	ADELINE GREEN
606	FRED FLOWERS
607	BERTHA NORWOOD
608	TERESA PICKETT
622	JEREMY THORNTON
708	LEONARD MILLER
710	ANNA JOHNSON
812	ELVIRA CHISOLM
818	OBID MACCASKILL
	TIFFANY MCCASKILL
902	OCCUPANT UNKNOWN
904	MICHELLE HENDRITH
908	HAROLD DAVIS

Target Street	Cross Street	Source
✓	-	Cole Information Services

N 10TH ST 2008

109	WAYNE KEENE
118	ARTHUR COLEY
122	HERMAN ROBINSON
308	MICHAEL FOSTER
313	LARCINA MAXWELL
322	CALVARY BAPTIST CHURCH INC
416	LLOYD CARUTHERS
500	LUTHER GRINER
504	LASHONDA RIVERA
507	CLAUDINE TURNER
508	FRANCES WILLIAMS
509	CONSTANCE MCRAE
510	OCCUPANT UNKNOWN
511	ALVIN HALL
513	RAY BROWN
601	ADELINE GREEN
606	FRED FLOWERS
607	BERTHA NORWOOD
608	TERESA PICKETT
613	BETHLEHEM FREE WILL BAPTIST CHURCH
622	VANDINE THORNTON-DAMON
708	LEONARD MILLER
710	MELISSA JOHNSON
812	ELVIRA CHISOLM
818	TAJHUANE ROUNDTREE
902	THOMASINE SMITH
904	ROOSEVELT CANTY
908	HAROLD DAVIS

Target Street	Cross Street	Source
✓	-	Cole Information Services

N 10TH ST 2003

109	WAYNE KEENE
118	ARTHUR COLEY
122	GERALDINE ROBINSON
216	OCCUPANT UNKNOWN
308	PL JOHNSON
	VIKKI JOHNSON
313	EVA GRAY
322	CALVARY BAPTIST CHURCH
	CENTRAL ACADEMY
	OCCUPANT UNKNOWN
500	ANDREW GRINER
504	OCCUPANT UNKNOWN
507	G COHENS
508	FRANCIS WILLIAMS
509	HENRIETTA HAMILTON
510	ROBIN FELLS
511	OCCUPANT UNKNOWN
513	ALLYSON BROWN
606	FRED FLOWERS
607	BERTHA NORWOOD
	OCCUPANT UNKNOWN
613	BTHLHM FREE WILL BPTST CHRCH
	OCCUPANT UNKNOWN
622	VANDINE THORNTON
701	BOOKER TURNER PARK
	OCCUPANT UNKNOWN
708	THEODORE RUTH
710	OCCUPANT UNKNOWN
812	CONSTANCHA CHRISTOPHER
818	JAMES MCCASKILL
908	HAROLD DAVIS

Target Street	Cross Street	Source
✓	-	Cole Information Services

N 10TH ST 1999

122	AARON HARRIS
	GERRY ROBINSON
216	GLADYS THOMAS
308	OCCUPANT UNKNOWN
313	EVA GRAY
314	OCCUPANT UNKNOWN
315	C HOBBS
322	CALVARY BAPTIST CHURCH
500	A GRINER
504	OCCUPANT UNKNOWN
507	OCCUPANT UNKNOWN
508	FRANCES WILLIAMS
509	H HAMILTON
510	ROBIN FELLS
511	ALVIN HALL
606	C SUTTON
607	BERTHA NORWOOD
613	BETHLEHEM FREE WILL BAPTIST CHURCH
622	ROSA GILLEY
708	T RUTH
710	LOIS CHILDS
812	CONSTAN CHRISTOPHER
818	BLANCHE HOWELL
902	EDWARD SMITH
904	OCCUPANT UNKNOWN
908	E DAVIS

Target Street	Cross Street	Source
✓	-	Cole Information Services

N 10TH ST 1995

109	KEENE, RONALD
118	FELLS, SHARON
122	COLEY, RUTH M
216	THOMAS, GLADYS
307	OCCUPANT UNKNOWNN
308	BELTON, FLOSSIE M
313	GRAY, EVA M
314	HOLTON, GEORGE
322	DEMOUY, F
	HABITAT FOR HUMANITY
500	GRINER, A W
504	WILLIAMS, PEARL
507	OCCUPANT UNKNOWNN
508	WILLIAMS, FRANCES L
509	GREEN, IRENE E
510	OCCUPANT UNKNOWNN
511	HALL, ALVIN
513	WILLIAMS, MARY
518	LEE, JAMES
606	FLOWERS, ELLA M
607	NORWOOD, BERTHA M
613	BETHLEHEM FREE WILL BAPTIST
621	OCCUPANT UNKNOWNN
622	GILLEY, ROSA L
	THORNTON, KENNETH
708	RUTH, T R JR
710	CHILDS, LOIS
812	CHRISTOPHER, C
814	OCCUPANT UNKNOWNN
818	MCCASKILL, BLANCHE
902	SMITH, EDWARD J
904	OCCUPANT UNKNOWNN
906	OCCUPANT UNKNOWNN
908	DAVIS, E M

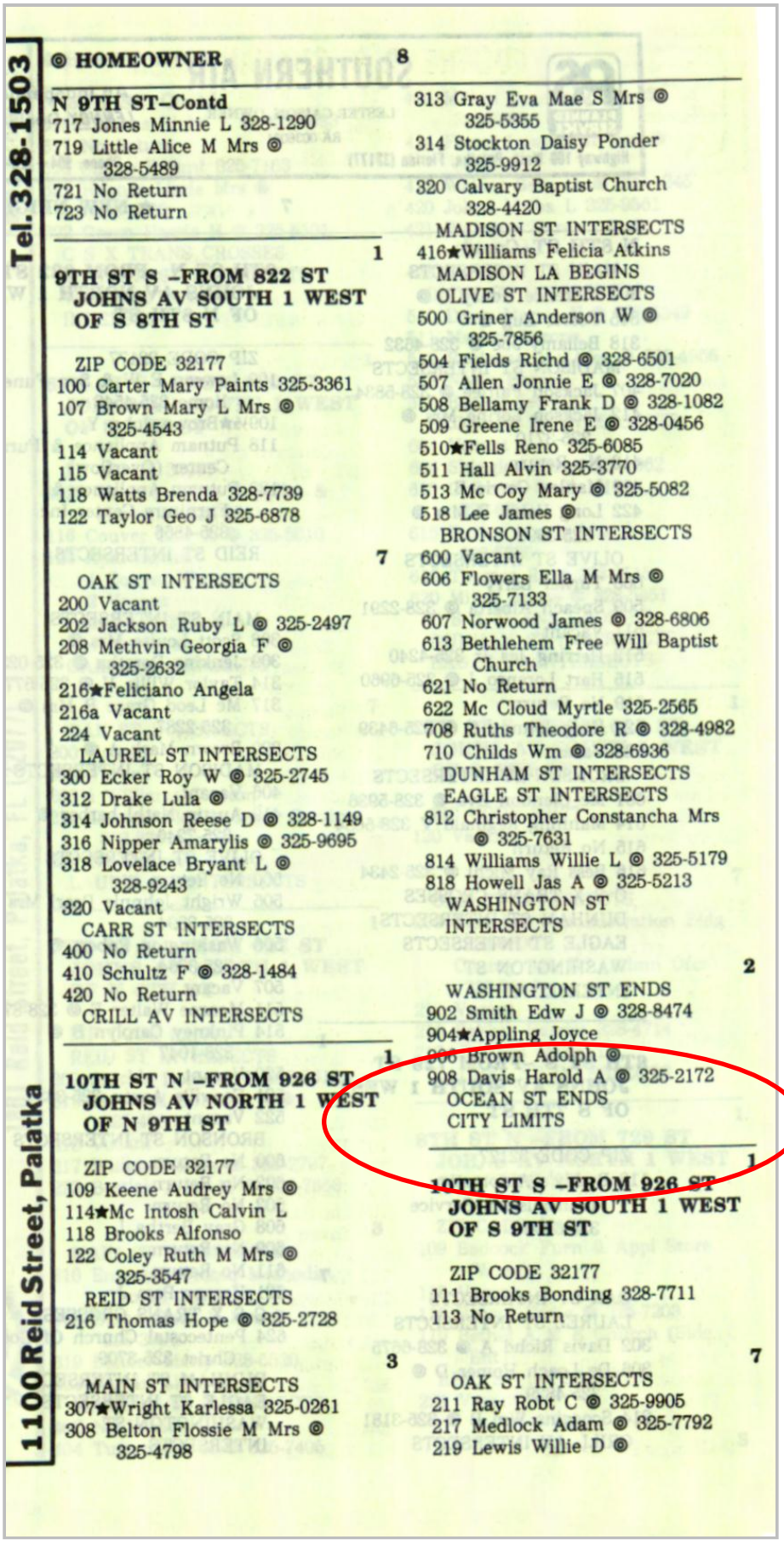
Target Street	Cross Street	Source
✓	-	Cole Information Services

N 10TH ST 1992

109	KEENE, RONALD
122	COLEY, RUTH M
216	THOMAS, GLADYS
307	ELLIS, RON
308	BELTON, FLOSSIE M
313	GRAY, EVA M
314	PONDER, DAISY
322	CALVARY BAPT CHURCH
	CALVARY BAPTIST CH
	HABITAT FOR HMNTY
500	GRINER, A W
504	FIELDS, RICHARD
507	ALLEN, JOHNNIE
509	GREEN, IRENE E
511	HALL, ALVIN
513	WILLIAMS, MARY
606	FLOWERS, ELLA M
607	NORWOOD, BERTHA M
613	BETHLEHEM BAPT CHUR
622	GILLEY, ROSA L
	THORNTON, KENNETH
708	RUTH, T R JR
710	CHILDS, LOIS
812	CHRISTOPHER, C
814	WILLIAMS, WILLIE L
902	SMITH, EDWARD J
908	DAVIS, E M

Target Street	Cross Street	Source
✓	-	Polk's City Directory

N 10TH ST 1989



Tel. 328-1503

1100 Reid Street, Palatka

◎ HOMEOWNER

8

N 9TH ST–Contd
717 Jones Minnie L 328-1290
719 Little Alice M Mrs ◎ 328-5489
721 No Return
723 No Return

1

9TH ST S –FROM 822 ST JOHNS AV SOUTH 1 WEST OF S 8TH ST

ZIP CODE 32177
100 Carter Mary Paints 325-3361
107 Brown Mary L Mrs ◎ 325-4543
114 Vacant
115 Vacant
118 Watts Brenda 328-7739
122 Taylor Geo J 325-6878

7

OAK ST INTERSECTS
200 Vacant
202 Jackson Ruby L ◎ 325-2497
208 Methvin Georgia F ◎ 325-2632
216★Feliciano Angela
216a Vacant
224 Vacant
LAUREL ST INTERSECTS
300 Ecker Roy W ◎ 325-2745
312 Drake Lula ◎
314 Johnson Reese D ◎ 328-1149
316 Nipper Amarylis ◎ 325-9695
318 Lovelace Bryant L ◎ 328-9243
320 Vacant
CARR ST INTERSECTS
400 No Return
410 Schultz F ◎ 328-1484
420 No Return
CRILL AV INTERSECTS

1

10TH ST N –FROM 926 ST JOHNS AV NORTH 1 WEST OF N 9TH ST

ZIP CODE 32177
109 Keene Audrey Mrs ◎
114★Mc Intosh Calvin L
118 Brooks Alfonso
122 Coley Ruth M Mrs ◎ 325-3547
REID ST INTERSECTS
216 Thomas Hope ◎ 325-2728

3

MAIN ST INTERSECTS
307★Wright Karlessa 325-0261
308 Belton Flossie M Mrs ◎ 325-4798
313 Gray Eva Mae S Mrs ◎ 325-5355
314 Stockton Daisy Ponder 325-9912
320 Calvary Baptist Church 328-4420
MADISON ST INTERSECTS
416★Williams Felicia Atkins
MADISON LA BEGINS
OLIVE ST INTERSECTS
500 Griner Anderson W ◎ 325-7856
504 Fields Richd ◎ 328-6501
507 Allen Jonnie E ◎ 328-7020
508 Bellamy Frank D ◎ 328-1082
509 Greene Irene E ◎ 328-0456
510★Fells Reno 325-6085
511 Hall Alvin 325-3770
513 Mc Coy Mary ◎ 325-5082
518 Lee James ◎
BRONSON ST INTERSECTS

7

600 Vacant
606 Flowers Ella M Mrs ◎ 325-7133
607 Norwood James ◎ 328-6806
613 Bethlehem Free Will Baptist Church
621 No Return
622 Mc Cloud Myrtle 325-2565
708 Ruths Theodore R ◎ 328-4982
710 Childs Wm ◎ 328-6936
DUNHAM ST INTERSECTS
EAGLE ST INTERSECTS
812 Christopher Constancha Mrs ◎ 325-7631
814 Williams Willie L ◎ 325-5179
818 Howell Jas A ◎ 325-5213
WASHINGTON ST INTERSECTS

