

Dania Beach Energy Center



SITE CERTIFICATION APPLICATION

Volume I of III



July 2017

**SITE CERTIFICATION APPLICATION
DANIA BEACH ENERGY CENTER**

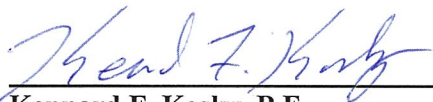
VOLUME I OF III

Submitted by:

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July 2017

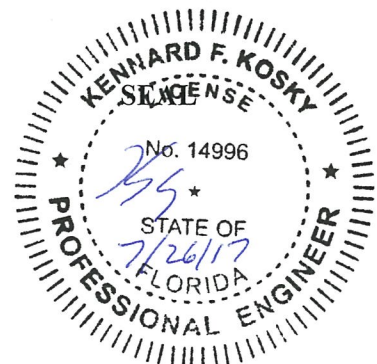
17-73823



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VOLUME I

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LIST OF ACRONYMS AND ABBREVIATIONS

°C	degrees Celsius
°F	degrees Fahrenheit
μPa	Micropascals
μS/cm	microsiemens per centimeter
AAQS	Ambient Air Quality Standards
AERMOD	American Meteorological Society and EPA Regulatory Model
ANSI	American National Standards Institute
BACT	Best Available Control Technology
BMPs	Best Management Practices
Btu/kWh	British thermal units per kilowatt-hour
Btu/lb	British thermal units per pound
Btu/scf	British thermal units per standard cubic foot
C.I.E.	Commission Internationale de l'Eclairage (International Commission on Illumination)
CadnaA	Computer Aided Noise Abatement
cd	Candelas
cd/m ²	candelas per square meter
CESQG	Conditionally Exempt Small Quantity Generator
cf/yr	cubic feet per year
CFR	Code of Federal Regulations
CH ₄	Methane
CO	carbon monoxide
CO ₂	carbon dioxide
CO ₂ e	CO ₂ equivalent emissions
CTEMISS	Cooling Tower Emissions Processor
CWA	Clean Water Act
dB	Decibels
dBA	A-weighted decibels
DLN	dry low-NO _x
EDTA	ethylene diamine tetra-acetic acid
eGRID	Emissions & Generation Resource Integrated Database
EIA	U.S. Energy Information Administration
EMB	Everglades Mitigation Bank
ENP	Everglades National Park
EPA	U.S. Environmental Protection Agency
F.A.C.	Florida Administrative Code
FAS	Floridan Aquifer System
FCPA	Florida Community Planning Act
FDACS	Florida Department of Agriculture and Consumer Services
FDEO	Florida Department of Economic Opportunity
FDOT	Florida Department of Transportation
FEMA	Federal Emergency Management Agency
FGT	Florida Gas Transmission
FLL	Fort Lauderdale-Hollywood International Airport
FLUCFCS	Florida Land Use, Cover and Forms Classification System

FMSF	Florida Master Site File
FNAI	Florida Natural Areas Inventory
FPL	Florida Power & Light Company
FPSC	Florida Public Service Commission
F.S.	Florida Statutes
FWC	Florida Fish and Wildlife Conservation Commission
ft	feet
ft/day	feet per day
ft/yr	feet per year
ft ² /day	square feet per day
GHG	greenhouse gas
GIS	geographic information systems
gpm	gallons per minute
gr/100 scf	grains per 100 standard cubic feet
GWP	Global Warming Potential
H ₂ SO ₄	sulfuric acid
HAP	hazardous air pollutant
HHV	higher heating value
hp	horsepower
hr/yr	hours per year
HRSG	heat recovery steam generator
Hz	hertz
I	Interstate (highway)
ICU	Intermediate Confining Unit
ISO	International Organization for Standardization
IWW	Industrial Wastewater
kg	kilograms
km	kilometer
kV	kilovolts
kW	kilowatt
L ₅₀	sound pressure level exceeded 50 percent of the time
L ₉₀	sound pressure level exceeded 90 percent of the time
lb/hr	pounds per hour
lb/MMBtu	pounds per million British thermal units
lb/MWh	pounds per megawatt-hour
lb CO ₂ e/MWh	pounds CO ₂ -equivalent (e) per megawatt-hour
L _{eq}	equivalent sound pressure level
LHV	lower heating value
L _{max}	maximum sound pressure level
L _{min}	minimum sound pressure level
LOS	Level of Service (traffic)
L _w	octave band sound power levels
m	meters
MACT	maximum achievable control technology
mag/arcsec ²	magnitudes per square arcsecond
MCU	Middle Confining Unit
MG	million gallons

mg/L	milligrams per liter
MGD	million gallons per day
MMBtu/hr	million British thermal units per hour
MMcf/hr	million cubic feet per hour
MSW	municipal solid waste
MW	Megawatt
N ₂ O	nitrous oxide
NEPA	National Environmental Policy Act
NESHAP	National Emissions Standards for Hazardous Air Pollutants
NGVD 29	National Geodetic Vertical Datum 1929
NHPA	National Historic Preservation Act
NO ₂	nitrogen dioxide
NOAA	National Oceanic and Atmospheric Administration
NOI	Notice of Intent
NO _x	nitrogen oxides
NSPS	New Source Performance Standards
NSR	New Source Review
NTU	nephelometric turbidity units
NWS	National Weather Service
O ₂	Oxygen
OSHA	Occupational Safety and Health Administration
PM	particulate matter
PM ₁₀	particulate matter with an aerodynamic diameter of 10 micrometers or less
PM _{2.5}	particulate matter with an aerodynamic diameter of 2.5 micrometers or less
POTW	publicly owned treatment works
ppm	parts per million
ppmvd	parts per million by volume dry
PPSA	Florida Electrical Power Plant Siting Act
ppt	parts per thousand
PSD	Prevention of Significant Deterioration
PVC	polyvinyl chloride
QA/QC	quality assurance/quality control
RICE	reciprocating internal combustion engines
SR	State Road
SAS	surficial aquifer system
SCA	Site Certification Application
SCR	selective catalytic reduction
SFWMD	South Florida Water Management District
SJRWMD	St. Johns River Water Management District
SO ₂	sulfur dioxide
SPL	sound pressure level
SRPP	Strategic Regional Policy Plan
SWPPP	Storm Water Pollution Prevention Plan
TDS	total dissolved solids
TPY	tons per year
UFA	Upper Floridan Aquifer
ULSD	ultra low sulfur distillate

USACE	U.S. Army Corps of Engineers
USFWS	U.S. Fish and Wildlife Service
USGS	U.S. Geological Survey
VOC	volatile organic compound

SITE CERTIFICATION APPLICATION DEFINITIONS

1. “Lauderdale Site” or “Site” – refers to the existing approximately 392 acres of FPL-owned, certified property, associated facilities, two gas turbine peaking units and five combustion turbine peaking units (FDEP Certification Number PA 89-26H).
2. “Dania Beach Energy Center Project”, “DBEC Project”, or “Project” – refers to the entire “Project” for which FPL seeks certification, including construction of a proposed 2-on-1 combined cycle generating unit, the construction parking and laydown areas, and related activities as described in the Site Certification Application. “Dania Beach Energy Center Project”, “DBEC Project”, or “Project” does not include the existing two gas turbine units and five combustion turbine peaking units (Unit 6) on the Lauderdale Site.
3. “Dania Beach Energy Center Project Area” or “DBEC Project Area” or “Project Area” – refers to the approximately 134 acre area used for the construction of the DBEC Project.
4. “DBEC”, or “Unit 7” – refers to the 2-on-1 combined cycle generating unit at the Lauderdale Site after construction is complete and the unit is operating.

1.0 INTRODUCTION AND GENERAL INFORMATION

This chapter of the Site Certification Application (SCA) provides an overview of the Dania Beach Energy Center Project (“DBEC Project” or “Project”) that Florida Power & Light Company (FPL) seeks to certify, including construction of the modernized plant, introduces FPL, and provides a summary of FPL’s public outreach program on the Project.

1.1 Introduction

FPL’s existing Lauderdale Site is located in Broward County, Florida (see Figure 1.1-1) and includes Units 4 and 5, consisting of four 1990s vintage combustion turbines, four heat recovery steam generators, and two 1950s vintage steam turbines, Unit 6, consisting of five new combustion turbines and two 1970s vintage gas turbines. Unit 6 (Units 6A through 6E), which began commercial operation in 2016, replaced 22 gas turbines at the Lauderdale Site and 12 gas turbines at the nearby Port Everglades Plant.

FPL proposes to modernize Units 4 and 5 with a modern, highly efficient, lower-emission next generation clean energy center using the latest combined cycle technology. The modernized unit, DBEC, will be located wholly within the existing Lauderdale Site. The modernization will result in an increase in power generation without using additional land or water. The DBEC will be more energy efficient than the existing Units 4 and 5 and will provide cleaner energy to FPL’s customers. The DBEC has an in-service date in June 2022.

The Lauderdale Site provides the infrastructure for a new combined cycle unit that includes an existing developed site dedicated to generation of electricity, existing cooling water intake and discharge structures, cooling pond, existing gas delivery infrastructure, and access to the FPL transmission system.

Figure 1.1-2 shows a computerized rendering of the existing Lauderdale Site with existing Units 4 and 5, and Units 6A through 6E and two gas turbine generators in the background. Figure 1.1-3 presents a computerized rendering of DBEC in the foreground located in the existing footprint of Units 4 and 5.

Existing Units 4 and 5 received authorization for construction and operation under the Florida Electrical Power Plant Siting Act (PPSA), Chapter 403, Part II, Florida Statutes (F.S.) in 1991 (PA 89-26). The PPSA provides a centralized review and licensing process for new steam or solar electrical generating facilities in Florida of 75 MW or greater, balancing “the increasing demand for electrical power with the broad interests of the public.” FPL is seeking approval of the DBEC Project under the PPSA. The Florida Public Service Commission (FPSC) is the sole forum for the determination of need for a



proposed facility (Section 403.519, F.S.). FPL will be seeking a determination of need for the DBEC. The Florida Department of Environmental Protection (FDEP) acts as the coordinator for the Site Certification process, with input from various state, regional, and local agencies, along with interested citizens. Ultimate disposition of the SCA is determined by the Governor and Cabinet sitting as the Siting Board, or by the Secretary of the FDEP. This SCA is being filed with FDEP pursuant to Section 403.5064, F.S., and Chapter 62-17, Florida Administrative Code (F.A.C.). The SCA describes the Project and addresses its environmental and socioeconomic aspects by presenting information on the existing natural and human environment, the facilities to be constructed and operated, and the impacts of the Project on those environments. The format and content of this SCA follow FDEP's draft "*Application Instruction Guide: Electrical Power Plant Sites and Associated Facilities Electrical Transmission Lines*" dated September 1, 2009. FPL is concurrently filing an Air Construction/Prevention of Significant Deterioration (PSD) Permit Application and Industrial Wastewater Facility (IWW) Permit Application with FDEP, and a U.S. Army Corps of Engineers (USACE) Section 404 application.

FPL requests that the certification for the Project include one variance pursuant to Rule 62-17.051(3)(a), F.A.C.:

City of Dania Beach Code of Ordinances, Chapter 17, Article IV Noise, Section 17-86:

Modification to Table I for maximum permissible sound levels by all receiving land use categories from the specified Sound Level Limits to exempt for all times, due to transient and infrequent conditions associated with unit startup, shutdown or upset conditions, as described below in SCA Section 6.7.2.

1.2 The Applicant

FPL, a subsidiary of NextEra Energy, Inc., is the largest electric utility in Florida with a service area of approximately 27,650 square miles. FPL serves approximately 4.9 million customer accounts, with a service territory in all or parts of 35 Florida counties (Figure 1.2-1).

FPL's existing generating resources are located at power plant sites (Figure 1.2-1) distributed geographically around its service territory, and also include partial ownership of two units located in Jacksonville, Florida, and one unit in Georgia. The total system generation as of December 31, 2016 was 26,267 MW, consisting of nuclear units (3,453 MW), coal units (1,138 MW), combined cycle units (16,156 MW), oil/gas fossil steam units (3,244 MW), combustion turbines (1,841 MW), gas turbines (177 MW) and solar (259 MW) (FPL, 2017).



FPL's bulk transmission system is composed of approximately 6,926 circuit miles of transmission lines. Integration of the generation, transmission, and distribution system is achieved through FPL's approximately 605 substations (FPL, 2017).

The following information addresses the applicant identification requirements:

Applicant's Official Name:	<u>Florida Power & Light Company</u>
Address:	<u>700 Universe Boulevard, Juno Beach, FL 33408</u>
Address of Official Headquarters:	<u>700 Universe Boulevard, Juno Beach, FL 33408</u>
Business Entity (corporation, partnership, co-operative):	<u>Corporation</u>
Name and Title of Chief Executive Officer:	<u>Eric Silagy, President and CEO</u>
Name, Address, and Phone Number of Official Representative responsible for obtaining certification:	<u>Michael W. Sole, Vice President Environmental Services Department, 700 Universe Boulevard, JES/JB, Juno Beach, FL 33408 Phone: (561) 691-7003</u>
Site Location (county):	<u>Broward County</u>
Nearest Incorporated Cities:	<u>City of Dania Beach and City of Hollywood</u>
Latitude and Longitude:	<u>26° 04' 05"N; 80° 11' 54"W.</u>
UTM Coordinates:	Northerly <u>2,883.3 kilometers (km) N;</u> Easterly <u>580.7 km E (Zone 17)</u>
Section, Township, Range:	<u>Portions of Section 25, Township 50 South, Range 41 East and portions of Sections 1920 and 30, Township 50 South, Range 42 East</u>
Name Plate Generating Capacity:	<u>Site Certification: Nominal 1,200-MW (net) combined cycle unit (replacing two nominal 440 MW (net) combined cycle units).</u>

1.3 Overview of the Project

DBEC will be a net 1,200 MW nominal 2-on-1 combined cycle electrical generating unit that will consist of two new advanced-technology combustion turbine/electric generators (CTs), two new heat recovery steam generators (HRSGs), and one steam turbine/electric generator, along with adjacent supporting facilities. Natural gas will be the primary fuel for DBEC. Ultra low-sulfur distillate (ULSD)



“light oil” will be used as a backup fuel for the CTs. The natural gas will be provided by an existing pipeline connection and ULSD will be delivered by truck. The cooling water source for DBEC will continue to be the Dania Cutoff Canal with an auxiliary cooling system to supplement the once-through system. Process and potable water will continue to be obtained from existing suppliers. A decrease in process water use and no increase in cooling water or potable water use will occur as a result of the Project.

In addition to providing clean, safe, and reliable power for FPL’s customers, the Project will result in significant environmental and economic benefits. By using natural gas as the primary fuel for DBEC and advanced technology that is recognized by FDEP as the Best Available Control Technology (BACT) for minimizing air emissions, DBEC will be among the cleanest and most efficient fossil fuel electric-power generating units in Florida. The Project is estimated to generate approximately \$13.5 million in ad valorem tax revenue starting in 2023. This is comprised of approximately \$4.3 million to the City of Dania Beach, approximately \$3.9 million to Broward County, approximately \$4.7 million to the Broward County School District, and approximately \$0.6 million to other taxing authorities. Over the period of 2023 through 2063, the Project is estimated to generate approximately \$297 million in ad valorem tax revenue.

1.4 Summary of Public Outreach Program

FPL has enjoyed a constructive working relationship with the City of Dania Beach over the last several years. FPL has involved the community early in the Project to ensure that local interests and community-specific information are taken into account. Representatives of FPL have been involved with the local community surrounding the Lauderdale Site for many years. FPL uses several communication channels to engage neighbors in constructive and collaborative dialogue, providing project information and gaining input from local stakeholders.

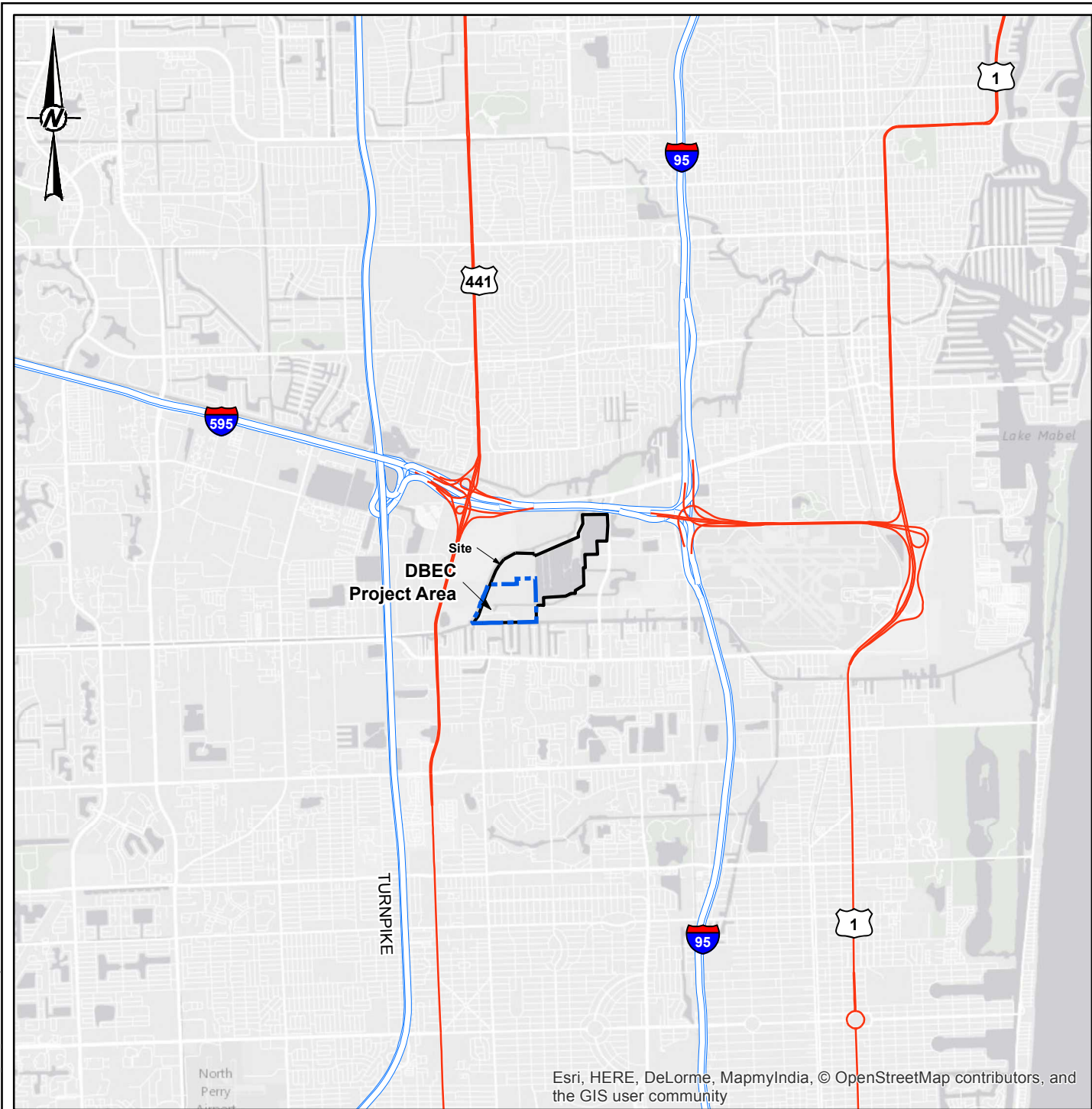
The Project was formally announced in April 2017. Since that time and leading up to the submittal of the SCA, FPL reached out to stakeholder groups including elected officials, site neighbors, environmental groups, state and federal government agencies, and local governments (see Appendix 10.1 Coordination). Local media outlets were notified about the Project to inform residents surrounding the Site.

In April 2017, FPL mailed out 310 letters to adjacent property owners. The mailing included a letter and fact sheet informing them of the Project and identified how they can provide feedback. In addition, in May 2017 FPL mailed out approximately 1,640 letters to residents and property owners near the Project informing them of a Project open house, website, and toll-free telephone number providing information. A public open house was then held on May 24, 2017, which provided FPL an opportunity



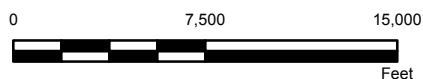
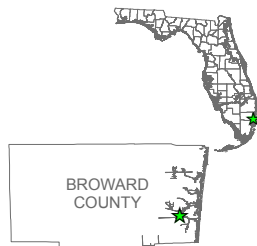
to share detailed Project information with the local community, obtain individual feedback, and answer questions. Informational resources provided at the open house and made continuously available to the public include: fact sheet; facility conceptual renderings; a website (www.FPL.com/DaniaBeachEnergy), which includes a project overview and FAQs; a PowerPoint presentation (for stakeholder briefings); and numerous information boards. Over the past several months and throughout Project permitting, FPL has and will continue to maintain proactive outreach and dialogue with the community. FPL's goal is to be the first and best source of information about the Project and is committed to responding to questions and comments in a timely manner.

FIGURES



LEGEND

- Site
- DBEC Project Area
- Major Highway
- Highway



REFERENCE(S)

SITE, A.R. TOUSSAINT & ASSOCIATES, INC., 1989
DBEC PROJECT AREA, GOLDER ASSOCIATES INC., 2017

CLIENT
FPL

PROJECT
DANIA BEACH ENERGY CENTER

TITLE
**GENERAL LOCATION
MAP**



PROJECT NO.
1773823

CONTROL
F001

YYYY-MM-DD	2017-05-15
DESIGNED	NRL
PREPARED	NRL
REVIEWED	KAB
APPROVED	KFK

REV.
0

FIGURE
1.1-1



PATH: G:\PROJECTS\FPL_Dania_Beach_Energy_Center\99_PROJECTS\173823_SCALE_SCALE_PRODUCT\ON\173823_F003_Rendering\OE\existingPlant.rvt

CLIENT
FPL



YYYY-MM-DD	2017-07-10
PREPARED	NRL
DESIGNED	NRL
REVIEWED	KAB
APPROVED	KFK

PROJECT
DANIA BEACH
CLEAN ENERGY CENTER

TITLE
RENDERING OF EXISTING
LAUDERDALE PLANT

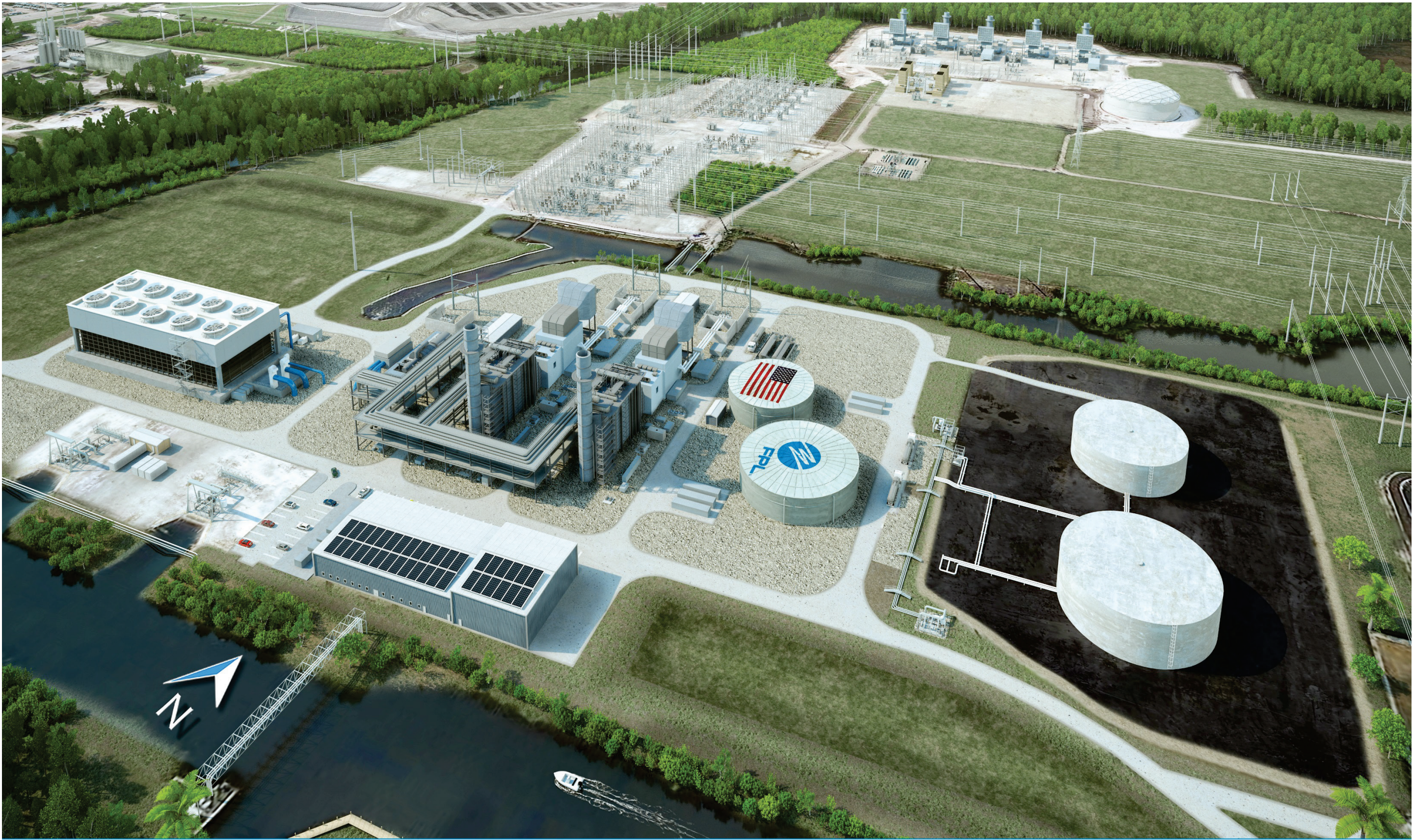
PROJECT NO.
1773823

CONTROL
F003

REV.
0

FIGURE
1.1-2

1" IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN ADOPTED FROM ANSI B



CLIENT
FPL

PROJECT
DANIA BEACH
ENERGY CENTER



YYYY-MM-DD	2017-07-26
PREPARED	NRL
DESIGNED	JGW
REVIEWED	KAB
APPROVED	KFK

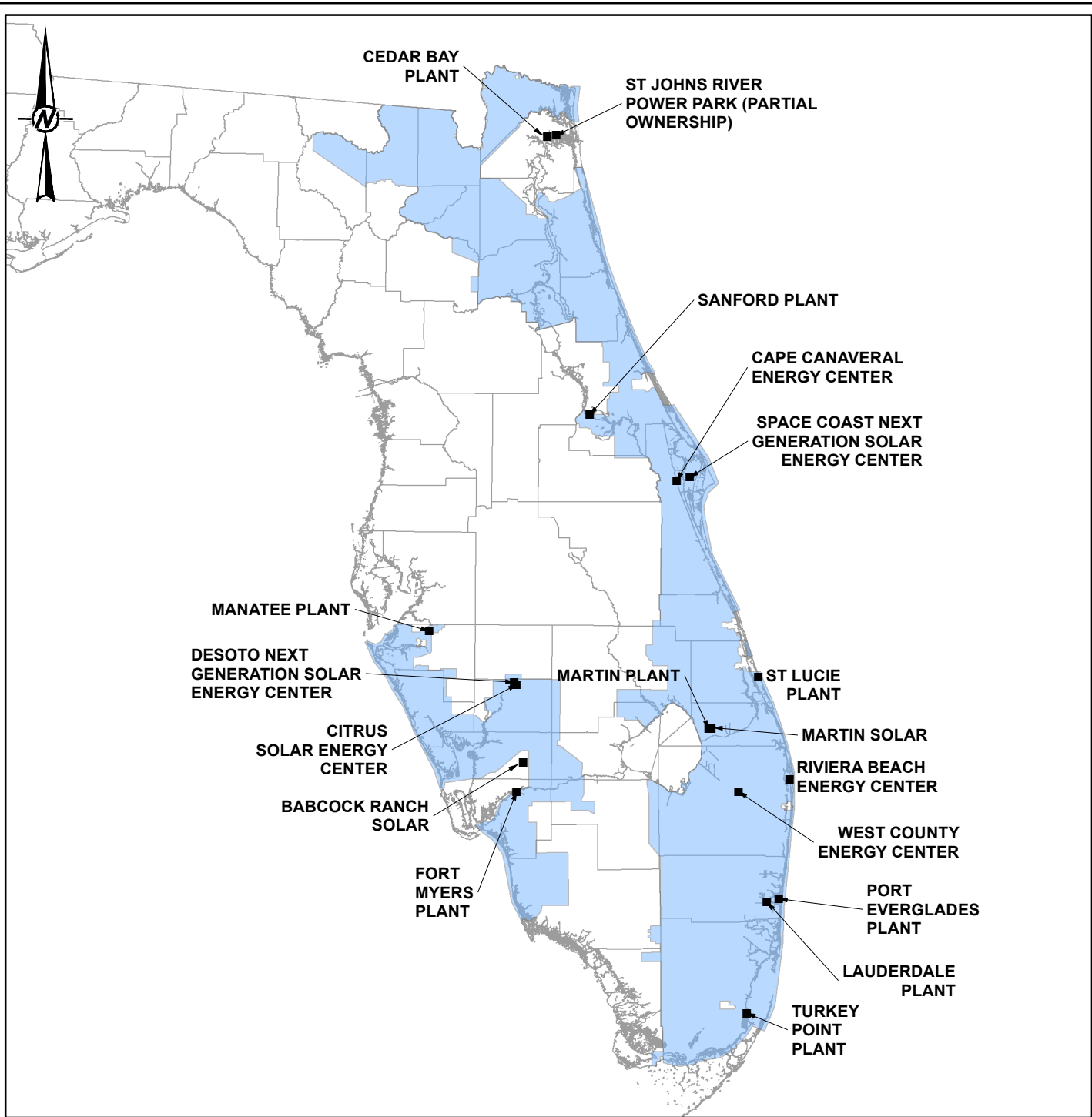
TITLE
CONCEPTUAL ILLUSTRATION OF
DANIA BEACH CLEAN ENERGY
CENTER

PROJECT NO.
1773823

CONTROL
F004

REV.
0

FIGURE
1.1-3



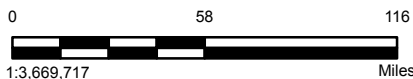
LEGEND

- FPL Power Plants
- FPL Service Territory

CLIENT
FPL

PROJECT
DANIA BEACH ENERGY CENTER

TITLE
**SERVICE TERRITORY AND
POWER PLANTS**



REFERENCE(S)
FPL SERVICE TERRITORY, FPL POWER PLANTS, FPL, 2007



YYYY-MM-DD	2017-07-10
DESIGNED	NRL
PREPARED	NRL
REVIEWED	KAB
APPROVED	KFK

PROJECT NO.
1773823

CONTROL
F002

REV.
0

FIGURE
1.2-1

2.0 NEED FOR THE PROPOSED FACILITY

The FPSC is the sole forum for the determination of need for a proposed facility subject to the PPSA (Section 403.519, F.S.). FPL will file with the FPSC a petition for an affirmative determination of need for the Project. The petition will include supporting documents and testimony that provides information on the need for the Project when considering: the need for electric system reliability and integrity; the need for adequate electricity at a reasonable cost; the need for fuel diversity and supply reliability; whether the proposed plant is the most cost-effective alternative available; whether renewable energy sources and technologies, as well as conservation measures, are utilized to the extent reasonably available; and conservation measures taken or reasonably available that might mitigate the need. The FPSC determination is anticipated by summer 2018.

3.0 SITE AND VICINITY CHARACTERIZATION

3.1 Site and Associated Facilities Delineation

The approximately 392 acre FPL Lauderdale Site is located within the Cities of Dania Beach and Hollywood in Broward County, Florida (Figure 3.1-1). The Site is accessed from the southeast by SW 43rd Court (also known as SW 42nd Street), SW 42nd Avenue from the southwest, and Marina Road from the north (Figure 3.1-1). The Project will be located within the existing Site boundaries.

As shown on Figure 3.1-1, the Site is in close proximity to major transportation facilities including major highways and roads, and an international airport. Interstate 95 (I-95) is located about 1 mile east of the Site, I-595 is located approximately 1/4 mile north of the Site, State Road-7 (S.R.-7)/U.S. Highway 441 (US 441) is located about 1/2 mile to the west, Florida's Turnpike is located about 1 mile west of the Site, Griffin Road is located about 1/3 mile south of the Site. The Fort Lauderdale-Hollywood International Airport (FLL) is immediately east of I-95, about 1 mile east of the Site. The FLL supports 650 flights per day from 26 different airlines.

DBEC will replace existing Units 4 and 5 and utilize the existing infrastructure that includes fuel delivery (gas pipeline), fuel storage (ULSD oil tanks), 138 kV and 230 kV transmission facilities, intake and discharge structures, cooling pond and water supplies. Areas of the Site will be utilized for construction of DBEC including areas for equipment laydown and construction parking. New stormwater facilities will be developed. The DBEC Site Plan is illustrated in Figure 3.1-2.

3.1.1 Existing Site Uses

The existing Lauderdale Site has been continuously used for power generation since 1927 (Figure 3.1.1-1) and currently includes two nominal 440 MW combined cycle units (Units 4 and 5), five nominal 200 MW combustion turbines (Units 6A through 6E) and two 1970s vintage nominal 35 MW gas turbines. Units 6A through 6E that began commercial operation in 2016 replaced 22 gas turbines at the Lauderdale Site and 12 gas turbines at the nearby Port Everglades Plant. Units 4 and 5 began operation in May 1993 and June 1993, respectively. The Site also includes extensive transmission and distribution facilities.

3.1.2 Adjacent Properties and Nearby Areas

The adjacent properties to the Lauderdale Site have experienced significant development since 1927. As shown in Figure 3.1.1-1, the adjacent properties were undeveloped when the Lauderdale Site was originally constructed. The adjacent properties now include residential properties to the south from the Dania Cutoff Canal to Griffin road, the Wheelabrator South Broward, Inc. South Broward Resource Recovery waste to energy facility and landfill to the west from the Site to S.R.-7/US 441, Pond Apple



Slough to the north from the Site to I-595 and commercial properties to the east from the Site to I-95. The Dania Cutoff Canal is located along the southern boundary and the South New River Canal is located along the western and northern boundaries.

Within one-mile of the DBEC are the jurisdictions of the City of Hollywood, Town of Davie, the City of Dania Beach, and Broward County. The closest residences are within the City of Dania Beach to the south of the Site.

3.1.3 One Hundred Year Flood Zone

The Federal Emergency Management Agency (FEMA) maps for the Site are shown as an overlay to the aerial image of the Site in Figure 3.1.3-1. As recorded on the Flood Insurance Rate Map (Panel No. 12011C0554H, effective 8/18/2014), the Site is situated within Zone X, AE and AH. Zone AE and AH are areas that have been determined to be inundated by 100-year flooding. Zone X is an area that is determined to be outside of the 100 and 500 year flood zones.

3.2 SOCIAL AND POLITICAL ENVIRONMENT

The PPSA is a comprehensive and coordinated review process involving multiple agencies and local governments coordinated by the FDEP Siting Coordination Office. Through the PPSA, the State has preempted the certification of electrical power plants for which the PPSA applies, and the certification issued pursuant to that process is the sole non-federal license necessary to construct, operate, and maintain an electrical power plant, including associated facilities. As a result, the licensing process is conducted pursuant to the PPSA and applicable rules, rather than the procedural requirements of the individual agencies or local governments. Applicable non-procedural requirements of reviewing agencies, including local governments, are considered during the SCA review and may be proposed for application to the Project via the conditions of certification.

The following sub-sections describe governmental jurisdictions within five miles of the DBEC, relevant provisions of the Florida Community Planning Act (FCPA), the Strategic Regional Policy Plans (SRPP) for the South Florida Regional Planning Council, and applicable land development regulations and Codes of Ordinances for the City of Dania Beach, the City of Hollywood, and Broward County Comprehensive Plan.

3.2.1 Governmental Jurisdictions

The DBEC is located within the City of Dania Beach and the City of Hollywood, within Broward County, Florida. Within 1 mile of the Site there are three municipalities (City of Dania Beach, Town of Davie, City of Hollywood) and one County (Broward). Within 5 miles of the Site there are a total of nine municipalities: City of Dania Beach, Town of Davie, Cooper City, City of Fort Lauderdale, City



of Hollywood, City of Pembroke Pines, City of Lauderhill, City of Plantation, and City of Sunrise. Within 5 miles of the DBEC there is also property within unincorporated Broward County. Figure 3.2.1-1 depicts an area map showing a 1-mile radius around the Site. Figures 3.2.1-2a, b, and c depict an area map with 1-, 2-, 3-, 4-, and 5-mile radii around the DBEC for state, county, and municipal jurisdictions, respectively.

The Seminole Tribe of Florida Hollywood Reservation is located about 1 mile southwest of the DBEC, and two locations designated as Outstanding Florida Waters (Hollywood North Beach Park and West Lake Park) occur within 5 miles of the DBEC, as illustrated on Figure 3.2.1-2a. In addition, fifteen Broward County Regional Parks and Neighborhood Parks and over 100 municipal parks occur within 5 miles of the DBEC (Figures 3.2.1-2b and c).

None of the following governmental jurisdictions are located within 5 miles of the DBEC:

- National Parks
- National Forests
- National Seashores
- National Wildlife Refuges
- National Wilderness Areas
- National Memorials or Monuments
- National Historic Landmarks
- Marine Sanctuaries
- Estuarine Sanctuaries
- Roadless Area Review and Evaluation Areas
- National Wild & Scenic Rivers
- State Marine Sanctuaries
- State Forests
- State Wildlife Refuges
- State Wilderness Areas
- State Areas of Critical State Concern
- Save Our Rivers Lands
- State Conservation and Recreation Lands
- State Archaeological Landmarks or landmark zones
- Aquatic Preserves
- Florida Springs
- Florida Wild & Scenic Rivers
- Military Reservations

3.2.2 Zoning and Land Use Plans

The Lauderdale Site is located in Broward County within two municipalities, the City of Dania Beach and the City of Hollywood. Applicable land use and zoning requirements are presented in Appendix 10.3, Zoning Descriptions, and Appendix 10.5, Land Use Descriptions. The following subsections present a summary of the comprehensive plan and zoning requirements for the local jurisdictions.

3.2.2.1 Comprehensive Plans

The Local Government Comprehensive Planning and Land Development Regulations Act of 1985 (also referred to as Florida's Growth Management Act), required each county and municipality in Florida to adopt a local comprehensive plan. The Florida Local Government Comprehensive Planning and Land Development Regulation Act was re-designated as the Community Planning Act on June 2, 2011 (Chapter 163, F.S., as amended). The Community Planning Act provides long range policy guidance for the orderly social, economic, and physical development within the State. The Community Planning Act does not create regulatory authority that is not otherwise authorized by State law (FLSCPA, 2015). The Community Planning Act maintained the requirement that each county and municipality in Florida adopt a local comprehensive plan. Comprehensive plans which were adopted prior to June 2, 2011 remained valid. Counties and municipalities must also meet the minimum criteria rule for local government comprehensive plans (Chapter 9J-5, F.A.C., as amended).

Broward County Comprehensive Plan

Pursuant to the authority granted to it by the Broward County Charter, the Broward County Comprehensive Plan is applicable to both the unincorporated area of the County and the land within the incorporated municipalities of the County (BC CP, 2017).

The Broward County Planning Council (established in 1975) serves as a multi-jurisdictional planning agency to assist in resolving planning challenges involving governmental entities within the County (BC LUP, 2017). The County Planning Council is responsible for preparing a countywide land use plan (the Broward County Land Use Plan), which establishes a framework for future development, redevelopment, and establishes the provision of facilities and services within the County. This plan covers all jurisdictions in the County and serves as the basis for the land use element of the comprehensive plans for each of the local governments in the County. The County requires that all local future land use plans conform to the land use plan and that all development be consistent with the uses, the densities and the intensities of the Broward County Land Use plan. According to the Broward County Future Land Use Map, the Site upon which the DBEC will be constructed and operated is within the Electrical Generating Facility land use classification (Figure 3.2.2-1). The permitted uses in areas designated as Electrical Generation Facility include electrical power plants and other uses determined to be ancillary to the primary use. The existing and proposed use of the Site for an electrical generating facility is consistent with the uses which are permitted by the County Plan.

City of Dania Beach Comprehensive Plan

The purpose of the City of Dania Beach Comprehensive Plan's Future Land Use Element is to identify future land uses that will "enable the city to attain the standards outlined in its Goals, Objectives and



Policies.” With the understanding that through the City’s Zoning Ordinance, the community reserves the right to further allow and/or restrict uses.

According to the City of Dania Beach Future Land Use Map, the portion of the Site that is within the City of Dania Beach is partly contained within the “Industrial” and “Utilities” future land use designations (Figure 3.2.2-2). Uses permitted within the Industrial category include utilities. Uses permitted within the Utilities category include utilities and other uses determined to be ancillary to the primary use.

Although utilities are defined to mean facilities needed to serve or constitute a public or private utility, the definition doesn’t allow electric or gas plants unless expressly indicated within the overall Future Land Use Element (Section III.G., of the Future Land Use Element). FPL will apply to the City of Dania Beach for a Comprehensive Land Use Plan Amendment for an Electrical Generation Facilities category, the associated text, and a map change for the Site. The amendment will provide for the portion of the site within the City of Dania Beach to be compatible with the Dania Beach Comprehensive Plan.

City of Hollywood Comprehensive Plan

The goal of the City of Hollywood Comprehensive Plan’s Future Land Use Element is to provide a framework for rational decision-making regarding the use and re-use of land within the city’s boundaries. The city describes the Future Land Use Map (last published April 2011) as a “generalization of the designed future development pattern for the City.” The categories are used to “only” provide general guidelines and limits. The city further states in the Future Land Use Element that in all cases, the applicable zoning ordinances and zoning map will determine the specific (allowable) use(s) and development regulations for all property within the city’s jurisdiction.

According to the City’s Future Land Use Map, the portion of the Site that is within the City of Hollywood is within the “Utilities” and the “Industrial” Future Land Use categories (Figure 3.2.2-2). The Utilities category allows electrical power plants and their customary accessory uses. The Industrial category allows utility uses. Therefore, the existing and proposed use of the Site is consistent with the uses permitted by the City’s Comprehensive Plan.

3.2.2.2 Zoning

Relevant provisions of the Zoning and Land Development Regulations for the City of Dania Beach and the City of Hollywood are summarized and discussed in the following sub-sections.