2

WASHINGTON ST ENDS
902 Smith Edw J ◎ 328-8474
904★Appling Joyce
906 Brown Adolph ◎
908 Davis Harold A ◎ 325-2172
OCEAN ST ENDS
CITY LIMITS

1

10TH ST S –FROM 926 ST JOHNS AV SOUTH 1 WEST OF S 9TH ST

ZIP CODE 32177
111 Brooks Bonding 328-7711
113 No Return

7

OAK ST INTERSECTS
211 Ray Robt C ◎ 325-9905
217 Medlock Adam ◎ 325-7792
219 Lewis Willie D ◎

Target Street	Cross Street	Source
✓	-	Polk's City Directory

N 10TH ST 1982

1

10TH ST N —FROM 926 ST JOHNS AV NORTH 1 WEST OF N 9TH ST

ZIP CODE 32077
109 Keene Audrey Mrs ◎
113 Stafford Jasper C 328-4150
114★Showes Mae H Mrs ◎ 328-3179
115★Daniels Delores 328-7059
118 Robinson Herman ◎ 328-3114
122 Coley Ruth M Mrs ◎ 325-3547
★Esau Marin
REID ST INTERSECTS
201 Boyd Da & Son Funeral Home (Side Entrance)
213 Wells Jimmie 328-6870
216 Thomas Hope ◎ 325-2728
221 Anderson Mary
225 Vacant
227 Vacant

3

MAIN ST INTERSECTS
307 Manning Doris M ◎ 325-3472
308 Belton Flossie M Mrs ◎ 325-4798
312 Terrell Viola Mrs 328-4087
313 Gray Leonard ◎ 325-5355
314 Stockton Daisy Ponder 325-9912
317★Matthews Lillian ◎
320 Calvary Baptist Church 328-4420
416 Wiggins Crill S ◎ 325-7253
MADISON ST INTERSECTS
MADISON LA BEGINS
OLIVE ST INTERSECTS
500 Griner Anderson W ◎ 325-7856
504 Fields Richd ◎ 328-6501
505 Williams Mary M Mrs ◎
507★Bibbins Johnny
508 Lewis John Jr 328-6430
509 Walker Ruth Mrs 325-5476
511 Milton Patricia 325-7886
513 Mc Coy Mera 325-5082
518 Lee James ◎
522 Vacant
BRONSON ST INTERSECTS
600 Zanders Ever L Mrs ◎ 325-2633
606★Flowers Ella M ◎ 325-7133
607 Norwood James ◎ 328-3368
613 Bethlehem Free Will Baptist Church
621 Felder James ◎
622 Bolling Bella ◎ 328-2565
708 Ruth Theo Jr ◎ 328-4982
710 Robinson Lois Mrs ◎ 328-6936
DUNHAM ST INTERSECTS
EAGLE ST INTERSECTS
812 Christopher Constancha Mrs ◎ 325-7631
814 Williams Willie L ◎ 325-5179
818 Howell Blanche Mrs ◎ 325-5483
WASHINGTON ST INTERSECTS

2

OCEAN ST INTERSECTS
902 Smith Edw J ◎ 328-8474
904 Baker Carolyn H Mrs ◎ 328-5926
906 Brown Adolph ◎ 328-7156
908 Davis Harold ◎ 325-2172
NAPOLEON ST INTERSECTS
City Dump
CITY LIMITS

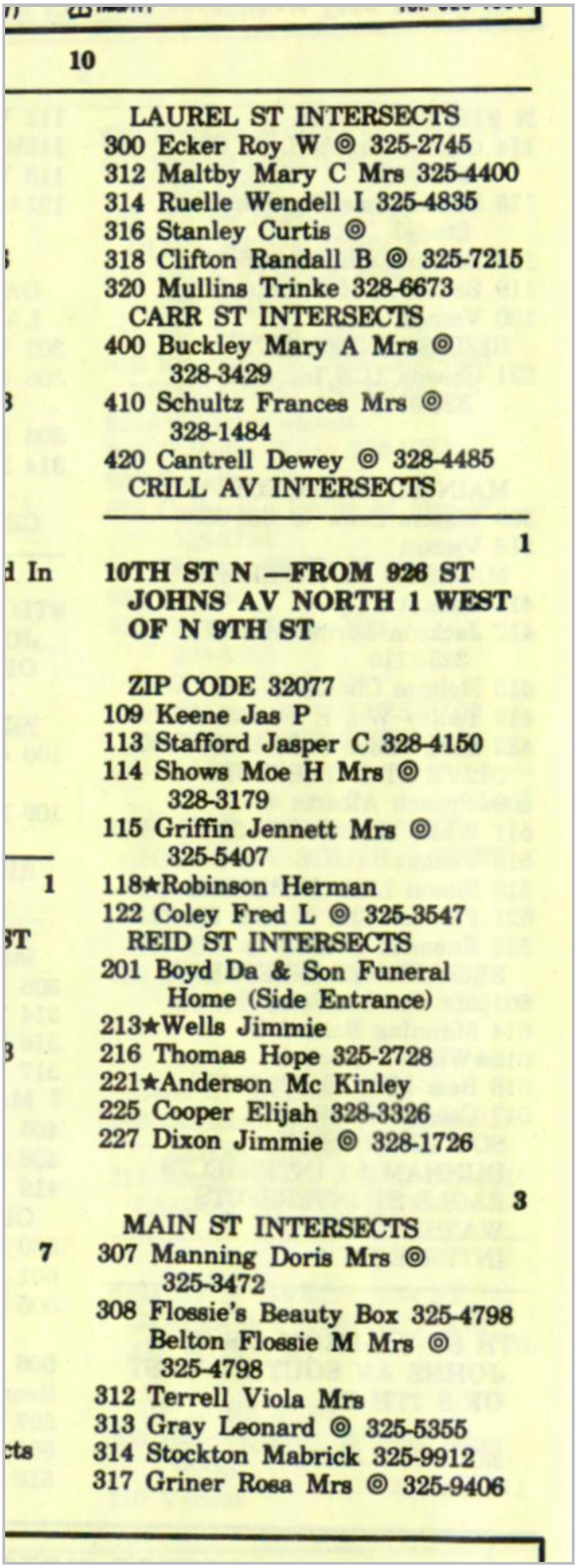
1

10TH ST S —FROM 926 ST JOHNS AV SOUTH 1 WEST OF S 9TH ST

ZIP CODE 32077
106 Valentine Ernest ◎
111 Palatka Printing Co Inc 328-1955
Webb-Westbury Associates public relations counselors 325-5051
112★Cooper Charles
112½ Banks Pricilla

Target Street	Cross Street	Source
✓	-	Polk's City Directory

N 10TH ST 1978



10

LAUREL ST INTERSECTS
300 Ecker Roy W ◎ 325-2745
312 Maltby Mary C Mrs 325-4400
314 Ruelle Wendell I 325-4835
316 Stanley Curtis ◎
318 Clifton Randall B ◎ 325-7215
320 Mullins Trinke 328-6673
CARR ST INTERSECTS
400 Buckley Mary A Mrs ◎ 328-3429
410 Schultz Frances Mrs ◎ 328-1484
420 Cantrell Dewey ◎ 328-4485
CRILL AV INTERSECTS

1

10TH ST N —FROM 926 ST JOHNS AV NORTH 1 WEST OF N 9TH ST

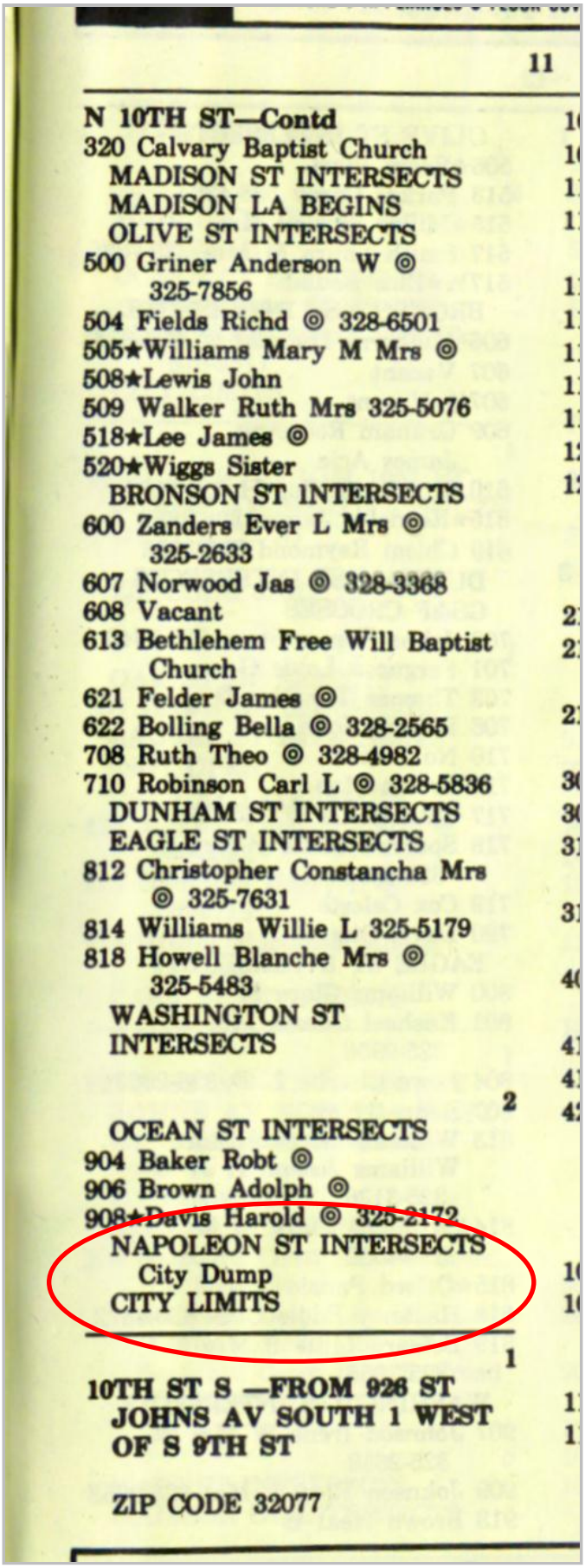
ZIP CODE 32077
109 Keene Jas P
113 Stafford Jasper C 328-4150
114 Shows Moe H Mrs ◎ 328-3179
115 Griffin Jennett Mrs ◎ 325-5407
118★Robinson Herman
122 Coley Fred L ◎ 325-3547
REID ST INTERSECTS
201 Boyd Da & Son Funeral Home (Side Entrance)
213★Wells Jimmie
216 Thomas Hope 325-2728
221★Anderson Mc Kinley
225 Cooper Elijah 328-3326
227 Dixon Jimmie ◎ 328-1726

3

MAIN ST INTERSECTS
307 Manning Doris Mrs ◎ 325-3472
308 Flossie's Beauty Box 325-4798
Belton Flossie M Mrs ◎ 325-4798
312 Terrell Viola Mrs
313 Gray Leonard ◎ 325-5355
314 Stockton Mabrick 325-9912
317 Griner Rosa Mrs ◎ 325-9406

Target Street	Cross Street	Source
✓	-	Polk's City Directory

N 10TH ST 1978



11

N 10TH ST—Contd
320 Calvary Baptist Church
MADISON ST INTERSECTS
MADISON LA BEGINS
OLIVE ST INTERSECTS
500 Griner Anderson W ◎ 325-7856
504 Fields Richd ◎ 328-6501
505★Williams Mary M Mrs ◎
508★Lewis John
509 Walker Ruth Mrs 325-5076
518★Lee James ◎
520★Wiggs Sister
BRONSON ST INTERSECTS
600 Zanders Ever L Mrs ◎ 325-2633
607 Norwood Jas ◎ 328-3368
608 Vacant
613 Bethlehem Free Will Baptist Church
621 Felder James ◎
622 Bolling Bella ◎ 328-2565
708 Ruth Theo ◎ 328-4982
710 Robinson Carl L ◎ 328-5836
DUNHAM ST INTERSECTS
EAGLE ST INTERSECTS
812 Christopher Constancha Mrs ◎ 325-7631
814 Williams Willie L 325-5179
818 Howell Blanche Mrs ◎ 325-5483
WASHINGTON ST INTERSECTS

2

OCEAN ST INTERSECTS
904 Baker Robt ◎
906 Brown Adolph ◎
908★Davis Harold ◎ 325-2172
NAPOLEON ST INTERSECTS
City Dump
CITY LIMITS

1

10TH ST S —FROM 926 ST JOHNS AV SOUTH 1 WEST OF S 9TH ST

ZIP CODE 32077

Target Street	Cross Street	Source
✓	-	Polk's City Directory

N 10TH ST 1974

S 9TH ST—Contd
420 Cantrell Dewey ◎ 328-4485
CRILL AV INTERSECTS

1

10TH ST N —FROM 926 ST JOHNS AV NORTH 1 WEST OF N 9TH ST

ZIP CODE 32077
109 Keene James P ◎
113 ★ Stafford J C 328-4150
114 Showes Willie ◎ 328-3179
115 Griffin Jennett Mrs ◎ 325-5407
118 Brown Robt
122 Coley Fred L ◎ 325-3547
REID ST INTERSECTS
201 Boyd Da & Son Funeral Home (Side Entrance)
213 Sherman Gillis L
216 Thomas Hope 325-2728
221 Vacant
225 Cooper Eljiah 328-3326
227 Dixon Jimmie ◎ 328-1726
227½ ★ Anderson Mc Kinley

3

MAIN ST INTERSECTS
307 Manning Doris Mrs ◎ 325-3472
308 Flossie's Beauty Box 325-4798
Belton Wilbert C ◎ 325-4798
312 Terrell Viola Mrs
313 Gray Leonard ◎ 325-5355
314 Stockton Daisy 325-9912
317 ★ Griner Rosa Mrs ◎
320 Calvary Baptist Church
MADISON ST INTERSECTS
MADISON LA BEGINS
413 Fields Thos
419 ★ Flowers Edw
OLIVE ST INTERSECTS
500 ★ Griner Anderson W 325-7856
504 Johnson Earnestine Mrs ◎ 325-2142
509 ★ Walker Ruth Mrs ◎ 325-5076
518 Vacant
522 Wiggs David
BRONSON ST INTERSECTS
600 Zanders Ever L Mrs ◎ 325-2633
601 Leonard Tom H
607 Robinson Emanuel L ◎
608 ★ Cobbs Myles ◎ 328-4160
613 Bethlehem Free Will Baptist Church
621 ★ Felder James
622 Bolling Bella ◎ 328-2565
Mc Cloud Myrtle F Mrs 328-2565
708 ★ Ruth Theo ◎ 328-4982
710 Robinson Carl L ◎ 325-5512
DUNHAM ST INTERSECTS
EAGLE ST INTERSECTS
812 Christopher Constancha Mrs ◎ 325-7631
814 Williams Willie L 325-5179
818 ★ Howell Blanche Mrs ◎ 325-5483
WASHINGTON ST INTERSECTS

5

OCEAN ST INTERSECTS
City Dump
904 Baker Carolyn Mrs ◎ 328-4355
906 Brown Adolph ◎
908 Mack Eliz Mrs ◎ 325-2172
NAPOLEON ST INTERSECTS
CITY LIMITS

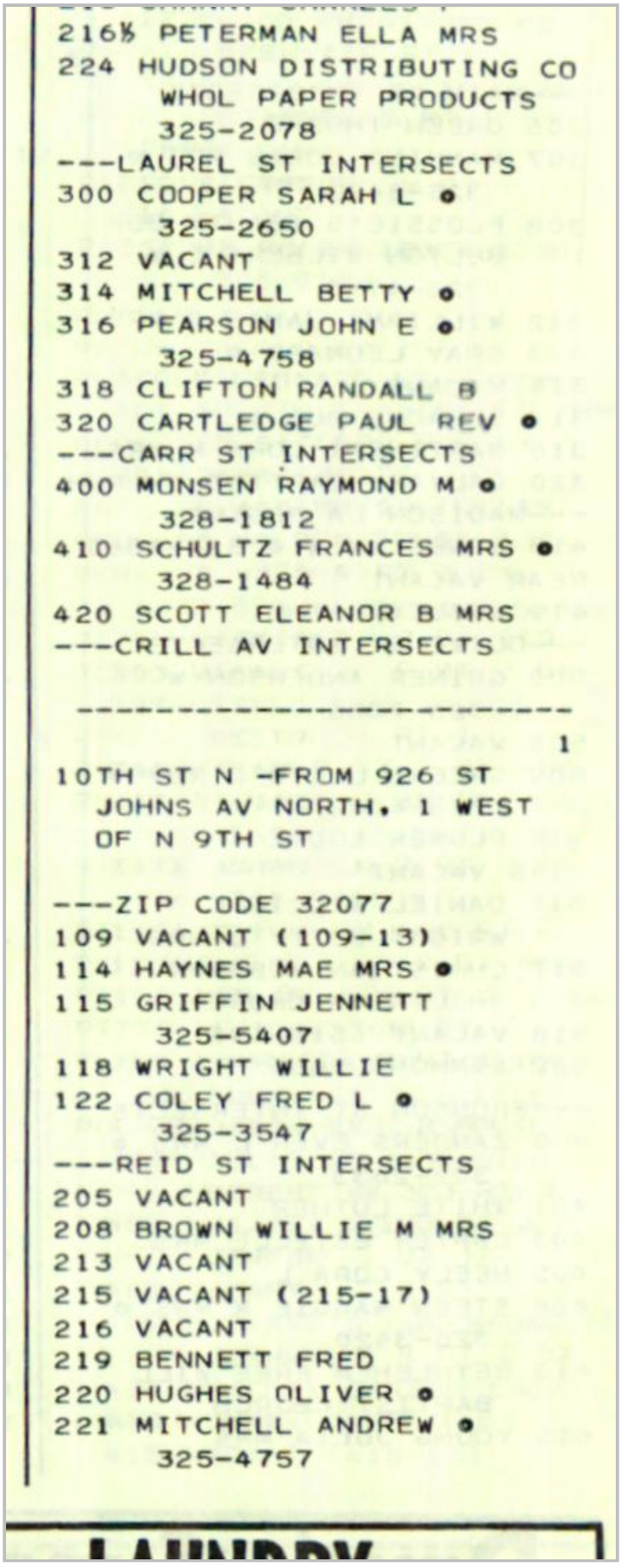
1

10TH ST S —FROM 926 ST JOHNS AV SOUTH 1 WEST OF S 9TH ST

ZIP CODE 32077
106 Davis Ulysesses
108 ★ Rice Beulah
110 Chester Henri Ann
111 Palatka Printing Inc 328-1955
112 ★ Eubanks Robt
112½ No Return
113 Bunch Clarence
113½ Hunter Danl

Target Street	Cross Street	Source
✓	-	Polk's City Directory

N 10TH ST 1969



216½ PETERMAN ELLA MRS
224 HUDSON DISTRIBUTING CO
WHOL PAPER PRODUCTS
325-2078
---LAUREL ST INTERSECTS
300 COOPER SARAH L ●
325-2650
312 VACANT
314 MITCHELL BETTY ●
316 PEARSON JOHN E ●
325-4758
318 CLIFTON RANDALL B
320 CARTLEDGE PAUL REV ●
---CARR ST INTERSECTS
400 MONSEN RAYMOND M ●
328-1812
410 SCHULTZ FRANCES MRS ●
328-1484
420 SCOTT ELEANOR B MRS
---CRILL AV INTERSECTS

1

10TH ST N -FROM 926 ST
JOHNS AV NORTH, 1 WEST
OF N 9TH ST

---ZIP CODE 32077
109 VACANT (109-13)
114 HAYNES MAE MRS ●
115 GRIFFIN JENNETT
325-5407
118 WRIGHT WILLIE
122 COLEY FRED L ●
325-3547
---REID ST INTERSECTS
205 VACANT
208 BROWN WILLIE M MRS
213 VACANT
215 VACANT (215-17)
216 VACANT
219 BENNETT FRED
220 HUGHES OLIVER ●
221 MITCHELL ANDREW ●
325-4757

LAUNDRY

Target Street	Cross Street	Source
✓	-	Polk's City Directory

N 10TH ST 1969

10TH ST N--CONTD
222 VACANT
223 BENNETT M C
225 NO RETURN
227 WILLIAMS RACHEL D MRS
• 328-1726
227½ TAYLOR RUBY
229 VACANT

3

---MAIN ST INTERSECTS
306 GREEN THOS E
307 MANNING DORIS MRS •
325-3472
308 FLOSSIE'S BEAUTY BOX
BELTON WILBERT C •
325-4798
312 WILLIAMS JANIE G MRS
313 GRAY LEONARD •
314 VACANT
317 SERMONS BUD •
318 MARTINETI CORA M MRS
320 CALVARY BAPTIST CHURCH
---MADISON LA BEGINS
413 JONES WM M • 325-4860
REAR VACANT
419 WESLEY NATHL
---OLIVE ST INTERSECTS
500 GRINER ANDERSON W
325-7856
505 VACANT
509 GREENE LLOYD D REV •
325-4082
514 PLUMER EDDIE
514½ VACANT
515 DANIEL WILLIE C
WRIGHT BETTY L MRS
517 CHRISTIAN MISSION
HOLINESS CHURCH
518 VACANT (518-19)
522 SIMMONS MOSE
---BRONSON ST INTERSECTS
600 ZANDERS EVER L MRS •
325-2633
601 WHITE LUTHER
603 CARTER ESTELLE MRS
605 NEELY CORA L
608 STEEN MAGGIE W MRS •
325-3420
613 BETHLEHEM FREE WILL
BAPTIST CHURCH
615 YOUNG JULIA MRS
617 BROWN MALACHI REV
325-2052
621 CALHOUN SAML
622 BOLLING BELLA •
328-2565
MC CLOUD MYRTLE F MRS
328-2565
---SOU RR CROSSES
---DUNHAM ST INTERSECTS
708 DAVIS ALMA MRS
328-1227
715 CITY NEGRO RECREATION
CENTER 328-1684
BOOKER AUDITORIUM
328-1684
---EAGLE ST INTERSECTS
812 CHRISTOPHER EPHRAM •
325-7631
814 VACANT
818 MC CASKILL BLANCHE MRS
• 325-5483
---WASHINGTON ST
INTERSECTS

5

---OCEAN ST INTERSECTS
CITY INCINERATOR
---NAPOLEON ST INTERSECTS
---CITY LIMITS

1

10TH ST S -FROM 926 ST
JOHNS AV SOUTH, 1 WEST
OF S 9TH ST

---ZIP CODE 32077
106 LAMAN LENA
108 VACANT (108-10)
110 CAMERON DOUGLAS M BLDG
CONTR
111 STERLING VENDING CO
325-3804
112 COOK ALICE MRS
112½ VACANT
113 ROBERTSON JAMES H
113½ HOWARD WARREN
114 HOFFMAN EUG
116 WILSON LAWRENCE V
118 VACANT
120 PETERSON JOHN
122 MC CLOUD IDA 325-3267

Target Street	Cross Street	Source
✓	-	Polk's City Directory

N 10TH ST 1964

9th S—Contd
123 **Miller Apartments**
1 Woods Amanda M Mrs 325-7970
(For other occupants see 822 Oak)
7

Oak intersects
200 Milzer Geo F
202 Ericson Ruby K Mrs ◎
208 Methvin Lucious G 325-2632
208½ Methvin Benny
216 Chaney Chas
216½ Peterman Ella Mrs
224 Blake's Inc candy 325-3715
Laurel intersects
300 Cooper Sarah L ◎ 325-2650
312 Yates Robt L
314 Williams Chas
316 Pearson John E ◎ 325-4758
318 Clifton Randall B 325-2723
320 Townsend Emory W ◎ 328-1238
Carr intersects
400 Bembry John 328-2166
410 Schultz Frances Mrs ◎ 328-1484
420 Bostick Henry C 325-5837
Crill av intersects
1