City of Dania Beach

The City's Zoning map identifies the portion of the Site that is within the City of Dania Beach as within the General Industrial zoning district (Figure 3.2.2-3) (DC CO, 2017). As indicated in Section 100-60 of the Land Development Code (a provision of the Code of Ordinances), the General Industrial district is a designation intended to provide for light and medium intensity industrial, research, and assembly fabrication uses. As stated in Section 115-40 of the Land Development Code, utilities, such as electrical power plants, are permitted within a General Industrial zoning designation as a special exception use.

Units 4 and 5 were constructed and operational prior to the land being annexed to the City of Dania Beach, therefore, the Site is identified as an "existing non-conforming use." Significant changes to the Site will require consistency with applicable provisions of the City's Code. Although FPL is not expanding the Lauderdale Site boundaries, and no land use consistency is required under the PPSA and Ch. 62-17, FPL will seek a Special Exception Use from the City Commission for the Project.

City of Hollywood

The City's Code of Ordinances and the Zoning and Land Development Regulations implement the goals, objectives, and policies of the City's Comprehensive Plan and regulate the development within the City.

According to the City of Hollywood zoning map, the portion of the Site that is within the City of Hollywood is situated within the Limited Agricultural District (AD) (a Specialized Zoning District) and the Industrial and Manufacturing District-Medium Intensity (IM-3) zoning designations (Figure 3.2.2-3).

As indicated in Section 4.4(C) of the Land Development Regulations, the purpose of the IM-3 District is to provide for uses that may be objectionable to or incompatible with residential uses (such as uses that produce effects in the form of noise, odor, vibration, smoke, particulate matter, glare, heat, fire or explosive). As indicated in Section 4.5 of the Land Development Regulations, the purpose of the AD District is to provide for farming purposes and to other areas where it is premature to apply a more restrictive zoning designation, although uses that are customarily associated or an accessory use to the main permitted use are allowed within this district.

FPL is proposing to locate parking and accessory services to the DBEC on the portion of land located within the City of Hollywood. DBEC will comply with applicable provisions of the city's Zoning and Land Development Regulations.

3.2.3 Demography and Ongoing Land Use

3.2.3.1 Demography

Within 5 miles of the DBEC there are a total of nine municipalities:

- City of Dania Beach,
- Town of Davie,
- City of Fort Lauderdale,
- City of Hollywood,
- City of Lauderhill,
- City of Pembroke Pines,
- City of Plantation,
- City of Sunrise, and
- Cooper City

Within 5 miles of DBEC there is also property within unincorporated Broward County.

Using the available U.S. Census information, the table below depicts the population from 2000 to 2015, with the population changes between 2010 and 2015 identified. From 2010 to 2015, the population for the City of Dania Beach increased by 6.1 percent, while the population within Broward County and the State of Florida increased by 6.29 and 6.13 percent, respectively (U.S. Census Bureau, 2017).

Jurisdiction	U.S. Census 2000	U.S. Census 2010	2015 Estimates	Percent Change (2010 – 2015)
City of Hollywood	139,357	140,768	149,728	6.37%
City of Dania Beach	20,061	29,639	31,446	6.10%
Town of Davie	75,720	91,992	100,882	9.66%
City of Fort Lauderdale	152,397	165,521	178,590	7.90%
City of Lauderhill	57,585	66,887	71,579	7.01%
City of Sunrise	85,779	84,439	92,700	9.8%
City of Plantation	82,934	84,955	92,560	8.95%
City of Pembroke Pines	137,427	154,750	166,611	7.7%
Cooper City	27,939	28,547	35,364	23.9%
Broward County	1,623,018	1,734,139	1,843,152	6.29%
Florida	15,982,378	18,511,620	19,645,772	6.13%

According to the University of Florida Bureau of Economic Business Research (UF/BEBR, 2017), the median population projections for all of Broward County for 2045 indicate continued growth, with an estimated population of approximately 2,290,800, a 24.3 percent increase from the 2015 estimates.

3.2.3.2 Ongoing Land Use

Existing land use patterns in the vicinity of the DBEC are depicted in Figure 3.2.3-1. Land uses that immediately surround the DBEC consists of County resource facilities, commercial, industrial, residential, and transportation services. Within the 5 mile radius are areas that consist of low density residential, regional activity centers, industrial, transportation, and commercial uses. The closest residences are located south of DBEC across the Dania Cutoff Canal within the city of Dania Beach.

Based on the population data and the existing land use data, there are no abnormal changes in the population or land use patterns in the vicinity of the Site. State, county, and local recreational areas are situated throughout the county in areas designated and used for parks and recreation. These areas are not in the immediate vicinity of the Site and would not be affected by the construction or operation activities associated with the Project.

3.2.4 Leases, Easements, Title, Agency Works

The need for additional public leases, easements, titles, or agency works approvals is not anticipated for the Project. The existing SFWMD authorization (Permit #9234) for facilities located within the South Fork of New River Canal and Dania Cutoff Canal rights-of-way associated with the Lauderdale Site is provided in Appendix 10.6.

3.2.5 Regional, Scenic, Cultural, and Natural Landmarks

There are two locations designated as Outstanding Florida Waters (Hollywood North Beach Park and West Lake Park), fifteen Broward County Regional Parks and Neighborhood Parks, and over 100 municipal parks within 5 miles of the Site (Figures 3.2.1-2a through c).

3.2.6 Archaeological and Historical Sites

A cultural resource assessment was conducted in accordance with Chapter 267, F.S. (Florida Historical Resources Act), Chapter 1A-46, F.A.C. (Archaeological and Historical Reporting Standards and Guidelines) to assist in identifying any previously recorded cultural resources and areas with the potential for containing unrecorded cultural resources within the Project Area. A copy of the cultural assessment report is provided in Appendix 10.7.1 Cultural Resources. A brief description of the findings are provided in this section and a discussion of potential impacts from the Project are discussed in Section 5.9.

The assessment consisted of researching and reviewing: the Florida Master Site File (FMSF), U.S. Geological Survey (USGS) quadrangle maps, previous cultural resource studies, property appraiser data, historic plat maps and aials. In addition, a pedestrian survey was conducted by an archaeologist and an architectural historian and the Site was assessed for significance in accordance with the State of Florida cultural resource guidelines. The FMSF serves as an archive and repository of information about Florida's recorded cultural resources that are listed, eligible, or potentially eligible for the National Historic Preservation Act (NHPA) and resources with potential or confirmed human remains. The USGS quadrangle maps, historic plat maps, and historic aials were reviewed to establish the pre-development environment and land use history of the Project Area, as well as identify any potential historic resources within the vicinity of the Project Area. Previous investigations were reviewed to compile information about the types of historic and cultural features that could be expected to occur within the Project Area.

The study determined that there are no previously recorded archaeological or historical sites eligible for listing in the National Register of Historic Places within the DBEC Project Area and no cultural resources will be affected by the construction of the DBEC.

Florida Division of Historical Resources (FDHR) was provided a copy of the cultural resource assessment for concurrence with the recommendations and findings of the report in accordance with Chapter 1A-46 F.A.C. Correspondence resulting from the FDHR's review will be submitted upon receipt.

3.2.7 Social and Economic Characteristics and Public Services

3.2.7.1 Social and Economic Characteristics

Labor force, employment by occupation, employment by industrial sector, baseline employment projections, general income characteristics, source of income, average wage and salary income by sector, baseline income projections, housing, existing housing stock, building activity, and housing costs are discussed below.

Labor Force

Broward County's labor force was reported at 1,033,009 in March 2017, with approximately 991,364 residents listed as employed [Florida Department of Economic Opportunity (FDEO), 2017]. According to Florida labor statistics, Broward County had an unemployment rate of 4.0 percent for March 2017, which is a 0.5 percent decrease since March 2016. For the State of Florida and the U.S., unemployment was 4.8 and 4.5 percent (seasonally adjusted), respectively, for March 2017. In March 2016, the unemployment rates reported were 4.9 percent for the state and 5.0 percent for the U.S., respectively.



The average monthly private-sector employment by major industry groups in Broward County for 2016, as reported by the FDEO, is depicted in the following table. Construction and utilities provide approximately 5.03 and 0.11 percent of the county's employment, respectively, while a large portion of the county employment is supplied by professional and business services (16.44 percent) and retail trade (12.87 percent).

Major Industry Group	Employment	Major Industry Group	Employment
All Industries	870,161	Agriculture, Forestry, Fishing, and Hunting	840
Mining	110	Utilities	966
Construction	43,786	Manufacturing	27,279
Wholesale Trade	48,277	Retail Trade	112,026
Transportation and Warehousing	24,958	Information	19,256
Finance and Insurance	37,535	Real Estate and Rental and Leasing	21,212
Professional Scientific and Technical Services	55,026	Management Companies and Enterprises	7,955
Administrative and Support Services	77,362	Educational Services	21,504
Health Care and Social Assistance	82,642	Arts, Entertainment, and Recreation	12,156
Accommodation and Food Services	80,976	Other Services	35,758
Government	101,552		

Source: Floridajobs.org, 2017.

The Broward County employment annual projections for the construction and utilities industries are estimated to be 12.3 and 0.6 percent, respectively, between 2016 and 2024 (FDEO, 2017).

General Income

Based on 2015 estimates, the City of Dania Beach had an estimated per-capita personal income of \$23,935, which is a decrease of \$804 since 2010 (U.S. Census, 2017). The City of Hollywood had an estimated per-capita personal income of \$26,357, which is a decrease of \$958 since 2010 (U.S. Census, 2017). Based on 2015 estimates, Broward County had an estimated per capita personal income of \$28,381 compared to the state of Florida's per capita personal income of \$26,829, respectively (U.S. Census, 2017).

The median household income in the City of Dania Beach was estimated at \$41,566 in 2015, which is a 6.7-percent decrease from the 2010 median household income (U.S. Census, 2017). The City of Hollywood median household income in 2015 was estimated at \$46,791, which was a 2.4 percent increase from 2010. The median household income in Broward County in 2015 was estimated at

\$51,968, which was a 0.53 percent increase since 2010. The State of Florida had a median household income of \$47,507 in 2015, which was a 0.32 percent decrease since 2010.

In Broward County, construction employment makes up approximately 6.1 percent of the civilian employed population (9.5 percent in the City of Dania Beach and 7.9 percent in the City of Hollywood) (U.S. Census, 2017), with the average yearly wage per construction job at \$53,423 based on the third quarter of 2016 reporting (FDEO, 2017).

Housing

The total number of housing units in Broward County was 814,454 in 2015, with 17.7 percent of those units vacant. The total number of housing units in the City of Dania Beach was 15,743, with 22.5 percent of those units vacant in 2015. In the City of Hollywood, the total number of housing units was 70,244, with 20.5 percent of those units vacant in 2015 (U.S. Census, 2017).

The total occupied housing units in Broward County for 2015 was 670,284 (City of Dania Beach was 12,202 and the city of Hollywood was 55,823), with 63.5 percent of those units occupied by the owners (City of Dania Beach; 50.6 percent and City of Hollywood; 58.6 percent) and 36.5 percent occupied by renters (City of Dania Beach; 49.4 percent and city of Hollywood; 41.4 percent). The median value of a home in Broward County, the City of Dania Beach, and the City of Hollywood in 2015 was estimated at \$185,900, \$160,100, and \$181,700, respectively (U.S. Census, 2017).

In Broward County, transient accommodations (i.e., public lodgings, vacation rentals, motels, and hotels, rooming house, and bed & breakfasts establishments) are plentiful with approximately 3,602 establishments providing 147,946 units based on 2015 information. In addition, the County has approximately 2,581 apartment establishments, with approximately 109,509 apartment units in the County based on 2015 information (UF/BEER, 2017).

3.2.7.2 Area Public Service and Utilities

Education

The Broward County Public School District includes (BCDOE, 2017):

- 136 elementary schools
- 38 middle schools
- 33 high schools
- 7 combination schools
- 19 adult/technical centers

- 3 colleges
- 99 charter schools

Broward County had a total enrollment of 220,184 students for the 2016-17 school year. This enrollment represents an 838-student decrease since the 2012-13 school year. Broward County schools employed approximately 32,899 personnel (14,640 instructional staff; 10,362 support staff; 1,389 administrators; and 6,508 substitute/temporary teachers) for the 2016-17 school year (Broward County School District, 2017). By school year 2021-22, the County anticipates an increase in the school enrollment to approximately 221,277 (approximately 0.5-percent increase over the 2016-17 enrollment) (BCDOE, 2017).

Within 5 miles of the Site, there are approximately 73 public schools and 52 private schools (BCDOE, 2017 and PSR, 2017). There are no schools located within 1 mile of the Site.

Transportation

The Site is located between Florida's Turnpike to the west, I-95 to the east, Griffin Road to the south and I-595 and State Road (SR) 84 to the north. The Site is accessed from the southeast by SW 43rd Court (also known as SW 42nd Street), SW 42nd Avenue from the southwest, and Marina Road from the north. Primary construction access will be from the east via SW 43rd Court/42nd Street and from the north via Marina Road to an unnamed north access road located adjacent to the Lauderdale Site cooling pond. The existing level-of-service (LOS) for the east construction entrance (SW 43rd Court/42nd Street), based on Florida Department of Transportation (FDOT) and Traf Tech Engineering, Inc. traffic counts at the intersection of SW 42nd Street and SW 30th Avenue, is LOS C for the AM peak hour and LOS F for the PM peak hour. For the north access, the existing LOS at the intersection of SW 30th Avenue and the unnamed north access road is LOS B for the AM peak hour and LOS C for the PM peak hour. A traffic study was performed that included an assessment of existing traffic as well as an evaluation of the impacts of construction and operation (see Appendix 10.7.2).

Medical Facilities

The Broward County Sheriff's Office, Department of Fire Rescue will support FPL during an emergency situation by responding and providing emergency medical services to the Site (BCSO, 2017).

Two of the seven Level 1 trauma centers in the State of Florida are located within 5 miles of the Site: Broward Health and Memorial Regional Hospital. Both are equipped to handle life-threatening



emergency situations. In addition, a Level II trauma center is located at Broward Health North, which is one of two designated trauma units that serves the northern two-thirds of the county. This location is approximately 16 miles north of the Site.

Broward County has approximately 233 nursing and residential care facilities (UF/BEER, 2017). There are approximately 4,615 licensed physicians of medicine and 825 licensed physicians of osteopathy, 22,755 registered nurses, and 6,379 licensed practical nurses in the county (UF/BEER, 2017).

Police Protection

The Broward County Sheriff's Office provides law enforcement, fire rescue, dispatch, and emergency services for the Site (BCSO, 2017). The County Sheriff's Office employs a staff of approximately 5,400. The Broward County Sheriff's Office, Port Everglades District Office, has a jurisdiction of approximately 2,190 acres and encompasses land within three municipalities (City of Hollywood, City of Fort Lauderdale, and the City of Dania Beach), including the Site. The Port Everglades District Office is located approximately 4 miles east of the DBEC.

Fire Fighting Facilities

The Broward County Sheriff's Office, Department of Fire Rescue, provides fire suppression, fire protection, emergency medical services and educational programs throughout the County (BCSO, 2017). Fire Rescue operates five battalions in 22 locations in the County that includes 17 engines, 7 aerials, 1 industrial fire truck, 3 aircraft fire-rescue crash trucks, 1 helicopter, 23 ALS transport units and a cross-staffed brush truck, chemical fire suppression truck and foam tanker. Fire Rescue also administers Hazardous Materials, Air Rescue, Everglade Rescue and Technical Rescue teams. The county has more than 700 professional and highly-trained operations, support and administrative personnel. Fire Rescue will support the Site during a fire and/or emergency situation by responding and providing emergency medical services.

Recreation Facilities

Broward County and the municipalities within the County offer recreational activities to residents and visitors. Broward County Parks and Recreation Division manages 6,500 acres that encompasses approximately 50 regional parks, nature centers, neighborhood parks, and natural areas (Broward Parks, 2017).

Within 5 miles of DBEC there are 15 Broward County Regional and Neighborhood Parks (Figure 3.2.1-2c):

- Boulevard Gardens Park
- Brian Piccolo Park
- Central Broward Regional Park
- Reverend Samuel Delevoe Park
- Lafayette Hart Park
- Franklin Park
- Roosevelt Gardens Park
- Secret Woods Nature Center
- Topeekeegee Yugnee Park
- Tree Tops Regional Park
- West Lake Park/ Anne Kolb Nature Center
- Pine Island Park
- Pine Island Ridge Natural Area
- Plantation Heritage Park
- Sunview Park

Electricity and Gas

Electricity is provided by FPL to Broward County and the Site. Natural gas is provided to businesses and residents by Florida Public Utilities Company and TECO Peoples Gas (FPU, 2017 and TECO, 2017).

Natural gas is supplied to the region by a Florida Gas Transmission Company pipeline and is distributed to commercial and residential customers by TECO Peoples Gas and Florida Public Utilities Company. Through Broward County, Florida Gas Transmission Company maintains an 18-inch and 24-inch natural gas pipeline. The natural gas lateral to the Site is provided by Florida Gas Transmission Company (FGT, 2017).

Water Supply and Domestic Wastewater Treatment Facilities

The Site receives potable water from the City of Hollywood for employee use and irrigation purposes. Sanitary sewage is collected from the Site and routed to the City of Hollywood's regional publicly owned treatment works, via a line connected to the Port 95 Commerce Park's connection.

The City of Hollywood Public Utilities Department is responsible for providing water service to 140,000 permanent residents and tens of thousands of seasonal residents and visitors each year, with over seven billion gallons served. The Southern Regional Wastewater Treatment Plant uses state-of-the-art technology to treat and dispose of nearly 39.1 million gallons of effluent each day.

The Site receives process water from Broward County Utilities Division District.

Solid Waste Disposal

The collection and disposal of existing solid waste generated within the City of Dania Beach is overseen by the City's Public Service Department; involving garbage and recycling pick up, through a contract with Waste Management (DCWM, 2017). Approved contractors collect and transport the solid waste generated at the Site for recycling or disposal. Minor amounts of hazardous wastes (waste solvents, oil, paints, and other chemicals) are generated from the existing operation. The existing FPL facility is a Small Quantity Generator (SQG) of hazardous waste, and this designation is not expected to change with the Project.

Within Broward County, there are 35 licensed solid waste management facilities in Broward County. This includes two municipal solid waste (MSW) resource recovery facilities, 12 transfer stations, 12 recycling facilities, 4 landfills (2 active, 2 long-term care), and 5 other licensed facilities (e.g., hauling) (BCWM, 2017).

3.3 Physical and Biological Environment

3.3.1 *Geology and Hydrology*

The geology and hydrology of the site vicinity are summarized below. The information presented in this section provides a summary of the geohydrologic baseline information and draws heavily upon previously published regional studies. The regional studies include, but are not limited to:

- Reese, R.S. and Richardson, E., 2008, Synthesis of the Hydrogeologic Framework of the Floridan Aquifer System and Delineation of a Major Avon Park Permeable Zone in Central and Southern Florida: U.S. Geological Survey Scientific Investigations Report 2007-5207, 60 pp., 4 pls., plus apps.
- Preliminary Hydrogeologic Framework, ASR Regional Study, Final Report [Ron Reese (USGS) and Emily Richardson (SFWMD), October 4, 2004].

- Reese, R.S. and Memberg, S.J., 2000. Hydrogeology and the Distribution of Salinity in Floridan Aquifer System, Palm Beach County, Florida, U.S. Geological Survey, Water Resources Investigations Report 99-4061.

A general description of the geology and hydrogeology of eastern Broward County, including the Lauderdale Site, is provided below. The Site lies in the physiographic region of the Atlantic Coastal Ridge (Fernald and Patton, 1984).

The following is a summary of the lithology and approximate thickness of each geologic unit anticipated at the DBEC (Figure 3.3.1-1), based on regional geology from oldest to most recent.

The top of the Cedar Keys Formation forms the base of the Floridan Aquifer System (FAS). This formation is comprised of massive anhydrite beds with low permeability. The top of the formation is usually found 500 to 600 feet below the Boulder Zone (Reese and Memberg, 2000).

The Oldsmar Formation is limestone interbedded with dolomite. The Oldsmar Formation is approximately 1,100 to 1,500 feet thick in Broward County. The lower 300 to 600 feet of the Oldsmar Formation, locally called the Boulder Zone, is predominantly dolomite and contains massively bedded, cavernous, or fractured dolomite of high permeability and dense, recrystallized dolomite of low permeability. At the site, the top of the Boulder Zone is approximately -2,900 to -3,000 feet National Geodetic Vertical Datum of 1929 (NGVD 29) (Reese and Memberg, 2000).

The Avon Park Formation in Broward County is composed predominantly of limestone interbedded with dolostones. Cherty dolostones are typical in the lowermost Avon Park Formation. The Avon Park Formation is approximately 1,000 feet thick in the study area. In Broward County, the top of the Avon Park Formation is approximately -1,100 feet NGVD 29 to -1,200 feet NGVD 29. The upper portion of the Avon Park Formation is part of the Upper Floridan Aquifer (UFA). Confining units separate the UFA from the Lower Floridan Aquifer (LFA).

The Ocala Limestone overlies the Avon Park. The Ocala Limestone is micritic or chalky limestone, to a medium-grained calcarenitic limestone, to a coquinoid limestone. Regionally, this unit varies in thickness from 0 to 300 feet. This unit is part of the UFA.

Rocks of Miocene age at the site belong to the Hawthorn Group. The Hawthorn Group is divided into lower carbonate and upper clastic sequences. The lower carbonate sequence is composed of poorly to moderately indurated phosphatic micrites and dolomites. The upper clastic sequence is composed primarily of greenish-gray phosphatic silts interbedded with coarse sand and sandstones. Clay beds in the Hawthorn Group function as the upper confining units for the FAS (Duncan et al., 1994). In the

area of the site, this unit ranges from 650 to 750 feet in thickness and the top of the Hawthorn Group is approximately –300 feet NGVD 29. The top of the Hawthorn Group occurs at a poorly consolidated sand or sandy silt beneath the biogenic limestones of the Tamiami Formation.

The formation of Pleistocene age consists of alternating beds of Miami Oolite, Anastasia, Fort Thompson and Key Largo Formations of sandstone, shell and limestone, which are intermixed with the Pamlico Sands (Reese, 1994).

The undifferentiated deposits consist of unconsolidated shell beds, sandy clay, quartz sands, and sandy and shelly limestone. At the site, the thickness of the surficial aquifer is approximately 300 feet.

Subsurface exploration was performed in 2017 to support the construction of the Project; the resulting geotechnical report is included in Appendix 10.8. Based on the geotechnical data, the Site is suitable for the Project. Lightly loaded structures could be supported on shallow foundations established in structural fill. Paving for access roads or parking areas could also be supported by structural fill. Heavily loaded structures will be supported on deep foundations such as piles, augured cast piles, stone columns, or other ground improvement methods to reduce settlement to acceptable levels.

3.3.2 Subsurface Hydrology

There are four major components to the subsurface hydrogeologic framework in southern Florida: the unconfined Surficial Aquifer System (SAS), which in coastal Broward County is part of the Biscayne Aquifer; the nearly impermeable sediments of the Hawthorn Group, which separates the SAS from the Floridan Aquifer; the confined FAS, which includes both the UFA and the LFA; and the Boulder Zone, which is part of the LFA. These components are discussed further below.

The Biscayne Aquifer (surficial aquifer) is an unconfined aquifer that underlies approximately 4,000 square miles within Palm Beach, Broward, Miami-Dade, and Monroe Counties. In Broward County, the SAS is comprised primarily of sands, shell beds, and sandy limestone. In eastern Broward County, the SAS varies in thickness from 200 to 350 feet. At the DBEC, the SAS is between 250 and 300 feet thick. The transmissivity of the aquifer at the site is between 3 and 5 x 10⁵ ft²/day (Appel, 1973).

The Intermediate Confining Unit (ICU) is present throughout the Broward County and consists of phosphatic clay, silt, sand, limestone, and dolomite deposits of the Hawthorn Group. The Hawthorn Group sediments serve as a confining unit separating the SAS from the FAS. In the vicinity of the site, the ICU is approximately 700 to 800 feet thick and well-confined.

The FAS in the vicinity of the site consists of the UFA, Middle Confining Unit (MCU), and LFA and ranges in age from Paleocene to Eocene. The uppermost permeable zones in the UFA occur in close association with an unconformity at the base of the Hawthorn Group. The top of the FAS near the site is approximately -1000 feet NGVD 29. The thickness of the FAS near the site is between 2,800 and 2,900 feet. The MCU from -1,200 to -2,050 feet NGVD 29 is the primary confinement between the UFA and the LFA. The MCU contains a permeable zone, approximately 150 feet thick, called the Avon Park Permeable Zone (APPZ). In the area of the Site, the APPZ is likely found between -1,400 and -1,650 feet NGVD 29. The LFA is approximately 1,700 feet thick and includes the Boulder Zone. The MCU that separates the UFA and LFA consists of sediments from the Middle Eocene era with compositions similar to the UFA and LFA. Near the site, the top of the MCU is approximately -1,200 feet NGVD 29 and the total thickness is approximately 800 feet. The confining unit separating the UFA and the APPZ is approximately 200 feet thick. The confining unit separating the APPZ and the LFA is approximately 400 feet thick. Near the site, water in the APPZ has Total Dissolved Solids (TDS) concentrations between 5,000 milligrams per liter (mg/L) and 35,000 mg/L.

The LFA is below the MCU and above the sub-Floridan confining unit. The LFA consists of the thick complex sequence of limestone and dolostone. Near the coast, water in the LFA has TDS concentrations of 35,000 mg/L or more. The top of the LFA is approximately -2,100 feet NGVD 29. The thickness is estimated to be 1,700 feet. The LFA also contains the Boulder Zone.

The deeply buried zone of cavernous permeability, called the Boulder Zone, is found in fractured dolomite in the LFA and underlies most of southern Florida. The top of the Boulder Zone is irregular and near the site the top is approximately -2,900 to -3,000 feet NGVD 29. The permeability of the Boulder Zone is extremely high because of its cavernous nature.

3.3.3 Site Water Budget and Area Users

The Site is located in southeast peninsular Florida, which has a climate characterized as mild subtropical. Temperatures in the vicinity [measured at Fort Lauderdale-Hollywood International Airport (FLL), Florida] range from an average low of approximately 57 degrees Fahrenheit (°F) in January to an average high of approximately 90°F in August, with an annual average temperature of approximately 79°F.

The mean total annual rainfall in Fort Lauderdale, Florida is 66.64 inches, with mean monthly totals ranging from 2.39 to 9.81 inches. Generally, the period of the year with the heaviest rainfall is from

June to October, and 62 percent of the annual rainfall occurs during the wet season (<http://www.weather.com/weather/wxclimatology/monthly/graph/USFL0149>).

Mean annual evaporation (type-A pan) is 74.5 inches (SFWMD, DBHYDRO Database, Station S140 SPW E, 1985 to 2011). Average evaporation is less than 6 inches per month (in/month) from October through February and between 6.5 and 8.7 in/month between March and September. Mean annual potential evaporation is approximately 54 inches per year (in/yr) (SFWMD DBHYDRO Station S140W, 2005 to 2011). Mean annual lake evaporation in eastern Broward County is approximately 51 in/yr (Fernald & Patton, 1984). Evapotranspiration from plants and soil, which is less than lake evaporation, is approximately 39 to 42 in/yr (Fernald & Patton, 1984). Consequently, regional surface water runoff and surficial aquifer recharge combined is between 13 and 28 in/yr. In the area of the site, surficial aquifer recharge is limited due to the high percentage of directly connected impervious area. Therefore, most of the excess rainfall (precipitation minus evapotranspiration) is removed as stormwater runoff.

The two major aquifers in Broward County are recharged from separate sources. The surficial aquifer is primarily supplied by rainfall in Broward and Palm Beach Counties. The UFA is supplied by rainfall in the topographically high areas centered in Polk and Highlands Counties. A very small amount of water flow (i.e., less than one in/yr) recharges the SAS from the UFA due to the artesian pressures in the UFA.

There is a complex hydrologic interaction between the SAS and the extensive network of navigation channels, water supply and drainage canals in southeast Florida. These canals, levees, pumps, and water control structures that were constructed by the USACE as part of the Central and South Florida Flood Control Project are currently operated by SFWMD. The FAS is confined by more than 600 feet of low permeability sediments. Therefore, there is very little interaction between the Floridan and the surficial aquifers. The upward recharge of the surficial aquifer from the FAS is approximately 1 in/yr.

3.3.4 Surficial Hydrology

The surface water features that border the DBEC are the Dania Cutoff Canal to the south and the South New River Canal on the west and north. A cooling pond of approximately 185 acres is located on the northeast portion of the Lauderdale Site. The intake for the once-through condenser cooling system is on the Dania Cutoff Canal and flows through the cooling pond system and connects in the northeast to the South Fork New River.

The flow of freshwater into the South New River Canal and South Fork New River is controlled by SFWMD at structures approximately one mile west of the DBEC. Freshwater flows in the Dania Cutoff Canal are from the South New River Canal. All surface waters adjacent to the Lauderdale Site are tidally influenced.

The cooling pond receives flow from the once-through condenser cooling system as well as tidally from the South Fork New River. Surface water discharges resulting from the operation of the existing Lauderdale facility are authorized by the Industrial Wastewater Facility Permit issued by FDEP (Permit No. FL0001503).

Surface water and groundwater use in the vicinity of the Site is regulated by SFWMD. Information gathered from the SFWMD was used to prepare the following summary of water uses near the Site. Figures 3.3.3-1a, 3.3.3-1b, and 3.3.3-1c presents the water use permits within 5 miles of DBEC for surface water withdrawals, Biscayne Aquifer withdrawals and Floridan Aquifer withdrawals.

3.3.5 Vegetation/Land Use

Characteristic vegetative communities/land uses were classified utilizing the Florida Land Use, Cover and Forms Classification System (FLUCFCS) Level III (FDOT, 1999) during field reconnaissance conducted in 2013, 2015, and 2017 (Figure 3.3.5-1). The Site comprises approximately 392 acres, 134 acres of which will be used as the Project Area for construction of DBEC. The DBEC Project Area is primarily occupied by electric power generating facilities, buildings, parking lots, and other infrastructure (FLUCFCS 831), with additional areas of mixed native and exotic wetland hardwoods (FLUCFCS 617/619), exotic wetland hardwoods (FLUCFCS 619), mangroves (FLUCFCS 612), a portion of the Dania Beach Cutoff canal (FLUCFCS 512), and the cooling pond (FLUCFCS 532). Vegetative communities within and adjacent to the DBEC Project Area are discussed in detail in Subsection 3.3.6.1.

3.3.6 Ecology

3.3.6.1 Species-Environmental Relationships

The following subsections include descriptions of flora and fauna within the Project Area and surrounding areas. This discussion includes information related to the species found and the value of the habitats present, by FLUCFCS Level III codes.

Terrestrial Ecology Systems – Flora

Upland Shrub and Brushland (FLUCFCS 320) – Areas classified as upland shrub and brushland comprise approximately 2.61 acres along the western edge of the Project Area adjacent to the South



New River Canal. Common vegetative species within this area include Brazilian pepper (*Schinus terebinthifolius*), seagrape (*Coccoloba uvifera*), shoebutton ardisia (*Ardisia elliptica*), Virginia creeper (*Parthenocissus quinquefolia*), camphorweed (*Heterotheca subaxillaris*), nettletree (*Trema micrantha*), castor bean (*Ricinus communis*), muscadine (*Vitis rotundifolia*), climbing hempvine (*Mikania scandens*), bermudagrass (*Cynodon dactylon*), and bushy broomsedge (*Andropogon glomeratus*).

Australian Pine (FLUCFCS 437) – Upland areas dominated by the exotic species Australian pine (*Casuarina equisetifolia*) occur on the southeastern edge of the DBEC Project Area adjacent to the cooling pond, comprising approximately 1.38 acres. Subdominant species within this community include a variety of primarily exotic species, including shoebutton ardisia, Brazilian pepper, oyster plant (*Tradescantia spathacea*), castor bean, wandering jew (*Tradescantia zebrina*), Madagascar periwinkle (*Catharanthus roseus*), woman's tongue (*Albizia lebbek*), and Washington palm (*Washingtonia robusta*). Occasional native species also occur, such as seagrape, morning glory (*Ipomoea* sp.), wild boston fern (*Nephrolepis exaltata*), cabbage palm (*Sabal palmetto*), and nettletree.

Canals (FLUCFCS 512) and Spoil Areas (FLUCFCS 743) – The Project Area includes a portion of the Dania Beach Cutoff canal as well as the discharge canal leading to the cooling pond. The canals were historically dredged and support a variety of primarily wetland vegetation along their banks, including white mangrove (*Laguncularia racemosa*), pond apple (*Annona glabra*), cocoplum, seagrape, myrsine (*Myrsine cubana*), napiergrass (*Pennisetum purpureum*), and Brazilian pepper. Areas of upland spoil piles occur adjacent to the Dania Beach Cutoff canal, supporting a primarily exotic vegetative community with a species composition similar to areas classified as Australian pine (FLUCFCS 437).

Mangrove Swamp (FLUCFCS 612) – A parcel of mangrove swamp comprising approximately 10.57 acres occurs on the east side of the Project Area adjacent to the cooling pond. The canopy is dominated by native white mangrove and pond apple, with red mangrove (*Rhizophora mangle*) and black mangrove (*Avicennia germinans*) also present, as well as scattered Australian pine. The shrub and groundcover layer includes the exotic species Brazilian pepper, shoebutton ardisia (*Ardisia elliptica*), and napiergrass, as well as native species cocoplum (*Chrysobalanus icaco*), saltwater falsewillow (*Baccharis angustifolia*), salt grass (*Distichlis spicata*), and hurricane grass (*Fimbristylis spathacea*).

Mixed Wetland Hardwoods/Exotic Wetland Hardwoods (FLUCFCS 617/619) – The majority of forested wetlands within the Project Area are dominated by a combination of native and nuisance exotic species, comprising approximately 15.23 acres. The canopy is comprised of a mixture of exotic and native species, including the exotics Australian pine, Brazilian pepper, and melaleuca (*Melaleuca quinquenervia*), as well as native species pond apple, swamp bay (*Persea palustris*), red maple (*Acer*

rubrum), myrsine, and dahoon holly (*Ilex cassine*). A variety of understory species are present, including wild coffee (*Psychotria nervosa*), Carolina willow (*Salix caroliniana*), cocoplum, leather fern (*Acrostichum danaeifolium*), Peruvian primrosewillow (*Ludwigia peruviana*), royal palm (*Roystonea regia*), sawgrass (*Cladium jamaicense*), lance-leafed arrowhead (*Sagittaria lancifolia*), and pickerelweed (*Pontederia cordata*).

Exotic Wetland Hardwoods (FLUCFCS 619) – Approximately 3.18 acres of exotic wetland hardwoods occur within the Project Area. These wetlands are dominated by the exotic species shoebutton ardisia, Australian pine, and Brazilian pepper, with subdominant species including pond apple, cocoplum, napier grass, sawgrass, royal fern, and wild taro.

Freshwater Marsh and Sawgrass Marsh (FLUCFCS 641 and 6411) – A small area (0.11 acre) of freshwater marsh is located within an area of former tree nursery in the northern portion of the Project Area. This wetland is dominated by lance-leafed arrowhead, Carolina willow, creeping ludwigia (*Ludwigia repens*), primrose willow (*Ludwigia leptocarpa*), and creeping ox-eye (*Wedelia trilobata*). A small area of freshwater marsh dominated by sawgrass (1.38 acres) occurs in the northeastern portion of the Project Area, and continues north adjacent to the access road west of the cooling pond.

Vegetative Communities Adjacent to the Site

Areas of the Lauderdale Site north of the Project Area are dominated by forested wetlands and sawgrass marsh, portions of which are mitigation sites under conservation easements (Figure 3.3.6-1). The surrounding vicinity is dominated by urban development, although two significant natural areas do occur in the vicinity, the Pond Apple Slough and the Secret Woods Nature Center.

The approximately 112-acre Pond Apple Slough, located to the north of the South New River Canal. This area was historically managed as a mitigation area, with a goal to restore the native pond apple and cypress community through removal of Australian pines, melaleuca, and Brazilian pepper. The area is currently owned by Broward County and provides passive recreation opportunities.

The Secret Woods Nature Center is a 57-acre Broward County regional park located between State Road 84 and the South Fork New River approximately 2 miles northeast of DBEC. This environmental education facility includes cypress/red maple, pond apple/mangrove, and laurel oak hammock communities, as well as a butterfly garden area, walking trails, and an interpretive center.

3.3.6.2 Terrestrial Ecology Systems – Fauna

The Project Area provides habitat for a variety of wildlife, primarily avian species and herpetofauna common to disturbed upland and wetland habitats of southeast Florida. Several exotic wildlife species



are known to occur within or immediately surrounding the Site, including green iguana (*Iguana iguana*), brown basilisk (*Basiliscus vittatus*), knight anole (*Anolis equestris*), Egyptian goose (*Alopochen aegyptiaca*), muscovy duck (*Cairina moschata*), Eurasian-collared dove (*Streptopelia decaocto*), European starling (*Sturnus vulgaris*), and Cuban brown anole (*Anolis sagrei*).

A summary of non-listed terrestrial wildlife observed or likely to occur within the Project Area based on previous surveys conducted in association with the FPL Lauderdale Repowering Project (1989), Lauderdale Plant Combustion Turbine Project (2013), and surveys conducted in 2015 and 2017 is provided in Table 3.3.6-1, including avian species, mammals, and herpetofauna. Non-listed terrestrial wildlife directly observed, observed through tracks, scat, and/or burrows, or likely to occur are discussed below based on primary habitat types within the Project Area; species classified as threatened, endangered, species of special concern (listed species) are discussed in Section 3.3.6.4.

Uplands - Shrub and Brushland, Australian Pine, and Spoils Areas (FLUCFCS 320, 437, and 743) –

Although these upland habitats are historically disturbed and do not provide quality native wildlife habitat, they are occasionally used by common non-listed avian species such as mourning dove (*Zenaida macroura*), blue jay (*Cyanocitta cristata*), common grackle (*Quiscalus quiscula*), northern cardinal (*Cardinalis cardinalis*), northern mockingbird (*Mimus polyglottos*), raccoon (*Procyon lotor*), and Carolina wren (*Thryothorus ludovicianus*), as well as the exotic species green iguana, brown basilisk, knight anole, Eurasian-collared dove, European starling, and Cuban brown anole. A similar suite of common wildlife occasionally occurs within the currently developed areas of the Site classified as electric utilities (FLUCFCS 831).

Forested Wetlands - Mangrove Swamp, Mixed Wetland Hardwoods, and Exotic Wetland Hardwoods (FLUCFCS 612, 617, 619) and Sawgrass Marsh (FLUCFCS 6411) –

Forested wetlands and adjacent sawgrass marsh provide suitable foraging habitat and cover for a variety of non-listed wildlife, such as the yellow-crowned night heron (*Nyctanassa violacea*), anhinga (*Anhinga anhinga*), green heron (*Butorides virescens*), great egret (*Ardea alba*), great blue heron (*Ardea herodias*), white ibis (*Eudocimus albus*), limpkin (*Aramus guarauna*), snowy egret (*Egretta thula*), blue land crab (*Cardisoma guanhumi*), mangrove tree crab (*Aratus pisonii*), green tree frog (*Hyla cinerea*), Cuban tree frog (*Osteopilus septentrionalis*), pileated woodpecker (*Dryocopus pileatus*), northern cardinal (*Cardinalis cardinalis*), turkey vulture (*Cathartes aura*), black vulture (*Coragyps atratus*), red bellied woodpecker (*Melanerpes carolinus*), red-shouldered hawk (*Buteo lineatus*), osprey (*Pandion haliaetus*), gray catbird (*Dumetella carolinensis*), northern mockingbird, chimney swift (*Chaetura pelagica*), Carolina wren, and raccoon (*Procyon lotor*).

Freshwater Marsh (FLUCFCS 641) – The low-quality freshwater marsh within the Project Area does not provide quality wildlife habitat, although the suite of common species described for the disturbed upland areas of the site may occasionally utilize the marsh habitat.

3.3.6.3 Aquatic Ecology Systems – Fauna

Aquatic systems within the Project Area are limited to the existing cooling-water intake (Dania Cutoff Canal), discharge canal, and cooling pond. Aquatic systems in the surrounding area include the South New River Canal and South Fork New River. The DBEC lies approximately 5 miles west of the Intracoastal Waterway, and waters surrounding the Site are subject to tidal fluctuations as well as freshwater discharge through the network of SFWMD canals which drain the interior of south Florida.

Fish species tolerant of a wide range of salinities occur within the waters of the Site and vicinity, including mullet (*Mugil cephalus* and *M. curema*), crested goby (*Lophogobius cyprinoides*), spotfin mojarra (*Eucinostomus argenteus*), striped mojarra (*Eugerres plumieri*), yellowfin mojarra (*Gerres cinereus*), striped mullet (*Mugil cephalus*), Atlantic needlefish (*Strongylura marina*), snook (*Centropomus undecimalis*), ladyfish (*Elops saurus*), pinfish (*Lagodon rhomboides*), tarpon (*Megalops atlantica*), crevalle jack (*Caranx hippos*), and exotic cichlids.

Aggregation sites for the threatened Florida manatee (*Trichechus manatus*) occur both within the cooling pond and the South New River Canal, discussed below in Section 3.3.6.4.

3.3.6.4 Threatened and Endangered Species – Flora and Fauna

Listed plant species are those plants that are listed by the U.S. Fish and Wildlife Service (USFWS) or the Florida Department of Agriculture and Consumer Services (FDACS) as endangered, threatened, of special concern, or commercially exploited. Listed animal species are those animals classified as endangered, threatened, or of special concern, federally by the USFWS or within the State of Florida by the Florida Fish and Wildlife Conservation Commission (FWC).

Threatened and Endangered Species - Methodology

Prior to field reconnaissance, county-specific lists of threatened and endangered species were obtained from the Florida Natural Areas Inventory (FNAI, 2017) (Table 3.3.6-2). In addition, geographic information system (GIS) data were obtained from the FNAI, which maintains a database of known occurrences of listed species throughout the State of Florida.

The FNAI database was queried and documented locations of listed species within the Project Area and vicinity were identified. Listed and non-listed wildlife species observed during the 2013 and 2017 field surveys as well as during previous studies were recorded, supplemented by evaluation of habitat

conditions suitable for listed species to help identify additional species that were not observed but are likely to occur.

Plant and Animal Surveys

Because of the rarity and seasonality of threatened and endangered species, either multi-season surveys or an evaluation of threatened and endangered species habitat conditions are necessary to determine their presence or absence. For this study, multi-season threatened and endangered species surveys were combined with the evaluation of habitat conditions to determine the presence or absence of threatened and endangered species.