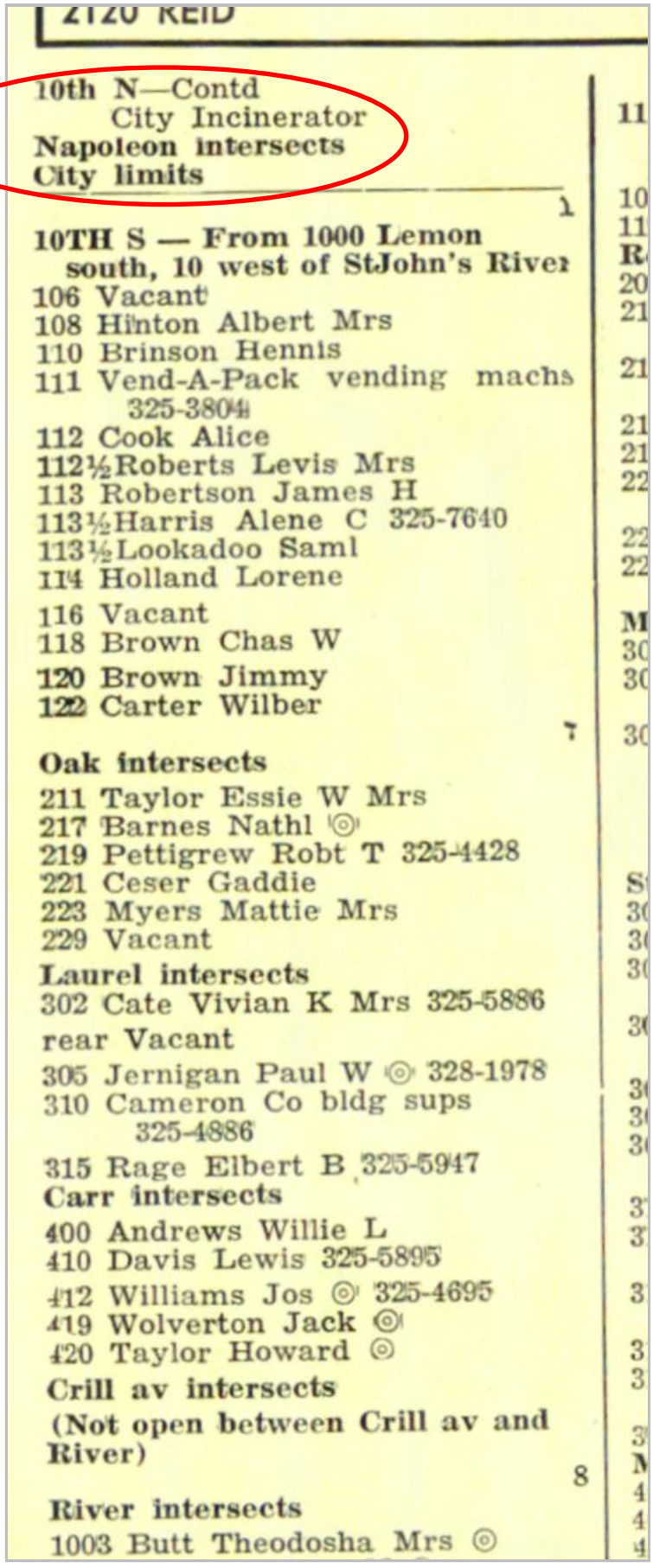
10TH N — From 1000 Lemon north, 10 west of StJohns River
109 Elec Iron Hosp 325-4083
113 Glisson Bessie Mrs 325-4824
114 Hynes Mae Mrs ◎
115 Griffin Jeanette Mrs
118 Henderson Quincey 325-7069
122 Coley Fred L ◎ 325-3547
Coley Fannie Mrs nurse
Reid intersects
205 Peterson Maria Mrs ◎ 328-1259
208 Brown Willie M Mrs
208½ Thomas Hope
213 Vacant
214½ Neely Wm
215 Willingham Lula Mrs ◎ 325-7104
216 Williams Pearl 325-4548
217 Vacant
219 Oxendine Etta J Mrs ◎
220 Hughes Oliver
221 Mitchell Andrew 325-4757
222 Barber Alonzo
223 Vacant
225 Chester Charlie Shoe Co sls
Moody Cason I
227 Williams Rachel D Mrs ◎ 328-1726
3

Main intersects
306 Green Thos E
307 Manning Doris Mrs ◎ 325-3472
308 Belton Wilbert C ◎ 325-4798
Flossie's Beauty Box
311 Vacant
312 Williams Janie G Mrs
313 Gray Leonard ◎
314 Martineti Cora M Mrs ◎
317 Griner Rosa L Mrs ◎ 325-7856
318 Mathis Adele S Mrs ◎ 325-7960
320 Calvary Bapt Church
Madison intersects
413 Jones Wm M ◎ 325-4860
rear Hennom Ozel
419 Hope Bernice
Olive intersects
500 Thomas Hattie H Mrs ◎ 325-2704
504-04½ Vacant
505 Milton Lucy Mrs
509 Green Lloyd D Rev ◎ 325-4082
Irene's Beauty Shop
514 Dunkins Juanita Mrs
514½ Vacant
515 Smith Ottis
517-19 Royal King's Hall
StLuke's Lodge No 1 (Roy-King)
Scottish Rite No (AFAM) (Royal King Soc)
518 Stewart Verdell Mrs
519 Central Life Ins Co
522 Brooks Roosevelt
Bronson intersects
600 Zanders Eva L Mrs 325-2633
601 Boynton Leroy ◎
602 Beaufort Inez
603 Transients
605 Thomas Jas
607 Pierce Percy
608 Steen Wm ◎ 325-3420
612 Vacant
613 Christian Free Will Bapt Church
615 Brown Malachi Rev 325-2052
617 Graham Janie Mrs ◎
621 Vacant
CS&F crosses
Dunham intersects
708 Davis Alma Mrs
715 Booker's Auditorium 325-7317
Eagle intersects
812 Christopher Ephram ◎ 325-7631
814 Williams Arth L ◎ 325-5179
818 Bartley Wm
Washington intersects
5

Ocean intersects

Target Street	Cross Street	Source
✓	-	Polk's City Directory

N 10TH ST 1964



2120 REID

10th N—Contd
City Incinerator
Napoleon intersects
City limits

10TH S — From 1000 Lemon south, 10 west of StJohn's River
106 Vacant
108 Hinton Albert Mrs
110 Brinson Hennis
111 Vend-A-Pack vending machs 325-3804
112 Cook Alice
112½ Roberts Levis Mrs
113 Robertson James H
113½ Harris Alene C 325-7640
113½ Lookadoo Saml
114 Holland Lorene
116 Vacant
118 Brown Chas W
120 Brown Jimmy
122 Carter Wilber

Oak intersects
211 Taylor Essie W Mrs
217 Barnes Nathl
219 Pettigrew Robt T 325-4428
221 Ceser Gaddie
223 Myers Mattie Mrs
229 Vacant

Laurel intersects
302 Cate Vivian K Mrs 325-5886
rear Vacant
305 Jernigan Paul W 328-1978
310 Cameron Co bldg sups 325-4886
315 Rage Elbert B 325-5947

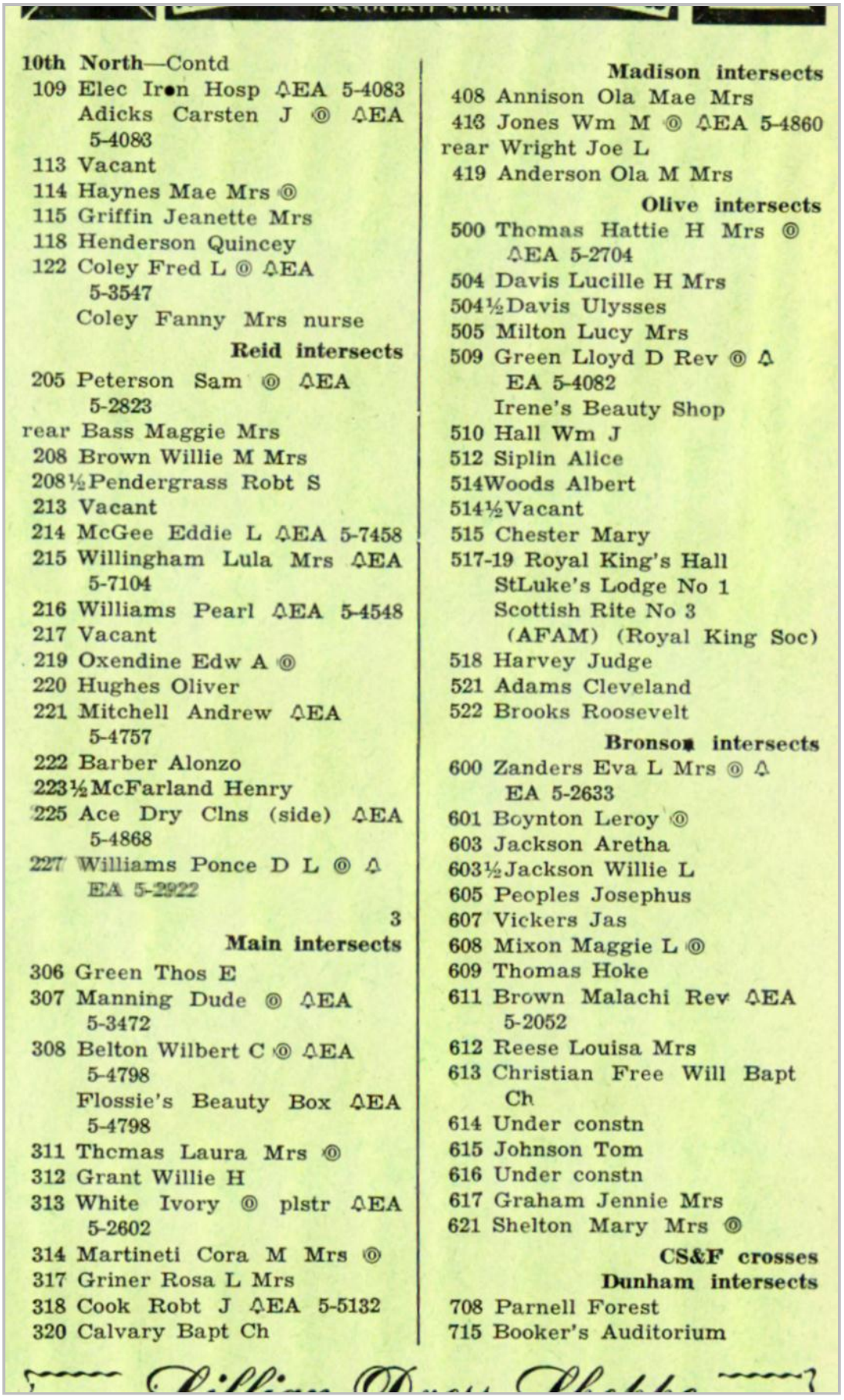
Carr intersects
400 Andrews Willie L
410 Davis Lewis 325-5895
412 Williams Jos 325-4695
419 Wolverton Jack
420 Taylor Howard

Crill av intersects
(Not open between Crill av and River)

River intersects
1003 Butt Theodosha Mrs

Target Street	Cross Street	Source
✓	-	Polk's City Directory

N 10TH ST 1959



10th North—Contd
109 Elec Iron Hosp ΔEA 5-4083
Adicks Carsten J ⓞ ΔEA 5-4083
113 Vacant
114 Haynes Mae Mrs ⓞ
115 Griffin Jeanette Mrs
118 Henderson Quincey
122 Coley Fred L ⓞ ΔEA 5-3547
Coley Fanny Mrs nurse

Reid intersects

205 Peterson Sam ⓞ ΔEA 5-2823
rear Bass Maggie Mrs
208 Brown Willie M Mrs
208½ Pendergrass Robt S
213 Vacant
214 McGee Eddie L ΔEA 5-7458
215 Willingham Lula Mrs ΔEA 5-7104
216 Williams Pearl ΔEA 5-4548
217 Vacant
219 Oxendine Edw A ⓞ
220 Hughes Oliver
221 Mitchell Andrew ΔEA 5-4757
222 Barber Alonzo
223½ McFarland Henry
225 Ace Dry Clns (side) ΔEA 5-4868
227 Williams Ponce D L ⓞ Δ EA 5-2922

3

Main intersects

306 Green Thos E
307 Manning Dude ⓞ ΔEA 5-3472
308 Belton Wilbert C ⓞ ΔEA 5-4798
Flossie's Beauty Box ΔEA 5-4798
311 Thomas Laura Mrs ⓞ
312 Grant Willie H
313 White Ivory ⓞ plstr ΔEA 5-2602
314 Martineti Cora M Mrs ⓞ
317 Griner Rosa L Mrs
318 Cook Robt J ΔEA 5-5132
320 Calvary Bapt Ch

Madison intersects

408 Annison Ola Mae Mrs
413 Jones Wm M ⓞ ΔEA 5-4860
rear Wright Joe L
419 Anderson Ola M Mrs

Olive intersects

500 Thomas Hattie H Mrs ⓞ ΔEA 5-2704
504 Davis Lucille H Mrs
504½ Davis Ulysses
505 Milton Lucy Mrs
509 Green Lloyd D Rev ⓞ Δ EA 5-4082
Irene's Beauty Shop
510 Hall Wm J
512 Siplin Alice
514 Woods Albert
514½ Vacant
515 Chester Mary
517-19 Royal King's Hall
StLuke's Lodge No 1
Scottish Rite No 3
(AFAM) (Royal King Soc)
518 Harvey Judge
521 Adams Cleveland
522 Brooks Roosevelt