The potential for listed species utilization of the Project Area for foraging, roosting, or breeding is limited due to the surrounding industrial, commercial, and residential development, as well as the proximity of the FLL Airport and the location of the Site immediately within the flight path of large commercial passenger airplanes, resulting in significant and regular disturbance. Based on the list of threatened and endangered species known to occur in Broward County and the available habitats within the Project Area and surrounding area, federally and state-listed species that were observed or are likely to occur within the area were identified and are discussed below.

Flora - Threatened, endangered, and/or plant species of special concern known to occur in Broward County and their probability of occurrence in the Project Area are listed in Table 3.3.6-2. The FNAI database review did not indicate any reported occurrences of listed plant species in the vicinity of the Site, and no listed plant species were observed within the Site during field surveys. Although not observed during field surveys, based on presence of suitable habitat there is a moderate likelihood of occurrence for state-listed species associated with mangrove swamps, including the golden leather fern (*Acrostichum aureum*), Florida tree fern (*Ctenitis sloanei*), night-scented orchid (*Epidendrum nocturnum*), banded wild-pine (*Tillandsia flexuosa*), and hoop vine (*Trichostigma octandrum*).

Fauna - Threatened, endangered, and/or animal species of special concern known to occur in Broward County and their probability of occurrence within the Project Area are listed in Table 3.3.6-2. The FNAI database review resulted in a known manatee aggregation site within the South New River Canal to the southwest of the Project Area (Figure 3.3.6-2). No documented bald eagle nests are located within 660 feet of the Site. The closest documented bald eagle nest (nest ID #BO002) is approximately 15 miles southwest of the Site. In addition, wading bird rookery and nest colony records were researched using the FWC wading bird rookery and nest colony locator. The closest wood stork (*Mycteria americana*) colony (Sawgrass Ford) is located approximately 10 miles to the northwest (Figure 3.3.6-2).

Listed animal species observed within and adjacent to the Project Area during the field reconnaissance conducted in 2013 and 2017, as well as during previous studies, include two species of wading birds, little blue heron (*Egretta caerulea*) and tricolored heron (*Egretta tricolor*), the least tern (*Sternula antillarum*), and manatee.

Additional species that were not observed, but have a moderate or high probability of occurrence at the Project Area (Table 3.3.6-2) based on the presence of suitable habitat include the wood stork (*Mycteria americana*).

A brief description of each species observed or with a moderate or high probability to occur within the Project Area is provided below.

Little blue heron (T) – The little blue heron is classified as threatened by the FWC, but is not listed by the USFWS. The little blue heron is a medium-sized heron, with a purplish to maroon-brown head and neck, small white patch on throat and upper neck, and a slate-blue body. They feed in shallow freshwater, brackish, and saltwater habitats. The largest nesting colonies of little blue herons occur in coastal areas, but they prefer to forage in freshwater lakes, marshes, swamps, and streams. Little blue herons nest in a variety of woody vegetation types, including cypress, willow, maple, black mangrove, and cabbage palm. They usually breed in mixed-species colonies in flooded vegetation or on islands. Little blue herons are mostly resident throughout the year, but numbers in north Florida in winter are lower than numbers during spring, summer, and fall (FNAI, 2001). Little blue herons have been historically observed and are likely to occur along the edges of forested wetlands, canals, and the cooling pond within and adjacent to the Project Area.

Tricolored heron (T) – The tricolored heron is classified as threatened by the FWC, but is not listed by the USFWS. It is a medium-sized heron with dark slate coloration on the head, neck, and body that contrasts with the white rump, belly, and undertail. Most tricolor nesting colonies occur on mangrove islands or in willow thickets in fresh water, but nesting sites include other woody thickets on islands or over standing water. Egg laying can begin as early as February in south Florida and continue into August. Tricolored herons prefer coastal environments, but will feed in a variety of permanently and seasonally flooded wetlands, mangrove swamps, tidal creeks, ditches, and edges of ponds and lakes. Tricolored herons are permanent residents and are found throughout Florida in all seasons, except they are rare in winter in the western Panhandle and also somewhat less common inland during winter (FNAI, 2001). Tricolored herons have been historically observed and are likely to occur along the edges of forested wetlands, canals, and the cooling pond within and adjacent to the Project Area.

Least tern (T) – The least tern is classified as threatened by the FWC, but is not listed federally by the USFWS. It is the smallest North American tern, light gray above and white underneath, with a short, deeply forked tail, black cap and nape, white forehead and black line running from the crown through eye to the base of its yellowish-orange bill. The least tern is a migratory bird, wintering in Central and South America and moving north to breeding grounds during the summer months. They begin nesting in mid-April in central and southern Florida, and are typically absent from Florida from November through February (FWC, 2011). Preferred habitats are coastal areas throughout Florida, including beaches, lagoons, bays, and estuaries. Nesting areas have a substrate of well-drained sand or gravel and usually have little vegetation. The least tern is a ground nesting species typically utilizing beach habitat, though they increasingly use artificial nesting sites, including gravel rooftops, dredge spoil islands or other dredged material deposits, construction sites, causeways, and mining lands (FNAI, 2001). Rooftops are currently estimated to support over 80% of the breeding population, which represents a significant shift from the late 1970s when it was estimated that only 21% of the state's least terns nested on rooftops (Fisk, 1978; Zambrano and Warraich, 2010). Least terns have been observed within the Project Area and foraging within the adjacent cooling pond.

Florida manatee (T) – The Florida manatee is one of two subspecies of the West Indian manatee, inhabiting fresh, brackish, and marine waters throughout Florida, the Greater Antilles, Central America, and South America (USFWS, 1999). It is classified as threatened by both the FWC and the USFWS. The Florida manatee feeds on submergent, emergent, and floating vegetation (USFWS, 1999) and often forages in shallow grass beds that are adjacent to deeper channels (Hartman, 1979; Powell and Rathbun, 1984). The seasonal distribution of the manatee is affected by water temperatures, as water temperatures below 20 degrees Celsius increase susceptibility to cold stress and cold-induced mortality (USFWS, 1999). The only year-round populations of manatees occur throughout the coastal and inland waterways of peninsular Florida and Georgia (Hartman, 1974). In south Florida, prominent year-round populations can be found in the Indian River, Biscayne Bay, Everglades and Ten Thousand Island area, Estero Bay and Caloosahatchee River area, and Charlotte Harbor area (USFWS, 1996). In the winter, higher numbers of manatees are seen on the east coast at the natural warm waters of Blue Spring and near man-made warm water sources on or near the Indian River Lagoon, at Titusville, Vero Beach, Ft. Pierce, Riviera Beach, Port Everglades, Ft. Lauderdale, and throughout Biscayne Bay and nearby rivers and canals (USFWS, 1996). They also aggregate near industrial warm water outflows in Tampa Bay, the warmer waters of the Caloosahatchee and Orange rivers, and in inland waters of the Everglades and Ten Thousand Islands (USFWS, 1999). Manatees are known to occur within the cooling pond, which serves as a winter aggregation site; an aggregation site also is located within the South New River Canal to the southwest of the Project Area.

Wood stork (T) – The wood stork is classified as threatened by the USFWS and the FWC. Wood storks utilize a variety of habitats, including cypress/gum ponds, forested wetlands, river swamps, marshes (freshwater and saltwater), and bays. The wood stork is highly gregarious in its nesting and feeding behavior. They are tactile feeders (vision is seldom used to locate or catch prey) and usually forage in shallow water (6 to 20 inches). Small fish are the primary food items, but storks also consume crustaceans, salamanders, tadpoles, and insects. The distance between nesting colonies and feeding areas can range up to 60 miles or more, although the average distance is typically 12 to 15 kilometers (km) (7 to 9 miles) (Ogden, 1996). Colonies are typically located on coastal islands and on willow islands in swamps, cypress swamps, impoundments, and other inundated areas. Nesting has been reported throughout the year, with nests consisting of platforms of sticks formed in tall cypress trees and, less often, mangroves. Typically, three to five eggs are laid and incubate for 28 to 32 days before hatching, while the young fledge in 50 to 55 days. In south Florida, the area within 18.6 miles of a wood stork colony is considered a core foraging area. The DBEC Project Area is located within the core foraging area associated with one wood stork colony, the Sawgrass Ford colony located approximately 10.5 miles to the northwest. No wood storks were observed, and the relatively dense vegetation and lack of open water areas within the wetlands at the Project Area do not provide preferred foraging habitat. Nevertheless, they may occasionally utilize the edges of the cooling pond or canals to forage.

3.3.6.5 Pre-Existing Stresses

The greatest pre-existing stress to ecological systems within the Project Area and surrounding vicinity is the result of industrial and commercial development. The natural topography, soils, and hydrology are extensively altered as a result of the addition of fill material and topographic grading. The majority of natural ecosystems and wildlife habitat that may have previously been located at the Project Area have been lost, and natural drainage features have been modified.

Aquatic systems in the Project Area and vicinity are subjected to stress from numerous sources related to commercial, industrial and urban land use, development, and the construction and operation of water management systems. Pre-existing stresses include:

- Altered hydrology
- Altered salinity
- Elevated loads of nutrients and organic matter
- Input of contaminants
- Power plant intake/discharge

- Physical alterations
- Boating and fishing pressure

3.3.6.6 Measurement Programs

Terrestrial ecological resources were evaluated through field reconnaissance, coordination with FWC, previous studies, and literature searches. Vegetative communities, wildlife utilization, and potential for threatened and endangered wildlife occurrence were evaluated based on review of historical data and field surveys conducted in 2013 and 2017.

3.3.7 Noise

3.3.7.1 Background

Sound propagation involves three principal components: a noise source, a person or a group of people, and the transmission path. While two of these components, the noise source and the transmission path, are easily quantified (*i.e.*, by direct measurements or through predictive calculations), the effect of noise on humans is difficult to determine due to the varying responses of humans to the same or similar noise patterns. The perception of sound (noise) by humans is subjective, and just as for odors and taste, it is very difficult to predict a response from any particular individual to these levels.

Noise above certain levels could impact the health and welfare of plant employees, the general public and wildlife. The magnitude of noise levels or loudness is referred to as “sound pressure level” (SPL), with units in decibels (dB). Decibels are calculated as a logarithmic function of SPL in air to a reference effective pressure, which is considered the hearing threshold, or:

$$\text{SPL} = 20 \log_{10} (P_e/P_o)$$

where: P_e = measured effective pressure of sound wave in micropascals (μPa), and

P_o = reference effective pressure of 20 μPa .

To account for the effect of how the human ear perceives sound pressure, at moderate to low levels, SPLs are adjusted for frequency (or pitch). One of the most commonly used frequency filters is the A-weighting (dBA), which adjusts measurements for the approximated response of the human ear to low frequency SPLs [*i.e.*, below 1,000 hertz (Hz)] and high frequency SPLs (*i.e.*, above 10,000 Hz).

The location of the DBEC is in a highly urbanized area with industrial and transportation activities that significantly contribute to the background noise levels of the surrounding area and the Site has supported electric generation since 1927. These noise sources and their approximate distances from the DBEC Project Area include the FLL (2 ¼ mile east), Interstate 595 (I-595, 1 1/8 mile north), Interstate I-95 (I-95, 2 miles east), Florida’s Turnpike (1 mile west), U.S. Highway 441/State Road 7



(1/2 mile west), Griffin Road (and 1/3 mile south), the Wheelabrator South Broward Inc., South Broward County Resource Recovery Facility (1/4 mile west). All these noise sources contribute to noise levels in the area depending upon the time of day. Aircraft noise at FLL is especially influential during landings on the southern runway when predominate easterly wind occurs as aircraft are directly overhead the Site for short durations as they approach FLL.

3.3.7.2 Noise Regulations

There are no Florida or federal noise regulations applicable to the Project. The Project is located within the City of Dania Beach, which has a noise ordinance codified in Chapter 17, Article IV Noise, Sections 17-79 through 17-90, City of Dania Beach Code of Ordinances. Section 17-86 establishes maximum permissible sound levels for residential, noise sensitive areas, public space, multifamily dwelling, commercial, convention, and industrial receiving land uses. The maximum permissible sound level for residential land uses is 60 dBA during the period 7:00 a.m. to 10:00 p.m. (daytime) and 55 dBA during the period 10:00 p.m. to 7:00 a.m. (nighttime). For multifamily land uses, the maximum permissible sound level is 50 dBA during the period 7:00 a.m. to 10:00 p.m. and 45 dBA during the period 10:00 p.m. to 7:00 a.m. A multifamily dwelling is defined in the ordinance as a building or other shelter that has been divided into separate units to house more than one family. The maximum permissible sound level for commercial land uses is 65 dBA during the period 7:00 a.m. to 10:00 p.m. and 60 dBA during the period 10:00 p.m. to 7:00 a.m. For industrial land uses the maximum permissible sound level is 75 dBA at all times. Construction activities are exempt from the maximum permissible sound levels, however, the industrial sound level limits apply in all land use categories. Section 17-88(f) provides a prohibition of construction noise operating within 50 meters (164 feet) of any residential or noise sensitive area between the hours of 9:00 p.m. to 7:00 a.m. on weekdays and Saturdays, and 9:00 p.m. to 8:00 a.m. on Sundays and holidays. Emergency work is excluded. The residential areas in the vicinity of the DBEC Project are greater than 50 meters from the construction activities.

A portion of the Project Area is located within the City of Hollywood that has a noise ordinance codified in Title IX, General Regulations, Chapter 100 Noise, Sections 100.01 through 100.10, City of Hollywood Code of Ordinances. The ordinance prohibits noise that is unreasonably loud (Section 100.02 Unreasonably Loud Noise Prohibited), as defined by the ordinance that “is plainly audible inside of a receiving property across a property line and causes actual interference with a person's peaceful enjoyment of a residence or the peace and tranquility of the surrounding neighborhood” (Section 100.02 Definitions). A violation of the ordinance constitutes a nuisance (Section 100.10 Nuisance). The ordinance includes time limitations for construction activities that are “construction, alteration, repair, excavation, or demolition of any building or structure” (Section 100.05 Additional Limitation for Construction Activity). The limitation for construction activities are 7:00 a.m. to 6:00 p.m. Monday



through Fridays and from 8:00 a.m. to 6:00 p.m. on Saturdays. Construction on Sundays is prohibited. Other times are only allowed after written approval by the City of Hollywood. The nearest residential areas to the Project Area are south of Griffin Road. Areas immediately east of the Project Area are industrial.

Broward County has a noise ordinance that sets maximum allowable sound levels (Broward County, Code of Ordinances, Part II, Chapter 27 - Pollution Control, Article VII - Noise, Ordinance No. 2003-07). The ordinance identifies goals, applicability, prohibitions, and policies that are used to guide development with regards to noise in Broward County. The Broward County noise ordinance limits the maximum allowable sound levels measured at the receiving property boundary with governmental facilities, community service facilities, commercial/business facilities (shown in the table below from Section 27-235(a) Article VII Noise).

Maximum Allowable Sound Levels

Receiving Property Category	Time	L ₅₀ Sound Level (dBA) ^a	L _{max} Sound Level (dBA)
Residential property, or residential portion of a multi-use property	At all times	55	65
Government facilities, community service facilities, commercial/ business facilities	At all times	65	75

^a L₅₀ equals the sound pressure level exceeded 50 percent of the time, based on any measurement period of not less than ten (10) minutes.

Section 27-235 (b) states that "a source of sound is not considered in violation of the sound level limits set forth in the table, if the measured sound level exceeds the background sound level by less than five (5) dBA". This section of the Broward County noise ordinance indicates that in areas with higher background noise levels, as those that may occur near FLL or major highways, the source of the noise would have to be 5 dBA higher than the background to be a violation as compared to the Maximum Allowable Sound Levels as listed in Section 27-235(a).

Exemptions from the Broward County maximum allowable sound levels include the operation of motor vehicles on a public and private right of way; the operation of boats, ships or vessels on a waterway, and movement of aircraft. Operation of any tools or equipment used in construction, drilling, dredge and fill, or demolition work is exempt from the maximum allowable sound levels from 7:00 a.m. to 7:00 p.m. Routine maintenance of public service utilities is also exempt from the maximum allowable sound levels from 7:00 a.m. to 7:00 p.m.

3.3.7.3 Ambient Noise Measurements

Ambient noise monitoring was conducted in October 2013 to obtain baseline noise measurements for the Lauderdale Peaker Project prior to its construction (FPL, 2015). The equipment and procedures used to monitor the baseline noise levels conformed with the requirements for procedures, methods, and equipment specified by the American National Standards Institute (ANSI) (1993, R2008). Specifically, the noise measurements followed the ANSI S12.9/Part 3-1993 (R2008): “Quantities and Procedures for Description and Measurement of Environmental Sound, Part 3: Short-term Measurements with an Observer Present.”

Noise measurements were made using a sound level meter that was set to the slow response mode to obtain consistent, integrated, A-weighted SPLs. Concurrent one-third octave band frequencies were also measured at all monitoring locations. The octave band data from each monitoring location was measured and stored during each monitoring period. Both daytime and nighttime monitoring measurements were performed to accurately assess the baseline noise conditions.

Integrated SPL data consisting of the following noise parameters were collected at each location:

- L_{eq} - The sound pressure level averaged over the measurement period; this parameter is the continuous steady sound pressure level that would have the same total acoustic energy as the real fluctuating noise over the same time period
- L_{max} - The maximum sound pressure level for the sampling period
- L_{min} - The minimum sound pressure level for the sampling period
- L_n - The sound pressure levels which were exceeded n percent of the time during the sampling period. For example, L_{90} is the level exceeded 90 percent of the time.

The SPL data were analyzed and reported in both dB and dBA. The higher the decibel value, the louder the sound.

The SPL averages were calculated using the following formula:

$$\text{Average SPL} = 10 \log \frac{\sum_{i=1}^N 10^{(SPL_i/10)}}{N}$$

where: N = number of observations, and

SPL_i = individual SPL in data set.

The SPLs and octave band data were collected during each monitoring event, using measurement techniques set forth by ANSI S12.9-1993/Part 3, 1993.

The noise monitoring equipment used during the study included:

- Larson Davis Model 824 Precision Integrating Sound Level Meter with Real Time Frequency Analyzer
- Larson Davis Model PRM902 Microphone Preamplifier
- Larson Davis Model 2560 Prepolarized ½-inch Condenser Microphone
- Windscreen, tripod, and various cables
- Sound Level Meter Calibration Unit
- Larson Davis Model CAL200 Sound Level Calibrator, 94/114 dB at 1,000 Hz

Monitoring was conducted using the sound level meter mounted on a tripod at a height of 1.5 meters (m) (5 feet) above grade. A windscreen was used to protect the microphone from wind-noise interference up to a wind speed of 12 miles per hour because all measurements were taken outdoors. The microphone was positioned so that a random incidence response was achieved. The sound level meter and octave band analyzer were calibrated immediately prior to and just after the sampling period to provide a quality control check of the sound level meter's operation during monitoring.

Local meteorological conditions (wind speed, wind direction, temperature, and relative humidity) were measured during the monitoring periods. The operator recorded detailed field notes during monitoring and included major noise sources in the area. The Larson Davis sound level meter complies with Type I precision requirements set forth for sound level meters and for one-third octave filters.

Noise monitoring was conducted in December 2016 (FPL, 2017) after Units 6A through 6E became commercially operational. Sound levels were measured using a Rion Model NL-52 Type 1 sound level meter that meets the requirements of ANSI S1.4-2014 [5].

3.3.7.4 Noise Monitoring Locations

Figure 3.3.7-1 describes the locations where SPLs and octave band data were collected during the October 2013 and December 2016 noise monitoring studies. The eight monitoring locations were selected to measure the existing baseline noise levels at or near the Lauderdale Site property boundary. Monitoring Locations 1, 5 and 7 were located in residential areas, Monitoring Locations 2, 3 and 8 were located on or near the Site boundary and Monitoring Locations 4 and 6 were located in the vicinity of roadways and commercial areas. Short term SPL measurements (15 minutes) were taken at monitoring

locations 1 through 7 during the daytime and nighttime periods in October 2013. At monitoring station 8, SPLs were obtained for a continuous 24-hours in October 2013. During the December 2016 noise monitoring study short term measurements (5 to 15 minutes) were taken at night at all monitoring stations.

3.3.7.5 Measured Ambient Noise Levels

Table 3.3.7-1 presents the baseline ambient sound pressure levels obtained in October 2013. SPL data are integrated over the monitoring period, and reflect the “equivalent,” “minimum,” “maximum,” and “10th percentile” (L_{90} = the SPL exceeded 90 percent of the time during the monitoring period). Units 4 and 5 were operating during all the periods when the daytime and nighttime noise monitoring was conducted. Several of existing GTs operated intermittently during some of the measurements as noted in Table 3.3.7-1.

The L_{eq} reflects the total noise energy over the monitoring periods at each location. As a result, loud transient noises, such as noise from traffic, aircraft, insects, and barking dogs, all influenced the observed values. The more persistent the transient loud noises, the higher the L_{eq} . For this reason, a more appropriate indicator of background noise levels is the L_{90} , which is the sound pressure level exceeded 90 percent of the time. Transient noise is generally excluded from the L_{90} unless the noise occurs frequently during the monitoring period, such as along a heavily traveled highway. The L_{90} also is appropriate for background noise levels generated by continuously operating equipment associated with industrial activities such as a power plant. The L_{min} and L_{max} reflect the minimum and maximum observed sound pressure levels, respectively. When the magnitude of the L_{max} is close (within a few dBA) to the L_{eq} , the observed noise levels are typically influenced by a continuous source of noise. When the magnitude of the L_{min} is close (within a few dBA) to the L_{90} , the observed sound pressure levels typically indicate lower amounts of transient noises.

The ambient daytime L_{eq} values observed in October 2013 are shown in Table 3.3.7-1. The measurements reflect the influence of air traffic from the FLL Airport, observations of other transient noise sources such as highway and local traffic, and the existing GTs operating during some measurements. The daytime L_{eq} for the property boundary monitoring locations in the vicinity of the plant (Monitoring Locations, 1, 2, 5 and 7) ranged from 64.1 dBA at Monitoring Location 1 to 52.9 dBA at Monitoring Location 7 during the morning. The highest L_{eq} observed was 68.6 dBA observed at Monitoring Location 6 that was a result of traffic on SR 7/US 441. The nighttime L_{eq} noise levels at boundary monitoring location in the vicinity of the Plant ranged from 56.0 dBA at Monitoring Location 5 to 50.3 dBA at Monitoring Location 3. The daytime and nighttime L_{eq} observed at

Monitoring Locations 3 and 4 exceeded 60 dBA as a result of aircraft landings and traffic noise from I-595 and SR 84.

The L_{90} value excludes most of the transient noise and is more reflective of continuous noise sources. For the boundary monitoring locations the daytime L_{90} ranged from 57.4 dBA at Monitoring Location 5 to 50.3 dBA at Monitoring Location 7 during the morning. The nighttime L_{90} noise levels ranged from 55.1 dBA at Monitoring Location 6 to 48.6 dBA at Monitoring Location 3.

The observed L_{90} values that exclude transient noise sources at the monitoring locations are typical of an urban environment with industrial noise areas and heavily traveled transportation corridors that include major roadways and the influence of the FLL Airport. The monitoring location within the industrial areas had observed L_{90} values much less than 75 dBA. The monitoring locations within residential areas (Monitoring Locations 1, 5 and 7) had observed L_{90} that were less than 60 dBA during the daytime and 55 dBA and less during the nighttime.

The 24-hour SPLs observed at Monitoring Location 8 were 63.8 dBA for the L_{eq} and 56.9 for the L_{90} . The L_{min} during the 24-hour monitoring was 55.3 dBA, which was close to the observed L_{90} that demonstrates the influence of the transient noise sources in the area of the DBEC Project.

In December 2016, nighttime sound levels were obtained at the same 8 monitoring locations as performed in 2013. The noise measurements were taken with Units 6A and 6B operating as well as Units 4 and 5 operating. These measurements were taken with a Rion Model NL-52 Type 1 sound level meter that meets the requirements of ANSI S1.4-2014. The sound level meter was field calibrated using a Rion Model NC-74 acoustical calibrator. Both the sound level meter and calibrator were calibrated with primary standards within the last 6 months. The sound level meter was equipped with integrating capabilities to determine the average and statistical sound levels over a specified duration. For outdoor measurements, the microphone was equipped with a windscreen provided by or recommended by the sound level meter manufacturer. Table 3.3.7-2 presents the nighttime L_{90} sound levels obtained.

The ambient noise levels presented in Tables 3.3.7-1 and 3.3.7-2 show the influence of the urban area surrounding the Site on recorded noise levels. This includes traffic near Monitoring Locations 4 and 6 that are close to S.R.84 and I-595, and S.R. 7/U.S. 441, respectively. Aircraft landings at FLL influence nearly all monitoring locations, including within the residential areas south of the Site, since the FLL runways are about 2 miles east of the Site. The influence on noise levels can be seen the recorded noise levels as L_{max} and L_{eq} that were above 80 dBA (L_{max}) and 65 dBA (L_{eq}).

The arrivals and departures from FLL are determined by the Broward County Aviation Department's (BCAD) FLL Airport Noise and Operations Monitoring System (ANOMS) (Broward County Aviation Department, 2017). The system includes 11 noise monitoring locations that record high noise events. The BCAD program provides information through reports and information that includes Fleet Noise Reports, High Noise Event reports, Runway Use Summary Reports and Flight Track Density Plots.

The influence of aircraft noise can be seen from the latest FLL Partnership for Quieter Skies Reports and Loud Event Reports. For the first quarter of 2017, there were 29,595 east flow arrivals to the FLL and 11,346 west flow departures from FLL. For the FLL southern runway, there were 9,103 east flow arrivals and 3,919 west flow departures.

The High Noise Event Reports are available monthly and provide the number of noise events that are equal to or greater than a sound level of 65 dBA. The sound exposure level (SEL) is recorded based on the total sound level from a single aircraft noise event taking into account the sound level and duration. For example an SEL of 75 over one minute is equivalent to 65 dBA as an L_{eq} over 10 minutes. The closest monitoring location to DBEC is Site 2 located at 4548 SW 37th Avenue approximately 800 feet southeast from Monitoring Location 2 in Tables 3.3.7-1 and 3.3.7-2. Over the first quarter of 2017, there were 14,429 loud noise events with sound levels 65 dBA or greater.

3.3.8 Other Environmental Features

3.3.8.1 Lighting

Outdoor lighting for DBEC will be necessary to satisfy Occupational Safety and Health Administration (OSHA) requirements for safety and security. Unconstrained lighting can cause "light pollution," which includes "sky glow" and "light trespass." Sky glow is the result of stray light being scattered in the atmosphere, brightening the natural sky background level. Light trespass is the term used to describe light or illuminance that strays from its intended purpose and potentially becomes an annoyance.

Background

Light is part of the electromagnetic spectrum, which ranges from radio waves to gamma rays. Electromagnetic radiation waves are fluctuations of electric and magnetic fields, which can transport energy from one location to another. Visible light is not inherently different from other parts of the electromagnetic spectrum, with the exception that the human eye has evolved to detect visible waves. The human eye responds to light based on its frequency. The frequency of light that is within the visible range establishes the observed color. While the response varies from person to person, the Commission

Internationale de l'Eclairage (C.I.E., International Commission on Illumination) defined standard luminosity coefficients for the human eye in 1931.

A “candela” refers to the luminous intensity of a lighting source and is measured in candelas (cd). A “lumen” is the total luminous flux of a light source of one candela of luminous intensity. Illuminance is the total luminous flux incident on a surface per unit area. A “lux” is the measure of illumination (1 lumen) that falls on one square meter. The English measurement is the “foot-candle,” which is the same illumination (1 lumen) falling on one square foot. A lux is equivalent to 0.093 foot-candle; one foot-candle is 10.76 lux. Luminance is the perceived brightness of an object which has been illuminated by a source. Common examples of luminance are presented in Table 3.3.8-1. The luminance of an object depends on its material characteristics and reflectance and is measured in candelas per square meter (cd/m^2).

Light Trespass

Light trespass standards are based on the amount of light from a light source that is transmitted onto adjoining properties. Light trespass standards are typically different for various land uses. The State of Florida does not have quantitative requirements pertaining to light trespass. The City of Dania Beach has outdoor lighting standards specified in Article 280 of its Code of Ordinances. The provisions of this ordinance to all permanent outdoor lighting from an artificial light source and applies to all directional fixtures and lighting with an output of more than 1,800 lumens that is visible. The ordinance prohibits lighting that results in glare, as defined by the ordinance, onto adjacent residential properties (Section 280-30). Glare is defined as lighting that results in annoyance, discomfort or reduction in visual performance or visibility, and includes direct and reflected glare. The light trespass standard for residential properties from adjoining properties is 0.5 horizontal foot-candle or 5.38 lux [Section 280-40(A)]. Vehicular use areas must comply with the minimum lighting standards of the Illuminating Engineering Society of North America [Section 280-40(B)]. Glare control must be achieved primarily through the use of cutoff fixtures, shields and baffles, and the appropriate application of fixture mounting height, lighting intensity, placement and angle, and non-vegetative screens [Section 280-40(C)].

Sky Glow

The earliest measures of sky glow, also called sky brightness, were based on a scale upon which the magnitude of stars visible to the human eye is divided into 6 levels. The brightest star is a magnitude 1 and the dimmest (faintest) star is a magnitude 6. More recently, the magnitude scale was modified to express astronomical surface brightness (stars, planets, etc.) in units known as magnitudes per square

arcsecond ($\text{mag}/\text{arcsec}^2$). The measurement scale is inverse and logarithmic, and is generally used in small area photometry and astronomy.

In the area surrounding the DBEC Project Area the sky glow would be significantly high due to its highly urbanized nature. An indicator of sky glow is also the ratio of artificial light to natural light ratio. In southern Florida along the entire east coast this ratio is 27 or greater with a corresponding sky glow of 17.8 or higher $\text{mag}/\text{arcsec}^2$ (Light Pollution Atlas 2006; <http://djllorenz.github.io/astronomy/lp2006/>). In contrast, the ratio of artificial light to natural light ratio and corresponding astronomical brightness in the Everglades National Park Flamingo Visitor Center is in the 0.19 to 0.33 and 21.69 to 21.81 range, respectively.

TABLES

**TABLE 3.3.6-1
WILDLIFE SPECIES OBSERVED AT THE DBEC SITE**

Scientific Name	Common Name	State Status	Federal Status
BIRDS			
<i>Alopochen aegyptiaca</i>	Egyptian goose	---	---
<i>Cairina moschata</i>	Muscovy duck (feral)	---	---
<i>Phalacrocorax auritus</i>	Double-crested cormorant	---	---
<i>Anhinga anhinga</i>	Anhinga	---	---
<i>Ardea herodias</i>	Great blue heron	---	---
<i>Ardea alba</i>	Great egret	---	---
<i>Egretta thula</i>	Snowy egret	---	---
<i>Egretta caerulea</i>	Little blue heron	T	---
<i>Egretta tricolor</i>	Tricolored heron	T	---
<i>Bubulcus ibis</i>	Cattle egret	---	---
<i>Butorides virescens</i>	Green heron	---	---
<i>Nycticorax nycticorax</i>	Yellow-crowned night heron	---	---
<i>Eudocimus alba</i>	White ibis	---	---
<i>Coragyps atratus</i>	Black vulture	---	---
<i>Cathartes aura</i>	Turkey vulture	---	---
<i>Pandion haliaetus</i>	Osprey	SSC*	---
<i>Buteo lineatus</i>	Red-shouldered hawk	---	---
<i>Buteo jamaicensis</i>	Red-tailed hawk	---	---
<i>Charadrius vociferous</i>	Killdeer	---	---
<i>Actitis macularis</i>	Spotted sandpiper	---	---
<i>Gallinago delicata</i>	Wilson's snipe	---	---
<i>Larus argentatus</i>	Herring gull	---	---
<i>Sternula antillarum</i>	Least tern	T	---
<i>Columba livia</i>	Rock pigeon (feral)	---	---
<i>Streptopelia decaocto</i>	Eurasian collared-dove	---	---
<i>Columbina passerina</i>	Common ground-dove	---	---
<i>Zenaida macroura</i>	Mourning dove	---	---
<i>Chordeiles minor</i>	Common nighthawk	---	---
<i>Chaetura pelagica</i>	Chimney swift	---	---
<i>Melanerpes carolinus</i>	Red-bellied woodpecker	---	---
<i>Dryocopus pileatus</i>	Pileated woodpecker	---	---
<i>Myiopsitta monachus</i>	Monk parakeet	---	---
<i>Thectocercus acuticaudatus</i>	Blue-crowned parakeet	---	---
<i>Sayornis phoebe</i>	Eastern phoebe	---	---
<i>Tyrannus dominicensis</i>	Gray kingbird	---	---
<i>Cyanocitta cristata</i>	Blue jay	---	---
<i>Thryothorus ludovicianus</i>	Carolina wren	---	---
<i>Poliophtila caerulea</i>	Blue-gray gnatcatcher	---	---
<i>Dumetella carolinensis</i>	Gray Catbird	---	---
<i>Mimus polyglottos</i>	Northern mockingbird	---	---
<i>Sturnus vulgaris</i>	European starling	---	---
<i>Setophaga palmarum</i>	Palm warbler	---	---

* - Monroe County population only

**TABLE 3.3.6-1
WILDLIFE SPECIES OBSERVED AT THE DBEC SITE**

Scientific Name	Common Name	State Status	Federal Status
<i>Setophaga coronate</i>	Yellow-rumped warbler	---	---
<i>Cardinalis cardinalis</i>	Northern cardinal	---	---
<i>Agelaius phoeniceus</i>	Red-winged blackbird	---	---
<i>Quiscalus quiscula</i>	Common grackle	---	---
<i>Quiscalus major</i>	Boat-tailed grackle	---	---
MAMMALS			
<i>Procyon lotor</i>	Raccoon	---	---
<i>Trichechus manatus</i>	West Indian manatee	T	T
<i>Dasypus novemcinctus</i>	Nine-banded armadillo	---	---
HERPETOFAUNA			
<i>Anolis sagrei</i>	Brown anole	---	---
<i>Anolis equestris</i>	Knight anole	---	---
<i>Iguana iguana</i>	Green iguana	---	---
<i>Basiliscus vittatus</i>	Brown basilisk	---	---
<i>Osteopilus septentrionalis</i>	Cuban treefrog	---	---
FISH			
<i>Gambusia holbrokii</i>	Mosquitofish	---	---

C = Candidate species; **E** = Endangered; **T** = Threatened; **SSC*** = Species of Special Concern, only in Monroe County;
SAT = Treated as Threatened due to similarity of appearance

* - Monroe County population only

TABLE 3.3.6-2
THREATENED, ENDANGERED, AND SPECIES OF SPECIAL CONCERN KNOWN TO OCCUR IN
BROWARD COUNTY AND PROBABILITY OF OCCURRENCE WITHIN THE DBEC SITE

Species	Status	Probability of Occurrence
PLANTS		
Golden leather fern (<i>Acrostichum aureum</i>)	State – T	Moderate
Meadow jointvetch (<i>Aeschynomene pratensis</i>)	State – E	Low
Sea Lavender (<i>Argusia gnaphalodes</i>)	State – E	Low
American toothed spleenwort (<i>Asplenium dentatum</i>)	State – T	Low
American bird's nest fern (<i>Asplenium serratum</i>)	State – T	Low
Sand-dune spurge (<i>Chamaesyce cumulicola</i>)	State – E	Low
Large-flowered rosemary (<i>Conradina grandiflora</i>)	State – T	Low
Florida tree fern (<i>Ctenitis sloanei</i>)	State - E	Moderate
Night-scented orchid (<i>Epidendrum nocturnum</i>)	State - E	Moderate
Beach jacquemontia (<i>Jacquemontia reclinata</i>)	State – E; USFWS – E	Low
Atlantic coast Florida lantana (<i>Lantana depressa</i> var. <i>floridana</i>)	State – E	Low
Nodding pinweed (<i>Lechea cernua</i>)	State – T	Low
Burrowing four-o'clock (<i>Okenia hypogaea</i>)	State – E	Low
Tiny polygala (<i>Polygala smallii</i>)	State – E; USFWS - E	Low
Florida royal palm (<i>Roystonea elata</i>)	State – E	Low
West Indies mahogany (<i>Swietenia mahogoni</i>)	State – T	Low
Banded wild-pine (<i>Tillandsia flexuosa</i>)	State – T	Moderate
Hoop vine (<i>Trichostigma octandrum</i>)	State – E	Moderate
Biscayne prickly ash (<i>Zanthoxylum coriaceum</i>)	State - E	Low
AMPHIBIANS and REPTILES		
Loggerhead sea turtle (<i>Caretta caretta</i>)	State – T; USFWS – T	Low
Green sea turtle (<i>Chelonia mydas</i>)	State – T; USFWS – T	Low
American crocodile (<i>Crocodylus acutus</i>)	State – T; USFWS – T	Low
Leatherback sea turtle (<i>Dermochelys coriacea</i>)	State – E; USFWS – E	Low
Eastern indigo snake (<i>Drymarchon couperi</i>)	State – T; USFWS – T	Low
Hawksbill sea turtle (<i>Eretmochelys imbricata</i>)	State – E; USFWS – E	Low
Gopher tortoise (<i>Gopherus polyphemus</i>)	State – T; USFWS - C	Low
Rim rock crowned snake (<i>Tantilla oolitica</i>)	State – T	Low
BIRDS		
Florida scrub jay (<i>Aphelocoma coerulescens</i>)	State – T; USFWS – T	Low
Florida burrowing owl (<i>Athene cunicularia floridana</i>)	State – T	Low
Caracara (<i>Caracara cheriway</i>)	State – T; USFWS – T	Low
Little blue heron (<i>Egretta caerulea</i>)	State – T	Observed
Tricolored heron (<i>Egretta tricolor</i>)	State – T	Observed
Southeastern American kestrel (<i>Falco sparverius paulus</i>)	State – T	Low
Florida sandhill crane (<i>Grus canadensis pratensis</i>)	State – T	Low
American oystercatcher (<i>Haematopus palliatus</i>)	State – T	Low

TABLE 3.3.6-2
THREATENED, ENDANGERED, AND SPECIES OF SPECIAL CONCERN KNOWN TO OCCUR IN
BROWARD COUNTY AND PROBABILITY OF OCCURRENCE WITHIN THE DBEC SITE

Wood stork (<i>Mycteria americana</i>)	State – T; USFWS – T	Moderate
Snail kite (<i>Rostrhamus sociabilis plumbeus</i>)	State – E; USFWS - E	Low
Black skimmer (<i>Rynchops niger</i>)	State - T	Low
Least tern (<i>Sternula antillarum</i>)	State – T	Observed
MAMMALS		
Florida panther (<i>Puma concolor coryi</i>)	State – E; USFWS - E	Low
West Indian manatee (<i>Trichechus manatus</i>)	State – T; USFWS - T	Observed

E = Endangered

T = Threatened

C = Candidate species for listing

SAT = Threatened due to Similarity in Appearance

TABLE 3.3.7-1
AMBIENT SOUND PRESSURE LEVELS OBSERVED AT LOCATIONS IN VICINITY TO DBEC - OCTOBER 2013

Site	Date	Time	Sound Levels (dBA)				Observations
			L _{min}	L _{max}	L ₉₀	L _{eq}	
1: Western Entrance Gate (from SW 42nd Avenue)	22-Oct-13	Daytime 1	51.6	82.1	53.6	61.5	Local car and truck traffic, aircraft landing, power plant audible
	22-Oct-13	Night	52.0	64.2	53.2	54.2	Truck braking offsite, offsite industrial noise-West, power plant audible, aircraft landing, some traffic noise. Peaker units - OFF.
	23-Oct-13	Daytime 2	52.2	84.7	54.7	64.1	Power plant audible, cars, aircraft takeoff, helicopter, industrial noise to NW, hedge trimmer. Peaker units-Off
2: Eastern Entrance Gate (from SW 42nd Street)	22-Oct-13	Daytime 1	50.9	68.2	52.7	55.9	Aircraft landing, peaker units audible, road traffic to North, bird sounds
	22-Oct-13	Night	50.9	72.3	52.6	55.2	Aircraft landing, power plant audible, peaker units audible-slowng down
	23-Oct-13	Daytime 2	46.8	76.7	49.5	59.8	Power plant audible, gas flow pipes, UPS truck, small boat in nearby channel, aircraft takeoff. Peaker units - OFF.
3: North of site, located within site boundaries	22-Oct-13	Daytime 1	44.7	85.4	46.1	66.5	Aircraft-landing, wind, slight noise from power plant, sounds of nature. Peaker units - OFF.
	23-Oct-13	Night	45.0	88.5	47.0	66.7	Power plant audible, sounds of nature, some rain, aircraft landing, noise from power line. One combustion unit offline, Peaker units - OFF.
	23-Oct-13	Daytime 2	46.8	83.0	48.8	63.1	Traffic from I-595, aircraft takeoff, gas flow pipes, power plant audible, slight rain-paused. 1 peaker unit - ON.
4: North of Project, located on Canel Rd, just off of I595 and SR 84	22-Oct-13	Daytime 1	62.3	84.9	64.3	68.1	Heavy traffic on SR-84 and I-595, local traffic, aircraft landing. Peaker units-ON.
	22-Oct-13	Night	52.6	89.9	57.0	65.3	Moderate-light local and SR-84 traffic, moderate-heavy I-595 traffic, aircraft landing, street sweepers. Peaker units - OFF.
	23-Oct-13	Daytime 2	53.8	83.3	58.0	65.9	Heavy traffic on I-595, moderate traffic SR-84, aircraft takeoff. Peaker units - OFF.
5: Neighborhood south of plant on SW 38th Terrace	22-Oct-13	Daytime 1	56.0	76.5	57.4	58.7	Peaker units audible, slight wind, aircraft landing.
	22-Oct-13	Night	53.8	71.2	55.1	56.0	Power plant audible, crickets, truck, aircraft landing. Peaker units - OFF.
	23-Oct-13	Daytime 2	54.0	76.9	56.6	60.8	Power plant audible, aircraft takeoff, people talking, truck start. Peaker units - OFF.
6: West of Project in U-Pull-it parking lot on SR-7	22-Oct-13	Daytime 1	55.1	83.2	62.0	68.6	Heavy traffic on SR-7, parking lot traffic, truck horn, loud music, motor engine. Peaker units - ON.
	22-Oct-13	Night	50.9	73.9	54.2	63.2	Moderate traffic on SR-7/US-441, aircraft landing, cricket noise. Peaker units - OFF.
	23-Oct-13	Daytime 2	50.5	81.0	57.2	67.9	Heavy traffic on SR-7, aircraft takeoff, car alarm-partial pause. Peaker units - OFF.
7: Neighborhood southwest of Project on SW 35th Ave.	22-Oct-13	Daytime 1	47.7	73.8	50.3	52.9	Power plant/peaker units audible, local truck and car traffic, aircraft landing.
	22-Oct-13	Night	46.9	59.5	48.6	50.3	Power plant audible, light local traffic, aircraft landing, AC unit start-up. Peaker units - OFF.
	23-Oct-13	Daytime 2	48.7	87.7	51.4	65.3	Power plant audible, lawnmower, aircraft takeoff. Peaker units - OFF.
8: 24-Hour Site: Onsite SW of Project	22-23 Oct 2013	24-Hour	55.3	88.7	56.9	63.8	Combustion and steam turbines, peaker units, aircraft landing/takeoff.