Bronson intersects

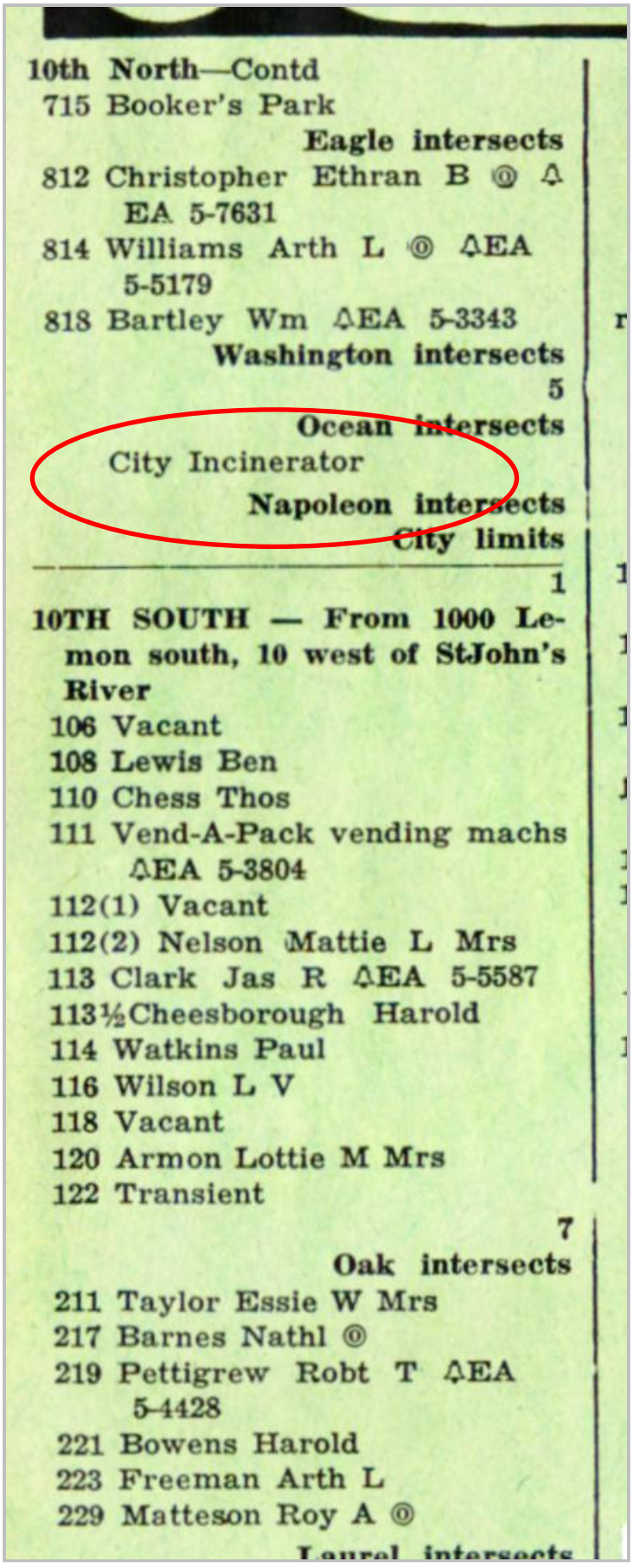
600 Zanders Eva L Mrs ⓞ Δ EA 5-2633
601 Boynton Leroy ⓞ
603 Jackson Aretha
603½ Jackson Willie L
605 Peoples Josephus
607 Vickers Jas
608 Mixon Maggie L ⓞ
609 Thomas Hoke
611 Brown Malachi Rev ΔEA 5-2052
612 Reese Louisa Mrs
613 Christian Free Will Bapt Ch
614 Under constn
615 Johnson Tom
616 Under constn
617 Graham Jennie Mrs
621 Shelton Mary Mrs ⓞ

CS&F crosses
Dunham intersects

708 Parnell Forest
715 Booker's Auditorium

Target Street	Cross Street	Source
✓	-	Polk's City Directory

N 10TH ST 1959

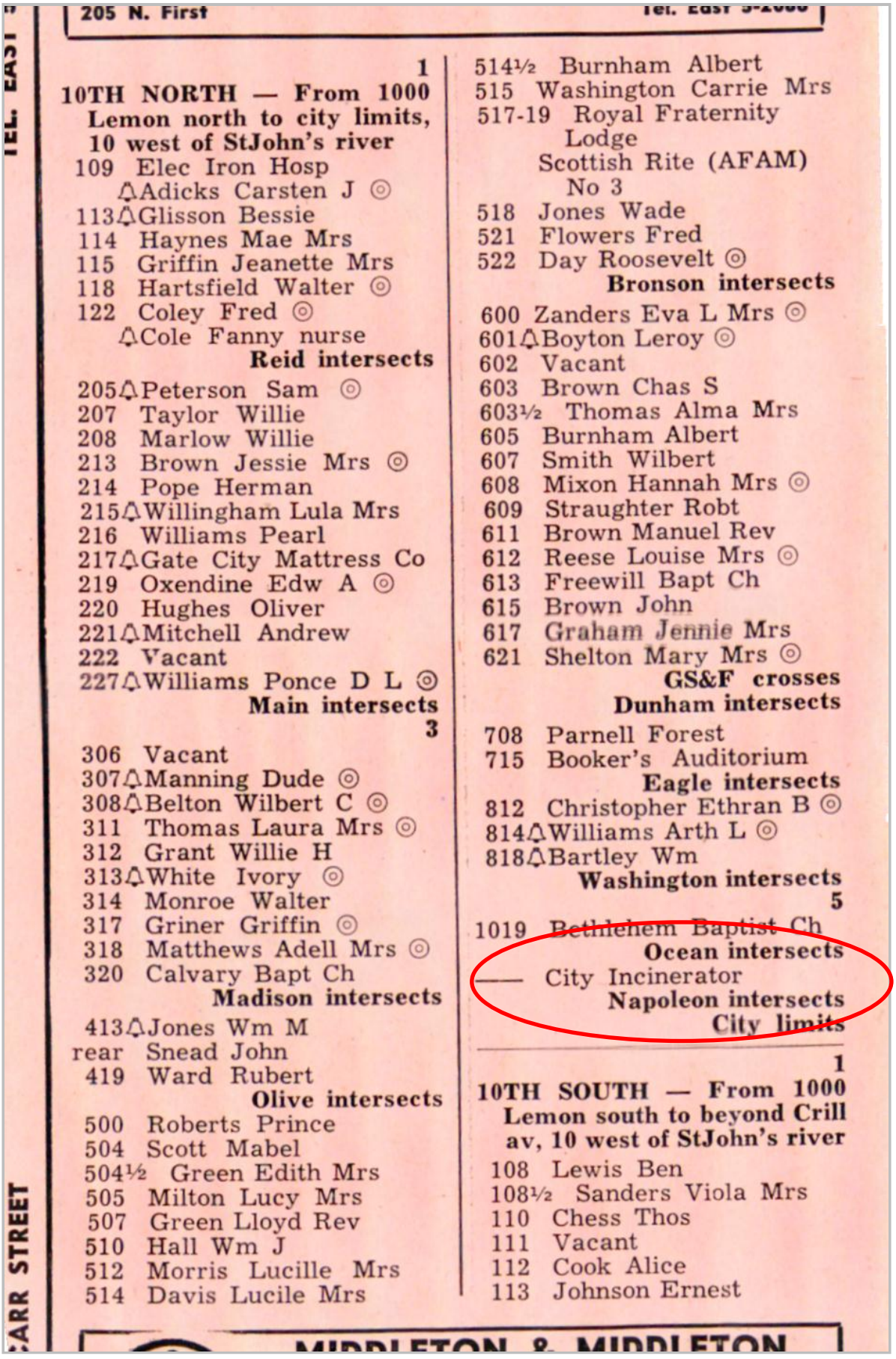


10th North—Contd
715 Booker's Park
Eagle intersects
812 Christopher Ethran B ◎ ΔEA 5-7631
814 Williams Arth L ◎ ΔEA 5-5179
818 Bartley Wm ΔEA 5-3343
Washington intersects
5
Ocean intersects
City Incinerator
Napoleon intersects
City limits
1

10TH SOUTH — From 1000 Lemon south, 10 west of StJohn's River
106 Vacant
108 Lewis Ben
110 Chess Thos
111 Vend-A-Pack vending machs ΔEA 5-3804
112(1) Vacant
112(2) Nelson Mattie L Mrs
113 Clark Jas R ΔEA 5-5587
113½Cheesborough Harold
114 Watkins Paul
116 Wilson L V
118 Vacant
120 Armon Lottie M Mrs
122 Transient
7
Oak intersects
211 Taylor Essie W Mrs
217 Barnes Nathl ◎
219 Pettigrew Robt T ΔEA 5-4428
221 Bowens Harold
223 Freeman Arth L
229 Matteson Roy A ◎
Laurel intersects

Target Street	Cross Street	Source
✓	-	Polk's City Directory

N 10TH ST 1954



205 N. First

1

10TH NORTH — From 1000 Lemon north to city limits, 10 west of StJohn's river

109 Elec Iron Hosp
Adicks Carsten J ◎
113 Glisson Bessie
114 Haynes Mae Mrs
115 Griffin Jeanette Mrs
118 Hartsfield Walter ◎
122 Coley Fred ◎
Cole Fanny nurse
Reid intersects
205 Peterson Sam ◎
207 Taylor Willie
208 Marlow Willie
213 Brown Jessie Mrs ◎
214 Pope Herman
215 Willingham Lula Mrs
216 Williams Pearl
217 Gate City Mattress Co
219 Oxendine Edw A ◎
220 Hughes Oliver
221 Mitchell Andrew
222 Vacant
227 Williams Ponce D L ◎
Main intersects
3
306 Vacant
307 Manning Dude ◎
308 Belton Wilbert C ◎
311 Thomas Laura Mrs ◎
312 Grant Willie H
313 White Ivory ◎
314 Monroe Walter
317 Griner Griffin ◎
318 Matthews Adell Mrs ◎
320 Calvary Bapt Ch
Madison intersects
413 Jones Wm M
rear Snead John
419 Ward Rubert
Olive intersects
500 Roberts Prince
504 Scott Mabel
504½ Green Edith Mrs
505 Milton Lucy Mrs
507 Green Lloyd Rev
510 Hall Wm J
512 Morris Lucille Mrs
514 Davis Lucile Mrs
514½ Burnham Albert
515 Washington Carrie Mrs
517-19 Royal Fraternity Lodge
Scottish Rite (AFAM) No 3
518 Jones Wade
521 Flowers Fred
522 Day Roosevelt ◎
Bronson intersects
600 Zanders Eva L Mrs ◎
601 Boyton Leroy ◎
602 Vacant
603 Brown Chas S
603½ Thomas Alma Mrs
605 Burnham Albert
607 Smith Wilbert
608 Mixon Hannah Mrs ◎
609 Straughter Robt
611 Brown Manuel Rev
612 Reese Louise Mrs ◎
613 Freewill Bapt Ch
615 Brown John
617 Graham Jennie Mrs
621 Shelton Mary Mrs ◎
GS&F crosses
Dunham intersects
708 Parnell Forest
715 Booker's Auditorium
Eagle intersects
812 Christopher Ethran B ◎
814 Williams Arth L ◎
818 Bartley Wm
Washington intersects
5
1019 Bethlehem Baptist Ch
Ocean intersects
—— City Incinerator
Napoleon intersects
City limits

1

10TH SOUTH — From 1000 Lemon south to beyond Crill av, 10 west of StJohn's river

108 Lewis Ben
108½ Sanders Viola Mrs
110 Chess Thos
111 Vacant
112 Cook Alice
113 Johnson Ernest

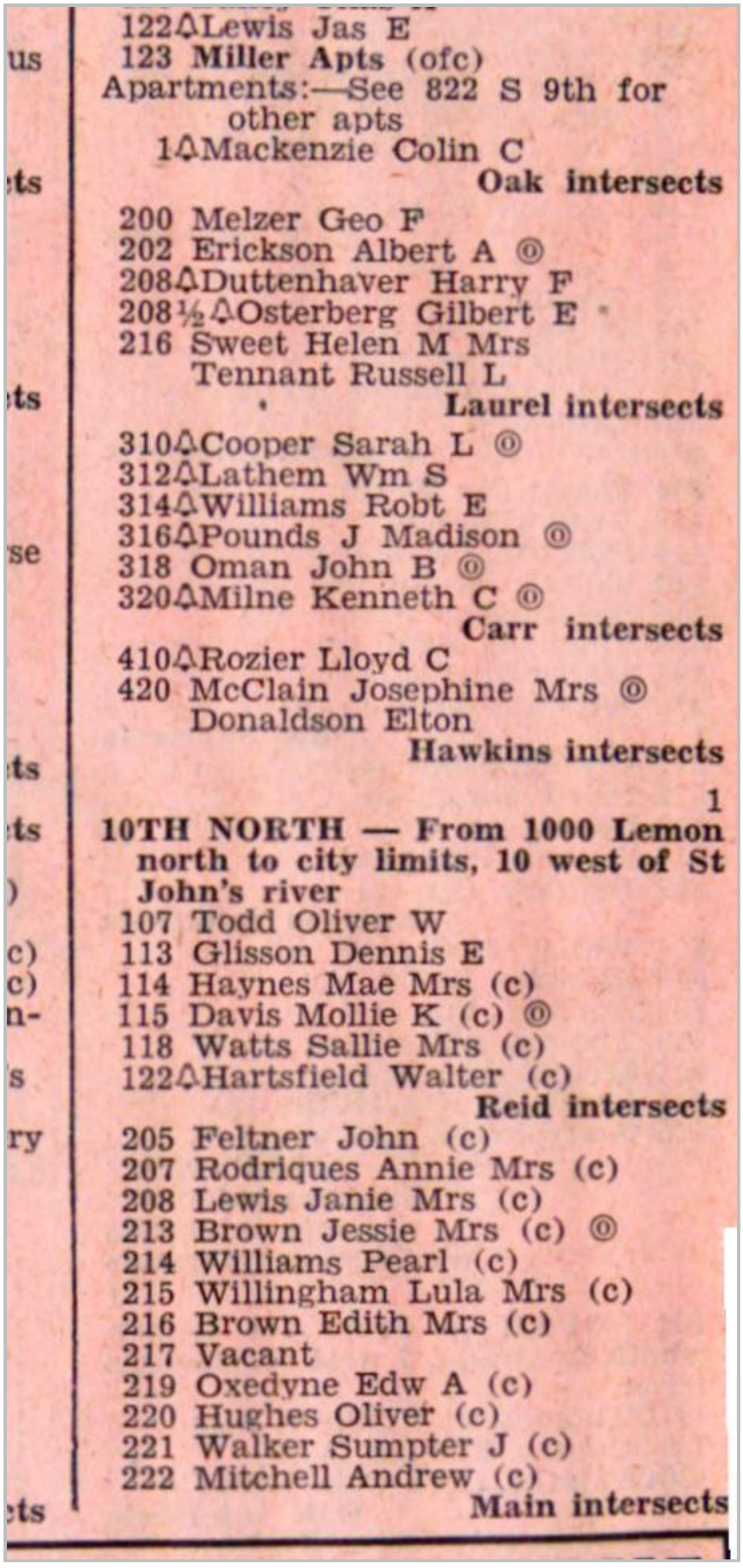
TEL. EAST

CARR STREET

MIDDLETON & MIDDLETON

Target Street	Cross Street	Source
✓	-	Polk's City Directory

N 10TH ST 1948



122 Lewis Jas E
123 Miller Apts (ofc)
Apartments:—See 822 S 9th for other apts
1 Mackenzie Colin C

Oak intersects

200 Melzer Geo F
202 Erickson Albert A ⓪
208 Duttenhaver Harry F
208½ Osterberg Gilbert E
216 Sweet Helen M Mrs
Tennant Russell L

Laurel intersects

310 Cooper Sarah L ⓪
312 Lathem Wm S
314 Williams Robt E
316 Pounds J Madison ⓪
318 Oman John B ⓪
320 Milne Kenneth C ⓪

Carr intersects

410 Rozier Lloyd C
420 McClain Josephine Mrs ⓪
Donaldson Elton

Hawkins intersects

1

10TH NORTH — From 1000 Lemon north to city limits, 10 west of St John's river

107 Todd Oliver W
113 Glisson Dennis E
114 Haynes Mae Mrs (c)
115 Davis Mollie K (c) ⓪
118 Watts Sallie Mrs (c)
122 Hartsfield Walter (c)

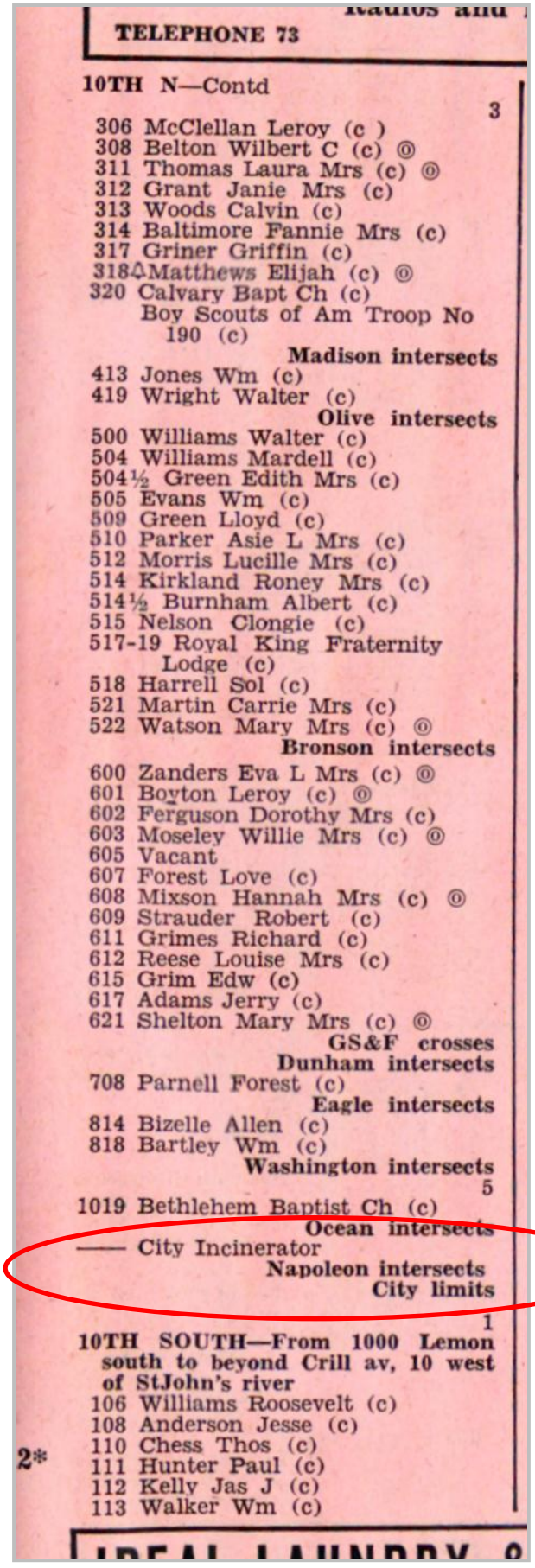
Reid intersects

205 Feltner John (c)
207 Rodriques Annie Mrs (c)
208 Lewis Janie Mrs (c)
213 Brown Jessie Mrs (c) ⓪
214 Williams Pearl (c)
215 Willingham Lula Mrs (c)
216 Brown Edith Mrs (c)
217 Vacant
219 Oxedyne Edw A (c)
220 Hughes Oliver (c)
221 Walker Sumpter J (c)
222 Mitchell Andrew (c)

Main intersects

Target Street	Cross Street	Source
✓	-	Polk's City Directory

N 10TH ST 1948



TELEPHONE 73

10TH N—Contd

3

306 McClellan Leroy (c)
308 Belton Wilbert C (c) ⓪
311 Thomas Laura Mrs (c) ⓪
312 Grant Janie Mrs (c)
313 Woods Calvin (c)
314 Baltimore Fannie Mrs (c)
317 Griner Griffin (c)
318 Matthews Elijah (c) ⓪
320 Calvary Bapt Ch (c)
Boy Scouts of Am Troop No 190 (c)

Madison intersects

413 Jones Wm (c)
419 Wright Walter (c)

Olive intersects

500 Williams Walter (c)
504 Williams Mardell (c)
504½ Green Edith Mrs (c)
505 Evans Wm (c)
509 Green Lloyd (c)
510 Parker Asie L Mrs (c)
512 Morris Lucille Mrs (c)
514 Kirkland Roney Mrs (c)
514½ Burnham Albert (c)
515 Nelson Clongie (c)
517-19 Royal King Fraternity Lodge (c)
518 Harrell Sol (c)
521 Martin Carrie Mrs (c)
522 Watson Mary Mrs (c) ⓪

Bronson intersects

600 Zanders Eva L Mrs (c) ⓪
601 Boyton Leroy (c) ⓪
602 Ferguson Dorothy Mrs (c)
603 Moseley Willie Mrs (c) ⓪
605 Vacant
607 Forest Love (c)
608 Mixson Hannah Mrs (c) ⓪
609 Strauder Robert (c)
611 Grimes Richard (c)
612 Reese Louise Mrs (c)
615 Grim Edw (c)
617 Adams Jerry (c)
621 Shelton Mary Mrs (c) ⓪

GS&F crosses
Dunham intersects

708 Parnell Forest (c)

Eagle intersects

814 Bizelle Allen (c)
818 Bartley Wm (c)

Washington intersects

5

1019 Bethlehem Baptist Ch (c)

Ocean intersects

—— City Incinerator

Napoleon intersects
City limits

1

10TH SOUTH—From 1000 Lemon south to beyond Crill av, 10 west of StJohn's river

106 Williams Roosevelt (c)
108 Anderson Jesse (c)
2* 110 Chess Thos (c)
111 Hunter Paul (c)
112 Kelly Jas J (c)
113 Walker Wm (c)

IDEAL LAUNDRY

Target Street	Cross Street	Source
✓	-	Polk's City Directory

N 10TH ST 1936

Busbee Wallace E
Cameron John E
Cameron John E jr
Davis Jas (c)
Ford Lonnie (c)
Glisson Bailey J
Glisson Ray
Hair Dora (c)
Mach Wm (c)
Matheny Wm S filling sta
White Way Service Station
Smith Ernest O

TECUMSEH—North from Kirby, 2d west of Morris
No houses

TENTH N—North from 1000 Lemon, 10 w of StJohns river
104 Stearns Fred T
105 Vacant
113 Gray Luie (c)
114 Murray Nancy (c)
115 Whitehead Viola (c)
118 Malachi S P (c)
122 Drakeford Lawrence S (c)
Reid intersects
205 Holmes Arth A (c)
207 Savage Danl (c)
207½ Merritt Pearl M (c) hairdrsr
208 Jordan Rosa (c)
211 Vacant
213 Brown Edw (c)
214 Bagley I Meta (c)
215 Willingham Lula (c)
216 Brantley Mattie (c)
217 Quick Mary L (c) gro
219 Quick Mary L (c)
220 Mickens Nora (c)
221 Mercer Raleigh (c)
222 English Eva (c)
225 Vacant
Main intersects
308 McCoy Josephine (c)
311 Thomas Jas W (c)
312 Grant Oscar (c)
313 Woods Carroll (c)
314 Baltimore Henry (c)
317 Tucker Carrie (c)
318 Perry Gus (c)
320 Calvary Baptist Church (c)
Madison intersects
Madison la begins
403 Burnham Mary (c)
413 Jones Wm M (c)
419 Griner Griff (c)
Olive intersects
500 Sivils Jas (c)
504 Jones Eva R (c)
504½ Small Amanda (c)
505 Steen Willie (c)
509 Scott J C (c)
510 Whitted Delia (c)
512 McClennan Mack (c)
513 Allman Peter (c)
514 Williams Judge E
514½ Lee Mildred (c)
515 Rudolph Edw (c)
517-19 StJoseph's Aid Society Hall (c)
518 Harrell Sol G (c)
521 Sanders Asa
522 Watson Mary (c)
523 Sanders Asa gro
Bronson intersects
601 Wilson Chas (c)
602 Perry Corinne (c)
603 Moseley Wm (c)
605 Holmes Henrietta (c)
607 Harris Andrew (c)
608 Mixson Hannah (c)
609 Phillips Jas (c)
611 Riley Nellie (c)
612 Reece Chas (c)
613 Free Will Baptist Church (c)
615 Johnson Wm (c)
617 Adams Jerry (c)
621 Shelton Chas (c)
Dunham intersects
708 Parnell Forrest (c)
709 Vacant
Eagle intersects
814 Steen Danl (c)
818 Graham Geo (c)
end City Incinerator

TENTH S—South from 1000 Lemon, 10 w of StJohns river
106 Cummings Wm (c)
108 Jenkins W Jane Mrs
110 Johnson Sarah E Mrs
111 Johnson Jas S (c)
112 Vacant
rear Bivens Delia (c)
113 Washington Mark (c)
120 Jenkins Jane Mrs
Wishop Jesse (c)
Oak intersects
210 Cummings Chas (c)
211 Graham Amy (c)
216 Vacant
217 Hickson Saml (c)
218 Vacant
219 Scott Wm (c)
220 Dixon Henry (c)
223 Brown Lucius (c)
229 Stoddard Myrtle A Mrs
Laurel intersects
300 Mullis Bros mill work
303 Terrell Ira W
315 Tsamas Nicholas
Carr intersects
400 Howell Handy (c)
410 Wiggins John (c)
412 Wiggins Nathaniel (c)
rear Davis John (c)

APPOINTIVE OFFICERS—(Continued)

CEMETERY TRUSTEES (Authorized by city ordinance approved June 13, 1910. All members serve without personal compensation. The term of each member expires on May 1st of the year following their respective names, as herein given) J. H. Haughton (1928), chairman; Howell A. Davis (1930), treasurer; F. D. Wattles (1931), secretary; Mrs. F. D. Ackerman (1929); Mrs. R. F. Adams (1932).

SECRETARY ASSOCIATED CHARITIES: Mrs. H. M. de Montmollin (no comp.).