Source: Golder Associates Inc., 2017.



TABLE 3.3.7-2
AMBIENT SOUND PRESSURE LEVELS OBSERVED AT LOCATIONS IN VICINITY TO DBEC – DECEMBER 2016

Location	Operations	Sound Level (dBA)				Observed Sound Sources
	Date & Time	L _{min}	L _{max}	L ₉₀	L _{eq}	
Site 1: Western Entrance Gate (from SW 42nd Avenue)	8-Dec-16	53	57	54	55	BCRRF; FPL Units 4 & 5; insects; FPL Units 6A & 6B not audible.
	12:41 a.m.					
Site 2: Eastern Entrance Gate (from SW 42nd Street)	8-Dec-16	46	53	47	47	Guard shack A/C; distant traffic; insects; BCRRF; FPL Units 6A & 6B faintly audible.
	1:16 a.m.					
Site 3: North of site, located within site boundaries	7-Dec-16	46	57	47	52	FLL; distant traffic; insects; FPL Units 6A & 6B audible.
	10:58 p.m.					
Site 4: North of Project, located on Canel Rd, just off of I595 and SR 84	8-Dec-16	47	61	49	52	Traffic; insects; FLL; FPL Units 6A & 6B not audible.
	12:08 a.m.					
Site 5: Neighborhood south of plant on SW 38th Terrace	8-Dec-16	47	66	48	49	FPL Units 4 & 5; insects; FLL; dog barking; Units 6A & 6B not audible.
	12:54 a.m.					
Site 6: West of Project in U- Pull-it parking lot on SR-7	8-Dec-16	48	77	50	63	Traffic on SR7; BCRRF; FPL Units 6A & 6B not audible.
	12:20 a.m.					
Site 7: Neighborhood southwest of Project on SW 35th Ave.	8-Dec-16	40	52	41	42	Residential A/C; distant traffic; insects; BCRRF; FPL Units 4 & 5; FLL; FPL Units 6A & 6B faintly audible.
	1:04 a.m.					
Site 8: 24-Hour Site: Onsite SW of Project	8-Dec-16	51	57	52	53	FPL Units 4 & 5; insects; FPL Units 6A & 6B not audible.
	1:37 a.m.					

Legend: BCRRF = Broward County Resource Recovery Facility; FLL = Fort Lauderdale-Hollywood International Airport; SR = State Road.

Source: FPL, 2017

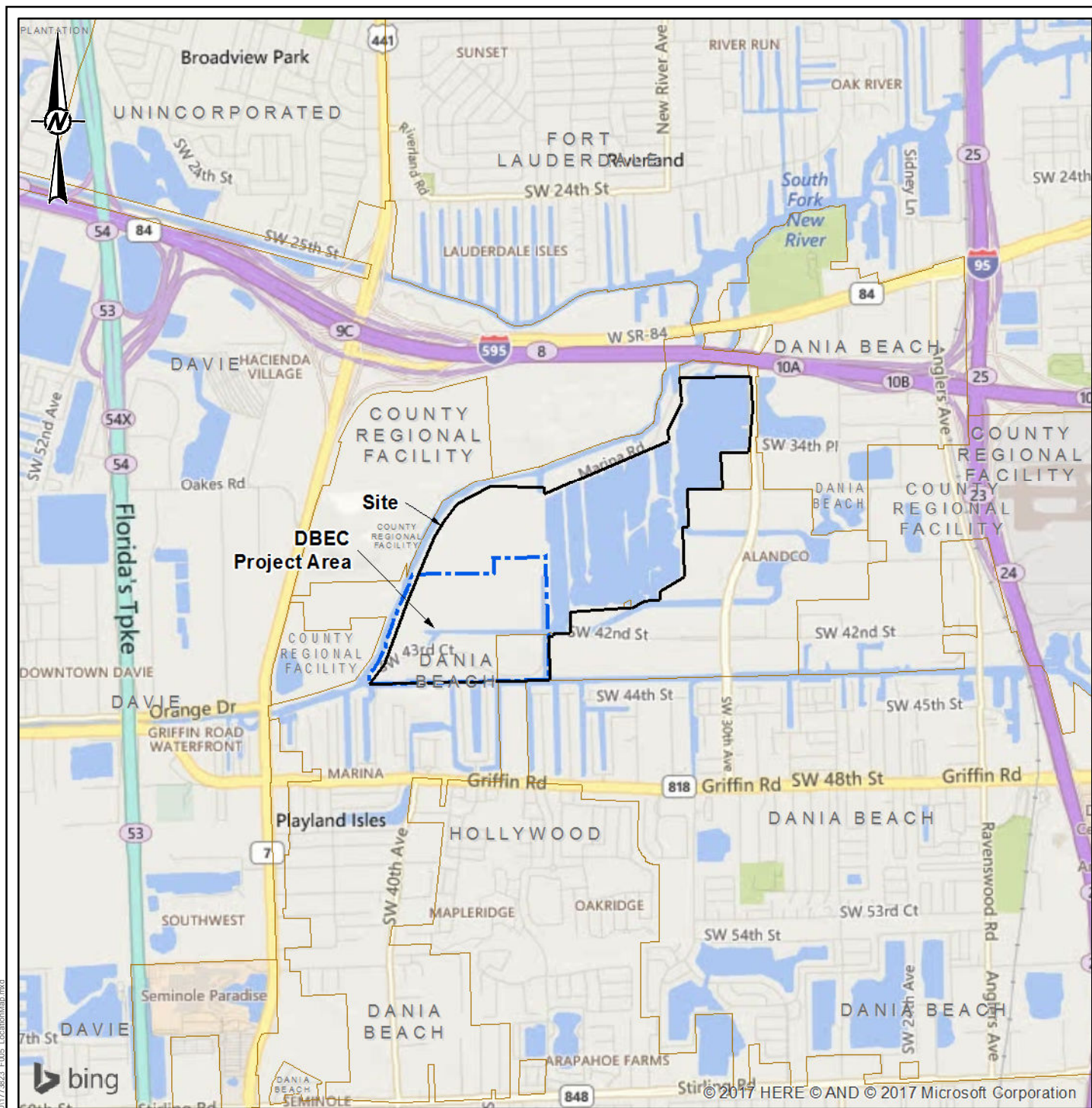
TABLE 3.3.8-1
EXAMPLES OF TYPICAL ILLUMINANCE

	Illuminance (lux)
<u>OUTDOOR</u>	
Bright Sun	100,000 - 130,000
Hazy Day	32,000
Partly Cloudy	25,000
Cloudy	10,000
Overcast	1,000
Sunrise/Sunset on Clear Day	400
Good Street Lighting	20
Poor Street Lighting	1
Full Moon	0.1
Moonless Clear Night Sky	0.001
Moonless Overcast Night Sky	0.0001
<u>INDOOR</u>	
Typical TV Studio	1,000
Bright Office with Large Contrast	400
Hall Way	80
Living Room	50

lux = candelas per square meter

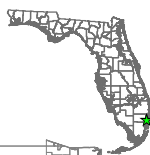
Source: Electro-Optics Handbook, 1979; Williams, 1999.

FIGURES

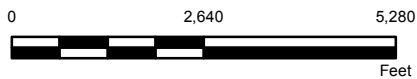


LEGEND

- Site
- DBEC Project Area



BROWARD
COUNTY



REFERENCE(S)

SITE, A.R. TOUSSAINT & ASSOCIATES, INC., 1989
DBEC PROJECT AREA, GOLDER ASSOCIATES INC., 2017

CLIENT
FPL

PROJECT
DANIA BEACH ENERGY CENTER

TITLE
**SITE LOCATION
MAP**

YYYY-MM-DD	2017-05-15
DESIGNED	NRL
PREPARED	NRL
REVIEWED	KAB
APPROVED	KFK



PROJECT NO.
1773823

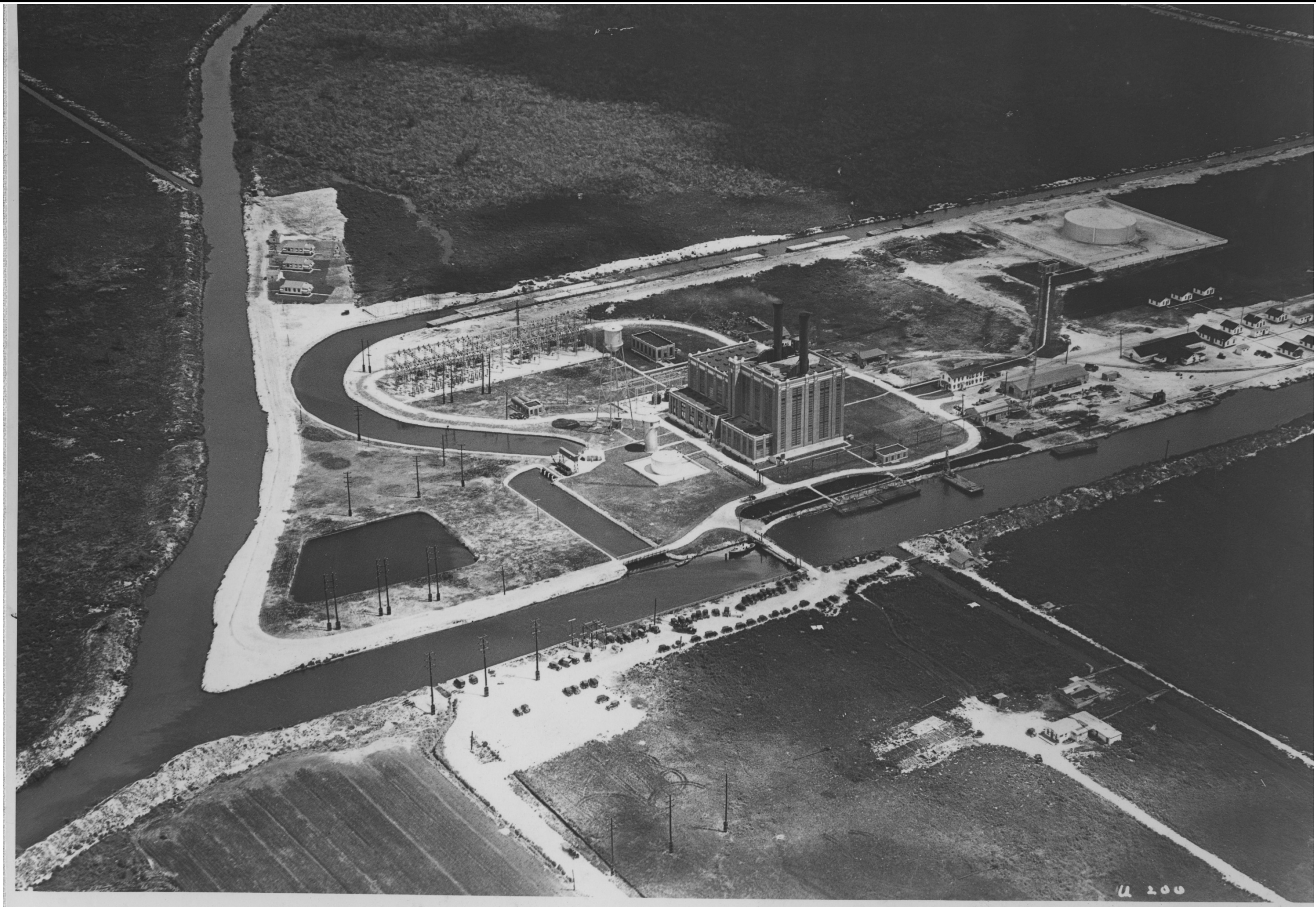
CONTROL
F005

REV.
0

FIGURE
3.1-1

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI A

1 inch



PATH: G:\PROJECTS\FPL\Dania_Beach_Energy_Center\99_PROJECTS\173823_SCALE_SCALE_PROJECT\CONV\173823_F004_ConceptualIllustration\CD\CEC.ppt

CLIENT
FPL

PROJECT
DANIA BEACH
ENERGY CENTER



YYYY-MM-DD	2017-07-14
PREPARED	NRL
DESIGNED	JGW
REVIEWED	KAB
APPROVED	KFK

TITLE
Historical Photograph of Lauderdale Site

PROJECT NO.
1773823

CONTROL
F025

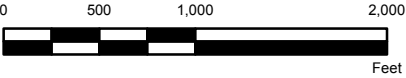
REV.
0

FIGURE
3.1.1-1

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN ADOPTED FROM ANSI B



- LEGEND
- Site
 - DBEC Facility Layout
 - ▭ DBEC Project Area
 - Power Block and Associated



REFERENCE(S)
SITE, A.R. TOUSSAINT & ASSOCIATES INC., 1989
FACILITY LAYOUT, POWER BLOCK AND ASSOCIATED FACILITIES BLACK & VEATCH, 2017
DBEC PROJECT AREA; GOLDER ASSOCIATES INC., 2017

CLIENT
FPL

PROJECT
DANIA BEACH ENERGY CENTER

TITLE
SITE PLAN



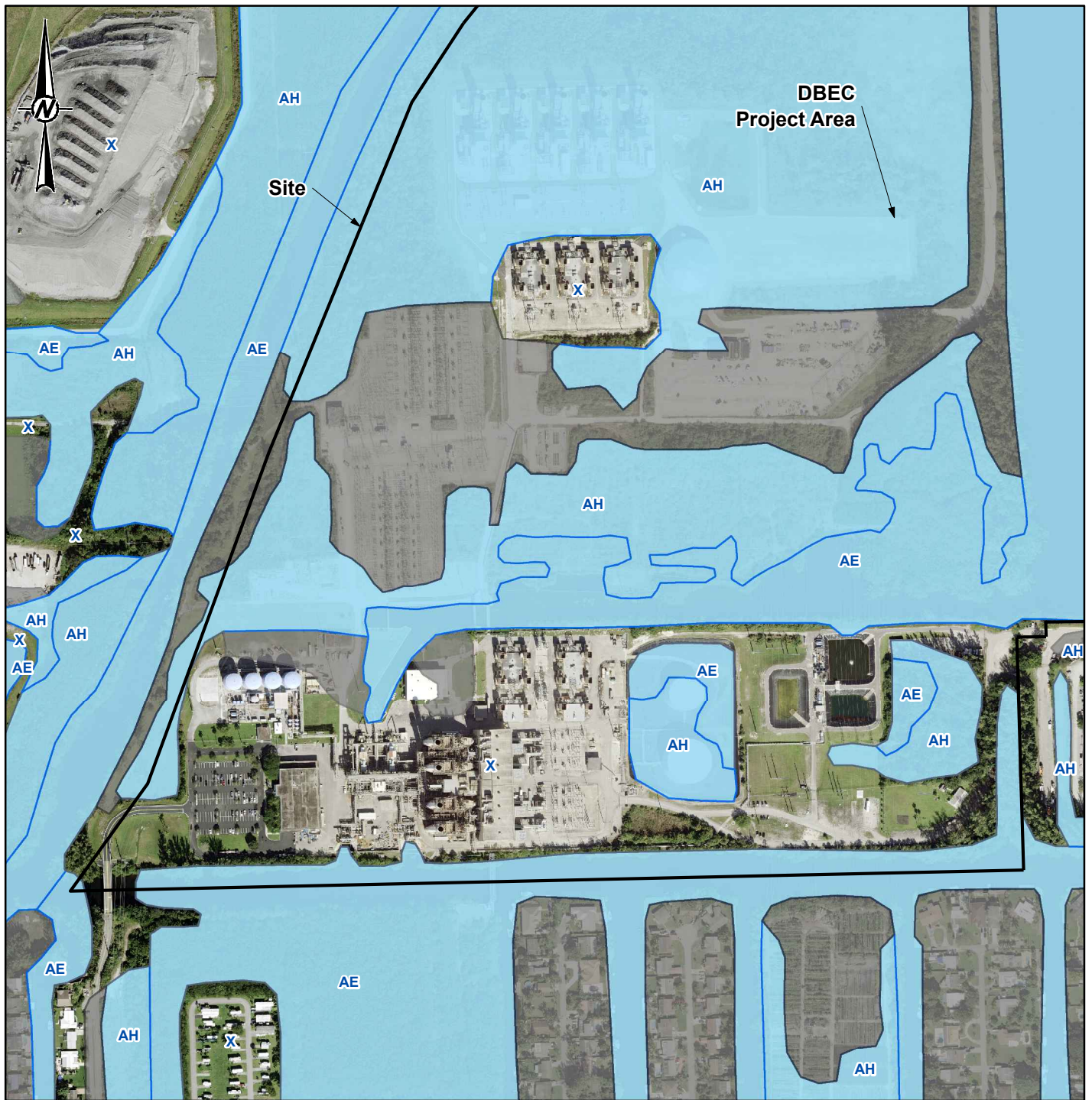
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DESIGNED	NRL
PREPARED	JGW
REVIEWED	KAB
APPROVED	KFK

PROJECT NO.
1773823

CONTROL
F020

REV.
0

FIGURE
3.1-2



LEGEND

- Site
- 100-Year Flood Zone
- 0.2 PCT Annual Chance Flood
- X-Minimal Risk Area outside 0.2 PCT Annual Flood

AE - The base floodplain where base flood elevations are provided. AE Zones are now used on new format FIRMs instead of A1-A30 Zones.

AH - Areas with a 1% annual chance of shallow flooding, usually in the form of a pond, with an average depth ranging from 1 to 3 feet. These areas have a 26% chance of flooding over the life of a 30-year mortgage. Base flood elevations derived from detailed analyses are shown at selected intervals within these zones.

X - Moderate risk areas outside of the 0.2 percent annual chance floodplain. No BFE's or base flood depths are shown within this zone

REFERENCE(S)

PLANT BOUNDARY, A.R. TOUSSAINT & ASSOCIATES, INC., 1989
FLOOD ZONES, FEMA, 2014

CLIENT
FPL

PROJECT
DANIA BEACH ENERGY CENTER

TITLE
FEMA FLOOD ZONES



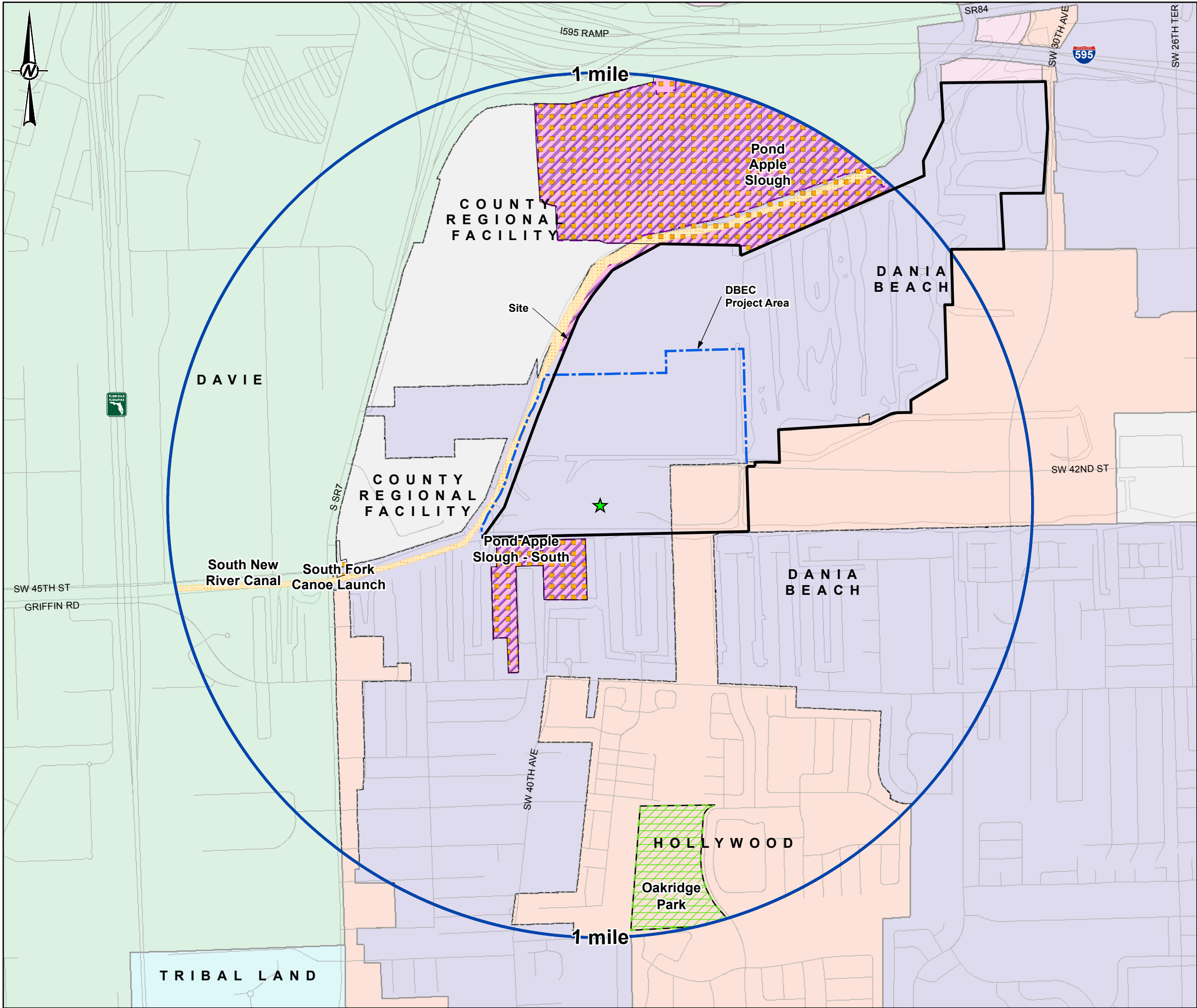
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DESIGNED	NRL
PREPARED	NRL
REVIEWED	KAB
APPROVED	KFK

PROJECT NO.
1773823

CONTROL
F006

REV.
0

FIGURE
3.1.3-1



LEGEND

- ★ Project Location
- Site
- ▭ DBEC Project Area
- ▭ City Parks
- ▭ County Parks
- ▭ Historic Districts
- ▭ Florida Managed Lands
- ▭ FDEP Conservation Lands

REFERENCE(S)

HISTORIC DISTRICTS, BUREAU OF ARCAEOLOGICAL RESEARCH FLORIDA MASTER SITE FILE, 2017
CITY PARKS, COUNTY PARKS, BROWARD COUNTY, 2016
FLORIDA MANAGED LANDS, FLORIDA NATURAL AREAS INVENTORY, FLORIDA CONSERVATION LANDS, DECEMBER 2016
CONSERVATION LANDS, FDEP, 2008

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FPL

PROJECT
DANIA BEACH ENERGY CENTER

TITLE
**GOVERNMENTAL JURISDICTIONS WITHIN
1-MILE RADIUS**

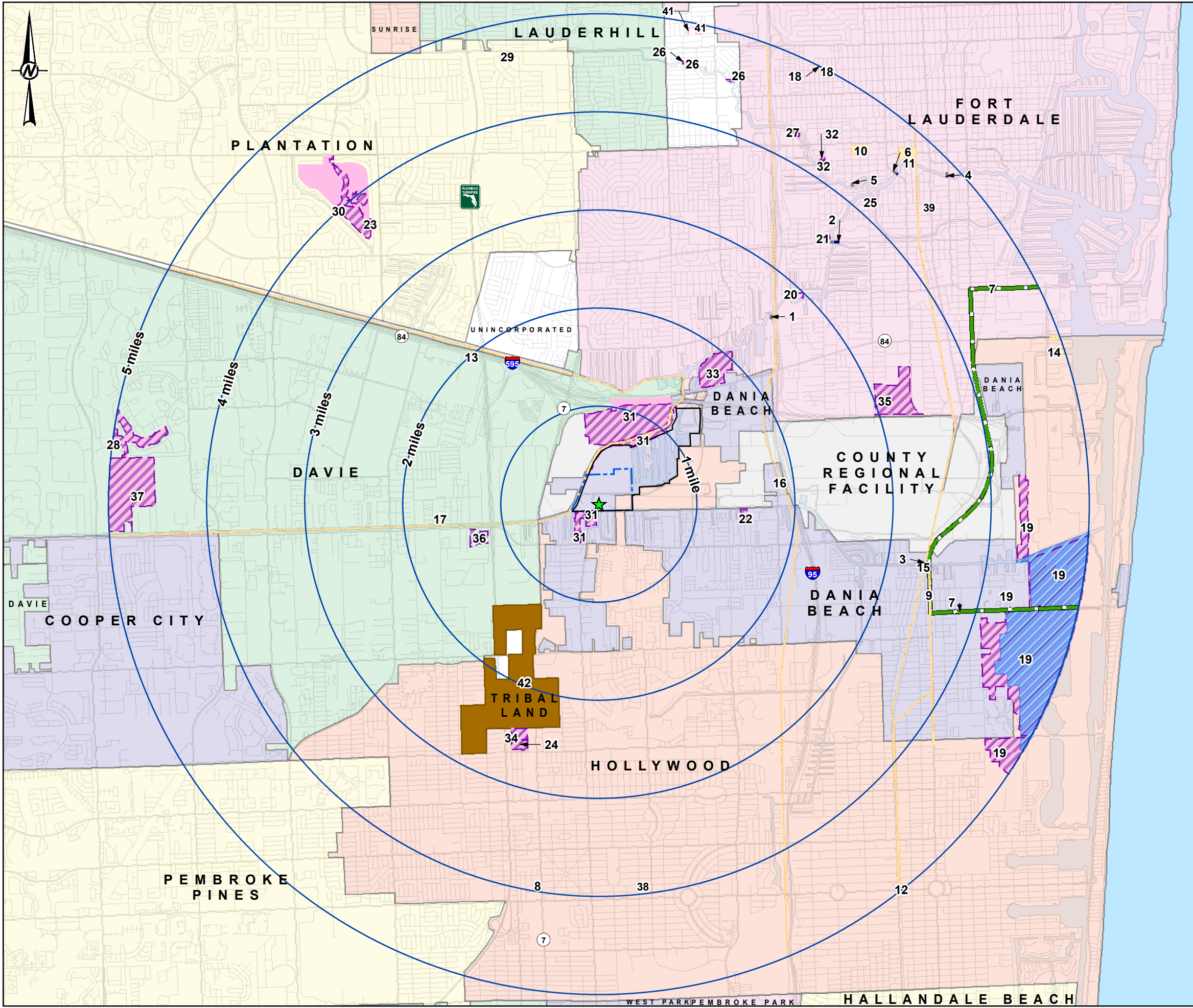
YYYY-MM-DD 2017-06-22
DESIGNED NRL
PREPARED NRL
REVIEWED KAB
APPROVED KFK

PROJECT NO. 1773823
CONTROL F007
REV. 0

FIGURE
3.2.1-1

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IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B



LEGEND

- ★ Project Location
- Site
- DBEC Project Area
- Historic Bridges
- Scenic Byways
- Historic Districts
- Marine Protected Areas
- Florida Managed Lands
- Outstanding Florida Waters
- FDEP Conservation Lands
- Native American Lands

NOTE(S)
SEE TABLE 3.2.1-2A FOR DETAILS

REFERENCE(S)
HISTORIC BRIDGES, HISTORIC DISTRICTS, CEMETERIES, BUREAU OF ARCAEOLOGICAL RESEARCH FLORIDA MASTER SITE FILE, 2017
MARINE PROTECTED AREAS, NOAA'S NATIONAL MARINE PROTECTED AREAS CENTER, 2013
FLORIDA MANAGED LANDS, FLORIDA NATURAL AREAS INVENTORY, FLORIDA CONSERVATION LANDS, DECEMBER 2016
OUTSTANDING FLORIDA WATERS, FDEP, 2015
CONSERVATION LANDS, FDEP, 2008

CLIENT
FPL

PROJECT
DANIA BEACH ENERGY CENTER

TITLE
**GOVERNMENTAL JURISDICTIONS WITHIN
1-, 2-, 3-, 4-, AND 5-MILE RADI; STATE JURISDICTIONS**

YYYY-MM-DD 2017-06-22
DESIGNED NRL
PREPARED NRL
REVIEWED KAB
APPROVED KFK

PROJECT NO. 1773823
CONTROL F014
REV. 0

FIGURE
3.2.1-2a

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1" IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

Table 3.2.1-2a: State Governmental Jursdictions within 1-, 2-, 3-, 4-, and 5-Mile Radii

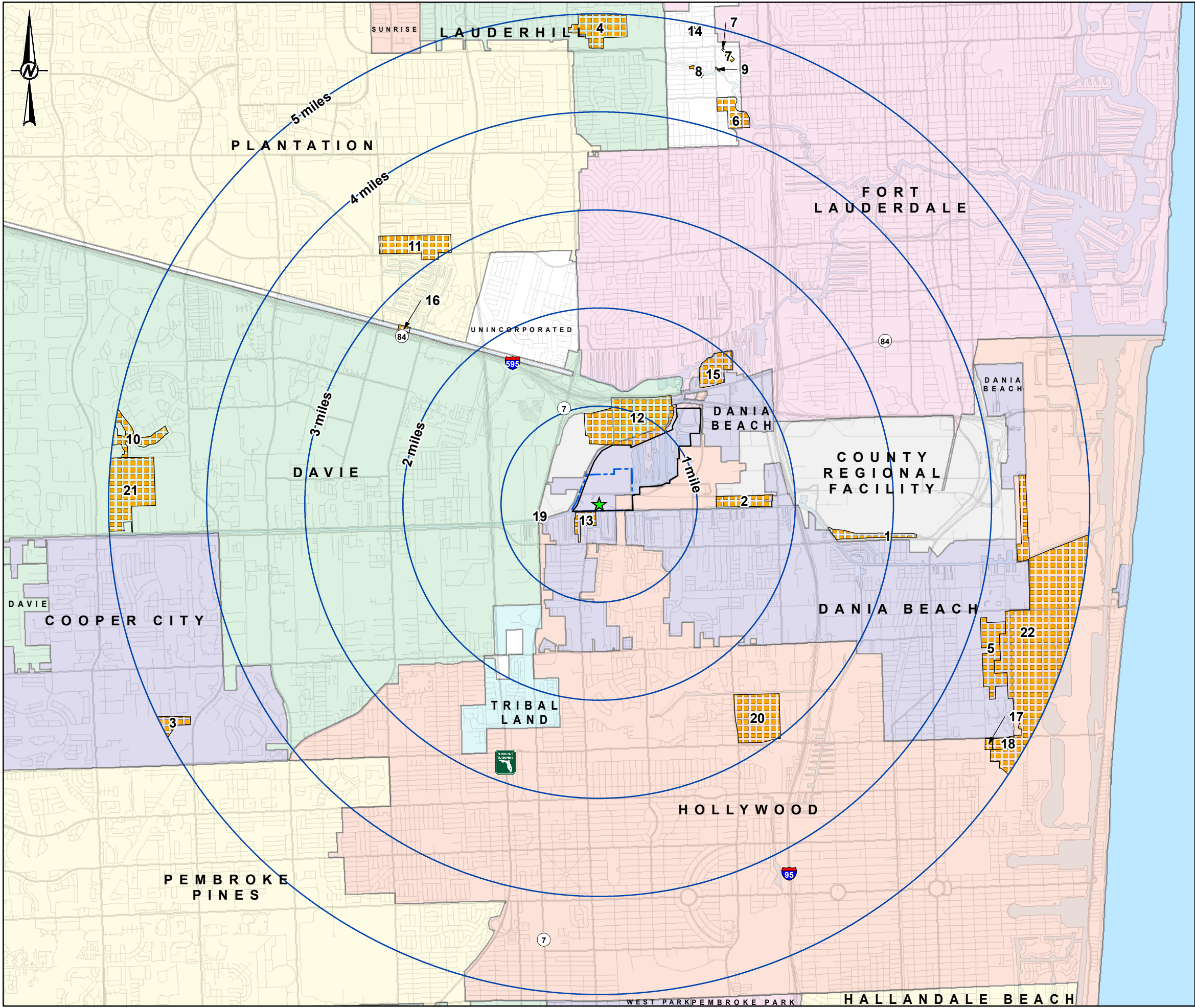
Name	Map ID	Governmental Jurisdiction								Managing Agency
		Historic Bridges	Historic District	Scenic Byway	Marine Portected Area	Florida Manged Lands	Outstanding Florida Waters	FDEP Conservation Lands	Native American Lands	
CSXT Railroad Bridge #Sx10138	1	X								Florida Department of State Division of Historical Resources
Davie Blvd./S. Fork New River Bridge	2	X								Florida Department of State Division of Historical Resources
Fec Bridge Over Dania Canal	3	X								Florida Department of State Division of Historical Resources
SE 3Rd Avenue/New River Bridge	4	X								Florida Department of State Division of Historical Resources
Snow Reed Swing Bridge	5	X								Florida Department of State Division of Historical Resources
SW 4Th Avenue/New River Bridge	6	X								Florida Department of State Division of Historical Resources
State Road A1A Broward County Scenic Highway	7			X						Florida Department of Transportation
Acoreano Motel Complex	8		X							Florida Department of State Division of Historical Resources
Dixie Highway	9		X							Florida Department of State Division of Historical Resources
Dr. Kennedy Homes	10		X							Florida Department of State Division of Historical Resources
Ft Lauderdale Historic District	11		X							Florida Department of State Division of Historical Resources
Hollywood Boulevard Hist. Business Dist.	12		X							Florida Department of State Division of Historical Resources
North New River Canal	13		X							Florida Department of State Division of Historical Resources
Port Everglades	14		X							Florida Department of State Division of Historical Resources
Railroad Tracks	15		X							Florida Department of State Division of Historical Resources



Table 3.2.1-2a: State Governmental Jursdictions within 1-, 2-, 3-, 4-, and 5-Mile Radii

Name	Map ID	Governmental Jurisdiction								Managing Agency
		Historic Bridges	Historic District	Scenic Byway	Marine Portected Area	Florida Manged Lands	Outstanding Florida Waters	FDEP Conservation Lands	Native American Lands	
Seaboard Air Line (Csx) Rr	16		X							Florida Department of State Division of Historical Resources
South New River Canal	17		X							Florida Department of State Division of Historical Resources
Sunnyland Homes	18		X							Florida Department of State Division of Historical Resources
West Lake Park / Anne Kolb Nature Center	19					X	X	X		Broward County
Bill Keith Preserve	20					X				City of Fort Lauderdale
Coontie Hatchee Landing	21					X				City of Fort Lauderdale
Dania Cove / Little Fuzzy Bunny Cove	22					X		X		City of Dania Beach
East Tropical Way Park	23					X		X		City of Plantation
John Williams Park	24					X		X		City of Holly wood
Lewis Landing	25					X				City of Fort Lauderdale
North Fork Blueway	26					X		X		Broward County
North Fork Riverwalk	27					X		X		City of Fort Lauderdale
Pine Island Ridge Natural Area	28					X		X		Broward County
Plantation Park East Trailhead	29					X		X		City of Plantation
Plantation Preserve	30					X		X		City of Plantation
Pond Apple Slough	31					X		X		Broward County
Sailboat Bend Preserve	32					X		X		City of Fort Lauderdale
Secret Woods Buffer And Nature Center	33					X		X		Broward County
Sheridan Oak Forest	34					X		X		City of Holly wood
Snyder Park	35					X		X		City of Fort Lauderdale
Sunny Lake Bird Sanctuary	36					X				Town of Davie
Tree Tops Regional Park	37					X		X		Broward County
Church Site Park	38							X		City of Holly wood
Florence Hardy Park Addition	39							X		City of Fort Lauderdale
Riverside Park	40							X		City of Fort Lauderdale
Roosevelt Gardens	41							X		Broward County
Seminole Tribal Lands	42								X	Seminole Tribe





LEGEND

- ★ Project Location
- Site
- DBEC Project Area
- County Parks

0 0.5 1 2
Miles

NOTE(S)
SEE TABLE 3.2.1-2B FOR DETAILS

REFERENCE(S)
COUNTY PARKS, BROWARD COUNTY, 2016

CLIENT
FPL

PROJECT
DANIA BEACH ENERGY CENTER

TITLE
GOVERNMENTAL JURISDICTIONS WITHIN
1-, 2-, 3-, 4-, AND 5-MILE RADII; BROWARD COUNTY JURISDICTIONS



YYYY-MM-DD	2017-06-22
DESIGNED	NRL
PREPARED	NRL
REVIEWED	KAB
APPROVED	KFK

PROJECT NO.
1773823

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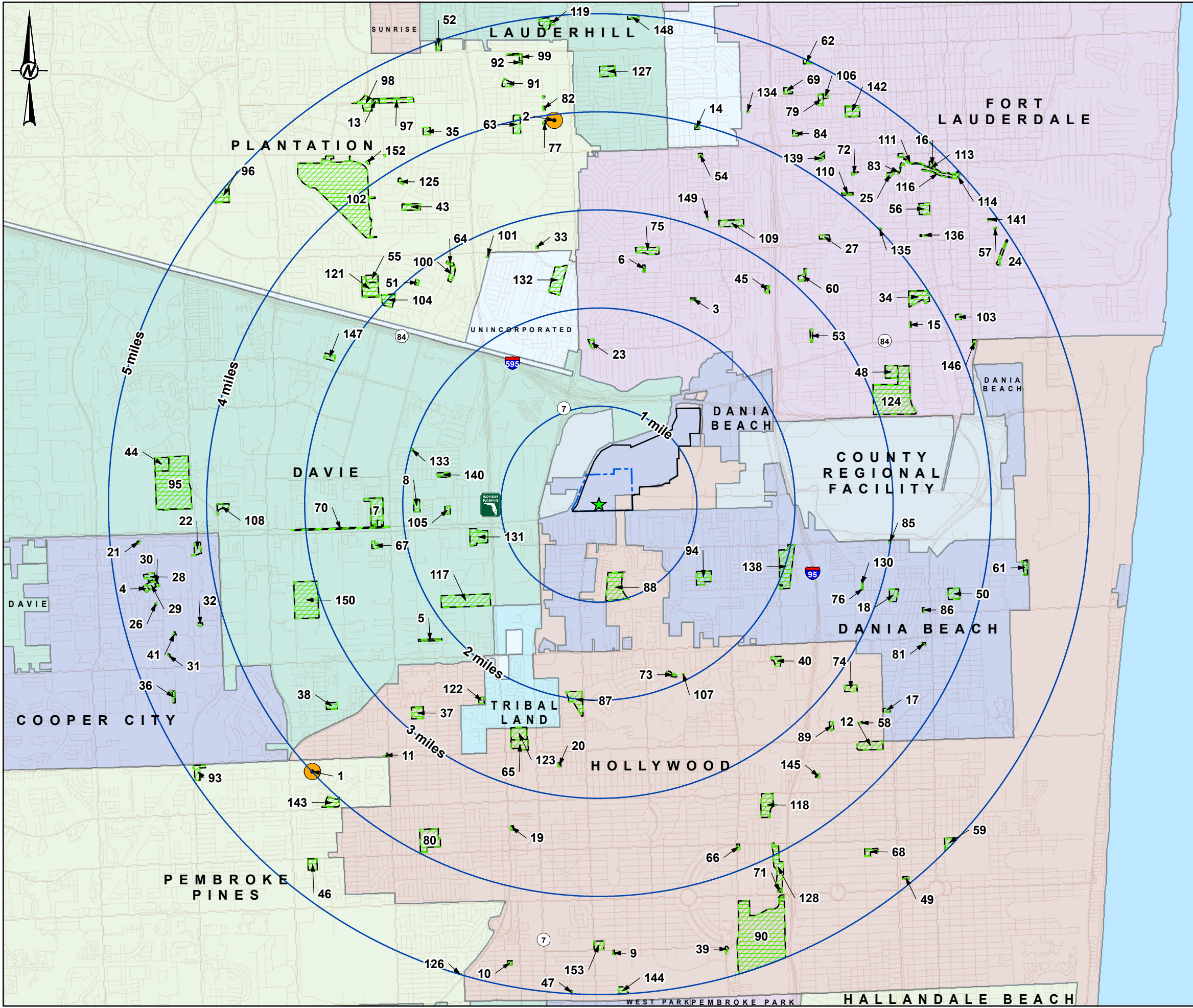
FIGURE
3.2.1-2b

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1" IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

Table 3.2.1-2b: County Governmental Jurisdictions within 1-, 2-, 3-, 4-, and 5-Mile Radii

Name	Map ID	Governmental Jurisdiction	Managing Agency
		County Park	
Aviation Greenspace	1	X	Broward County
Boater's Park	2	X	Broward County
Brian Piccolo Park	3	X	Broward County
Central Broward Regional Park	4	X	Broward County
Dania Salt Marsh	5	X	Broward County
Delevoe Park	6	X	Broward County
Franklin Park	7	X	Broward County
Lafayette Hart Park	8	X	Broward County
Lewis Chisolm Park	9	X	Broward County
Pine Island Ridge Natural Area	10	X	Broward County
Plantation Heritage Park	11	X	Broward County
Pond Apple Slough	12	X	Broward County
Pond Apple Slough - South	13	X	Broward County
Roosevelt Gardens	14	X	Broward County
Secret Woods Buffer and Nature Center	15	X	Broward County
Sewell Lock	16	X	Broward County
Sheridan St Addition	17	X	Broward County
Sheridan St Esl	18	X	Broward County
South Fork Canoe Launch	19	X	Broward County
Topeekeegee Yugnee Park	20	X	Broward County
Tree Tops Regional Park	21	X	Broward County
West Lake Park / Anne Kolb Nature Center	22	X	Broward County



LEGEND

- ★ Project Location
- Site
- DBEC Project Area
- Landmarks
- City Parks

NOTE(S)

SEE TABLE 3.2.1-2C FOR DETAILS

REFERENCE(S)