SUPERVISOR OF REGISTRATION: R. M. Ingram, Jr., (no addl. comp.).

ENGINEER AND BUILDING, PLUMBING AND SANITARY INSPECTOR: E. F. Gunn ($2,400).

For additional appointive officers and subordinates, see the various other departments and properties of the city, listed herein.

POLICE DEPARTMENT—Palatka.

Headquarters and Jail: 115 North 9th St.

CHIEF. W. H. Minton.

JUDGE POLICE COURT: C. P. Philips.

PATROLMEN: Day—H. S. Wells. Night—J. H. Hunter, E. T. Hamil and Fred Geohagen.

MUNICIPAL-OWNED GROUNDS AND BUILDINGS.

CITY BUILDING AND PARK—Reid street from 2d to 3d streets. Building houses office of the city manager and various departments, also the city library and the fire department headquarters.

CITY COURT BUILDING AND JAIL—115 No. 9th St. (see Index for "Police Department" and other information.

WATER WORKS—Whitewater Drive. Ed. Usina, ($1,680), Supt.

The complete plant includes approximately 30 miles of mains, serving both soft and hard water; and a total of 215 fire plugs. (see Index for "Water Service Rates" and other information).

GYMNASIUM AND SWIMMING POOL—South 14th and Forward streets. B. Gittelson ($700 and contng. fees), superintendent.

GOLF COURSE (18 hole)—out Mosely avenue, near city limits. H. W. Anderson ($125 mo. for 6 mos.), professional in charge. Lester Hall ($1,800), ground keeper. (see Index for "Golf Fees" and other information).

BASE BALL PARK—Twiggs street, in rear of Florida Power and Light Company's sub-station. Committee in charge (no compensation): L. H. Buck, A. Waterman and H. G. Pert.

CITY DOCKS—River street, between G. S. & F. Ry tracks and Zachary's Veneer Mill. Built primarily to accommodate pleasure craft, but will also provide dockage for large vessels.

INCINERATOR—Ocean and 10th streets. Capacity, 35 tons daily. Plant is operated under jurisdiction of Superintendent of Streets.

COLORED PEOPLES' ASSEMBLY HALL AND ATHLETIC FIELD—Eagle and No. 10th streets.

ADDITIONAL PROPERTIES, in reserve for future development, comprise approximately 6 acres located in various parts of the city.

Site: Ocean Street & North 10th Street
N. 10th Street
Palatka, FL 32177

Inquiry #: 4728388.4S
September 20, 2016

The EDR Environmental LienSearch™

6 Armstrong Road,
Fourth Floor
Shelton, CT 06484
800.352.0050
www.edrnet.com

EDR Environmental LienSearch™ Report

The EDR Environmental LienSearch Report provides results from a search of available current land title records for environmental cleanup liens and other activity and use limitations, such as engineering controls and institutional controls.

A network of professional, trained researchers, following established procedures, uses client supplied address information to:

- search for parcel information and/or legal description;
- search for ownership information;
- research official land title documents recorded at jurisdictional agencies such as recorders' offices, registries of deeds, county clerks' offices, etc.;
- access a copy of the deed;
- search for environmental encumbering instrument(s) associated with the deed;
- provide a copy of any environmental encumbrance(s) based upon a review of key words in the instrument(s) (title, parties involved, and description); and
- provide a copy of the deed or cite documents reviewed.

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

EDR Environmental LienSearch™ Report

TARGET PROPERTY INFORMATION

ADDRESS

N. 10th Street
Palatka, FL 32177

RESEARCH SOURCE

Official County Records
County of Putnam, FL

PROPERTY INFORMATION

Title is vested in:	City of Palatka, Florida
Examiner's note:	"The records were searched back to January 1, 1955 for environmental liens, activity and use limitations and a deed of ownership. A deed of ownership was not located. A copy of the parcel data from the Putnam County, Florida assessor's department is attached hereto for ownership informational purposes only."
Legal Description:	ICKS MAP OF PALATKA MB2 P46, BLKS 89 90 91 92 99 100 101, 102 109 110(EX OR820 P1397), 111 112 119 120 121 122(BOOKER, FIELD/LEFTY TURNER PARK IS ON, BLK 90 REST IS OLD CITY DUMP &, SWAMP)
Legal Current Owner	City of Palatka, Florida
Property Identifiers:	42-10-27-6850-0890-0000

EDR Environmental LienSearch™ Report

ENVIRONMENTAL LIEN

Environmental Lien: Found ☐ Not Found ☒

If found:

1st Party:

2nd Party:

Dated:

Recorded:

Book:

Page:

Docket:

Volume:

Instrument:

Comments:

Miscellaneous:

OTHER ACTIVITY AND USE LIMITATIONS (AULs)

Other AUL's: Found ☒ Not Found ☐

If found:

1st Party: City of Palatka

2nd Party: Public

Dated: 6-03-2008

Recorded: 6-13-2008

Book: 1196

Page: 328

Instrument: Notice of Limitation of use / Site Dedication

Comments: This document does not depict a full legal description. Therefore, we were not able to determine at what extend it may or may not affect the subject property. A notation regarding "Booker Field" is in the official records index and in the legal description of the property assessor's card.

Miscellaneous: Document attached hereto.

EDR Environmental LienSearch™ Report

DEED EXHIBIT

Parcel	42-10-27-6850-0890-0000
Owner	CITY OF PALATKA
Mailing	C/O CITY HALL 201 N 2ND ST PALATKA, FL 32177
911	0 Unassigned Location RE, []
Description	DICKS MAP OF PALATKA MB2 P46, BLKS 89 90 91 92 99 100 101, 102 109 110(EX OR820 P1397), 111 112 119 120 121 122(BOOKER, FIELD/LEFTY TURNER PARK IS ON, BLK 90 REST IS OLD CITY DUMP &, SWAMP)
Orig Parcel	

Parcel Sales Data

Book	Page	Instrument	Month	Year	QSCD	Price
0	0	UND	Jan	1900		$0

Exemption	Amount	Remainder	Owner %	Applied To
WHX	$46,240	$0		All Districts

Outbuildings and Extra Features

Line	Code	Units	Length	Width	Sq Ft	Rate	Value
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

Improvement Value	$0	**Use Code**	09600
OBXF Value	$0	**Improvements**	0
Land Value	$46,240	**Location**	City of Palatka
Market Value	$46,240	**Total Acres**	31.60
Just Value CU		**Zoning**	R-1AA
CU Value		**FLUM**	RL
Market Adjusted	$46,240		

Parcel Value Breakdown

Taxing District	Assessed Limited	Minus(-) Exemptions	Taxable Value
Palatka	$46,240	$46,240	$0
St Johns River WMD	$46,240	$46,240	$0
County	$46,240	$46,240	$0
School	$46,240	$46,240	$0

Primary Improvement

Desc			Title No.		Substructure		Cabinet & Mill	
Class		Dep Rate	Model		Floor System		Floor Finish	
Type		Yr Built	RP No. or Tag		Exterior Walls		Interior Finish	
Adj Base Rate		Eff Yr Built	Length		Height In Feet		Paint & Decor	
Base Sq Ft		Obs Cond	Width		Party Wall %		Plumbing Fixt	
% Good		Replace Cost	Lot #		Sub Frame		Bath Tile	
Quality		Dep Rep Cost	Bed/Bath		Roof Framing		Heating & Air	
			Attachments		Roof Cover		Electrical	
			Account		Bed/Bath		Corners	

Improvement Area & Additions

Desc	% Rate	Rate	Sq Ft	Cost

Land Lines

Line	Code	Depth Chart	Depth In Feet	Corner Factor	Depth Factor	Cond	Unit Price	Adj Unit Price	Units	Just Value	CU Unit Price	CU Value	Just Value CU	Taxable Value
1	012V		0	100%		C080	4,000	3,200	12					38,400
2	003V		0	100%		C010	4,000	400	19.6					7,840
3														
4														
5														
6														
									Total	**0**		**0**	**0**	**46,240**

NOTICE: This is an interim Putnam County file. Property assessment information is subject to change until it is certified in October.

EDR Environmental LienSearch™ Report

ACTIVITY AND USE LIMITATION (AULS)
EXHIBITS

27.00

Inst:200[redacted] Date:6/13/2008 Time:2:00 PM
DC,Tim Smith,Putnam County Page 1 of 3

LAND AND WATER CONSERVATION FUND PROGRAM

NOTICE OF LIMITATION OF USE/
SITE DEDICATION

This Notice of Limitation of Use/Site Dedication gives notice that the Real Property identified in the project agreement and the boundary map, attached hereto as Exhibits "A" and "B," respectively (the "Property"), has been acquired by or developed with Federal financial assistance provided by the National Park Service of the Department of the Interior in accordance with the Land and Water Conservation Fund Act of 1965, as amended. Pursuant to requirements of that law, this property may not be converted to other than public outdoor recreation uses (whether by transfer, sale, or in any other manner) without the express written approval of the Secretary of the Interior. By law, the Secretary shall approve such conversion only if he finds it to be in accord with the existing Statewide Comprehensive Outdoor Recreation Plan and only upon such conditions as he deems necessary to assure the substitution of other recreation properties of at least equal fair market value and of reasonably equivalent usefulness and location.

DEDICATOR

Original signature

Elwin C. Boynton Sr.
Printed name

City Manager
Title

Witness
Printed Name: Jeff Norton

Ke'Ondra Wright
Witness
Printed Name: Ke'Ondra Wright

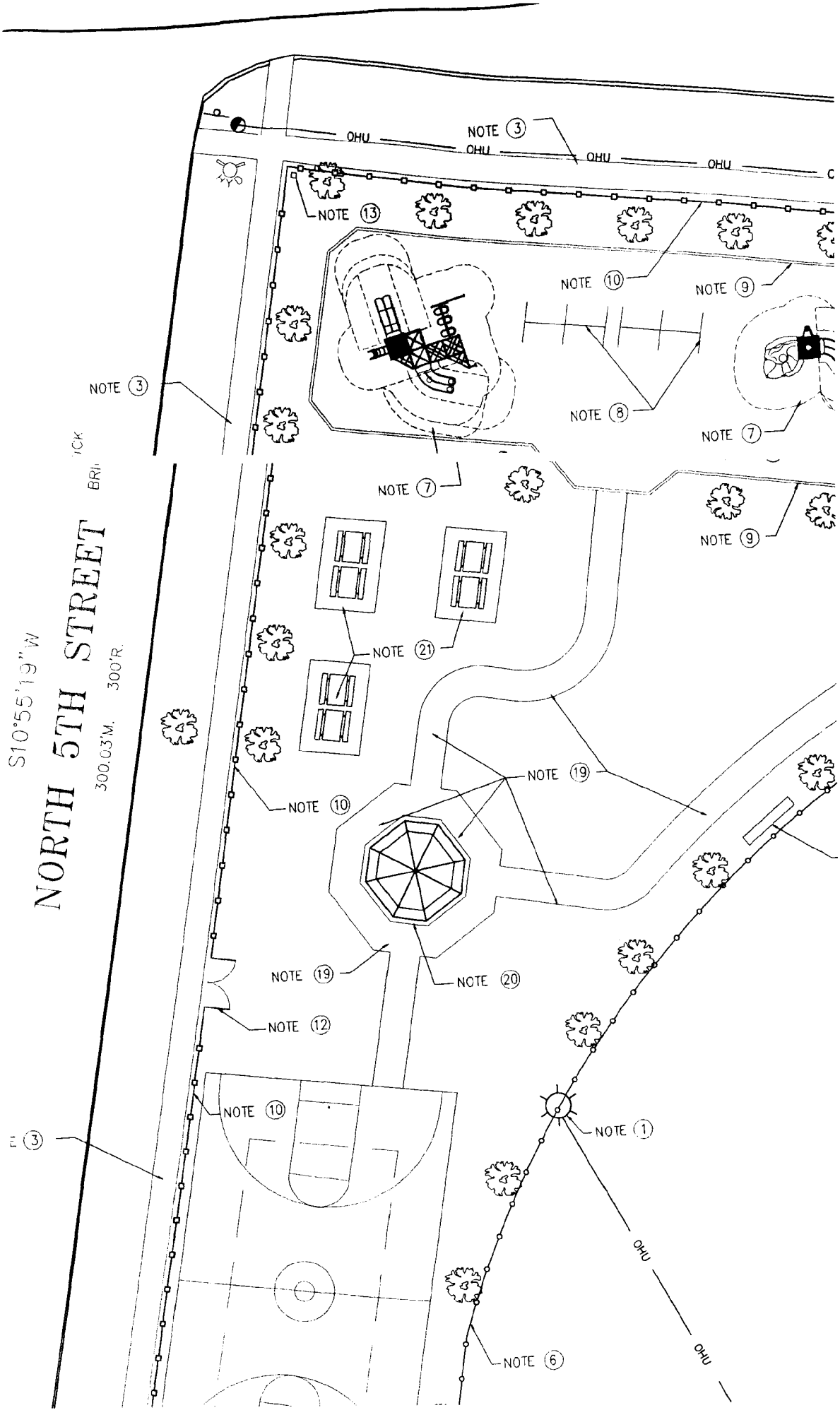
STATE OF FLORIDA
COUNTY OF _____

The foregoing instrument was acknowledged before me this 6/3/08 by Elwin C. Boynton Sr., who is personally known to me or who produced _____ as identification.

Stamp: Notary Public State of Florida Ruby M Williams My Commission DD692458 Expires [redacted]

Notary Public, State of Florida

FPS-A038
Revised (05/[redacted)


NORTH 5TH STREET
S10°55'19"W
300.03'M. 300'R.
OHU
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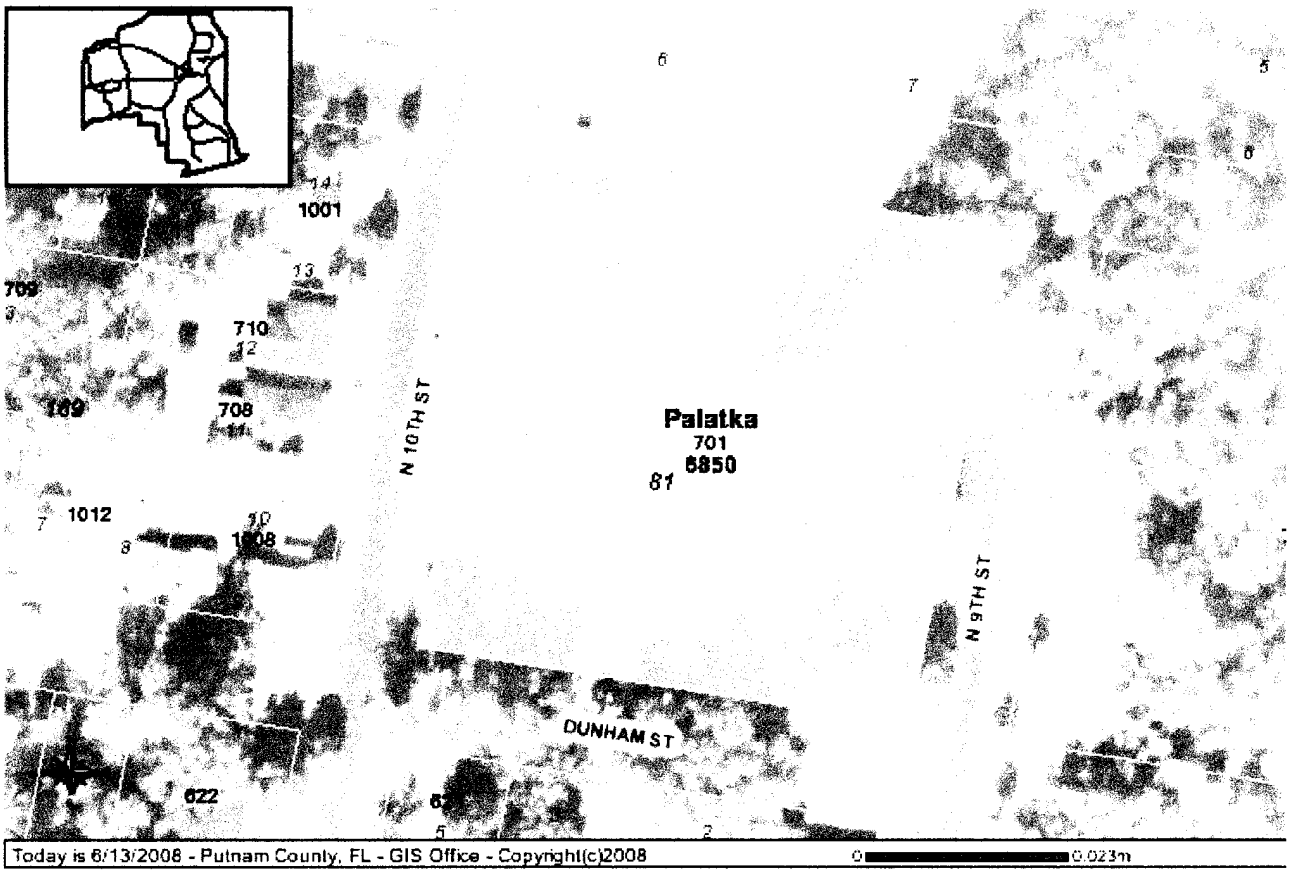
OHU
OHU
NOTE 6



Appendix F

Site Reconnaissance Photographs

Sheet 1

Miscellaneous debris contained in berm along roadway/path into the subject parcel.

Demo debris mounded up in a berm on edge of road/path into the heart of the subject parcel..

Domestic rubbish alongside road/path into subject parcel.

Discarded concrete pipes along road/path..

Sheet 2

Discarded yard waste at terminus of road/pathway.

Clay pipe and concrete protruding through overgrown berm of soil and refuse and demo debris.

Thick understory and Kudsue covering bermed soil and debris lining the road/path into the center of the subject parcel.

Corrugated pipe along berm in interior of parcel.

Sheet 3

Discarded mattress and other domestic refuse beside road berm.

Glass and other refuse protruding from mounded soil in roadside berm.

Illegal dumping of material outside of the locked gate and fence into the subject parcel.

Dense understory and over-story vegetation representative of areas outside of the roadway berms.

Appendix G

Environmental Staff Resumes

Bill Honea, GIT, Environmental Scientist

Total Experience

4 Years

Registrations

Geologist-In-Training, KY

Certifications

Certified Asbestos Inspector, TN, 2015

NIOSH 582 Certified – Sampling and Evaluating Airborne Asbestos Fibers, 2012

Tennessee Qualified Hydrologic Professional-In-Training, 2015

Education

BS, Geology, University of Tennessee, 2010

Training

Fundamentals of Erosion Prevention and Sediment Control Certification, 2014

Hazardous Waste Operations and Emergency Response 40-Hour Training, 2011

Hazardous Waste Operations and Emergency Response 8-Hour Refresher, 2015

Tier 2 Reporting Workshop, 2015

Bill joined Ayres Associates in 2015 with four years of environmental consulting experience and a strong regulatory compliance background. He has conducted Phase 1 and 2 environmental site assessments (ESAs); groundwater monitoring; brownfield site investigations; and regulatory reporting for federal, state, and private clients.

Bill has prepared work plans, health and safety plans, National Pollutant Discharge Elimination System (NPDES) permits, and monitoring reports, and he has provided technical support for municipal water, wastewater, gas, and electrical system operations. This technical support included environmental sampling, air permitting, stormwater permitting, Tier 2 reporting, auditing, training, and emergency oil spill response.

His field experience includes soil, groundwater, vapor, concrete, and asbestos sampling. He facilitates collaboration and communication with clients, peers, regulatory agencies, and subcontractors to meet project objectives and deadlines.

Bill's previous Phase 1 and 2 ESA clients include:

- Tennessee Department of Transportation
- Tennessee Department of Environment and Conservation
- U.S. Navy, Naval Facilities Engineering Command (NAVFAC)
- United Technologies Corporation
- Aleris Rolled Products
- Aluminum Company of America (ALCOA)
- Knoxville Utilities Board
- Pickens Village Partners
- City of Alcoa
- Horsehead Industries
- Continental Tire
- Metropolitan Knoxville Airport Authority
- Tennessee Department of Corrections
- Mahle Group

Scott Wilson, PSS, Vice President

Total Experience

34 Years

Education

MS, Soil Science and Forestry, University of Wisconsin-Madison, 1982

BS, Soil Science, University of Wisconsin-Madison, 1978

Memberships

American Council of Engineering Companies

Brownfield Study Group

National Brownfield Association

Petroleum Environmental Cleanup Fund Act Code Advisory Committee, Comm. 47 Code

Mr. Wilson is Ayres Associates' vice president of Wisconsin environmental services and has managed the environmental group since 1996. His efforts have helped shape the team into a group of experts with comprehensive experience in recovery and redevelopment of contaminated properties. Mr. Wilson has either personally conducted or performed quality assurance/quality control (QA/QC) on more than 1,400 Phase 1 environmental site assessments (ESAs).

Related Projects

- Gateway Industrial Park Phase I Environmental Site Assessment, Gate Landmark Company, WI
- Mega Mart C-Store Phase 1 Environmental Site Assessment (CTH "I", Chippewa Falls), Consumers Cooperative Association, WI
- Chippewa Valley Regional Airport 33-Acre Environmental Site Assessment, Chippewa Valley Regional Airport, WI
- USDA Forest Service Hayward Residence Phase 1 Environmental Site Assessments, U.S. Department of Agriculture (USDA) Forest Service, Chequamegon-Nicolet National Forest, WI
- United Bank Osseo Recycling Phase 1 Environmental Site Assessment, United Bank, WI
- Wells Fargo - Melby Road Phase 1 Environmental Site Assessment, Wells Fargo Bank, WI
- Marshfield Clinic Phase 1 Environmental Site Assessment, Marshfield Clinic, WI
- Lakeside Home Phase 1 Environmental Site Assessment, Extendicare, WI
- Brule River Phase 1 Environmental Site Assessment (53-569R-4-1909 Master), U.S. Department of Agriculture (USDA) Forest Service, Chequamegon-Nicolet National Forest, WI
- Veolia Seven Mile Creek Landfill - Johnson Environmental Site Assessment, Veolia ES Solid Waste Midwest, LLC, WI
- CVTC River Falls Property Phase I ESA/EA, Chippewa Valley Technical College, WI
- Roland Machinery DeForest Phase I ESA, Illinois National Bank, WI
- RCU Gateway Phase I ESA Updates, Royal Credit Union (RCU), WI
- CVRA Heartland Structural Evaluation, Waypoint Aero Holdings, LLC, WI
- Anchor Bank - Somerset Auto ESA Update, Anchor Bank, WI
- Baldwin Area Medical Center Phase I ESA, Baldwin Area Medical Center, WI
- Luther Hospital - Whipple Street Phase 1 Environmental Site Assessment, Mayo Clinic Health System, WI
- Bush Beans 2nd ESA east of plant on existing residence, Bush Brothers & Company, WI

Mitchell Banach, Environmental Scientist

Total Experience

7 Years

Certifications

Asbestos Inspector, State of Wisconsin Department of Health Services, 2008

Environmental Professional, as Defined in 40 CFR 312.10, 2013

Hazardous Waste Operations and Emergency Response 40-Hour and 8-Hour Annual Refresher Training, National Environmental Trainers, 2008

Site Assessor, State of Wisconsin Department of Agriculture, Trade & Consumer Protection, 2010

Education

BS, Biology - Ecology and Environmental Biology, University of Wisconsin-Eau Claire, 2008

Additional Coursework in Geology, UW-Milwaukee and UW-Eau Claire, 2012 – Present

Memberships

American Institute of Professional Geologists, Student Member

Mr. Banach joined Ayres Associates in 2013, bringing five years of experience as an environmental scientist. His background includes performing and managing Phase 1 and 2 environmental site assessments (ESAs), site investigations, storage tank closures, National Environmental Policy Act environmental assessments, hazardous building material assessments, and regulatory compliance projects. He has significant experience in preparing regulatory reports, permits, and plans for industrial facilities at the federal, state, and local levels, including hazardous substances, air emissions, hazardous waste, wastewater, stormwater pollution prevention, and oil spill prevention.

His field experience includes soil, groundwater, wastewater, stormwater, air, lead paint, and asbestos bulk sampling; active groundwater remediation; and regulatory compliance facility inspection. Throughout his project experience, Mr. Banach has demonstrated his ability to communicate and collaborate with clients, co-workers, regulatory agencies, and subcontractors to complete project goals.

Here is what Ron Walsh, Elk Mound Area School District Superintendent, had to say about Mr. Banach's work on the District's high school underground storage tank site assessment sampling and engineering services project: "Mitchell Banach knew what he was doing and kept things going smoothly."

Related Projects

- Wisconsin Department of Administration, Division of Facilities Development – State Preservation Storage Facility Redevelopment Phase 1 & 2 ESAs and Hazardous Building Materials Assessment, Madison, WI
- Wisconsin Department of Military Affairs – Army National Guard Tank System Sites Assessments, Richland Center and Oconomowoc, WI
- Bush Brothers & Company – Environmental Compliance and Groundwater Sampling, Augusta, WI
- City of Ashland – Beaser Avenue Redevelopment Phase 1 ESA and Site Investigation, Ashland, WI
- UW-Eau Claire Foundation – County Materials Event and Recreation Complex Redevelopment Phase 1 & 2 ESAs, Eau Claire, WI
- Village of Waunakee – Former Waunakee Alloy Casting Corp. Phase 1 ESA and Hazardous Building Materials Assessment, Waunakee, WI
- City of Yuma – Historical Old Town Redevelopment Phase 1 ESAs, Yuma, AZ