LANDMARKS, US CENSUS BUREAU, 2000
CITY PARKS, BROWARD COUNTY, 2016

CLIENT

FPL

PROJECT

DANIA BEACH ENERGY CENTER

TITLE

**GOVERNMENTAL JURISDICTIONS WITHIN
1-, 2-, 3-, 4-, AND 5-MILE RADI; MUNICIPAL JURISDICTIONS**

YYYY-MM-DD	2017-06-22
DESIGNED	NRL
PREPARED	NRL
REVIEWED	KAB
APPROVED	KFK

PROJECT NO.
1773823

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FIGURE
3.2.1-2c

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Table 3.2.1-2c: Municipal Governmental Jurisdictions within 1-, 2-, 3-, 4-, and 5-Mile Radii

Name	Map ID	Governmental Jurisdiction		Managing Agency
		Landmark	City Park	
Pembroke Pines General Hospital	1	X		Pembroke Pines
Plantation General Hospital	2	X		City of Plantation
Ann Herman Park	3		X	City of Fort Lauderdale
Bear Patch Park	4		X	Cooper City
Beman Park	5		X	Town of Davie
Benenson Park	6		X	City of Fort Lauderdale
Bergeron Rodeo Grounds	7		X	Town of Davie
Betty Booth Roberts Park	8		X	Town of Davie
Beverly Hills Park	9		X	City of Hollywood
Beverly Park & Community Center	10		X	City of Hollywood
Bicentennial Park	11		X	City of Hollywood
Boggs Field	12		X	City of Hollywood
Botanical Gardens (plot 3)	13		X	City of Plantation
Boulevard Gardens Park	14		X	City of Fort Lauderdale
Bryant H Peney Park	15		X	City of Fort Lauderdale
Bubier Park	16		X	City of Fort Lauderdale
Byrd Park	17		X	City of Dania Beach
C W Thomas Park	18		X	City of Dania Beach
Carlton Montayne Park	19		X	City of Hollywood
Cathy & Bob Anderson Park	20		X	City of Hollywood
Chase Park	21		X	Cooper City
Christie Schafale Park	22		X	Cooper City
Civic Peoples Park	23		X	City of Fort Lauderdale
Cliff Lake Park	24		X	City of Fort Lauderdale
Colleys Landing	25		X	City of Fort Lauderdale
Colony Park	26		X	Cooper City
Coontie Hatchee Landing	27		X	City of Fort Lauderdale
Cooper City Community Center	28		X	Cooper City
Cooper City Memorial Park	29		X	Cooper City
Cooper Point Park	30		X	Cooper City
Coopers Point Park	31		X	Cooper City
Country Address Park	32		X	Cooper City
Country Club Park	33		X	City of Plantation
Croissant Park Center	34		X	City of Fort Lauderdale
Deicke Auditorium	35		X	City of Plantation
Diamond Head Park	36		X	Cooper City
Driftwood Acres Park	37		X	City of Hollywood
Driftwood Estates Park	38		X	Town of Davie
Earl Crawford Park	39		X	City of Hollywood
Emerald Hills Park	40		X	City of Hollywood

Table 3.2.1-2c: Municipal Governmental Jurisdictions within 1-, 2-, 3-, 4-, and 5-Mile Radii

Name	Map ID	Governmental Jurisdiction		Managing Agency
		Landmark	City Park	
Encore Park	41		X	Cooper City
Esplanade Park (Discovery Park)	42		X	City of Fort Lauderdale
Fig Tree Park	43		X	City of Plantation
Flamingo Elem Ball Park	44		X	Town of Davie
Flamingo Park	45		X	City of Fort Lauderdale
Fletcher Park	46		X	Pembroke Pines
Fletcher St Park	47		X	City of Hollywood
Floyd Hull Stadium	48		X	City of Fort Lauderdale
Fred Lipman Multi-purpose Center	49		X	City of Hollywood
Frost Park	50		X	City of Dania Beach
Fumpston Park	51		X	City of Plantation
Gateway Park	52		X	City of Lauderhill
Georgian Oaks (PUD)	53		X	City of Fort Lauderdale
Guthrie-Blake Park	54		X	City of Fort Lauderdale
Happy Trails Dog Park	55		X	City of Plantation
Hardy, Florence C Park	56		X	City of Fort Lauderdale
Hector Park	57		X	City of Fort Lauderdale
Henry Graham Park	58		X	City of Hollywood
Hollywood Beach Golf & Country Club	59		X	City of Hollywood
Hortt Park	60		X	City of Fort Lauderdale
IT Parker Community Ctr	61		X	City of Dania Beach
J C Carter Park	62		X	City of Fort Lauderdale
J Ward Community Center	63		X	City of Plantation
Jack Carter Harmony Park	64		X	City of Plantation
John Williams Park	65		X	City of Hollywood
Kiwanis Park	66		X	City of Hollywood
Lange Park	67		X	Town of Davie
Lincoln Park	68		X	City of Fort Lauderdale
Lincoln Park	69		X	City of Hollywood
Linear Park (C-11 Canal)	70		X	Town of Davie
Lions Park	71		X	City of Hollywood
Maj William Lauderdale Park	72		X	City of Fort Lauderdale
Mara Berman Giuliani Park	73		X	City of Hollywood
Martin Luther King Jr Park/commcenter	74		X	City of Hollywood
Melrose Park	75		X	City of Fort Lauderdale
Mildred V Jones Park	76		X	City of Dania Beach
Mini- Park (south)	77		X	City of Plantation
Mini Park (north)	78		X	City of Plantation
Mizell Center	79		X	City of Fort Lauderdale
Montella Park & Comm Center	80		X	City of Hollywood

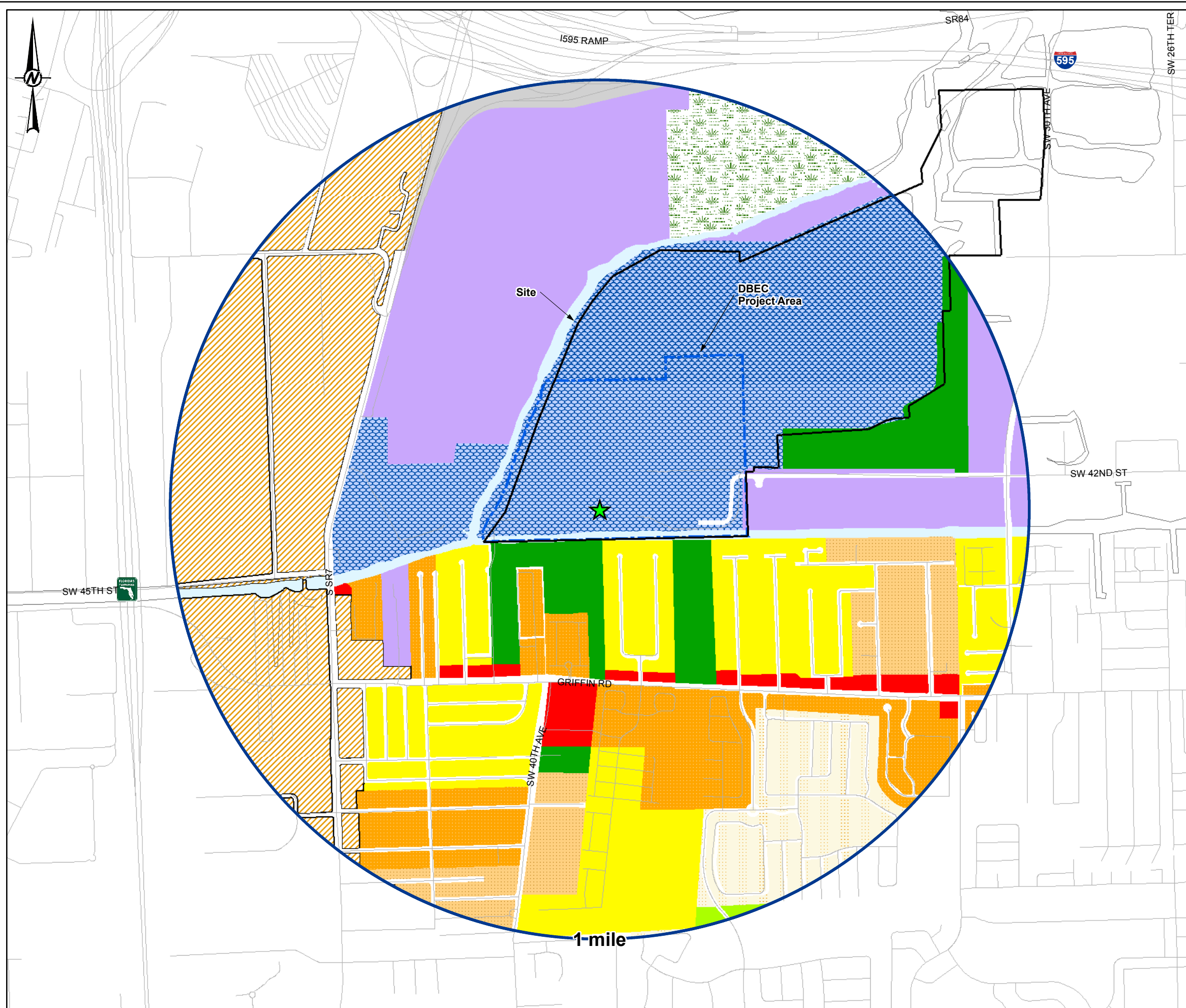
Table 3.2.1-2c: Municipal Governmental Jurisdictions within 1-, 2-, 3-, 4-, and 5-Mile Radii

Name	Map ID	Governmental Jurisdiction		Managing Agency
		Landmark	City Park	
Mullikin Park	81		X	City of Dania Beach
Multicurtal Park	82		X	City of Plantation
New River Dockage	83		X	City of Fort Lauderdale
North Fork Riverfront Park	84		X	City of Fort Lauderdale
Northside Melaleuca Park	85		X	City of Dania Beach
Nyberg Swanson House	86		X	City of Dania Beach
Oak Lake Park	87		X	City of Hollywood
Oakridge Park	88		X	City of Hollywood
Oakwood Hills Park	89		X	City of Hollywood
Orangebrook Golf Course	90		X	City of Hollywood
Park East Park	91		X	City of Plantation
Park East Trail Head	92		X	City of Plantation
Pasadena Park	93		X	Pembroke Pines
Patrick J Meli Park	94		X	City of Dania Beach
Pine Island Park	95		X	Town of Davie
Pine Island Park	96		X	City of Plantation
Plantation Botanical Gardens - I	97		X	City of Plantation
Plantation Botanical Gardens - II	98		X	City of Plantation
Plantation Business Park	99		X	City of Plantation
Plantation City Park	100		X	City of Plantation
Plantation Point Park	101		X	City of Plantation
Plantation Preserve Golf Course & Club	102		X	City of Plantation
Poinciana Park	103		X	City of Fort Lauderdale
Pop Travers Park	104		X	City of Plantation
Potter Park	105		X	Town of Davie
Provident Park	106		X	City of Fort Lauderdale
Rainbow Tot Lot	107		X	City of Hollywood
Reflections Park	108		X	Town of Davie
Riverland Park	109		X	City of Fort Lauderdale
Riverside Park	110		X	City of Fort Lauderdale
Riverwalk Park - North III	111		X	City of Fort Lauderdale
Riverwalk Park - North I	112		X	City of Fort Lauderdale
Riverwalk Park - North II	113		X	City of Fort Lauderdale
Riverwalk Park - South	114		X	City of Fort Lauderdale
Riverwalk Park - South I	115		X	City of Fort Lauderdale
Riverwalk Park - South II	116		X	City of Fort Lauderdale
Rotary Nature Park	117		X	Town of Davie
Rotary Park	118		X	City of Hollywood
Sadkin Community Center	119		X	City of Lauderdale
Sailboat Bend Preserve	120		X	City of Fort Lauderdale

Table 3.2.1-2c: Municipal Governmental Jurisdictions within 1-, 2-, 3-, 4-, and 5-Mile Radii

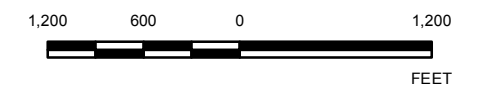
Name	Map ID	Governmental Jurisdiction		Managing Agency
		Landmark	City Park	
Seminole Park	121		X	City of Plantation
Seminole Park	122		X	City of Hollywood
Sheridan Oak Forest	123		X	City of Hollywood
Snyder Park	124		X	City of Fort Lauderdale
South Bel Aire Park	125		X	City of Plantation
Southwest Village Community Center	126		X	Pembroke Pines
St George Community Park	127		X	City of Lauderhill
Stan Goldman Memorial Park	128		X	City of Hollywood
Stranahan Park	129		X	City of Fort Lauderdale
Sun Garden Isles Park	130		X	City of Dania Beach
Sunny Lake Bird Sanctuary	131		X	Town of Davie
Sunview Park	132		X	City of Fort Lauderdale
SW 36th Court Park	133		X	Town of Davie
Sweeting Park	134		X	City of Fort Lauderdale
Tarpon Cove Park	135		X	City of Fort Lauderdale
Tarpon River Park	136		X	City of Fort Lauderdale
Thrower Park	137		X	City of Plantation
Tigertail Park	138		X	City of Dania Beach
Townsend Park	139		X	City of Fort Lauderdale
Veteran`s Park	140		X	Town of Davie
Virginia S Young Park	141		X	City of Fort Lauderdale
Walker School Park	142		X	City of Fort Lauderdale
Walnut Creek Park	143		X	Pembroke Pines
Washington Park	144		X	City of Hollywood
Waterview Park	145		X	City of Hollywood
Welcome Park	146		X	City of Fort Lauderdale
Wess Griffin Park Playground	147		X	Town of Davie
West Ken Lark Park	148		X	City of Fort Lauderdale
Westwood Heights (triangle) Park	149		X	City of Fort Lauderdale
Wolf Lake	150		X	Town of Davie
Wolk Park & Pool	151		X	City of Lauderhill
Woodbury Park	152		X	City of Plantation
Zinkel Park	153		X	City of Hollywood

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LEGEND

- ★ Project Location
- Site
- ▭ DBEC Project Area
- Broward County Land Use**
- Commercial
- Commercial Recreation
- Conservation - Natural Reservations
- Electrical Generation Facility
- Estate (1) Residential
- Industrial
- Low (3) Residential
- Low (5) Residential
- Low - Medium (10) Residential
- Medium (16) Residential
- Right of Way
- Transit Oriented Corridor
- Transportation
- Utilities
- Water



REFERENCE(S)
LAND USE, BROWARD COUNTY, 2016

CLIENT
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PROJECT
DANIA BEACH ENERGY CENTER

TITLE
**BROWARD COUNTY
LAND USE MAP**



YYYY-MM-DD	2017-06-22
DESIGNED	NRL
PREPARED	NRL
REVIEWED	KAB
APPROVED	KFK

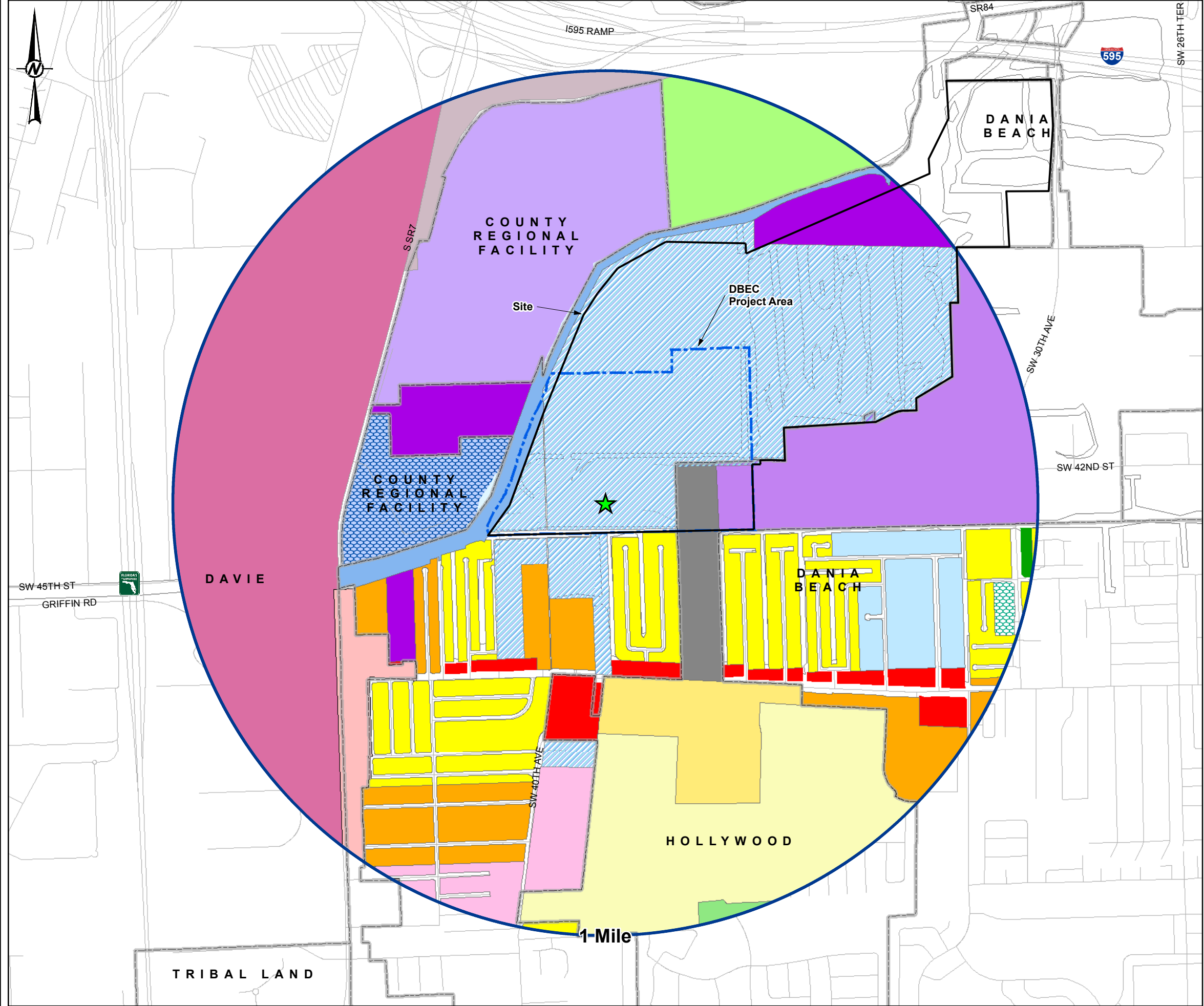
PROJECT NO.
1773823

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F009

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FIGURE
3.2.2-1

1" IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B



LEGEND

★ Project Location

— Site

▭ DBEC Project Area

Dania Beach Future Land Use

- Commercial
- Community Facilities
- Estate Residential
- Industrial
- Irregular Residential Density
- Low (5) Residential
- Low-Medium (10) Residential
- Medium (16) Residential
- Parks & Recreation
- Utilities
- Water

Hollywood Future Land Use

- General Business
- Industrial
- Low Medium Residential 6 - 10 Units Per Acre
- Low (5) Residential 0 - 5 Units Per Acre
- Open Space and Recreation
- Transportation Oriented Corridor
- Utilities

Town of Davie Future Land Use

- Conservation
- Transit Oriented Corridor
- Transportation

Broward County Land Use

- Electrical Generation Facility
- Industrial
- Water

1,200 600 0 1,200

FEET

REFERENCE(S)

FUTURE LAND USE, DANIA BEACH PLANNING DEPARTMENT, 2016, CITY OF HOLLYWOOD, 2011, TOWN OF DAVIE, 2017, BROWARD COUNTY, 2016

CLIENT

FPL

PROJECT

DANIA BEACH ENERGY CENTER

TITLE

FUTURE LAND USE

WITHIN 1-MILE

YYYY-MM-DD	2017-06-22
DESIGNED	NRL
PREPARED	NRL
REVIEWED	KAB
APPROVED	KFK

PROJECT NO.
1773823

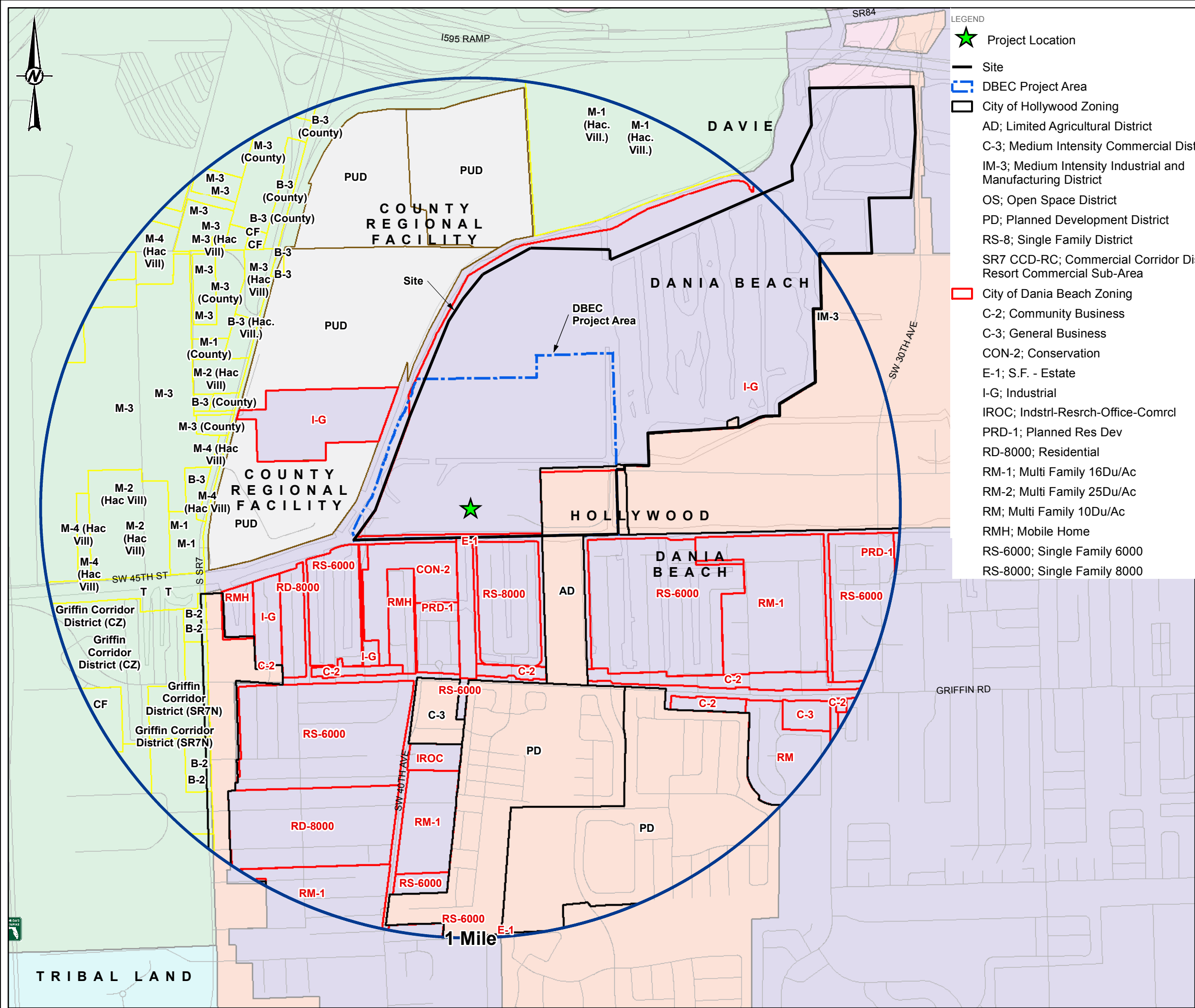
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FIGURE
3.2.2-2

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1" IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B



- LEGEND**
- ★ Project Location
 - Site
 - DBEC Project Area
 - City of Hollywood Zoning
 - AD; Limited Agricultural District
 - C-3; Medium Intensity Commercial District
 - IM-3; Medium Intensity Industrial and Manufacturing District
 - OS; Open Space District
 - PD; Planned Development District
 - RS-8; Single Family District
 - SR7 CCD-RC; Commercial Corridor District - Resort Commercial Sub-Area
 - City of Dania Beach Zoning
 - C-2; Community Business
 - C-3; General Business
 - CON-2; Conservation
 - E-1; S.F. - Estate
 - I-G; Industrial
 - IROC; Indstl-Resrch-Office-Comrci
 - PRD-1; Planned Res Dev
 - RD-8000; Residential
 - RM-1; Multi Family 16Du/Ac
 - RM-2; Multi Family 25Du/Ac
 - RM; Multi Family 10Du/Ac
 - RMH; Mobile Home
 - RS-6000; Single Family 6000
 - RS-8000; Single Family 8000
 - Town of Davie Zoning
 - A-1 (County); Agricultural District
 - B-2; Community Business District
 - B-3 (County); Planned Business District
 - B-3 (Hac. Vill.); Planned Business District
 - B-3; Planned Business District
 - CF; Community Facilities
 - Griffin Corridor District (CZ); Commerce Zone
 - Griffin Corridor District (SR7N); State Road 7 Node
 - M-1 (County); Light Industrial
 - M-1 (Hac. Vill.); Light Industrial
 - M-1; Light Industrial
 - M-2 (Hac Vill); Medium Industrial
 - M-2; Medium Industrial
 - M-3 (County); Heavy Industrial
 - M-3 (Hac Vill); Heavy Industrial
 - M-3; Planned Industrial Park
 - M-4 (Hac Vill); Limited Heavy Industrial
 - T; Transportation
 - Broward County Unincorporated Zoning
 - PUD; Planned Unit Development



REFERENCE(S)
ZONING, DANIA BEACH PLANNING DEPARTMENT, 2016, CITY OF HOLLYWOOD, 2011, TOWN OF DAVIE, 2017, BROWARD COUNTY, 2011

CLIENT
FPL

PROJECT
DANIA BEACH ENERGY CENTER

TITLE
ZONING WITHIN 1-MILE



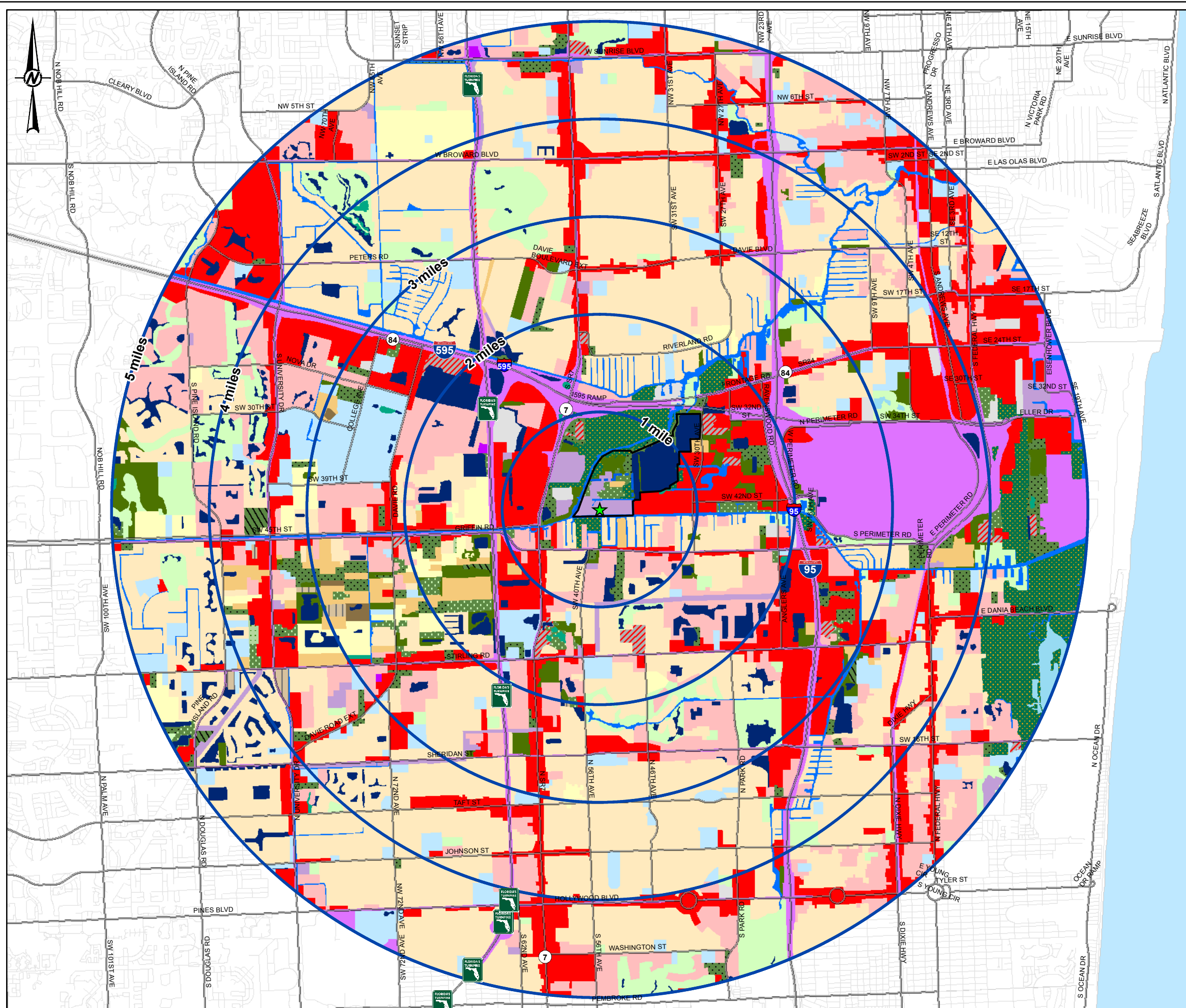
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DESIGNED	NRL
PREPARED	NRL
REVIEWED	KAB
APPROVED	KFK

PROJECT NO. 1773823 CONTROL F012 REV. 0 FIGURE 3.2.2-3

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1" IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

G:\PROJECTS\FPL\Dania Beach_Energy_Center\09_PROJECTS\1773823_SCAN02_PRODUCTION\1773823_F013_GovUseMap.mxd



LEGEND

- ★ Project Location
- Site
- DBEC Project Area
- Land Cover (Level II)**
 - Residential Low Density
 - Residential Medium Density
 - Residential High Density
 - Commercial and Services
 - Industrial
 - Institutional
 - Recreational
 - Cropland and Pastureland
 - Tree Crops
 - Nurseries and Vineyards
 - Specialty Farms
 - Herbaceous
 - Upland Shrub and Brushland
 - Mixed Rangeland
 - Upland Hardwood Forests
 - Streams and Waterways
 - Lakes
 - Reservoirs
 - Wetland Hardwood Forests
 - Non-Forested Wetlands
 - Disturbed Land
 - Transportation
 - Communication
 - Utilities



REFERENCE(S)
LAND USE, SFWMD, 2008-09

CLIENT
FPL

PROJECT
DANIA BEACH ENERGY CENTER

TITLE
**EXISTING LAND USE (FLUCFCS LEVEL II)
WITHIN 5-MILES**



YYYY-MM-DD	2017-05-31
DESIGNED	NRL
PREPARED	NRL
REVIEWED	KAB
APPROVED	KFK

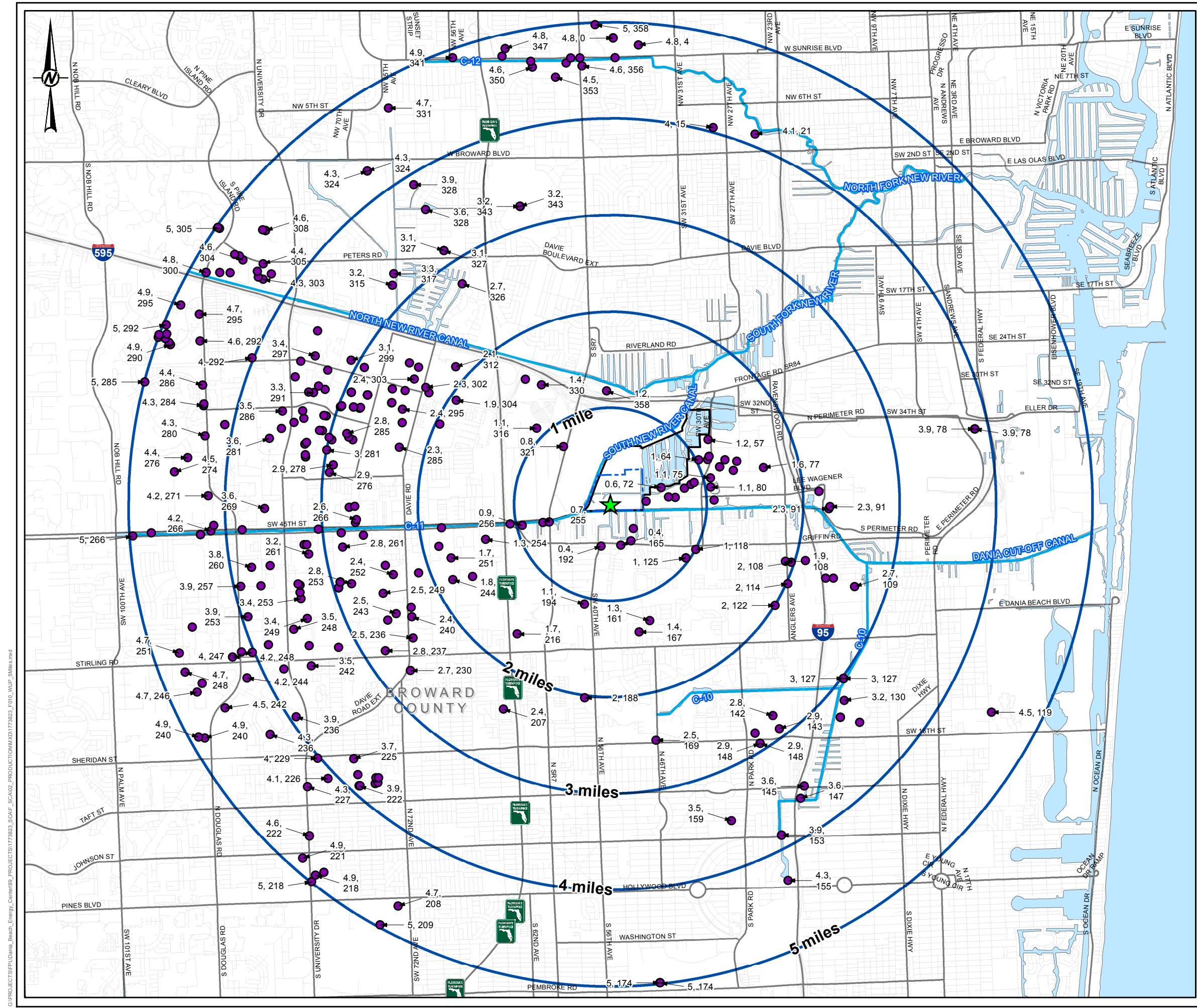
PROJECT NO.
1773823

CONTROL
F013

REV.
0

FIGURE
3.2.3-1

1 in. IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B



LEGEND

- ★ Project Location
- Site
- DBEC Project Area
- Surface Water Withdrawal (Lakes & Canals)

5,280 2,640 0 5,280

FEET

REFERENCE(S)

WATER USE PERMITS, SFWMD, 2017

CLIENT

FPL

PROJECT

DANIA BEACH ENERGY CENTER

TITLE

SURFACE WATER WITHDRAWAL (LAKES & CANALS)
WATER USE PERMITS
WITHIN A 5-MILE RADIUS



FPL

YYYY-MM-DD	2017-05-22
DESIGNED	NRL
PREPARED	NRL
REVIEWED	KAB
APPROVED	KFK

PROJECT NO.

1773823

CONTROL

F010

REV.

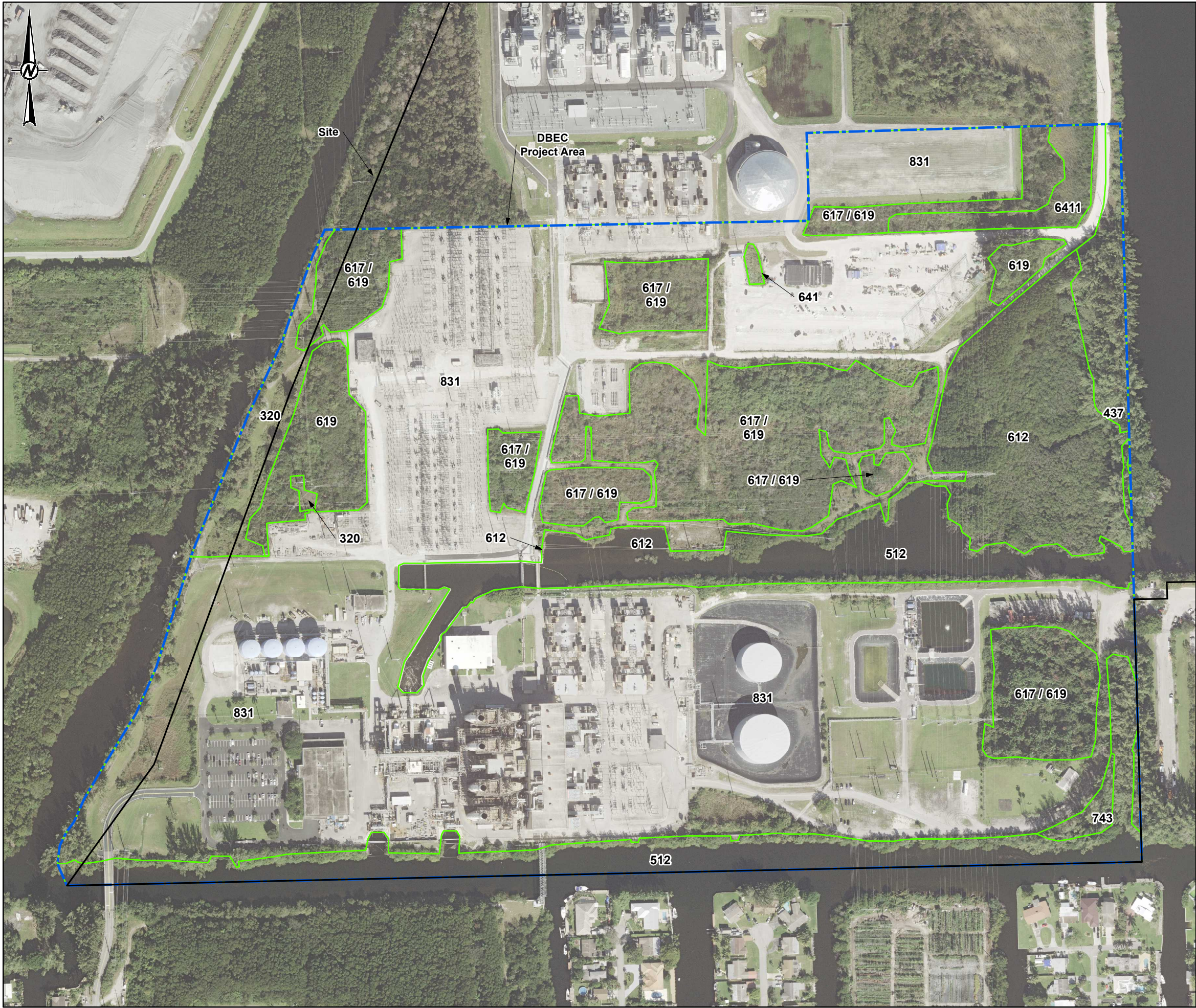
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FIGURE

3.3.3-1a

G:\PROJECTS\FPL\Danish_Beach_Energy_Center\09_PROJECTS\1773823_SC&F_SCAN02_PRODUCTION\1773823_F010_WUP_5Miles.mxd

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B



LEGEND

— Site

▭ DBEC Project

▭ Land Use

320: Upland Shrub and Brushland

437: Australian

512: Channelized Waterway

612: Mangrove Swamp

617 / 619: Mixed Wetland Hardwoods / Exotic Wetland Hardwoods

619: Exotic Wetland Hardwoods

6411: Sawgrass

641: Freshwater Marsh

743: Spoil Areas

831: Electric Power Facilities



REFERENCE(S)

SITE, A.R. TOUSSAINT & ASSOCIATES, INC., 1989

DBEC PROJECT AREA: GOLDER ASSOCIATES INC., 2017

LAND USE; SFWMD 2008 MODIFIED BY GOLDER ASSOCIATES 2017

CLIENT

FPL

PROJECT

DANIA BEACH ENERGY CENTER

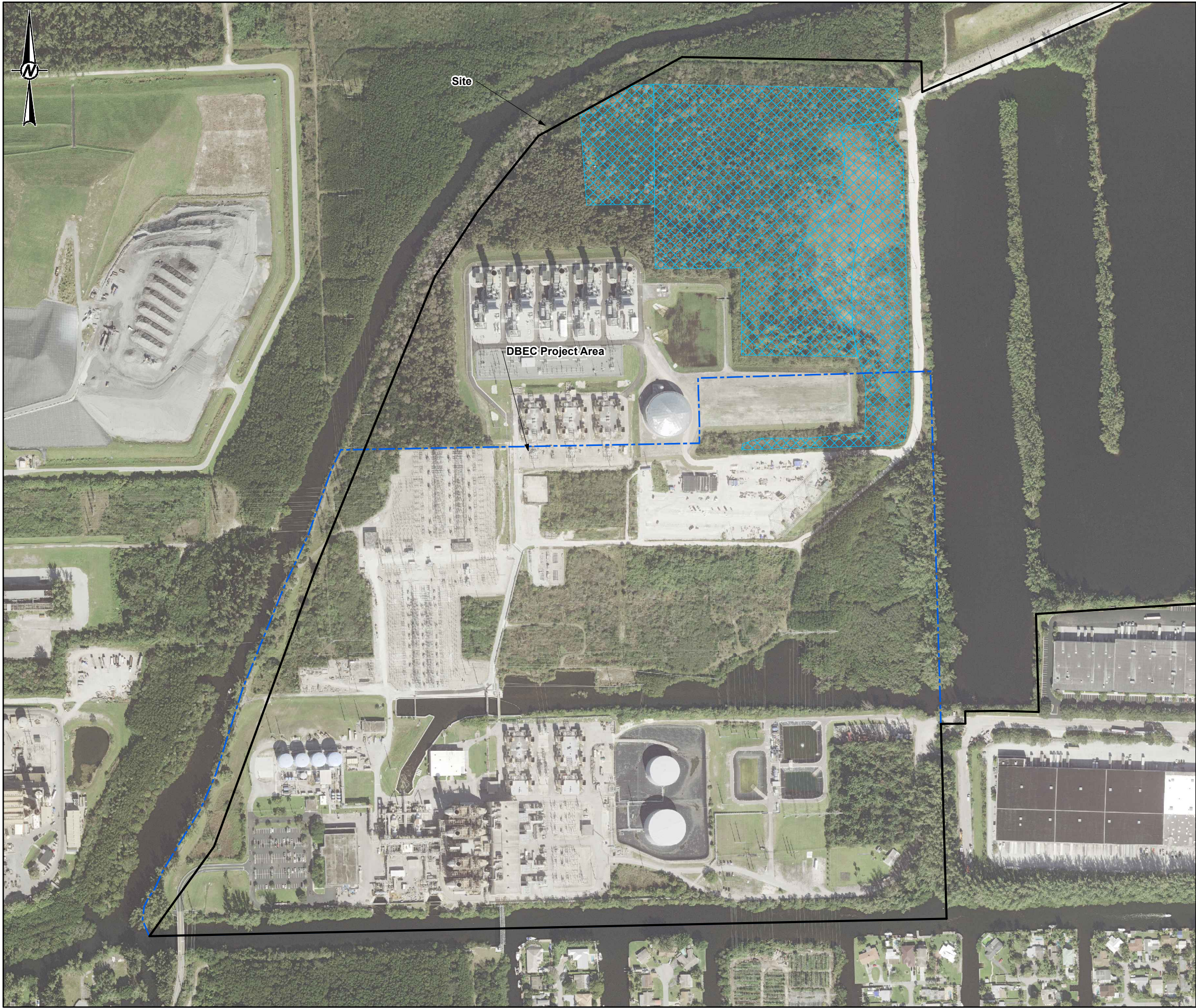
TITLE

VEGETATION / LAND USE
(FLUCFCS LEVEL III)



YYYY-MM-DD	2017-07-13
DESIGNED	NRL
PREPARED	NRL
REVIEWED	KAB
APPROVED	KAB

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LEGEND

- Site
- ▭ DBEC Project
- ▨ Existing Wetland Mitigation



REFERENCE(S)
SITE, A.R. TOUSSAINT & ASSOCIATES INC., 1989

CLIENT

FPL

PROJECT

DANIA BEACH ENERGY CENTER

TITLE

EXISTING WETLAND MITIGATION AREAS



YYYY-MM-DD	2017-07-17
DESIGNED	NRL
PREPARED	JGW
REVIEWED	KAB
APPROVED	KFK

PROJECT NO.
1773823

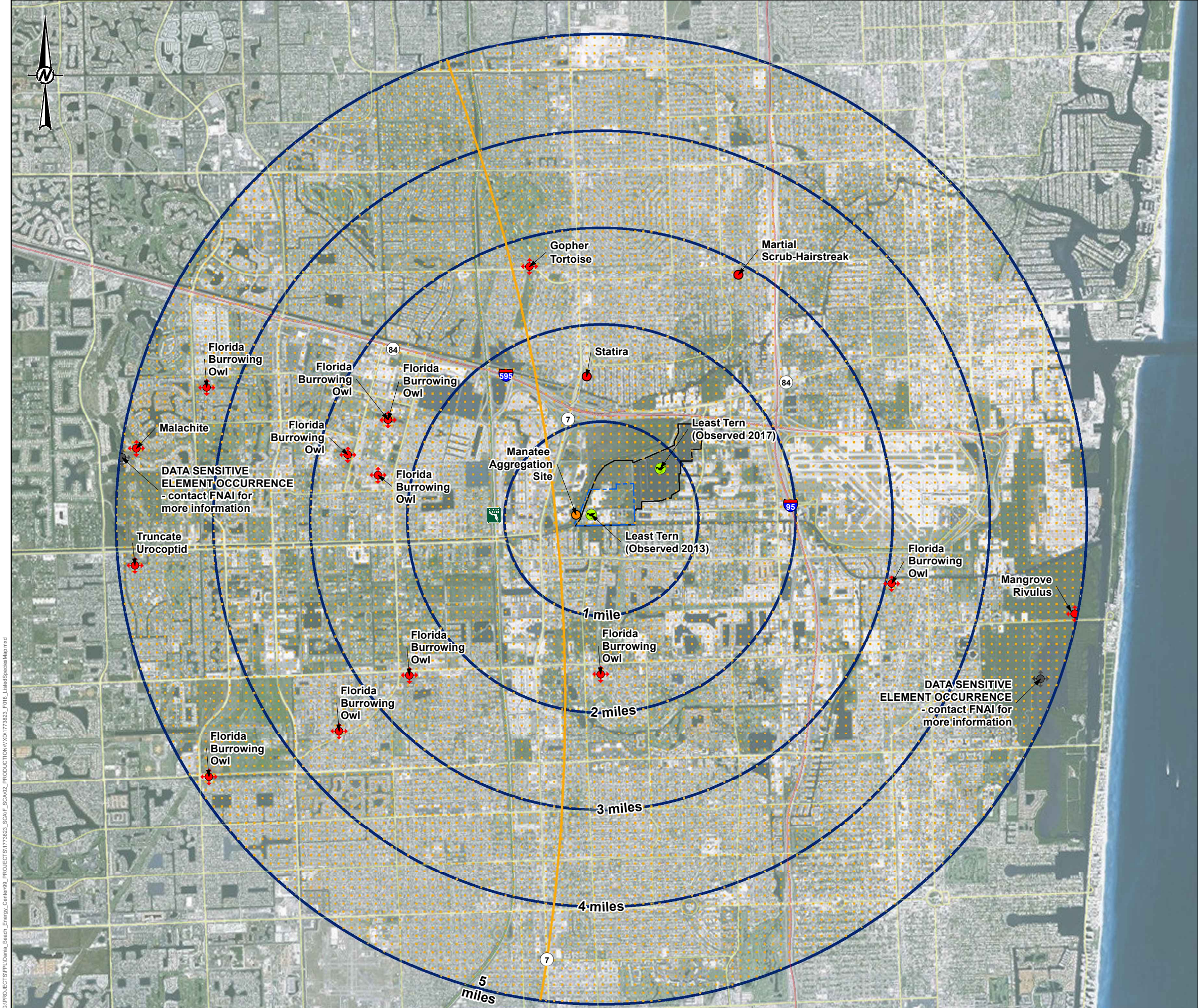
CONTROL
F028

REV.
0

FIGURE
3.3.6-1

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

1in



LEGEND

- Site
- DBEC Project Area
- Wood Stork Core Foraging Area (18.6 Miles)

Colony Name - Atlas Number - Last Active

Kinich - 0 - 2011

Sawgrass Ford - 0 - 2015

FNAI Listed Species

- Animal
- Animal
- Other
- Data Sensitive Element Occurrence

Wildlife Observations

- Least Tern

0 0.5 1 2

Mile

REFERENCE(S)

SITE, A.R. TOUSSAINT & ASSOCIATES, INC. 1989

DBEC PROJECT AREA, WILDLIFE OBSERVATIONS, GOLDER ASSOCIATES INC., 2017

WOOD STORK COLONY AND FORAGING;USFWS 2006-2015

LISTED SPECIES; FNAI, 2017

CLIENT

FPL

PROJECT

DANIA BEACH ENERGY CENTER

TITLE

LISTED SPECIES OCCURRENCES

WITHIN 5-MILES

YYYY-MM-DD	2017-06-22
DESIGNED	NRL
PREPARED	NRL
REVIEWED	KAB
APPROVED	KAB

PROJECT NO.

1773823

CONTROL

F018

REV.

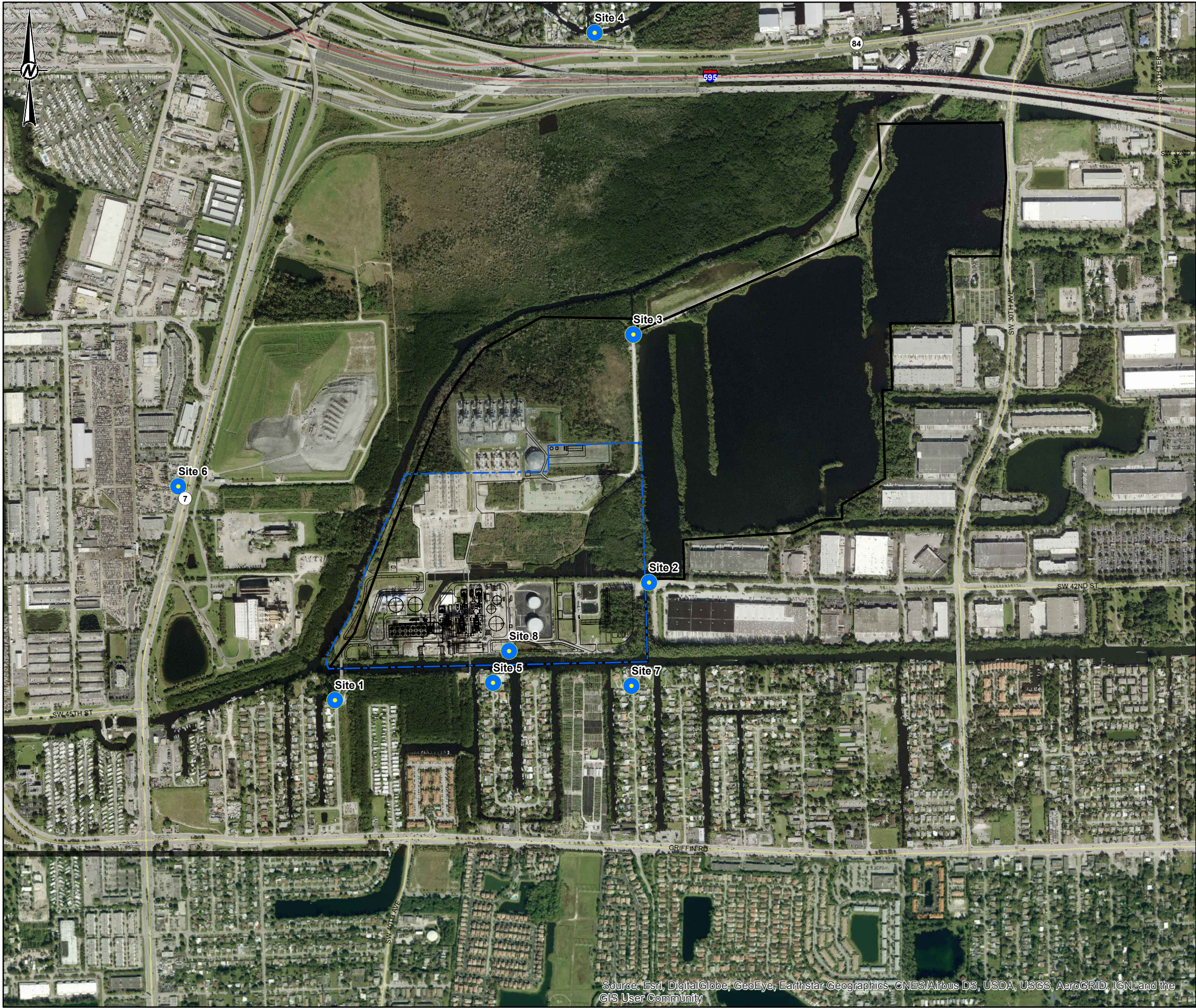
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FIGURE

3.3.6-2

G:\PROJECTS\FPL\Danis_Beach_Energy_Center\09_PROJECTS\1773823_SCAN02_PRODUCTION\MDX\1773823_F018_ListedSpeciesMap.mxd

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B



LEGEND

- Site
- DBEC Project Area
- Noise Monitoring Locations

0 500 1,000 2,000

Feet

REFERENCE(S)

SITE, A.R. TOUSSAINT & ASSOCIATES INC., 1989
FACILITY LAYOUT, BLACK & VEATCH, 2017
DBEC PROJECT AREA, NOISE RECEPTORS, NOISE CONTOURS; GOLDER ASSOCIATES INC., 2017

CLIENT

FPL

PROJECT

DANIA BEACH ENERGY CENTER

TITLE

NOISE MONITORING LOCATIONS (OCTOBER 2013 AND DECEMBER 2016)



YYYY-MM-DD	2017-07-13
DESIGNED	NRL
PREPARED	JGW
REVIEWED	KAB
APPROVED	KFK

PROJECT NO.

1773823

CONTROL

F024

REV.

0

FIGURE

3.3.7-1

4.0 THE PLANT AND DIRECTLY ASSOCIATED FACILITIES

This chapter provides a description of the Project, layout, key components and operation, and proposed controls for air emissions and water discharges. Fuel specifications are provided for natural gas and ULSD oil. Estimates of the expected character, quality, and quantity of discharges and emissions from the DBEC are provided.

FPL is seeking to certify the following facilities on the Site: DBEC (including electrical generating equipment, auxiliary cooling system, parking and laydown areas, administration building and warehouse, stormwater management system, boat ramp, and ancillary structures). A plot plan of the Project Area with major components of DBEC, including operation and construction areas, is shown in Figure 4.1-1. DBEC will be constructed on the same general location within the Lauderdale Site as existing Units 4 and 5, as shown in Figure 4.1-2. DBEC will be a nominal 1,200 MW (net) “2-on-1” combined cycle unit. The “2-on-1” unit will consist of two nominal 400 MW advanced CTs and two HRSGs, which will utilize the waste heat from the CTs to produce steam to be utilized in a single nominal 400 MW steam turbine generator.

The CTs for the Project will be General Electric’s (GE) latest Frame 7HA CT. The CT will have a gross capacity of approximately 400 MW at an inlet air temperature of 75°F. The HRSGs will not have duct firing.

Inlet air cooling will be utilized and will consist of evaporative cooling. Evaporative cooling systems achieve adiabatic cooling using water evaporated from a treated media. The evaporated water extracts the latent heat of vaporization from the inlet air stream when the water droplet is converted to water vapor. The result is a cooler, denser air stream. This allows additional power to be produced.

The CTs will use natural gas as the primary fuel, with ULSD oil used as the backup fuel. Natural gas for DBEC will be supplied by an independent supplier and transported to the Site by the existing pipeline connection to the Lauderdale Site. DBEC will receive fuel gas from the existing onsite natural gas yard. The ULSD oil will be delivered to the Site by truck and will be stored in existing fuel oil tanks. When firing natural gas, emissions of nitrogen oxides (NO_x) will be controlled using dry low NO_x (DLN) combustion technology and selective catalytic reduction (SCR). When firing ULSD oil, emissions of NO_x will be controlled using water injection and SCR.

Primary water uses for DBEC will be for cooling water and process water. Cooling water is required for condenser cooling and auxiliary equipment cooling. Condenser cooling for the steam cycle portion of the 2-on-1 unit will be accomplished using the existing once-through system supplemented with an auxiliary cooling system. The auxiliary cooling system takes a portion of the condenser cooling water



after going through the condenser and uses mechanical draft evaporative cooling to cool the heated water. The cooled water is then added to the water withdrawn from the Dania Cutoff Canal for the once-through system. The auxiliary cooling system allows DBEC to comply with the water temperature discharge limits without increasing the withdrawal rate from the Dania Cutoff Canal. Process water is required for CT inlet air evaporative cooling, wet compression, NO_x injection water when firing ULSD oil, steam cycle makeup, service water, and fire protection. Process water will continue to be the existing raw water supply from Broward County. Potable water for employee use and water for landscape irrigation will continue to be obtained from the City of Hollywood.

The DBEC stormwater management system design basis is the 25-year, 72-hour storm event. Contact stormwater runoff from the power block and equipment areas will be treated through an oil/water separator(s) and routed to the onsite stormwater ponds and/or the existing discharge canal. Non-contact stormwater from outside the power block will be collected and routed to the stormwater ponds. The DBEC stormwater management system is designed to meet all federal, state, regional, and local requirements (see Subsection 4.7.1). The construction support area and construction parking and laydown areas will meet stormwater management requirements through Best Management Practices (BMPs) (see Subsection 4.7.2). Stormwater runoff that is collected in the ponds will be managed by a combination of detention, percolation, and evaporation.

DBEC will connect to the FPL transmission network through the existing 138 kilovolt (kV) and 230 kV switchyards located on the Site. No new offsite transmission lines are required to connect DBEC to the existing transmission network.

4.1 Site Layout

The site arrangement for DBEC is presented in Figure 4.2-1. Typical profiles of a CT/HRSG train are shown in Figures 4.2-2 and Figure 4.2-3.

4.2 Fuel

The primary fuel used by the CTs will be natural gas through the existing Lauderdale Site pipeline connections. Typical properties of natural gas are shown in Table 4.3-1. The heat content is approximately 21,000 British thermal units per pound (Btu/lb) [low heating value (LHV); approximately 23,300 Btu/lb higher heating value (HHV)] with a maximum sulfur content of 2 grains per 100 standard cubic feet (gr/100 scf) of natural gas.

ULSD oil will be used as a backup fuel for an equivalent of 1000 hours per year (hr/yr) per CT at full load conditions. Typical properties of ULSD oil are shown in Table 4.3-2. The heat content is typically

approximately 18,400 Btu/lb [(LHV); approximately 19,500 Btu/lb (HHV)] with a maximum sulfur content of 0.0015 percent by weight.

No onsite storage will be provided for natural gas. ULSD oil will be delivered to the Site by truck and stored in two existing light distillate fuel oil storage tanks with secondary containment (approximately 6.3 million gallon (MG) and 3.4 MG storage tanks).

The generating capacity of a combined cycle plant is affected by ambient temperature, with increased temperature resulting in less efficient electric production. Greater overall fuel consumption will occur at lower ambient temperatures. Appendix 10.2.5 contains the heat input and fuel usage for each CT over a turbine inlet range of 35°F to 95°F for natural gas and ULSD. For the purpose of calculating hourly and annual fuel use quantities representative of the nominal 1,200 MW (net) combined cycle unit, the following specific operating conditions for the CTs were used (see SCA Appendix 10.2.5, Air Construction Permit Application):

- 75°F dry bulb ambient temperature;
- Evaporative cooling and enhanced power output;
- 60 percent relative humidity;
- Approximately 21,000 Btu/lb and 920 British thermal units per standard cubic foot (Btu/scf), LHV, of natural gas (approximately 23,300 Btu/lb and 1,020 Btu/scf, HHV); and
- Approximately 18,400 Btu/lb and 129,900 Btu/gallon, LHV, for ULSD oil (approximately 19,500 Btu/lb and 137,700 Btu/gallon, HHV).

The heat input for each CT is approximately 3,600 MMBtu/hr (LHV) (approximately 4,000 MMBtu/hr, HHV) when firing natural gas at 100 percent capacity and an ambient temperature of 75°F. The corresponding fuel usage is approximately 3.9 million cubic feet per hour (MMcf/hr) for each CT. The annual fuel usage at 75°F turbine inlet temperature is approximately 6.2×10^{10} cf/yr of natural gas for DBEC operating at a capacity factor of 90 percent on gas.

ULSD oil use will be based on the equivalent of 1000 hr/yr per CT at full load. The fuel use is approximately 26,200 gallons per hour per CT at 75°F ambient temperature, with an annual usage rate of approximately 52.3 MG for 2 CTs, each operating for 1000 hours.

4.3 Air Emissions and Controls

4.3.1 Air Emissions Units

Air pollutants will be emitted from the CT/HRSGs when firing natural gas and ULSD oil. Air emissions result from either the combustion process or impurities in the fuel. Table 4.4-1 presents the



performance and estimated emission rates of regulated air pollutants when firing natural gas. Table 4.4-2 presents the performance and estimated emission rates of regulated air pollutants when firing natural gas and ULSD oil. The maximum estimated emission rates for the conditions stated when firing natural gas and ULSD oil were determined using the manufacturer's information for the equipment proposed for DBEC. The design parameters are provided for the range of operating loads and turbine inlet temperatures. Appendix 10.2.5, the Air Construction Permit Application, presents the basis for the emission rates and maximum annual emissions of regulated and non-regulated pollutants.

During combustion, two primary types of NO_x are formed: fuel NO_x and thermal NO_x . Fuel NO_x emissions are formed through the oxidation of a portion of the nitrogen contained in the fuel. Thermal NO_x emissions are generated through the oxidation of a portion of the nitrogen contained in the combustion air. NO_x formation can be limited by lowering combustion temperatures (through water or steam injection) and/or staging combustion (a reducing atmosphere followed by an oxidizing atmosphere, known as DLN control). The proposed NO_x stack emissions rates for the CTs associated with DBEC will be further controlled using SCR to reduce NO_x emission rate to 2 parts per million by volume dry (ppmvd), corrected to 15 percent oxygen (O_2) or less when firing natural gas, and 8 ppmvd corrected to 15 percent O_2 or less when firing ULSD oil. There will be a 95 percent reduction in the NO_x emission rate when firing natural gas compared to existing Units 4 and 5 that have a NO_x emission rate of 42 ppmvd corrected to 15 percent O_2 when firing natural gas.

Carbon monoxide (CO) is formed by incomplete combustion of fuel. High combustion temperatures, adequate excess air, and good fuel/air mixing during combustion will minimize CO formation. CO formation is limited by ensuring complete efficient combustion of the fuel in the turbines. Recent improvements in CT combustor technology allow for both reduced NO_x emissions and low CO emissions.

Similarly, volatile organic compound (VOC) emissions are formed by incomplete combustion of fuel. High combustion temperatures, adequate excess air, and good fuel/air mixing during combustion will minimize VOC formation. VOC formation is limited by ensuring complete efficient combustion of the fuel in the CTs. Recent improvements in CT combustor technology allow for low VOC emissions.

PM, sulfur dioxide (SO_2), and sulfuric acid mist (H_2SO_4) emissions are controlled and minimized by the use of clean fuels. Clean fuels include natural gas with a sulfur content of no greater than 2 gr/100 scf of sulfur and ULSD oil with a sulfur content of no greater than 0.0015 percent sulfur by weight.

Emission rates of CO, VOC, PM, SO_2 and H_2SO_4 for each CT are presented in Appendix 10.2.5.

Greenhouse gas (GHG) emissions are minimized through the use of highly efficient combined cycle technology and the primary use of natural gas (the lowest GHG emitting fossil fuel).

DBEC will be equipped with two large emergency generators to support the plant. Two 3,300 kilowatt (kW-brake) emergency generators will be installed to support the plant. These emergency generators will be used when electric power from offsite is not available. This would primarily occur during catastrophic events such as hurricanes. In addition to the larger emergency generators, there are two small propane fired emergency generators associated with the existing hurricane shelter. SCA Appendix 10.2.5, PSD/Air Construction Permit Application, contains emissions and manufacturer's information for the emergency generators and fire pump engine proposed for DBEC. Normally, these generators would be operated 1 to 2 hours per month for maintenance and reliability testing.

The 2-on-1 combined cycle unit may also include one natural gas-fired fuel heater and a spare. These heaters will have a heat input of 10 MMBtu/hr (HHV) or less and will be used as necessary to heat natural gas above the dew point. SCA Appendix 10.2.5 contains performance and emissions information for the fuel heater.

The auxiliary boiler will be used as necessary for startup. The limited use auxiliary boiler will have a maximum heat input of 99.8 MMBtu/hr (HHV) firing natural gas. SCA Appendix 10.2.5 contains performance and emissions information for the auxiliary boiler. For construction, temporary boilers will be required for steam blows and cleaning. Temporary construction generators may also be used to provide electric power for construction equipment. These temporary air emission sources are discussed in Section 5.5 and described in detail in Appendix 10.2.5.

DBEC will be equipped with a 425 horsepower (hp) fire pump engine. This engine would be used when necessary during a fire. SCA Appendix 10.2.5 contains emissions and manufacturer's information for the fire pump engine. Normally, this fire pump engine would be operated only 1 to 2 hours per month for maintenance and reliability testing.

DBEC will have an auxiliary cooling system to support the once-through cooling system. PM will be emitted in the form of drift and controlled through the use of mist eliminators that will be designed to limit drift to 0.0005 percent of the once-through water rate.

The total annual emissions from DBEC include air emissions from the CTs, fuel heater, emergency generators, auxiliary boiler, fire pump engine, hurricane shelter generators, auxiliary cooling system, and fuel oil tanks. Tables 4.4-3 presents the annual potential emissions for DBEC. Annual emissions were based on maximum emissions for baseload operation and ambient temperatures of 75°F at

enhanced power output (evaporative cooling, wet compression and/or higher firing temperature) when firing natural gas and evaporative cooling when firing ULSD oil. The maximum CT emissions are based on 8,760 hr/yr with 7,760 hr/yr firing natural gas and 1,000 hr/yr firing oil. The potential emissions are based on the 75°F turbine inlet temperature at 100 percent load condition.

Because the Project involves a physical change to an existing major stationary source that will result in a net increase for some pollutants, review is required to determine whether the Project constitutes a Major Modification triggering PSD requirements under Rule 62-212.400, F.A.C. PSD applicability is determined on a pollutant-by-pollutant basis. As defined in Rule 62-210.200(169), Major Modification occurs where there is a “significant emission increase” of a PSD pollutant and a “significant *net* emissions increase” of that pollutant that exceeds the PSD significant emission rates (SERs). Because this project involves the construction of new emission units and changes to existing units (the retirement of Units 4 and 5), the Hybrid Test for Multiple Types of Emission Units in Rule 62-212.400(2)(a)3., F.A.C., is used to determine if there is a significant emissions increase. As defined in Rule 62.210.200(187), F.A.C., a significant *net* emissions increase is determined by accounting for all other contemporaneous and creditable increases or decreases in actual emissions. Emission increases or decreases for a particular modification are contemporaneous if they occur five years before the construction of that change and the date the increase from the change occurs. Since Units 6A through 6E are contemporaneous with the DBEC, their potential to emit must be included in determining PSD applicability.

For an existing emission unit like Units 4 and 5, the emission decreases are determined based on “baseline actual emissions” as defined in Rule 62.210.200(28), F.A.C. The “baseline actual emissions” are the emissions over a consecutive 24-month period within the 5 years immediately preceding the date that a complete application is submitted. The use of different consecutive 24-month periods for each pollutant is allowed. The net emission increase is determined from the sum of all the contemporaneous creditable increases and decreases. For new units, emission increases are based on “potential to emit” as defined in Rule 62.210.200(223), F.A.C.

The potential emissions resulting from the Project, the contemporaneous emissions increases/decreases, the net emission increases/decreases and the PSD significant emission rates are presented in Table 4.4-3. The PSD significant emission rates are thresholds for PSD review for specific pollutants and new major stationary sources or major modifications. PSD review is required for emissions of any PSD pollutant greater than the listed PSD significant emission rate. As shown in this table, the potential emissions for DBEC are less than the PSD significant emission rates for NO_x and lead.

On June 3, 2010, the EPA promulgated regulations related to PSD and Title V Greenhouse Gas (GHG) Tailoring Rule (75 Federal Register 31514-31608). In EPA's promulgation, GHGs are defined to include an aggregate group of six classes of compounds that have been determined to have GHG properties: CO₂, methane (CH₄), nitrous oxide (N₂O), hydrofluorocarbons, perfluorocarbons, and sulfur hexafluoride. Each of these GHGs has a specific Global Warming Potential (GWP) that is calculated as "CO₂ equivalent emissions" or CO₂e that is equivalent to the GHG properties of one ton of CO₂. In 2014, the United States Supreme Court decided *Utility Air Regulatory Group v. EPA*, 134 S. Ct. 2427 (2014), holding that GHG emissions alone could not trigger PSD review. Rather, PSD review for GHGs could only be triggered if PSD were required for other air pollutants. EPA is nearly complete with rulemaking incorporating this legal requirement. See 81 Fed. Reg. 68110 (October 3, 2016) (announcing changes, and providing a comment period that ended on December 16, 2016).

For the DBEC, the GHGs emitted are CO₂, CH₄, and N₂O, with one ton of CH₄ equivalent to 25 tons of CO₂e and one ton of N₂O equivalent to 298 tons of CO₂e. Table 4.4-3 presents the potential GHG emissions resulting from the Project, contemporaneous GHG emissions increases/decreases, net GHG emission increases/decreases and the PSD significant emission rate for CO₂e, which is a threshold for PSD review.

Since PSD review is triggered for the Project for several regulated air pollutants, PSD review is required for GHG emissions if they are greater than 75,000 tons per year (TPY) CO₂e. As shown in Table 4.4-3, the maximum potential annual CO₂e emissions of the Project will exceed the PSD threshold for GHGs.

Potential emissions from the Project less net emission decreases will trigger PSD review for SO₂, PM (TSP), PM₁₀, PM_{2.5}, CO, VOC, sulfuric acid mist and GHGs. SCA Appendix 10.2.5 contains the PSD/Air Construction Permit Application for all air pollutants triggering PSD review including GHGs.

4.3.2 Air Emission Controls

The use of clean fuels (natural gas and ULSD), highly efficient combined-cycle technology, combustion controls, and air pollution control equipment will minimize air emissions such as SO₂, PM_{2.5}/PM₁₀, and other fuel bound contaminants, and ensure compliance with applicable emission limiting standards. Combustion controls will minimize the formation of NO_x and the formation of CO and VOCs by combustor design. Further NO_x reduction will be achieved by SCR. The combination of these techniques has been determined to be Best Available Control Technology (BACT) on previous combined cycle projects based on an evaluation of economic, energy, and environmental impacts. The following subsection presents a summary of the air pollution control technology proposed for DBEC, which is presented in detail in the PSD/Air Construction Permit Application (Appendix 10.2.5).

The construction of DBEC will continue FPL's substantial progress in reducing its system-wide CO₂ emissions. DBEC will be among the most efficient natural gas-fired generating units in FPL's system and will displace generation at other FPL facilities that would otherwise be produced by less efficient and higher CO₂ emitting units.

4.3.3 Control Technology Description

FDEP has adopted PSD rules in FDEP Rule 62-212.400, F.A.C. BACT review is part of the evaluation of control technology under the Florida PSD rules, and is required only for those specific pollutants that trigger PSD review. A determination of BACT is required for emissions of SO₂, PM (TSP), PM₁₀, PM_{2.5}, CO, VOC, sulfuric acid mist and GHGs from the Project. BACT is an emission limitation that is based on the maximum degree of reduction for each regulated pollutant, determined after taking into account the factors listed in Rule 62-210.200(32), F.A.C. The emission limits proposed for DBEC are reflective of BACT.

New Source Performance Standards (NSPS) apply to stationary CTs that commence construction, modification, or reconstruction after February 18, 2005. Subpart KKKK of the NSPS applies to units with a heat input at peak load equal or greater to 10.7 Gigajoules (Gj) (10 MMBtu). The Subpart KKKK requirements applicable to CTs greater than 850 MMBtu/hr apply to the CT/HRSG trains associated with DBEC. The NO_x emissions are limited to 15 parts per million (ppm) corrected to 15 percent O₂ or 0.43 lb/MW-hr for natural gas firing, and 42 ppm corrected to 15 percent O₂ or 1.3 lb/MW-hr for ULSD firing. For SO₂ emissions, Subpart KKKK requirements limit emissions to 0.9 lb/MW-hr or a potential total sulfur content equivalent to 0.06 lb/MMBtu (HHV) if multiple fuels are simultaneously fired.

EPA previously approved NSPS for GHG emissions from new, modified, and reconstructed electric utility generating units (40 CFR Part 60, Subpart TTTT; 80 Fed. Reg. 64510 (October 23, 2015)). This NSPS established CO₂ emission limits for new stationary combustion turbines that commence construction after January 8, 2014 and have a heat input rating of over 250 MMBtu/hr, and serve a generator capable of selling more than 25 MW of electricity to a utility distribution system. New baseload CTs that combust more than 90 percent natural gas are required to meet a CO₂ emissions rate of 1,000 lb/MWh (gross) or 1,030 lb. CO₂/MWh (net) on a 12-month rolling average basis. EPA determined that these emission limits represent the Best System of Emission Reduction (BSER) required under Section 111(b) of the Clean Air Act. The monitoring requirements for natural gas fired units are based on 40 CFR Part 75 requirements. EPA announced on April 4, 2017 that these NSPS are being reviewed and if appropriate, will initiate proceedings to suspend, revise or rescind these NSPS (82 Fed. Reg. 16330). FDEP adopted these NSPS by reference in Rule 62-204.800(8)(b)87, F.A.C.



NSPS are also applicable to the auxiliary boiler, fuel heaters, fire pump engine, and emergency generators. The EPA NSPS Subpart Dc, Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units, applies to the auxiliary boilers and fuel heaters. For the emergency generators and fire pump engine, NSPS Subpart IIII, Standards of Performance for Stationary Compression Ignition Internal Combustion Engines, is applicable.

EPA has promulgated maximum achievable control technology (MACT) standards under the National Emissions Standards for Hazardous Air Pollutants (NESHAP) regulations. As presented in SCA Appendix 10.2.5, the proposed emission units at the Site would be a major source of hazardous air pollutant (HAP) emissions since the combined potential emissions from DBEC and all other emission units at the Site will be greater than the “major source” thresholds for HAPs. The NESHAP Subpart YYYY would only apply to DBEC if the Site has potential HAPs emission exceeding the major source thresholds and the aggregate use of oil by existing and new turbines exceeds 1,000 hours during any calendar year. NESHAP Subpart ZZZZ that applies to reciprocating internal combustion engines (RICE) is applicable to both major and area sources of HAPs. Therefore, Subpart ZZZZ addressing applies to the diesel engines associated with the Project. However, the method of compliance under this provision would be to demonstrate compliance with 40 CFR 60, Subpart IIII.

Appendix 10.2.5 of the SCA contains the PSD/Air Construction Permit Application for DBEC. The application describes the air pollution control technology proposed for DBEC and addresses air quality impacts for compliance with Ambient Air Quality Standards (AAQS). The remainder of this section briefly describes those control technologies that are proposed for DBEC.

4.3.3.1 Nitrogen Oxides

When firing natural gas, NO_x emissions will be controlled using DLN combustors. DLN combustor technology has been offered and installed by CT manufacturers to reduce NO_x emissions by inhibiting thermal NO_x formation through pre-mixing fuel and air prior to combustion and providing pre-mix combustion to reduce flame temperatures. The DLN combustors have premixed fuel zones plus a standard diffusion flame pilot burner for startup. Low NO_x levels are achieved by introducing fuel primarily to the pre-mix zones and reducing the amount of fuel being combusted from the pilot nozzle.

NO_x emissions will be further controlled by SCR systems when firing either natural gas or ULSD oil. SCR is a post-combustion process where NO_x in the gas stream has reacted with ammonia in the presence of a catalyst to form nitrogen and water vapor. The reaction typically occurs between approximately 320 and 400 degrees Celsius (°C) (600 and 750°F). These temperatures occur within the HRSG where the SCR catalyst and ammonia injection grid is installed. Ammonia solution will be stored onsite in one or more tanks; a risk management plan for storage is not required per Section 112(r)



of the Clean Air Act and implemented by EPA regulations in 40 CFR Part 68. Flue gas NO_x emissions when firing natural gas will be reduced to 2 ppmvd, corrected to 15 percent O₂. When firing ULSD, SCR can reduce NO_x emissions by 80 percent or more to 8 ppmvd, corrected to 15 percent O₂ or less.

The NO_x control technology and emission limits proposed for DBEC are consistent with emission limits established as BACT in Florida and EPA Region IV for similarly-designed projects. The use of DLN combustors and SCR for DBEC will reduce NO_x emission levels to 2 ppmvd corrected to 15 percent O₂ when firing natural gas, and 8 ppmvd corrected to 15 percent O₂ when firing ULSD. These NO_x emission levels are proposed as BACT for DBEC and are consistent with recently established BACT emission limits for other combined cycle units.

The NO_x emissions from the auxiliary boiler, fuel heater, emergency generators, and fire pump engine will be limited using combustion techniques. The auxiliary boiler will be equipped with low NO_x burners to reduce NO_x emissions to 0.05 lb/MMBtu (HHV). The fuel heater will use combustion controls to reduce NO_x emissions to 0.095 lb/MMBtu (HHV). The emergency generators will meet the NSPS Subpart IIII NO_x emission requirements of 6.4 grams per kilowatt-hour (g/kW-hr). These NO_x emission rates are proposed as BACT for the auxiliary boiler, natural gas heaters, and emergency generators and have been established as BACT in previous PSD permits.

4.3.3.2 Carbon Monoxide

The DBEC CTs will utilize advanced combustion technology to reduce CO emissions in the range proposed for natural gas and ULSD firing. Advanced combustion technology is used to achieve low CO emission rates in CTs that have been determined to be technologies that meet BACT emission limits. The CO emission rates proposed as BACT for the CTs are based on the vendor information and presented in Appendix 10.2.5.

Combustion techniques will be used to reduce the CO emissions from the auxiliary boiler, fuel heaters, fire pump engine, and emergency generators. The auxiliary boiler will be equipped with low NO_x burners designed to reduce CO emissions to 0.08 lb/MMBtu (HHV). The fuel heaters will use combustion controls to reduce CO emissions to 0.08 lb/MMBtu (HHV). The emergency generators will meet the NSPS Subpart IIII CO emission requirements of 3.5 g/kWh. The CO emission rates are proposed as BACT for the auxiliary boiler, fuel heater, and emergency generators have also been established as BACT in previous PSD permits.

4.3.3.3 Sulfur Oxides (SO₂ and H₂SO₄ Mist)

Combustion of clean fuels is the only feasible SO₂ control for the combined cycle unit, auxiliary boilers, fuel heaters, emergency generators, hurricane shelter generators, and fire pump engine. Natural gas



and ULSD oil are the cleanest fuels available with maximum sulfur contents of 2 gr/100 scf for natural gas and 0.0015 percent sulfur for ULSD oil proposed for DBEC. H_2SO_4 emissions will also be minimized by the use of low sulfur fuels. SO_2 and H_2SO_4 mist emissions will be limited by the use of natural gas and ULSD; these clean fuels have been established as BACT in previous PSD permits.

4.3.3.4 Particulate Matter and Other Regulated Pollutants

The use of clean fuels, characterized by low PM and trace contaminant contents, coupled with advanced combustion techniques, results in negligible PM, PM_{10} , and $\text{PM}_{2.5}$ emissions from the combined cycle unit, auxiliary boiler, fuel heaters, emergency generators and fire pump engine. Emission limits based on the use of clean fuels (i.e., natural gas and ULSD oil) have been established as BACT for PM/ PM_{10} emissions in previous PSD permits.

A small amount of PM is emitted from the mechanical draft auxiliary cooling system in the form of solution aerosols referred to as drift. Auxiliary cooling system drift is controlled by drift eliminators that separate solution aerosols from the mechanical induced air flow in the auxiliary cooling system by inertial impaction. The use of high-efficiency drift eliminators with a design drift rate of 0.0005-percent is proposed as a BACT work practice standard for PM emissions from the DBEC auxiliary cooling system.

4.3.3.5 Volatile Organic Compounds

Combustion techniques will be used to reduce the VOC emissions from the combined cycle unit, auxiliary boiler, fuel heater, emergency generators, and fire pump engine. The CTs will utilize advanced combustion technology, and the proposed BACT emission rates are consistent with those established as BACT for these turbines. The VOC emission rate proposed as BACT for the CTs are based on the specific vendor information and presented in Appendix 10.2.5.

The auxiliary boiler is designed with proper combustion techniques to reduce VOC emissions to 0.005 lb/MMBtu (HHV). The fuel heater will use combustion controls to reduce VOC emissions to 0.005 lb/MMBtu (HHV). The emergency generators will meet the NSPS Subpart IIII VOC emission requirements of 0.2 g/kWh as non-methane hydrocarbons. These emission rates are proposed as BACT.

4.3.3.6 Greenhouse Gases

FPL operates one of the cleanest generating fleets in the nation. Use of natural gas as the primary fuel at DBEC, along with the most efficient combined cycle technology, will result in one of the lowest CO_2 emission rates on a pound-per-megawatt-hour (lb/MWhr) basis of any fossil fuel-fired units in the country. Moreover, DBEC will be among the most efficient natural gas-fired generating units in FPL's

system. As a result, the electricity generated by DBEC will displace generation produced by less efficient units in FPL's system and will thereby reduce FPL's system-wide CO₂ emissions.

The Project's emission of GHGs above the PSD threshold, combined with other emissions exceeding PSD thresholds, require a BACT analysis. In November 2010, EPA issued guidance on the determination of BACT for GHGs ("*PSD and Title V Permitting Guidance for Greenhouse Gases*", November 2010). When conducting BACT reviews, EPA believes it is important for permitting authorities to consider options that improve the overall energy efficiency of the source or modification – through technologies, processes, and practices at the emitting unit. In general, a more energy efficient technology burns less fuel than a less energy efficient technology on a per unit of output basis. Considering the most energy efficient technologies in the BACT analysis helps reduce the products of combustion, which includes not only GHGs but other regulated New Source Review (NSR) pollutants (e.g., NO_x, SO₂, PM/PM₁₀/PM_{2.5}, CO, etc.), EPA emphasizes that energy efficiency should be considered in BACT determinations for all regulated NSR pollutants (not just GHGs).

The efficiency of the generation technology in producing electricity and the type of fuel utilized are the most important aspects of GHG emissions from electric generation projects. Together, efficiency and fuel type dictate the amount of GHG emissions per unit of generation.

An important measure of the efficiency for an electrical generating facility is the unit's heat rate. Heat rate is a measurement of how efficiently a unit uses heat energy. It is expressed as the number of Btus of heat required to produce a kilowatt-hour of energy (Btu/kWh)¹. A heat rate of 3,413 Btu/kWh reflects a conversion efficiency of 100 percent from thermal energy to electrical energy, and efficiency is based on the lower heating value of the fuel.

The proposed combined cycle units' net heat rate and energy efficiency were compared to data obtained from the U.S. Energy Information Administration (EIA). Based on data provided in the Electric Power Annual summary for 2015, the approximate heat rate for electricity for fossil fueled power plants in the U.S. in 2015 was 9,211 Btu/kWh net (HHV) (37.1 percent efficiency) (EIA, 2016 Tables 3.1a and Table 8.1).

Based on US EIA's 2014 annual review of the electrical power industry, the reported average net heat rate (HHV) for natural gas firing was 7,878 Btu/kWh net (HHV) (43.3 percent efficiency) including all types of generation (EIA 2016 Table 8.1). Of the generation types, the average tested heat rates when firing natural gas are (EIA 2016, Table 8.2):

¹ All Btu/kWh are calculated on a HHV basis.

- Steam turbine generator – 10,059 Btu/kWh net (HHV) (33.9 percent efficiency),
- Natural gas turbine – 10,197 Btu/kWh net (HHV) (33.5 percent efficiency),
- Internal combustion – 9,923 Btu/kWh net (HHV) (34.4 percent efficiency), and
- Combined cycle – 7,603 Btu/kWh net (HHV) (44.9 percent efficiency).

The average base heat rate of DBEC when firing natural gas is anticipated to be 6,119 Btu/kWh net (HHV) (55.8 percent efficiency) based on an average ambient temperature of 75° F. For the same amount of generation at a 90 percent capacity factor, the efficiency of DBEC will result in approximately 835,000 fewer tons of GHGs when compared to the combined cycle units efficiencies provided by EIA for 2014.

DBEC will be more efficient than other existing combined cycle plants in FPL's system. This is a result of utilizing the latest CT technology that results in greater efficiency in the CT generated power and increased exhaust energy through the HRSG to produce more steam electric generation. Together this significantly improves the efficiency over earlier generation combined cycle plants.

As part of EPA's clean energy initiatives, EPA developed the Emissions & Generation Resource Integrated Database (eGRID) as a resource tool in assessing GHG emissions. eGrid is a comprehensive source of data on the environmental characteristics of almost all electric power generated in the United States with data available based on a variety of geographic regions and locations. Data is also available for units, plants, power control areas (system), states, National Electric Reliability Council (NERC) regions and subregions, and the U.S. Based on the latest available eGrid data, the following are the emissions of CO₂ on a generation basis for generation facilities located in the same subregion as the project (2/27/17 data: <https://www.epa.gov/energy/emissions-generation-resource-integrated-database-egrid>; gross heat rate as HHV):

- State of Florida – 1,099.4 lb CO₂/MWh gross (HHV) for all generation (including nuclear); 1,275.9 lb CO₂/MWh for total combustion generation.
- FPL – 675.7 lb CO₂/MWh for all generation (including nuclear); 881.9 lb CO₂/MWh gross (HHV) for total combustion generation.

When firing natural gas, the GHG emissions for DBEC at baseload and new and clean condition are expected to be less than 750 lb CO₂/MWh (gross, HHV) based on an average base heat rate of 6,119 Btu/kWh net (HHV) and ambient air temperature of 75 °F. The proposed long-term BACT emission rate covering all potential operating conditions including low load operation and variable CT operation is 850 lb CO₂/MWh (gross, HHV) for natural gas. The existing average GHG emissions for Units 4 and 5 were 956 lb CO₂/MWh for the period 2012 through 2016. DBEC will emit about 500,000 tons per year less of CO₂ emissions than Units 4 and 5 for the same amount of generation. In addition, when



compared to the existing generation facilities in FPL's system for fossil combustion, the DBEC GHG emissions on a generation basis are lower and, when operated, will displace less efficient generation resulting in overall GHG reduction by FPL's generating system.

4.3.4 Design Data For Control Equipment

Design data for the air pollution control equipment are presented in SCA Appendix 10.2.5 (Air Construction Permit Application).

4.3.5 Design Philosophy

DBEC will be an advanced, natural gas-fired combined cycle plant that minimizes air pollutant emissions by using fuel-efficient and pollution-preventing technology. This concept has been incorporated with the selection of a combined cycle process utilizing advanced CTs. Advanced combined cycle plants are highly efficient that reduced air emissions on a MWh basis. Pollution prevention is incorporated in the design by the use of clean fuels and advanced combustion technology. Natural gas and ULSD oil will be used. Moreover, advanced DLN combustion technology will be used to minimize NO_x emissions while ensuring that CO and VOC emissions are within accepted limits. SCR will be installed to further reduce NO_x emissions. Taken together, the design of DBEC will incorporate features that will make it one of the most efficient and cleanest fossil fuel-fired units in Florida.

4.4 Plant Water Use

Primary water uses for DBEC will include cooling, process, service, irrigation, and potable water. The primary water source for cooling will continue to be the Dania Cutoff Canal, with process and potable water coming from Broward County and City of Hollywood, respectively. The annual average daily withdrawal from the Dania Cutoff Canal will be 368.64 MGD (134,922.2 MGY). The estimated annual daily average usage of process water from Broward County will be 0.5 MGD (183 MGY) and the estimated peak daily usage will be 3.0 MGD. The estimated annual potable water usage from the City of Hollywood will be 0.036 MGD (13.1 MGY) with an estimated peak daily usage of 0.075 MGD.

Cooling water is required for condenser cooling, auxiliary cooling, and associated equipment. Process water is required for CT inlet air cooling, wet compression, NO_x injection water when firing ULSD, steam cycle makeup and fire protection. Other water uses will include service water for internal plant uses such as equipment washing, and potable water for employee use and landscape irrigation. Condenser cooling for the steam cycle portion of DBEC and auxiliary cooling will be accomplished using the existing once-through cooling system supplemented by an auxiliary cooling system. Water storage will be by a two 5 million gallon service water/fire water storage tanks, and a 6.5 million gallon demineralized water storage tank. The water balance for DBEC is shown in Figure 4.5-1.



The stormwater management system for DBEC will be designed to meet local, regional, state, and federal nonprocedural requirements, which include the rules and regulations established by the City of Dania Beach, Broward County, South Florida Water Management District (SFWMD), FDEP, and EPA. SCA Section 4.8 discusses the stormwater for construction and operation of DBEC and SCA Appendix 10.8 Stormwater Management Plan provides detailed stormwater calculations.

Appendix 10.9 presents a discussion of alternative water sources.

Subsections 4.5.1 through 4.5.4 provide detailed descriptions of DBEC water uses.

4.4.1 Heat Dissipation System

Condenser and auxiliary cooling for DBEC will be accomplished using the existing Units 4 and 5 once-through cooling system intake and discharge structures supplemented by an auxiliary cooling system. The existing once-through cooling system withdraws water from the Dania Cutoff Canal and discharges water through a discharge canal and cooling pond to the South Fork New River, currently authorized to operate under FDEP Industrial Wastewater Facility (IWWF) Permit No. FL0001503-006-IW1S. A rectangular wet mechanical draft auxiliary cooling system, located adjacent to the power block, to supplement the condenser cooling will be used to reject the heat load of about 0.95 billion Btu/hr to the atmosphere during normal summer operating conditions. The auxiliary cooling system will blend with the once-through cooling and discharge through the cooling pond to the South Fork of the New River. Figure 4.5-1 provides the plant water balance.

4.4.2 Domestic/Sanitary Wastewater

Sanitary wastewater from the Project will continue to be routed to the existing sewer system. Restroom facilities will be constructed to replace those associated with Units 4 and 5. Since the DBEC replaces existing Units 4 and 5, the number of employees is expected to remain the same with no increase in sanitary wastewater from the Site.

4.4.3 Potable Water Systems

Potable water for human consumption and irrigation will continue to be obtained from the City of Hollywood. Potable water demand will remain substantially the same.

4.4.4 Process Water Systems

Raw water from Broward County will continue to be used for process water treatment system influent and fire protection. The Project will install filtration or other necessary treatment and demineralizer systems for process water treatment. Any waste process water will be mixed with the once-through

cooling water prior to discharge to the cooling pond (see Figure 4.5-1). Any required regeneration of ion exchanger systems will be performed off-Site.

4.4.4.1 Demineralized Water

DBEC will require the use of demineralized water [i.e., conductivity < 0.1 microsiemen per centimeter ($\mu\text{S}/\text{cm}$)]. Demineralized water is required for:

- Makeup water to replace HRSG and evaporative cooler water use to maintain water quality;
- Makeup water to replace miscellaneous steam losses in the steam cycle; and
- Water injection into the CTs for NO_x control when firing ULSD and for power enhancement using the wet compression process.

FPL will use demineralizer technology for DBEC process water treatment using water from Broward County. The demineralized water will be pumped into an on-site storage tank. Effluent from the water treatment system will contain the constituents that are found in the raw water. Based on the water balance, the constituent concentrations in the reject water will be approximately six times higher than the concentration supplied by Broward County. Reject water (average flow of approximately 62 gpm) will be reused when possible in the cooling system, mixed with the once-through cooling water and routed to the cooling pond. The HRSG and evaporative cooler blowdown and plant drains (average flow of approximately 106 gpm) will also be reused when possible in the cooling system, mixed with the once-through cooling water and routed to the cooling pond.

4.4.4.2 General Service Water

General service water uses, including cleaning and flushing water and fire protection water, will be provided by the service water system using water from Broward County. The average flows will be approximately 35 gpm. Water quality requirements in this water system are similar to the raw water requirements for a potable water system ($\text{TDS} < 500 \text{ mg/l}$).

4.5 Chemical and Biocide Waste

The wastewaters generated by DBEC will include HRSG and evaporative cooler blowdown, process water treatment system wastewater, wash water, HRSG chemical cleaning, hydraulic pressure testing, general system cleaning/flushing, and equipment area stormwater. Wastewaters will be treated and discharged in accordance with the IWWF Permit No. FL0001503-006-IWIS and subsequent modifications. HRSG and evaporative cooler blowdown will be reused when possible in the cooling system. Contact stormwater will be treated in an oil/water separator and then routed to the stormwater basins and/or discharge canal. Water treatment wastewaters and non-hazardous, low volume

wastewaters (e.g., wash water and equipment drains) will be treated if necessary and routed to the storm ponds and/or discharge canal.

The principal uses of chemicals and biocides will be for steam cycle and cooling water quality control and chemical cleaning of the HRSGs and pre-HRSG piping systems.

Table 4.6-1 presents a list of the waste streams associated with DBEC, their characterization, and proposed method of disposal. The following sections provide further information on the characteristics of these waste streams (see also Section 4.7).

4.5.1 Cooling System Water Chemical Treatment

Intermittent shock chlorination or other oxidizing or non-oxidizing biocides will be used to prevent biofouling of the heat rejection system. A chlorine solution or other oxidizing or non-oxidizing biocide solution will be fed into the auxiliary cooling system. Biocide treatment of the once-through cooling system and auxiliary cooling system will comply with the requirements of the IWWF permit and subsequent modifications.

A scale inhibitor and shock chlorination may be fed to the auxiliary cooling system to control the formation of calcium carbonate scales and biofouling. The scales can adhere to heat transfer surfaces and impair cooling condenser performance. An anti-foam agent may be used to reduce the potential for foam generation.

4.5.2 Steam Cycle Water Treatment

The steam/condensate feedwater will be chemically treated to prevent corrosion or scaling of the equipment. The steam cycle water will be treated with ammonia or an amine for pH control. Other chemicals such as oxygen scavengers will be utilized to maintain water quality. Sodium phosphate will be fed to the HRSGs for control of pH and hardness. Residual phosphate in the HRSG will react with hardness to form a non-adherent precipitate that will be permanently removed through HRSG boiler blowdown.

4.5.3 Sanitary Wastewater Treatment

As stated in Subsection 4.5.2 above, the sanitary system for DBEC will continue to be routed to the City of Hollywood.

4.5.4 Makeup Water Demineralization

As discussed in Subsection 4.4.4.1, the makeup water to the steam cycle will be demineralized, and the resulting reject water will be sent to the cooling system when practicable. Regeneration of the ion exchange units will be performed offsite.

4.5.5 Chemical Cleaning

The HRSG and feedwater piping may be chemically cleaned initially during commissioning and also periodically during the life of DBEC. Prior to application, the chemicals will not be stored onsite but will be delivered to the Site by a licensed contractor at the time of the scheduled periodic cleanings. The chemical cleaning solutions to be used for acid and alkaline cleaning of the HRSG must be consistent with the HRSG manufacturer's recommendations. Chemicals typically used in HRSG and feedwater pipe cleaning may include the following:

- Inhibited citric acid
- Ammonia
- Organic chelates, such as ethylene diamine tetra-acetic acid (EDTA)
- Disodium phosphate
- Trisodium phosphate
- Nonfoaming wetting agents
- Foam inhibitors

Wastewaters will consist of the cleaning solutions and material removed during the cleaning process. Chemical cleaning is an infrequent maintenance operation; it does not contribute to the liquid wastes produced by the normal operation of DBEC. Nonhazardous chemical cleaning wastes will be properly handled and discharged to the discharge canal through the plant drains system, temporary ponds, storm ponds, or the discharge canal. Chemical cleaning wastes will be managed according to applicable local, state, and federal rules and regulations.

4.5.6 Miscellaneous Drains

Wastewater can result from draining a water storage tank or from cleaning, construction activities, and maintenance operations. Wastewater from these processes will be routed to the plant drain system, stormwater management system, the discharge canal, or otherwise managed according to applicable local, state, and federal rules and regulations. Flows from the miscellaneous drains will be intermittent and will not normally contribute to the wastewater flows. Periodic offline washes of the CTs, using water or a detergent-water solution, will also produce wastewaters. CT offline wash wastewater will be managed by draining these wastewaters into a tank and then transferring those wastewaters by a portable pump to tank trucks. The process will be managed according to applicable local, state, and federal rules and regulations.

4.6 Solid and Hazardous Wastes

All non-hazardous and hazardous wastes associated with the operation of DBEC will be managed according to federal, state, and local regulations, as well as FPL's "Waste Guidelines" (see Table 4.7-1) currently used to handle waste at the existing facility. DBEC may periodically generate hazardous waste (typically less than 100 kilograms (kg) per month), including spent solvents, boiler chemical cleaning wastes, and other wastes.

4.6.1 Solid Wastes

Solid wastes will be generated by the operation of DBEC, but generally in small quantities. Such solid wastes will be limited to municipal solid waste (MSW), infrequent replacement of inlet air filters, operations and maintenance wastes, and solids from the water pretreatment process. An approved solid waste disposal contractor will dispose of all solid wastes. Solid waste management facilities subject to Chapters 62-701 or 62-702, F.A.C., or solid waste combustor ash management facilities are not proposed. As a result, information pertaining to waste containment design, leachate control, surface water control, geotechnical investigations, water quality monitoring plan, closure plan and long-term care, and financial assurance are not applicable to the Project.

4.6.2 Hazardous Wastes

FPL will operate DBEC to minimize the generation of hazardous waste. Any hazardous waste associated with DBEC will typically be less than 100 kg per month and may include spent solvents, HRSG chemical cleaning wastes, and other wastes. Potentially hazardous wastes will be collected and managed as hazardous waste until tested to determine their hazardous waste characteristics. Hazardous wastes, if any, will be collected onsite and disposed of by a licensed hazardous waste contractor. Solvent rags will be separated and either laundered or disposed of appropriately. If aerosol cans are punctured prior to disposal, the residual will be collected and managed as hazardous waste. Paint waste, polyvinyl chloride (PVC) cleaner, and PVC cement wastes will be minimized. Hazardous waste will be managed according to applicable rules and regulations.

4.7 On-Site Drainage System

4.7.1 Design Criteria and Applicable Regulations

The surface water management system for the Project will be designed to meet the requirements of applicable local, regional, state, and federal requirements, which include the rules and regulations of the SFWMD, Broward County, the City of Dania Beach, FDEP, and EPA. The basic design philosophy is that the required water quality treatment volume of stormwater runoff from the Project will be treated by onsite dry detention, and the post vs. pre-development stormwater runoff from a 25 Year / 72 Hour design storm event will be attenuated via an outfall weir of the detention ponds.



The Project drainage system of catch basins, pipes, channels, and culverts will convey runoff to storm water detention ponds. Surface water and storm water management calculations are presented in Appendix 10.8 Storm Water Management System Design, Dewatering Plans, and Calculations.

4.7.2 Construction Site Drainage

Prior to commencement of construction, FPL will seek coverage for the construction of the Project under FDEP's Generic Permit for Stormwater Discharge from Large and Small Construction Activities. Since May 1, 2003, construction sites in Florida that will result in a disturbance of one acre or more are required to seek coverage under the [Generic Permit for Stormwater Discharge from Large and Small Construction Activities \(Generic Permit for Construction\)](#). See Rule 62-621.300(4)(a), F.A.C. The Notice of Intent (NOI) will be submitted to FDEP at least two days prior to commencement of construction.

Prior to submitting the NOI for the construction permit, FPL will prepare a comprehensive Stormwater Pollution Prevention Plan (SWPPP), as required under the Generic Permit for Construction.

During construction, stormwater will be managed to meet the requirements of the Generic Permit for Construction, and appropriate pollution prevention techniques will be implemented to minimize erosion and sedimentation and properly manage stormwater. The conceptual construction drainage plan for the site is discussed in Appendix 10.8 Stormwater Management System Design, Dewatering Plans, and Calculations.

4.7.3 Operational Site Drainage

A detailed description of the pre-construction and post-construction site drainage features and associated modeling of design stormwater runoff is presented in Appendix 10.8 Stormwater Management System Design, Dewatering Plans, and Calculations. At the completion of construction, disturbed areas surrounding DBEC will be seeded where necessary, and the runoff will be managed in accordance with the stormwater management plan.

DBEC runoff that is unaffected by industrial activity (non-contact stormwater) will be handled by the new stormwater management system. This stormwater management system will provide the required water quality and quantity treatment in dry detention ponds located on the Site. Stormwater outfalls will release to the discharge canal or Dania Cutoff Canal in accordance with the IWWF Permit No. FL0001503-006-IWIS.

Contact stormwater runoff from the DBEC equipment and containment areas (containment areas for transformers, oil tanks, and other oil containing or handling equipment) will be routed through an oil/water separator and then routed to the stormwater management system.

4.8 Heavy Equipment and Materials

4.8.1 Construction Materials and Equipment

Construction materials and equipment will be delivered to the Site, including the construction parking and laydown areas, by existing roadways.

Clean fill materials suitable for the construction of the Project will be transported to the Site and placed within the designated areas. Limestone and aggregate will be used as necessary for stabilization of the construction parking and laydown areas associated with the Project.

Equipment and component parts of the CTs will be unloaded and moved using portable cranes and trucks. Some of the heaviest items, such as the new CTs, steam turbine, electric generators, HRSGs, and transformers, may require special transport. Pollution control measures for the laydown areas will include runoff collection as discussed in Section 4.7. As necessary, additional temporary access required for the construction support areas and the construction parking and laydown areas may be surfaced with aggregate/limerock with reasonable precautions taken to control fugitive dust (see Subsection 5.5.2).

4.8.2 Roads

Trucks and equipment associated with the construction of the Project will travel by existing roadways. The existing Lauderdale Site provides construction access from the southeast by SW 43rd Court (also known as SW 42nd Street) and an existing road adjacent to the cooling pond that connects to Marina Road. Maintenance may be conducted on this existing road prior to its use to assure safe transport of equipment.

4.8.3 Rail/Ship

Equipment that cannot be transported to the area by highway may be transported by rail or ship. Heavy components such as turbine sections, transformers, and generators may be routed to the Site through Port Everglades or a nearby rail spur. Delivery of heavy and/or oversized equipment will be transported to the Site by roads using specialized methods for this purpose. Appropriate FDOT and local approvals/notifications will be made prior to transporting heavy/oversized equipment.

4.9 Associated Linear Facilities

New offsite linear facilities are not anticipated to be a part of the Project, although the Project may require reconductoring and/or other upgrades to existing systems within the Site boundary. The Project will connect to the FPL transmission network through the existing 230 kV and 138 kV system switchyards located on the Site.

4.10 Emergency Disaster Preparedness Plans

FPL has comprehensive emergency disaster preparedness plans for both operational emergencies and natural disasters that can occur in Florida (e.g., hurricanes). FPL has been an industry leader in the preparation for hurricanes and in the recovery after a storm. FPL's Emergency Action Plan for the Site will be updated prior to the commercial operation of DBEC.

For DBEC, a hurricane shelter and emergency generators will be located in the power block area. The DBEC Emergency Action Plan will include descriptions of the hurricane shelter and emergency generators.

TABLES

**TABLE 4.3-1
TYPICAL NATURAL GAS COMPOSITION**

Composition	Mole %
Nitrogen (N ₂)	0.27 - 0.45
Helium (He)	0.01
Carbon Dioxide (CO ₂)	0.44 - 0.88
Methane (CH ₄)	96 - 97.0
Ethane (C ₂ H ₆)	1.8 - 2.6
Propane (C ₃ H ₈)	0.16 - 0.29
Butane (C ₄ H ₁₀)	0.011 - 0.017
Pentanes (C ₅ H ₁₂)	0.007 - 0.03
Hexanes (C ₆ H ₁₄)	0.03
Heptanes (C ₇ H ₁₆)	0.01
Octanes (C ₈ H ₁₈)	0.0
Argon, Oxygen (Ar, O ₂)	0.0
Sulfur (S)	2 grains per 100 scf
Water Vapor (H ₂ O)	0.6 lb/MMscf

Low Heating Value (LHV) = 21,000 Btu/lb; 920 Btu/scf (approximate).

High Heating Value (HHV) = 23,300 Btu/lb; 1,020 Btu/scf (approximate).

Note: scf = standard cubic feet.

MM = million.

TABLE 4.3-2
TYPICAL ULTRA LOW SULFUR DISTILLATE OIL COMPOSITION

Elements	Maximum
Carbon Residue	0.35 % on 10% Bottoms
Water and Sediment	0.05 %
Ash	0.01 %
Vanadium	0.5 ppm
Sodium and potassium	0.5 ppm
Lead	1 ppm
Calcium	2 ppm
Sulfur	0.0015 wt. %

Low Heating Value (LHV) = 18,400 Btu/lb; 129,900 Btu/gallon (approximate).
High Heating Value (HHV) = 19,500 Btu/lb; 137,700 Btu/gallon (approximate).

Note: ppm = parts per million.

TABLE 4.4-1 (GE)
STACK, OPERATING, AND EMISSION DATA FOR
COMBUSTION TURBINES/HRSGS FOR
NATURAL GAS COMBUSTION

Parameter	Units	Operating and Emission Data ^a for Ambient Temperature			
		Combustion Turbine/ HRSG			
		35 °F	59 °F	75 °F	95 °F
<u>CT/HRSG Stack Data</u>					
Height	ft	149	149	149	149
Diameter	ft	25.6	25.6	25.6	25.6
<u>100 Percent Load</u>					
Temperature	°F	177	180	182	184
Velocity	ft/sec	54.8	55.6	55.2	55.4
Maximum Hourly Emissions per Unit					
SO ₂	lb/hr	23.4	23.9	23.8	23.7
PM/PM ₁₀ /PM _{2.5}	lb/hr	17.6	17.8	17.6	17.6
NO _x	lb/hr	28.7	29.4	29.2	29.1
CO	lb/hr	49.6	50.7	50.4	50.2
VOC (as methane)	lb/hr	4.9	4.9	4.9	4.9
Sulfuric Acid Mist	lb/hr	4.5	4.6	4.6	4.6
<u>75 Percent Load</u>					
Temperature	°F	171	171	176	182
Velocity	ft/sec	43.5	42.9	37.8	42.8
Maximum Hourly Emissions per Unit					
SO ₂	lb/hr	18.6	18.1	14.9	17.1
PM/PM ₁₀ /PM _{2.5}	lb/hr	16.0	15.9	14.8	15.9
NO _x	lb/hr	22.8	22.2	18.3	21.0
CO	lb/hr	39.7	39.0	34.0	37.6
VOC (as methane)	lb/hr	3.9	3.9	3.4	3.8
Sulfuric Acid Mist	lb/hr	3.62	3.51	2.90	3.32
<u>50 Percent Load</u>					
Temperature	°F	168	169	172	178
Velocity	ft/sec	28.8	28.5	29.3	31.0
Maximum Hourly Emissions per Unit					
SO ₂	lb/hr	10.3	10.0	10.4	11.0
PM/PM ₁₀ /PM _{2.5}	lb/hr	13.3	13.3	13.4	13.6
NO _x	lb/hr	12.6	12.3	12.7	13.5
CO	lb/hr	26.9	26.4	26.8	27.8
VOC (as methane)	lb/hr	2.6	2.6	2.6	2.8
Sulfuric Acid Mist	lb/hr	2.00	1.95	2.02	2.14

^a Refer to Appendix 10.2.5, Subappendix A for detailed information on basis of pollutant emission rates and operating data.

Source: GE, 2017; Golder Associates, 2017.

TABLE 4.4-2 (GE)
STACK, OPERATING, AND EMISSION DATA FOR
COMBUSTION TURBINES/HRSGS FOR
ULTRA LOW SULFUR DISTILLATE OIL COMBUSTION

		Operating and Emission Data ^a for Ambient Temperature			
		Combustion Turbine/ HRSG			
Parameter	Units	35 °F	59 °F	75 °F	95 °F
CT/HRSG Stack Data					
Height	ft	149	149	149	149
Diameter	ft	25.6	25.6	25.6	25.6
100 Percent Load					
Temperature	°F	205	204	208	213
Velocity	ft/sec	61.7	60.7	59.2	57.4
Maximum Hourly Emissions per Unit					
SO ₂	lb/hr	5.9	5.8	5.5	5.2
PM/PM ₁₀ /PM _{2.5}	lb/hr	61.6	61.6	61.5	61.5
NO _x	lb/hr	120.0	116.8	112.0	106.4
CO	lb/hr	114.8	112.6	108.7	103.8
VOC (as methane)	lb/hr	13.2	13.0	12.6	12.1
Sulfuric Acid Mist	lb/hr	1.15	1.12	1.07	1.02
Lead	lb/hr	0.054	0.053	0.050	0.048
75 Percent Load					
Temperature	°F	191	188	193	194
Velocity	ft/sec	48.2	45.9	44.4	42.5
Maximum Hourly Emissions per Unit					
SO ₂	lb/hr	4.6	4.5	4.3	4.0
PM/PM ₁₀ /PM _{2.5}	lb/hr	61.3	61.3	61.2	61.2
NO _x	lb/hr	93.9	90.5	86.6	81.6
CO	lb/hr	92.6	88.2	84.3	80.0
VOC (as methane)	lb/hr	10.5	10.1	9.7	9.2
Sulfuric Acid Mist	lb/hr	0.90	0.87	0.83	0.78
Lead	lb/hr	0.042	0.041	0.039	0.037
50 Percent Load					
Temperature	°F	175	174	177	180
Velocity	ft/sec	37.6	36.0	34.7	32.9
Maximum Hourly Emissions per Unit					
SO ₂	lb/hr	3.4	3.3	3.2	3.0
PM/PM ₁₀ /PM _{2.5}	lb/hr	61.0	61.0	60.9	60.9
NO _x	lb/hr	69.5	67.0	64.4	61.2
CO	lb/hr	77.1	73.5	69.8	65.3
VOC (as methane)	lb/hr	8.4	8.1	7.7	7.3
Sulfuric Acid Mist	lb/hr	0.67	0.64	0.62	0.59
Lead	lb/hr	0.031	0.030	0.029	0.028

^a Refer to Appendix 10.2.5, Subappendix A for detailed information on basis of pollutant emission rates and operating data.

Source: GE, 2017; Golder Associates, 2017.



TABLE 4.4-3 (GE)
SUMMARY OF POTENTIAL ANNUAL EMISSIONS FOR DBEC AND NET EMISSION INCREASES/DECREASES

Pollutant	DBEC Project Potential Emissions (TPY)			Emission Increases (TPY) (Lauderdale Units 6A - 6E)	Emission Decreases (TPY) (Lauderdale Units 4 & 5)	Net Emissions Increases and Decreased (TPY)	PSD Significant Emission Rate (TPY)	PSD Review Required?
	2 CTs/HRSGs and Circuit Breakers	Auxiliary Emission Sources	TOTAL PROJECT					
SO ₂	208	0.8	209	110.2	13	307	40	Yes
PM	198	45.3	244	139.1	125	258	25	Yes
PM ₁₀	198	3.1	202	139.1	125	216	15	Yes
PM _{2.5}	198	1.2	200	139.1	125	214	10	Yes
NO _x	339	14.0	353	1,009.1	1,994	-632	40	No
CO	500	14.1	514	216.7	175	556	100	Yes
VOC (as methane)	50.5	0.9	51	36.2	5.0	83	40	Yes
Sulfuric Acid Mist	40.5	Neg.	41	16.9	1.9	56	7	Yes
Lead	0.050	Neg.	0	Neg.	Neg.	0.050	0.6	No
Greenhouse Gases (CO ₂ e) ^a	4,532,985	17,248	4,550,233	2,472,792	2,268,823	4,754,202	75,000	Yes

^a Includes SF₆ Circuit Breakers:

11.40 tons CO₂e/year

Note: Neg.= negligible; NA= not applicable

Source: Golder, 2017.



TABLE 4.6-1
DBEC WASTE STREAMS, CHARACTERIZATION AND DISPOSAL METHOD (Page 1 of 2)

Waste Streams (Process Water Systems)	Non Hazardous Basis for Characterization	Hazardous Basis for Characterization	Disposal Management Process
Sanitary Wastewater	Based on analytical characterization of historical data	--	Rooted to City of Hollywood sanitary system.
Water Treatment Wastewater (includes RO Reject)	Based on analytical characterization of historical data	—	Disposed of as industrial wastewater into the cooling pond.
Heat Recovery Steam Generator Blowdown	Based on analytical characterization of historical data	—	Disposed of as industrial wastewater into the cooling pond.
Steam Cycle Water Treatment Chemicals (Hydrazine, Ammonia, Sodium Phosphate)	Based on analytical characterization by historical data		Chemicals breakdown in steam cycle [any residual chemicals are disposed of by HRSG blowdown into the cooling pond.
Cooling System Return (Biocide Addition Chlorine, Scale Inhibitor, Pretreatment Chemicals)	Based on analytical characterization by vendor supplying chemical	—	Disposed of as industrial wastewater into the cooling pond.
Heat Recovery and Steam Generator as Well as Pre-boiler Piping Chemical Cleaning	Based upon analytical waste stream characterization.	Based upon analytical waste stream characterization	If non-hazardous, will be disposed of into the cooling pond. If hazardous, then disposed of by a licensed approved contractor.
Plant and Equipment Drains	Based on analytical characterization of historical data	—	Disposed of as industrial wastewater* into the cooling pond.

*Pursuant to the requirements of FDEP IWWF Permit No. FL0001503-006-IW1S.



TABLE 4.6-1
DBEC WASTE STREAMS, CHARACTERIZATION AND DISPOSAL METHOD (Page 2 of 2)

Waste Streams (Construction and Operations)	Non Hazardous Basis for characterization	Hazardous Basis for characterization	Disposal Management Process
Construction-Related Waste Water (e.g., ammoniated process water for hydrostatic testing and backfilling, groundwater from dewatering and steam blow quench water, cleaning and flushing, etc.)	Based on historical data	—	Disposed of into the cooling pond.
Construction-Related Solid Waste	Based on historical data	—	Materials recycled to the extent practicable or disposed of using a licensed waste contractor.
Water Pretreatment Solid Waste	Based on analytical results	—	Disposed of by an approved disposal contractor.
Oily Rags	As per EPA in 40 CFR 279	—	Recycled via laundering by FDEP-approved vendor or disposed of in landfill.
Punctured Aerosol Cans	As per EPA characterization letter	—	Disposed of by an approved scrap metal contractor.
Captured Paint Residuals from Punctured Aerosol Cans	—	Analytical data from waste characterization	As hazardous waste in accordance with 40 CFR, Part 261.
X-ray Weld Testing	—	—	Process does not generate waste chemicals onsite. Vendor is responsible for their waste generation.
Florescent Bulbs and Batteries	—	As per 40 CFR 273 EPA determination	Recycled as universal waste.
Oily Separated Waste Water	Based on analytical results	—	Separated water is routed to onsite ponds. Oil is disposed of by an approved waste disposal contractor.
Oily Solid Wastes	As per EPA in 40 CFR 279	—	Disposed of by an approved waste disposal contractor.



TABLE 4.7-1
FPL GENERAL WASTE HANDLING GUIDELINES (Page 1 of 2)

GENERAL WASTE HANDLING GUIDELINES

1. All effort should be taken to reduce and/or eliminate waste generation.
2. All effort should be taken to reuse and/or recycle wastes.
3. Label all containers so that contents can easily be determined and products used.
4. If waste is hazardous due to a hazardous constituent in the original product, try to substitute with a non-hazardous product, if feasible.
5. If waste is generated, see attached list for disposal options and instructions.
6. If waste is hazardous and is required to be placed into satellite accumulation drums, contact Environmental Plant Leader.
7. If waste cannot be identified, contact Environmental Plant Leader.

WASTE HANDLING INSTRUCTIONS

Recycling

1. Cardboard: flatten and place in designated area.
2. Pallets (poor condition) and scrap wood: place in designated area.
3. White paper and file stock: place in designated bin.
4. Aluminum cans: place in designated bin marked "Aluminum Cans".
5. Metal scrap: place in "metal" designed dumpster.
6. Empty drums (poor condition): empty, crush and place in "metal" dumpster.
7. Fluorescent bulbs (intact): place into original box and store in Universal Waste Storage Area.
8. Lead acid batteries: place on pallet in Hazardous Waste Area.
9. Dry alkaline cell batteries: place in appropriate designated universal waste bin.
10. Ni Cad batteries (includes all communication type batteries, i.e., cell phone/pager batteries): place in appropriate bin.
11. Empty aerosol cans: puncture with can puncturing device and place can into scrap metal drum designated for this purpose. Residual materials in drum are managed as Hazardous Waste.

TABLE 4.7-1
FPL GENERAL WASTE HANDLING GUIDELINES (Page 2 of 2)

Recycling (continued)

12. Used oil filters: drain filters for at least 24 hours and place drained oil filters into appropriate drums. Do not put plastic bags into drum.
13. Metal shavings: place in designated scrap metal drum.
14. Mercury liquid: notify Environmental Plant Leader.

Non-Regulated Waste Disposal

1. Normal trash: minimize and dispose, place into Plant dumpster.
2. Used oil: place into Accumulation Area designated for this purpose.
3. Solid oily waste: place into Solid Oily Waste Dumpster designated for this purpose.
4. Parts cleaning solution: use parts cleaner for all parts cleaning. For special parts cleaning applications, see Environmental Plant Leader for instructions. Also contact Environmental Plant Leader when parts cleaning fluid is spent.

Hazardous Waste Disposal*

1. Solvent-contaminated rags: place into "Solvent Rag" Satellite Accumulation Drum Area. When full, place in Hazardous Waste Area unless rag laundering program has been implemented. Where rag laundering program has been implemented, place rags into designated bins.
2. Solid paint cleanup material: place into Satellite Accumulation Drum Area. When full, place in Hazardous Waste Area.
3. Laboratory waste: place in Satellite Accumulation Drum Area. This drum is for use by on-shift production personnel performing water chemistry. When full, place in Hazardous Waste Area.
4. Outdated lab chemicals: these chemicals will be lab packed by the Environmental Plant Leader.
5. Aerosol can waste (punctured and non-punctured): collect in Satellite Accumulation Drum Area. When full, place in Hazardous Waste Area.
6. Waste paint-related material: place in Satellite Accumulation Drum Area. When full, place in Hazardous Waste Area.
7. Bead blasting material: place in drum designated for this purpose. When full, place in Hazardous Waste Area.

*While accumulated onsite, hazardous waste drums must include the words "Hazardous Waste" and the accumulation start date. Drums used for satellite accumulation of hazardous waste may use words that identify the contents until moved to storage for disposal and then the words "Hazardous Waste" and the accumulation date(s) must be added.

FIGURES

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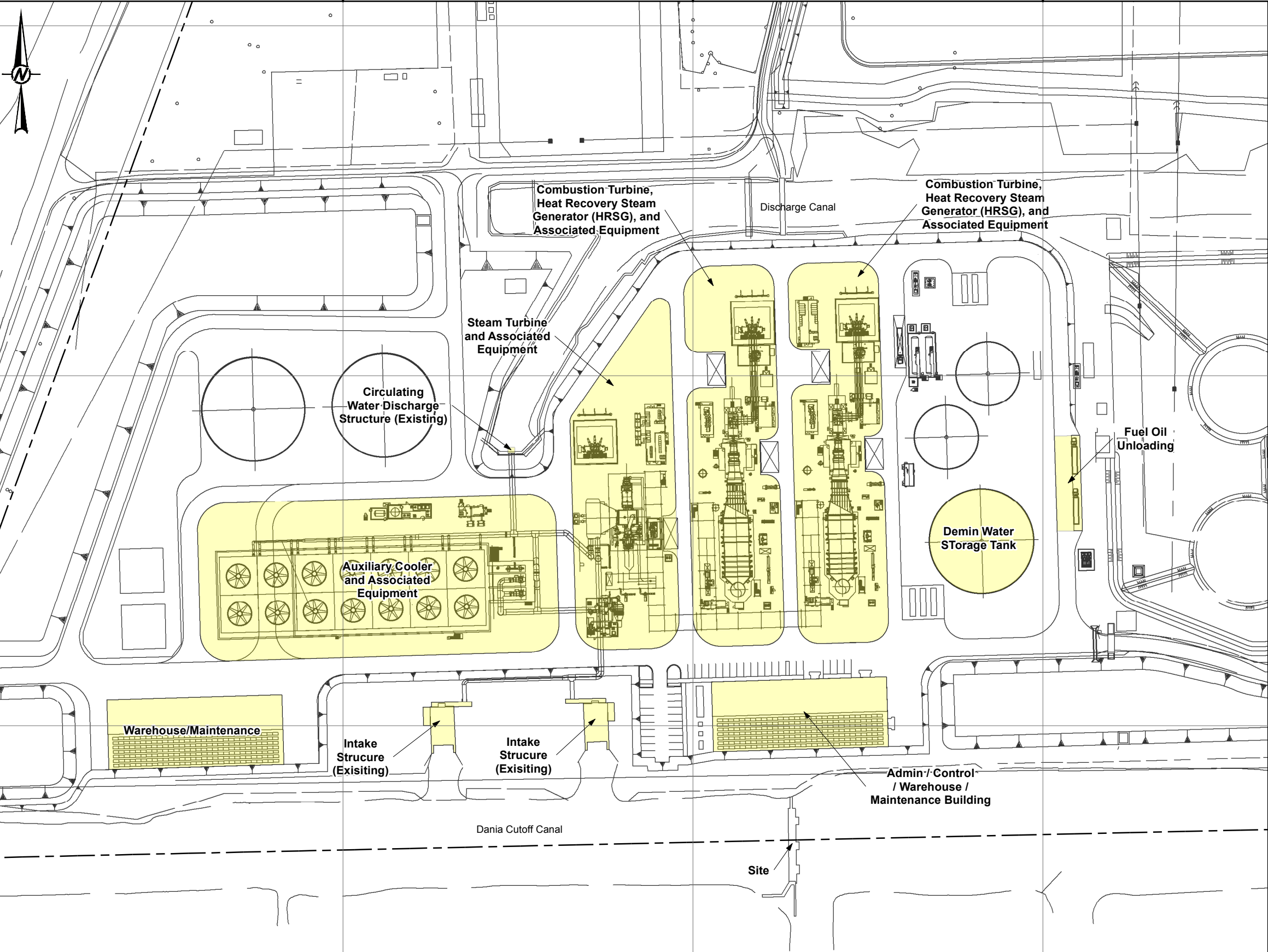
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LEGEND

- Site
- DBEC Major Facility Components



REFERENCE(S)
SITE, A.R. TOUSSAINT & ASSOCIATES, INC., 1989
DBEC FACILITY LAYOUT, BLACK & VEATCH, 2017

CLIENT
FPL

PROJECT
DANIA BEACH ENERGY CENTER

TITLE
DBEC MAJOR COMPONENTS



YYYY-MM-DD	2017-07-25
DESIGNED	NRL
PREPARED	JGW
REVIEWED	KAB
APPROVED	KAB

PROJECT NO.
1773823

CONTROL
F019

REV.
0

FIGURE
4.1-1

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B



EXISTING UNITS 4 & 5



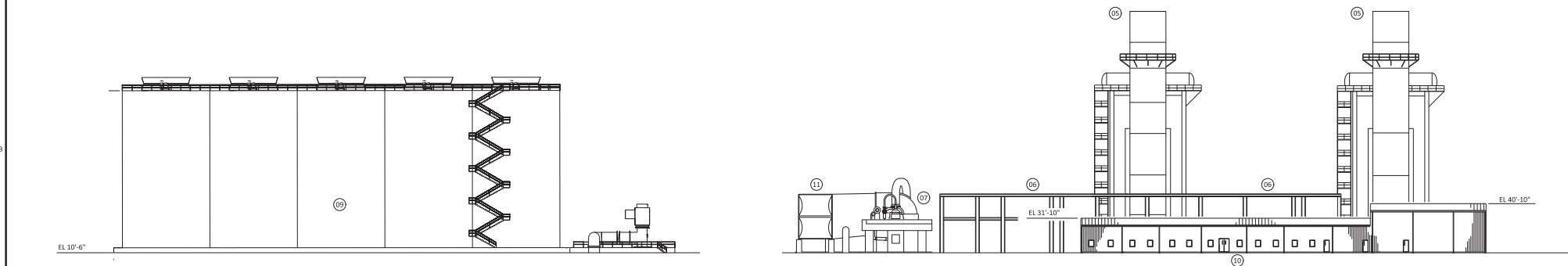
DANIA BEACH ENERGY CENTER

Figure 4.1-2

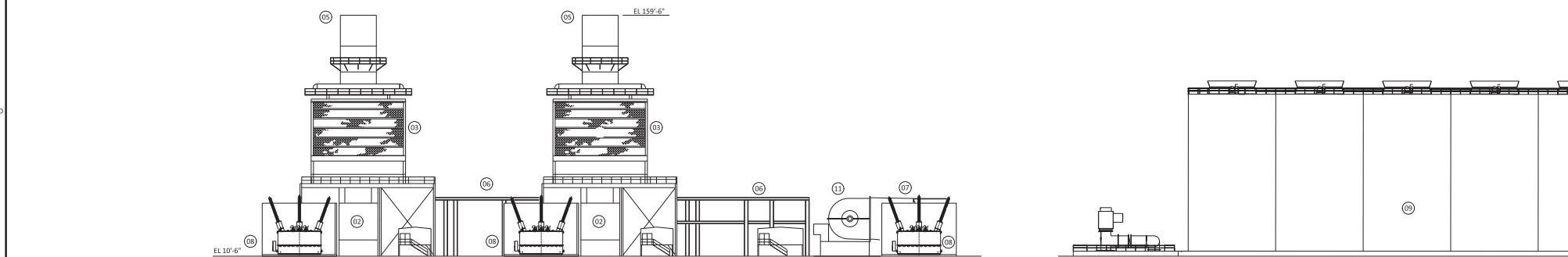
Existing Units 4 & 5 and Dania Beach Energy Center

Source: Golder, 2017.





SOUTH ELEVATION



NORTH ELEVATION

Figure 4.2-3
North-South Profile of Combustion
Turbines and HRSGs

**NOT TO BE USED
FOR CONSTRUCTION**

THE DISTRIBUTION AND USE OF THE NATIVE FORMAT CAD FILE OF THIS DRAWING IS UNCONTROLLED. THE USER SHALL VERIFY TRACEABILITY OF THIS DRAWING TO THE LATEST CONTROLLED VERSION.

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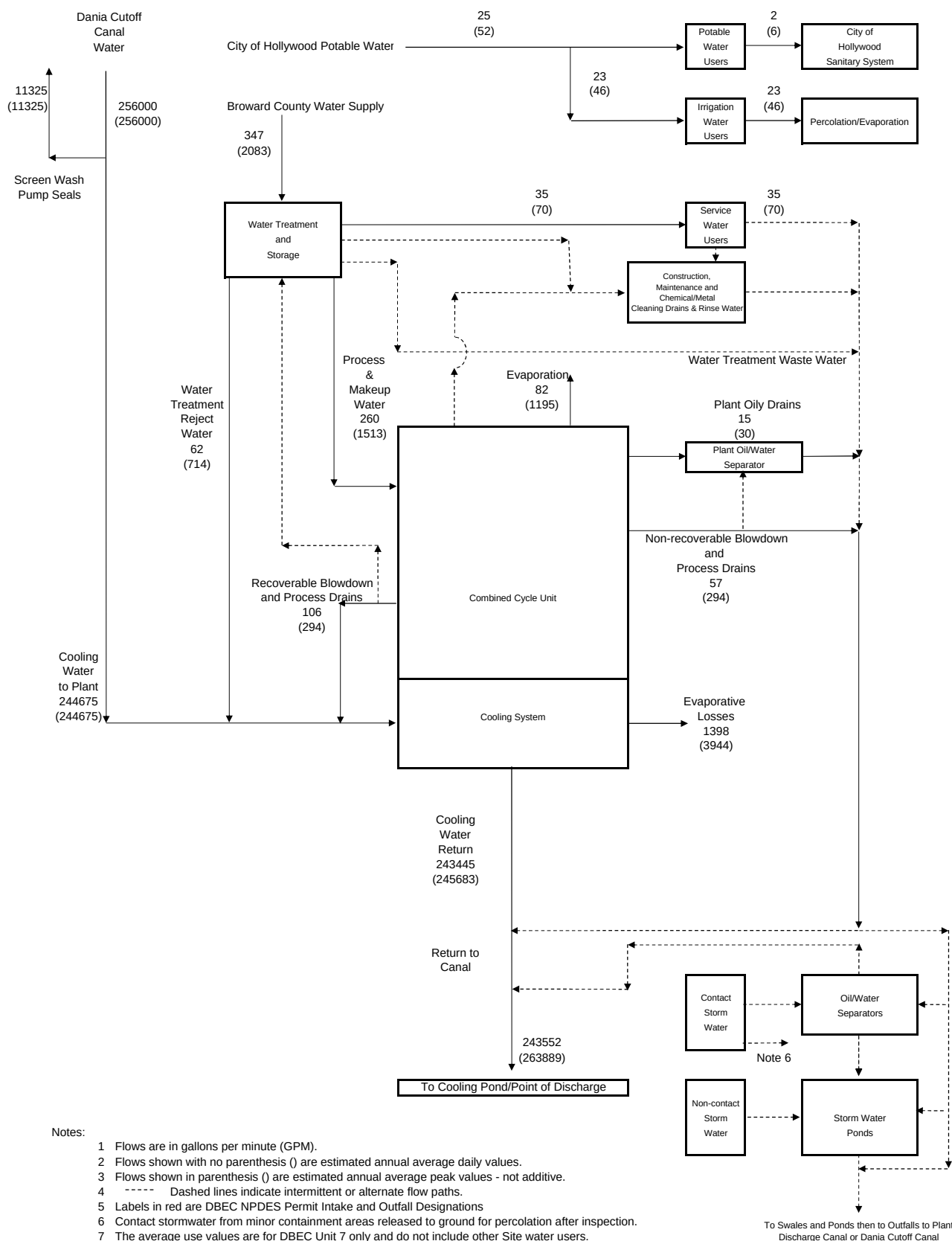


Figure 4.5-1
Water Balance for DBEC Unit 7

5.0 ENVIRONMENTAL EFFECTS OF SITE PREPARATION, AND PLANT AND ASSOCIATED FACILITIES CONSTRUCTION

The following sections address the environmental effects of site preparation and construction of DBEC, including the construction parking and laydown areas. The environmental effects are discussed with respect to impacts on land, surface water, groundwater, ecology, air quality, solid waste, landmarks and sensitive areas, and impacts on archaeological and historic sites. If construction activities require monitoring programs, descriptions of the programs are identified. It is important to note that during this approximately 2-year construction period, the existing Units 4 and 5 will no longer be in operation. Dismantlement of existing Lauderdale Unit 4 and 5 facilities will occur prior to the start of construction of DBEC under appropriate separate approvals. Therefore, while the Project construction activities will have the impacts discussed in the following sections, impacts of the operation of the existing Units 4 and 5 will be eliminated during this period.

5.1 Land Impacts

5.1.1 General Construction Impacts

The portions of the Lauderdale Site that will be affected by the construction of the Project are shown on Figure 5.4-1.

The Site has been occupied by an operating power generation facility for more than 90 years. The upland areas to be used for Project construction, including the construction parking and laydown areas, will be cleared as necessary. The Site soils are generally suitable for the development of the DBEC. Unsuitable soils will be removed and clean fill added, as necessary.

The construction parking and laydown areas may be stabilized with rock, limestone, and shell. Other more lightly used areas may be seeded or sodded with grass to prevent erosion. The construction parking and laydown areas will also contain the construction office trailers and portable structures. The latter are used to store construction material and construction equipment, as well as areas for assembly of plant components. The number of trailers and portable structures would be based on the contractor requirements and phases of construction.

Construction contractors will be required to implement BMPs to minimize spills. Maintenance and refueling will be performed only in designated areas. Any spills will be cleaned up and wastes disposed of in accordance with applicable requirements.

5.1.2 Roads

Primary construction access to the existing Lauderdale Site will be from the southeast by SW 43rd Court (also known as SW 42nd Street) and Marina Road from the northeast.



The construction workforce for the Project is expected to average approximately 290 workers during the period between 2020 and 2022. Peak construction is estimated at approximately 650 workers in mid-2021. Subsection 5.7.2 presents the construction traffic analysis performed for the Project.

Fugitive dust generation from traffic and/or excavation/construction activities will be minimized through paving, seeding or placing of sod in areas not utilized for construction, water sprinkling, or other dust-suppressant techniques.

Appendix 10.7.2 presents the construction traffic analysis performed for the Project, summarized in Section 5.7.2.

5.1.3 Flood Zones

The majority of the DBEC will be constructed within areas designated by FEMA as Zone X and is not within the 100 year floodplain (Figure 3.1.3-1). However, some construction will be in areas designated by FEMA as Zone AH and AE (within the 100 year floodplain). Minimum fill will be placed in these areas to allow the areas to be usable as construction laydown and parking areas, and to minimize the probability of flooding during construction.

5.1.4 Topography and Soils

The existing grade where DBEC will be located on the Site is approximately 7 ft (NAVD88). The soil profile consists of approximately 5 to 7 feet of sandy material underlain by 4 to 5 feet of brown organic soft silty clay layer underlain by sand. The plant area will be filled to a nominal elevation of 10.0 (NAVD88), with the “Top of Concrete” of the buildings and structures set at 10.5 (NAVD88) at a minimum. In addition, the power block roads are proposed with a nominal Top of Pavement elevation of 10.0 (NAVD88). The proposed site elevations are designed to raise the site above Base Flood Elevations (BFE) including the predicted storm surge tide elevations, and to facilitate site drainage. The site elevation was also analyzed against the data published in the report “Unified Sea Level Rise Projection - South East Florida” (Sea Level Rise Work Group, October 2015) and found to be well above the potential future flood levels as described in Appendix 10.8 Storm Water Management System Design, Dewatering Plans, and Calculations. Suitable clean fill material will be imported from offsite to raise the site to the design elevation. The construction contractor will be required to appropriately test the imported fill material to assure that it is free of contamination per applicable requirements.

Remediation of the Lauderdale Site will be addressed during the dismantlement activities covered under the current Certification. In the event that contamination is encountered during construction, FPL will address the contamination based on the plan previously approved by the appropriate agencies during

dismantlement activities. Based on history at the Lauderdale Site, FPL does not anticipate finding soils impacted with hazardous waste.

Dewatering will be required for equipment foundations and other construction activities. Such dewatering will be localized and will last less than 1 year. Preliminary dewatering plans for the power block, auxiliary cooling system piping and sump pit excavations, and underground utility corridor trench excavations are contained in Appendix 10.8.

Current topographic features of the Site reflect its historic use as a power plant site. No adverse impact to soil stability or bearing strength is anticipated from the Project because deep foundations, piles, stone columns or other ground improvement methods will be used to support heavy equipment and building; therefore, overall settling of the land area will be negligible. Slight settling may take place in areas of construction, but this will be minor and localized in extent.

Elevations of the land surface during construction will be approximately the same as the existing Site elevation. As a result, no significant changes in topography will be observable from offsite locations. Project work will involve the use of temporary construction cranes. There are four stacks associated with existing Units 4 and 5. DBEC will have only two stacks of similar height. The impacts on viewshed will not be significant, because the construction cranes and new structures will be similar in height to the existing structures.

While there may be some changes in percolation and runoff rates during construction, construction stormwater will be managed in accordance with the Project's stormwater management plan (Appendix 10.8) following best management practice requirements of the NPDES Generic Permit for Stormwater Discharge from Large and Small Construction Activities (Chapter 62-621.300(4)(a), F.A.C.). Therefore, construction stormwater released from the Site should not cause soil erosion, flooding or have an adverse impact on off-Site water quality.

The construction laydown and parking areas will be raised to avoid flooding during construction. The extent of earth disturbances during construction will be minimized as much as is practical in accordance with the SWPPP as described in Subsection 4.7.2. Areas outside of cut and fill operations will be protected against unnecessary equipment traffic. Aggregate surfaced areas may be provided for access, while limerock surfacing may be provided for the construction support areas.

5.2 IMPACT ON SURFACE WATER BODIES AND USES

5.2.1 *Impact Assessment*

Construction stormwater will be managed following best management practice requirements of the NPDES Generic Permit for Stormwater Discharge from Large and Small Construction Activities and the Project's stormwater management plan. Therefore, site preparation and construction activities should have no adverse impact on off-site surface water bodies. The existing infrastructure of the intake and discharge structures for Units 4 and 5 will be used for DBEC. No dredging or filling or construction of shoreline facilities in waters of the state is proposed with the exception of maintenance of the existing intake and discharge structures. Construction water use, dewatering, and stormwater management are discussed below.

5.2.1.1 Construction Water Use

Water used during Project construction will be obtained from Broward County and the City of Hollywood, stormwater ponds, dewatering effluent, and if needed vendor supplied sources. Construction water uses include soil improvement, hydrostatic testing, general cleaning/flushing, chemical cleaning, steam blows, fugitive dust control, potable supply, and irrigation. Construction water use will be within the current allocation from Broward County and the City of Hollywood.

Chemicals may be added to the water used for hydrostatic testing to meet manufacturer's specifications for pH control. The water from hydrostatic testing of HRSGs, piping, and tank systems will be contained onsite after such testing is completed. Hydrostatic test water will be tested, treated if necessary and either routed to the stormwater ponds for percolation/evaporation or discharged to existing intake or discharge canals. When necessary, the water may be disposed of at a local POTW or a licensed disposal facility.

Chemical cleaning of the HRSGs and steam piping systems may be performed (Section 4.6). The proposed auxiliary boiler for DBEC or temporary boilers will be used to generate steam for cleaning. Non-hazardous wastewaters may be tested, treated if necessary, and either routed to the stormwater ponds for percolation/evaporation, discharged to existing intake or discharge canals, routed to the City of Hollywood publicly owned treatment works (POTW), or other approved facility. During construction, the construction labor force may use portable chemical toilets and/or permitted holding tanks. A licensed contractor will pump all sanitary sewage from the portable toilets and holding tanks as needed and transport the waste to an approved disposal facility. A temporary connection to the existing POTW may be used during construction.

Potable water for consumption, emergency eyewash, and shower stations during construction will be obtained from the existing City of Hollywood potable water connection or contractor supplied potable water.

Water from Broward County, the City of Hollywood, stormwater ponds, or dewatering activities may be used as necessary to mitigate fugitive dust emissions during Project construction.

5.2.1.2 Construction Dewatering

During construction of DBEC, dewatering activities will be required for various structures to be located at depths below the surficial groundwater table, including excavations for major foundations, installation of underground circulating water pipes, and miscellaneous trenching activities. The dewatering effluent will be routed to onsite stormwater ponds or temporary holding basins for reuse, evaporation/percolation, and release to the Dania Cutoff Canal (via existing stormwater outfall structures) or discharge canal. In order to meet regulatory requirements for discharge to surface and groundwater, the dewatering effluent may require treatment for pH, turbidity, and metals. Dewatering effluent treatment will be designed to ensure that any discharge to surface waters will meet the NPDES Generic Permit for Stormwater Discharge from Large and Small Construction Activities.

5.2.1.3 Construction Stormwater

Construction stormwater will be managed as described in Subsection 4.7.2 and Appendix 10.8. FPL will prepare a comprehensive SWPPP, as required under the FDEP Generic Permit for Stormwater Discharge from Large and Small Construction Activities, addressing the construction of DBEC. The SWPPP will be prepared to mitigate impacts due to stormwater during construction. As a result, no adverse impacts to surface waters due to site preparation and construction are anticipated.

5.2.2 Measuring and Monitoring Programs

The construction stormwater management system will be monitored as required by both the SWPPP that will be developed and the applicable BMPs under the generic stormwater construction permit. Turbidity will be measured at points of discharge and at a background station in the receiving body of water to ensure that turbidity is not more than 29 Nephelometric Turbidity Units (NTU) above background. In the event turbidity levels approach 29 NTU against background, the construction contractor will be required to implement additional BMPs to lower turbidity levels to acceptable levels.

FPL will sample the dewatering effluent as required under Generic Permit Requirements of Chapter 62-621 F.A.C and Rule 62-621.300(2)(a) F.A.C. and treat the dewatering effluent, as necessary, to meet applicable water quality standards at the point of discharge.

5.3 GROUNDWATER IMPACTS

5.3.1 *Impact Assessment*

Activities associated with the construction of DBEC are not expected to produce any significant changes to groundwater quality, quantity, or levels in the vicinity of the Site. Dewatering will be confined to localized onsite areas associated with construction of DBEC. As a result, no adverse impacts to groundwater resources or offsite wells will occur from dewatering activities.

While the ground surface in the power block area is approximately 7 ft NAVD88, the depth to the water table is 2 to 5 ft below ground surface. The depths of excavations stated on Figure 2 are from the final grade elevation of 10 feet NAVD88 (Ref 2). Several of the long trench excavations required are planned for construction of underground utilities and sumps. Deeper excavations are planned to construct sump foundations for the auxiliary cooling system and wastewater sumps. The shallow trench excavations are assumed not to require dewatering since the bottom of the excavations will be above the water table. Preliminary dewatering plans for the power block, auxiliary cooling system, and the intake and discharge structures are contained in Appendix 10.8.

5.3.2 *Measuring and Monitoring Programs*

During construction dewatering, the effluent will be monitored as discussed above in Subsection 5.2.2.

5.4 ECOLOGICAL IMPACTS

5.4.1 *Impact Assessment*

Construction of the Project will impact terrestrial (upland) and aquatic (wetland) systems. The ecological impacts of each feature are discussed below.

5.4.1.1 Terrestrial Systems

The following subsections include descriptions of potential ecological impacts on terrestrial systems resulting from Project construction activities. Existing land use/land cover of the Project Area is shown in Figure 3.3.5-1. The extent of land impacts is illustrated in Figure 5.4-1.

The Site comprises approximately 392 acres, approximately 134 acres of which will be used as the Project Area for construction of DBEC. Upland areas to be used during construction are limited to previously developed portions of the Lauderdale Site, as well as a small area of disturbed shrub and brushland adjacent to the South New River Canal. These areas do not contain unique wildlife species and are not considered important wildlife habitats because of their disturbed nature. No significant adverse impacts to wildlife resources or listed species are anticipated as a result of construction in these areas.

Fugitive dust generated by construction activities on-Site will be minimized through BMPs (see Subsection 4.5.2). Localized fugitive dust is not likely to adversely affect the terrestrial systems surrounding the Site.

Noise from construction activities is not anticipated to significantly affect wildlife surrounding the Site. Wildlife that occurs in the vicinity of the area is accustomed to noise from historical power plant operation, the FLL airport, and surrounding highways, and wildlife is expected to acclimate to the temporary noise associated with construction activities from the DBEC.

5.4.1.2 Aquatic Systems/Wetlands

Construction of the Project will result in dredge/fill impacts to approximately 18.67 acres of relatively low-quality wetlands vegetated with a mixture of nuisance exotic and native species surrounded by existing electric utility infrastructure. Areas of unavoidable wetland impact are illustrated in Figure 5.4-1. Secondary wetland impacts will be minimized through implementation of erosion control BMPs.

The Project design reflects an effort to avoid and minimize wetland impacts to the greatest extent practicable. The Project has been designed with a minimal footprint to reduce the area of impact, and the proposed location for construction of DBEC maximizes utilization of disturbed upland areas through its location upon an existing electric generation facility site. Erosion, sedimentation, and runoff control measures will mitigate the potential for water quality degradation; therefore, associated impacts to adjacent aquatic biological communities are not expected to be significant.

Additional information regarding wetland impacts of the Project and proposed mitigation are provided in Appendix 10.4, Environmental Resource Permit application.

5.4.1.3 Wetland Mitigation

In accordance with regulatory guidelines of the FDEP and the USACE, FPL proposes that the loss of wetland habitat be mitigated through purchase of mitigation credits from the agency-approved Everglades Mitigation Bank (EMB). The mitigation service area for the EMB includes Broward and Miami-Dade Counties.

Wetland Functional Assessment Methodology

The calculation of mitigation requirements typically involves use of a wetland functional assessment value multiplied by the acreage of impact to determine the required number of mitigation credits to replace the loss of wetland functions. Wetland functional assessments typically involve ranking the subject wetland relative to several variables, such as vegetation, wildlife utilization, hydrology, and

surrounding landscape conditions. The goal of the functional assessment is to determine the ecological value of the wetland prior to disturbance to ensure that mitigation is designed to replace the wetland's ecological functions rather than merely the acreage of fill. Using this rationale, a two-acre wetland dominated by exotic vegetation with altered hydrology and little wildlife utilization would have a lower functional value and, thus, require fewer mitigation credits than a two-acre wetland supporting a diverse assemblage of native flora and fauna and unaltered hydrologic regime.

Per Section 373.414(18), F.S., the Uniform Mitigation Assessment Method (UMAM) is the functional assessment methodology required to determine mitigation needs in Florida. However, as described in Rule 62-345.100(6), F.A.C., when utilizing a mitigation bank, the applicant must use the functional assessment methodology approved for the specific mitigation bank to assess impact sites for the purpose of determining mitigation credits. The EMB functional assessment protocol, Wetland Assessment Technique for Environmental Reviews (W.A.T.E.R.), is similar to the UMAM protocol. W.A.T.E.R. must be used to quantify the number of credits required from the EMB to offset the loss of wetland functions and is directly applicable to the conditions present in southeast Florida.

The W.A.T.E.R. functional evaluation matrix includes four main categories: fish and wildlife, vegetation, landscape/hydrology, and salinity. These main categories are further subdivided to represent most of the important ecological components and factors of the Everglades and coastal ecosystems of southeast Florida. Variables within the four main categories are scored from 0 to 3, with half-point increments allowable. For each wetland assessment area, the sum of all variable scores is then divided by the total possible score to derive an overall W.A.T.E.R. functional assessment score ranging between 0 and 1. Parameters that cannot be attributed to direct wetland function are termed site suitability parameters, which are used to calculate a site suitability multiplier. The site suitability multiplier assesses a wetland based upon how it contributes to the functional attributes of other wetlands, addressing the anthropogenic importance and/or socioeconomic value of the wetland. The site suitability multiplier is multiplied by the acreage of impact and functional assessment score to determine the total number of EMB mitigation credits required to offset wetland impacts.

Functional Assessment Results

The W.A.T.E.R. functional assessment methodology was used to quantify the relative quality of wetland habitats impacted by the Project and the resulting number of mitigation credits required to replace the loss of wetland functions associated with unavoidable wetland impacts. A detailed description of the individual scores for each parameter and calculations for wetland habitat types is included in the Environmental Resource Permit application (Appendix 10.4); a summary of impacts and proposed mitigation are provided below:



Construction of the Project will result in approximately 18.67 acres of unavoidable direct impact and 0.12 acres of secondary impact to disturbed exotic hardwood and native hardwood systems surrounded by existing electric utility infrastructure, and a small area of low-quality isolated freshwater marsh. As detailed in Appendix 10.4, the Project's wetland impacts will be mitigated through purchase of 11.82 credits from the EMB, calculated in accordance with the W.A.T.E.R. functional assessment methodology.

5.4.1.4 Endangered and Threatened Species

Threatened and endangered species or species of special concern that have a possibility of occurrence within the DBEC are identified and discussed in Subsection 3.3.6. Construction of DBEC is not likely to affect any state or federally-listed species due to the lack of preferred habitat for nesting, roosting, or significant foraging areas within the Project Area. The Site has been a refuge for the threatened manatee during the wintertime for decades. During the construction period, FPL will continue to provide a warm-water refuge for the manatees consistent with the Manatee Protection Plan established pursuant to the existing facility's IWW Permit.

5.4.2 Measuring and Monitoring Programs

5.4.2.1 Terrestrial Systems

No monitoring programs will be undertaken because no significant terrestrial systems will be affected by construction activities proposed on the Site.

5.4.2.2 Aquatic Systems/Wetlands

Wetland impacts will be mitigated through purchase of mitigation credits from the EMB, as described in Appendix 10.4.

5.5 AIR IMPACTS

5.5.1 Air Emissions

Construction activities will result in the generation of fugitive PM₁₀ emissions and vehicle exhaust emissions. Fugitive PM₁₀ emissions will result primarily from onsite vehicular travel over paved and unpaved roads. Construction traffic will include heavy equipment traffic and traffic due to construction workers entering and leaving the Site. Construction personnel and equipment will enter the Site, including the construction support area, primarily over paved surfaced roadways. Exposed land areas may also generate fugitive dust due to wind erosion.

Emissions of fugitive PM₁₀ from these activities are difficult to quantify because of their variable nature. They can only be estimated since emissions are dependent upon a number of factors, including specific activities conducted, level of activity, meteorological conditions, and control measures utilized.

Table 5.5.1-1 shows the estimated maximum air emissions during site preparation and construction of DBEC.

During the construction period, fugitive PM₁₀ emissions will result from site preparation by removing unsuitable soils and replacing the soils with fill and grading. The PM₁₀ emissions for these activities are estimated to be approximately 0.07 ton for soil unloading, 0.69 ton for transport of fill, and 0.76 ton for grading.

Emissions will also result from exhaust of construction equipment such as trucks and graders. Construction equipment will produce emissions of CO, NO_x, VOC, PM₁₀, and SO₂. Estimated exhaust emissions were based on EPA emission factors for non-road diesel engines. CO, NO_x, and VOC emissions were estimated using EPA Tier 3 non-road emission standards (40 CFR 89). EPA's Tier 3 emission standards were phased in from 2006 to 2008 and apply to engines from 11 to 750 hp. On June 29, 2004, EPA established Tier 4 non-road emission standards that will be phased in from 2008 to 2015 (69 Federal Register 38958-39273). Tier 4 establishes lower emission standards for PM and NO_x and the requirement to use ULSD fuel. Some of the construction equipment will likely include engines meeting EPA Tier 4 emissions standards. EPA non-road diesel engine rules required the use of ULSD fuel in non-road engines starting in 2010 (EPA, 2008). The use of ULSD fuel will minimize SO₂ and PM₁₀ emissions from any Tier 3 engines. Based on the EPA emission factors and the estimated maximum number of vehicles, the CO, NO_x, VOC, PM₁₀, and SO₂ emissions during site preparation are estimated to be 1.47, 1.53, 0.08, 0.17, and <0.01 tons, respectively, for site preparation.

Fugitive PM₁₀ emissions may occur from wind erosion from open areas. The areas subject to wind erosion will generally be small due to the nature of construction activities and control measures taken, such as seeding. Fugitive PM₁₀ emissions from wind erosion have been estimated to be a total of 0.87 tons/year during the construction period.

Fugitive PM₁₀ emissions will also result from onsite construction traffic. Based on the average construction workforce, PM₁₀ emissions from paved and unpaved roads have been estimated to be a total of 8.79 tons during the construction period. Reasonable precautions pursuant to FDEP

Rule 62-296.320(4)(c)3., F.A.C., will be used to reduce the amount of fugitive emissions from onsite paved and unpaved roads (e.g., watering).

Once site preparation is complete, the construction of the 2-on-1 combined cycle unit and associated facilities will be initiated. Emissions will also result from construction equipment operating onsite with diesel and gasoline engines including cranes, trucks, compressors, etc. The CO, NO_x, VOC, PM₁₀, and SO₂ emissions are estimated to be 3.62, 4.30, 0.41, 0.21, and <0.01 TPY, respectively, during the erection of the component parts of the combined cycle unit.

Two temporary boilers may be used during construction of DBEC for chemical cleaning and steam blow activities. A description of the temporary and auxiliary boilers is contained in Appendix 10.2.5. The maximum emissions from the boilers are 18.5, 30.9, 1.2, 3.3, and 0.4 TPY for CO, NO_x, VOC, PM₁₀, and SO₂, respectively.

Table 5.5.1-1 includes emission estimates for construction activities at the construction support area and parking and laydown areas. Reasonable precautions pursuant to FDEP Rule 62-296.320(4)(c)3, F.A.C., will be used to minimize fugitive particulate emissions.

5.5.2 Control Measures

A number of control measures will be implemented during the construction period to minimize air emissions and potential impacts pursuant to FDEP Rule 62-296.320(4)(c)3, F.A.C. The Project Area will primarily consist of compacted soils that are difficult for wind to pick up, thereby reducing fugitive emissions due to wind. After grading, the untraveled or lightly used areas may be paved, provided with an erosion resistant covering, or vegetated to minimize fugitive PM and wind erosion. Watering on an as-needed basis will control fugitive dust from highly traveled areas.

5.6 SOLID WASTES

Solid waste materials generated during Project construction will be disposed of in accordance with applicable rules and regulations. Construction wastes, such as scrap wood and metal, will be transferred to a specified storage area on the Site where they will be separated and stockpiled for salvage and recycling. General waste materials (i.e., typical of MSW) will be collected in appropriate waste collection containers for disposal at an approved offsite location.

As described in Section 4.6 and listed in Table 4.6-1, there are a variety of potential solid waste streams resulting from the construction and operation of DBEC. During construction, the solid waste streams will be managed as presented in Table 4.6-1. Solvent rags will be separated and either laundered or

disposed appropriately. If aerosol cans are punctured prior to disposal, the residual contents will be collected and managed as hazardous waste. Paint waste, PVC cleaner, and PVC cement wastes will be minimized by implementation of programs requiring use of all material prior to issuance of additional material. All hazardous wastes will be collected onsite and disposed of by a licensed hazardous waste contractor. All non-hazardous waste will be managed according to the Waste Handling Guidelines identified in Table 4.7-1 with appropriate modifications to accommodate the construction of the Project.

Used oil from construction vehicles and equipment will be collected in appropriate containers and transported offsite for recycling or disposal at an approved facility. The approved disposal facility will be an existing facility that has been previously permitted for commercial recycling or disposal of used oils.

Individual contractors will be responsible for handling any hazardous materials used or created as part of their work. This responsibility includes the proper recordkeeping, transportation, storage, handling, and offsite disposal of such wastes. Contractors will be required to coordinate with FPL and provide documentation of all activities related to hazardous material and/or wastes.

5.7 IMPACT ON HUMAN POPULATIONS

Construction projects have the potential to affect human populations by altering demographic patterns; by placing demands on infrastructure elements such as housing, transportation, and educational facilities; by contributing noise to the environment; and by creating inconveniences due to the movement of workers, materials, and machinery.

Construction activities will be contained within the designated Site and will follow applicable regulations; practices to reduce potential disruption to surrounding areas and eliminate unnecessary air, noise, and traffic impacts will be maintained. Chapter 7.0 provides information on income, employment, tax revenue, and service needs associated with the construction workforce.

This section focuses on workforce requirements and the impacts of construction-related traffic, housing, education, and noise.

5.7.1 Construction Workforce

The construction workforce for the Project is expected to average approximately 290 workers during the period between 2020 and 2022. Peak construction is estimated at approximately 650 workers in mid-2021. Peak construction workforce skills are estimated as follows:

Trade	Percent	Trade	Percent
Laborers	12	Pipefitters	19
Carpenters	6	Insulators	2
Operators	5	Electricians	22
Ironworkers	4	Painters	1
Millwrights	10	Supervision	13
Boilermakers	6		

The available labor force in Broward County was 1.033 million, are reported in March 2017 (FLDEO, 2017), as detailed in Section 3.2.7-1. FPL will promote employment of local workers by distributing Project information to the community about types of jobs and skills required and local training opportunities.

5.7.2 Transportation and Traffic

Construction access will be from the southeast by SW 42nd Street (also known as SW 43rd Court) and Marina Road from the north. The construction workforce for the Project is expected to average approximately 290 workers during the period between 2020 and 2022. Peak construction is estimated at approximately 650 workers in mid-2021.

A detailed traffic analysis is contained in Appendix 10.7.2. This section summarizes the results of the construction traffic impacts.

The potential impact from construction traffic was based on all construction workers arriving to the construction parking areas by automobile with an occupancy rate of 1.3 workers per vehicle. This occupancy rate results in approximately 500 vehicles anticipated during the peak construction period. The following two scenarios were analyzed:

- All construction traffic entering/exiting via the SW 42nd Street entrance.
- All construction traffic entering/exiting via a north access route located just south of State Road 84.

The construction work-force trips were evaluated for the peak morning (a.m.) and evening (p.m.) periods using the existing peak construction and existing traffic. The results show that the nearby adjacent transportation network (Griffin Road, SW 42nd Street, State Road 84, and SW 30th Avenue) acceptable levels of service will be maintained and the additional peak construction traffic will not degrade the operating conditions.

A capacity/level of service analysis was also performed to evaluate the north and east entrances. The analysis was undertaken following the capacity/level of service procedures outlined in the Highway Capacity Manual. The result of the intersection capacity analysis for the future traffic with construction



trips indicates improvements to the north access or traffic management strategies at both access points should be employed to eliminate capacity deficiencies, as described in Appendix 10.7.2. The improvements are limited to re-striping the west leg (eastbound approach) of the intersection of SW 30th Avenue and Marina Road to include one inbound lane and two exit lanes, marked as dedicated left and right turn exit lanes. Traffic management for both access points includes police officer control during the peak AM and PM hours, staggering construction traffic over a longer period of time, or dividing construction access between the two access points. The Project will develop a traffic management plan to include the appropriate traffic management and improvements, as necessary, to maintain acceptable level of service for the access points.

5.7.3 Housing

Impacts on housing will depend on the number of workers that could potentially relocate and the type of housing the workers would desire. Although there is a significant labor pool in Broward, Miami-Dade and Palm Beach Counties, as discussed in Section 3.2.7.1, some of the construction labor will be specialized and could potentially come from areas outside these three counties.

Those workers that are not already residing in the region are expected to live in temporary housing, although some of these workers could select permanent housing for the duration of their stay. As discussed in Section 3.2.7.3, there is a significant amount of transient accommodations (i.e., public lodgings, vacation rentals, motels, and hotels, rooming house, and bed & breakfasts establishments) available in Broward County with additional availability with apartment establishments.

5.7.4 Education

Because of the short duration of employment (based on anticipated skill requirements and construction activities), few workers are anticipated to permanently relocate with their families. As a result, there will be little in-migration of school-aged children resulting from Project construction. Therefore, no significant adverse effects on local elementary, middle, or high school enrollment are anticipated.

5.7.5 Construction Noise Impacts

The impacts of noise on human populations are dependent upon the proximity of institutional and residential land uses to construction activities and the type and extent of noise sources. The nearest residential locations that could potentially be impacted by the construction activities are south of the Site boundary.

Construction will require installation of foundations and erection of major components of the combined cycle unit such as the CTs, HRSGs, auxiliary cooling system, and steam turbine generator, and associated facilities. The use of construction equipment such as trucks, cranes, lifts and air compressors

will be required. These sources have noise levels ranging from approximately 70 to 85 dBA (measured at a distance of 50 ft).

The evaluation of noise impacts from Project construction activities was performed using results from a noise propagation computer program (Computer Aided Noise Abatement, CadnaA) to estimate noise source levels. Noise source levels are entered as octave band SPLs. The user can specify coordinates, either rectangular or polar. All noise sources are assumed to be point sources; line sources can be simulated by several point sources. Sound propagation is calculated by accounting for hemispherical spreading and three other user identified attenuation options: atmospheric attenuation, path specific attenuation, and barrier attenuation. Atmospheric attenuation is calculated using International Organization for Standards, ISO 9613-1, *Attenuation of Sound During Propagation Outdoors – Part 1: Calculation of the Absorption of Sound by the Atmosphere*. Path specific attenuation can be specified to account for the effects of vegetation, foliage, and wind shadow. Direction source characteristics and reflection can be simulated using path specific attenuation. Attenuation due to barriers can be calculated using the coordinates and height of the barrier. Barrier attenuation is calculated by assuming an infinitely long barrier perpendicular to the source-receptor path. No barriers were included during construction modeling. Total and A-weighted SPLs (filtered to approximate human hearing) are calculated. Background noise levels are combined with the model results to calculate overall SPLs.

The model was performed to predict the maximum noise levels produced by a combination of likely noise sources with and without background noise levels. A conservatively high estimate of construction equipment was assumed to calculate construction noise levels. Two types of construction activities were modeled: one during the daytime including weekends when several types of heavy equipment including pile drivers are operated and one during the nighttime including weekends when lighter construction activities occur, such as mechanical and electrical installation that use much less heavy equipment.

Table 5.7.5-1 lists the major categories of equipment that will be used during the construction of DBEC and their associated noise characteristics. Most of the heavy construction activities are expected to occur during the daytime hours, but some nighttime activities are expected and were included in the modeling results.

The noise levels resulting from these combinations of equipment were input as multiple sources into the model. Octave bands were estimated from field measurements collected by Golder and from *Noise from Construction Equipment and Operations, Building Equipment, and Home Appliances* (EPA, 1971). Only the atmospheric attenuation and ground absorption options were enabled during the noise modeling runs.

Figure 5.7.5-1 presents the predicted noise impact contours for the construction noise sources presented in Table 5.7.5-1. Table 5.7.5-2 presents the existing, modeled, and overall sound levels during construction that were predicted at the eight monitoring locations described in Section 3.3.7. Three monitoring locations (1, 5 and 7) were in residential areas south of the Site, three monitoring locations on or near the Site boundary (2, 3 and 8), and two monitoring locations near roadways/commercial areas (4 and 6). The results can be considered conservative since the background includes operation of Units 4 and 5 that will not be operating. In addition, it is unlikely that all of the equipment listed in Table 5.7.5-1 would operate in accordance to their usage rate on the same day.

There are no State of Florida noise regulations that are applicable for the construction of the Project. The Project is located within the City of Dania Beach, which has a noise ordinance codified in Chapter 17, Article IV Noise, Sections 17-79 through 17-90, City of Dania Beach Code of Ordinances. Section 17-86 establishes maximum permissible sound levels for residential (noise sensitive areas and public space), multifamily dwelling, commercial (convention) and industrial receiving land uses.

Construction activities are exempt from the maximum permissible sound levels except that the industrial sound level limits apply in all land use categories. The industrial sound level limit for industrial land use is 75 dBA. Section 17-88(f) provides a prohibition of construction noise operating within 50 meters (164 feet) of any residential or noise sensitive area between the of 9:00 p.m. to 7:00 a.m. on weekdays and Saturdays, and 9:00 p.m. to 8:00 a.m. on Sundays and holidays. Emergency work is excluded. The residential areas are greater than 50 meters from construction activities. Therefore, the sound level limit for industrial land uses would apply.

The City of Hollywood has a noise ordinance that prohibits unreasonably loud noise as a nuisance and limits construction activities to certain daytime periods (City of Hollywood Code of Ordinances, Sections 100.02 Unreasonably Loud Noise Prohibited and 100.05 Additional Limitation for Construction Activity). The periods allowed for construction activities are 7:00 a.m. to 6:00 p.m. Monday through Fridays and from 8:00 a.m. and 6:00 p.m. on Saturdays. The area of the Project that is within the City of Hollywood will be used mainly for construction laydown and maintenance and will not include normally operating plant equipment. As a result, noise generated from this area will be intermittent and involve using equipment that generate low amount of noise. In addition, the predicted noise level of major construction are less than 50 dBA in residential areas of the City of Hollywood located south of Griffin Road (Figure 5.7.5-1). These predicted sound levels are well below noise levels that would be considered unreasonably loud.

Broward County also has a noise ordinance that sets maximum allowable sound levels (Broward County, Code of Ordinances, Part II, Chapter 27 - Pollution Control, Article VII - Noise, Ordinance



No. 2003-07). Operation of any tools or equipment used in construction, drilling, dredge and fill, or demolition work is exempt from the maximum allowable sound levels from 7:00 a.m. to 7:00 p.m. For residential land use, the maximum allowable sound level is 55 dBA (L_{50}). In accordance with Broward County Code of Ordinances, a source of sound shall not be considered in violation if the measured sound level exceeds background sound levels by less than 5 dBA.

The results in Table 5.7.5-2 for the noise monitoring stations located in residential areas are all predicted to comply with the City of Dania Beach and Broward County numerical sound level limits for construction. All predicted noise levels at the monitoring locations, including conservative background noise levels, are much less than 75 dBA during the daytime and do not exceed 55 dBA during the nighttime. Construction noise levels in the residential areas of the City of Hollywood will be 50 dBA or less.

5.7.6 Lighting

The majority of construction activities will occur during the daytime. Some nighttime construction activities may occur and will mainly be related to specific construction/equipment installation tasks that must continue until completion. Nighttime lighting will be localized and specific to each task. The Lauderdale Site has existing outdoor lighting that is necessary to satisfy FERC, OSHA and FAA requirements for security, worker and plant safety, including lighted walkways, parking areas and various equipment areas and stacks. Lighting for construction may be installed in some areas, including the Site entrance, work areas, construction trailers, and laydown areas. Cranes may require temporary visual aircraft lighting. The lighting associated with construction will be temporary, localized and confined to areas requiring specific task as well as lighting necessary for security. As a result, adverse impacts from construction lighting are not expected to occur off-site.

5.8 IMPACT ON LANDMARKS AND SENSITIVE AREAS

As discussed in Subsection 3.2.5 Regional, Scenic, Cultural, and Natural Landmarks, there are two locations designated as Outstanding Florida Waters (Hollywood North Beach Park and West Lake Park), fifteen Broward County Regional Parks and Neighborhood Parks, and over 100 municipal parks within 5 miles of the Site (Figures 3.2.1-2a through c). .

Project construction activities will be contained within the existing Site and will meet all regulatory requirements for the activities and associated equipment. Construction activities will not result in changes to the accessibility or use of these facilities and construction traffic patterns will be kept to major thoroughfares and away from residential streets. No impacts to the use of regional, scenic, cultural or natural landmarks are anticipated from Project construction at any other public recreational facilities.



Emissions of fugitive PM resulting from site preparation, and construction of DBEC will be mitigated through BMPs. Construction noise is anticipated to be at or near existing noise levels and comply with the applicable noise ordinances. Temporary cranes may be visible offsite from some vantage points. Visual impacts will be minor since the construction equipment such as cranes will be similar in height than the four existing stacks for Units 4 and 5 and lower in height compared to the stack associated with the nearby Wheelabrator South Broward Inc., South Broward County Resource Recovery Facility.

5.9 IMPACT ON ARCHAEOLOGICAL AND HISTORIC SITES

Archaeological and Historical Conservancy, Inc., conducted a Phase I cultural resource assessment of the Project Area in June 2017 (Appendix 10.7.1). Based on the assessment, it was determined that the Project Area contains no significant archaeological or historic resources that would be eligible for listing in the National Register of Historic Places.

A consistency determination letter from the Florida Department of State, Division of Historical Resources will be provided upon receipt.

5.10 SPECIAL FEATURES

There will be no unusual products, raw materials, solid waste disposal, incinerator effluents, or residues produced during construction of the Project that will have influence on the environment or ecological systems of the Site or adjacent areas.

5.11 BENEFITS FROM CONSTRUCTION

The construction phase of the Project will contribute both short- and long-term economic benefits to the surrounding region. Construction benefits will include construction employment that will average several hundred over the construction period. Construction wages will increase the demand for goods and services in the region. Direct purchases of construction materials will have both direct and indirect economic benefits. This includes construction materials (e.g., concrete and steel for foundations), rental equipment (e.g., construction cranes, pumps), food services, and transportation services. Chapter 7 provides a detailed description of Project benefits.

TABLES

TABLE 5.5.1-1
ESTIMATED AIR EMISSIONS DURING SITE PREPARATION AND CONSTRUCTION OF PROJECT

Construction Activity	Type Operation	Amount	Units	Pollutant	Emissions	Units	Controls
Demolition/Site Preparation							
Soil removal and Fill Placement	Batch Drop	422,280 tons		PM ₁₀	0.07 tons		Moderate moisture material
Soil and Fill Movements	Unpaved Roads	3,076 VMT		PM ₁₀	0.69 tons		Watering as necessary
Grading	Unpaved Roads	7,712 VMT		PM ₁₀	0.76 tons		Watering as necessary
Equipment Emissions	Diesel Engines	27,169 gallons		PM ₁₀	0.08 tons		EPA Non-Road Tier 3
				NO _x	1.53 tons		EPA Non-Road Tier 3
				SO ₂	< 0.01 tons		EPA Non-Road Tier 3
				CO	1.47 tons		EPA Non-Road Tier 3
				VOC	0.17 tons		EPA Non-Road Tier 3
Open Areas	Wind Erosion	10 acres		PM ₁₀	0.87 TPY		Watering as necessary
Construction Worker On-site Traffic	Paved Roads	7,140 VMT/yr		PM ₁₀	8.79 TPY		Watering/Sweeping as necessary
Facilities Construction	Diesel Engines	87,360 gal/yr		PM ₁₀	0.21 TPY		EPA Non-Road Tier 3
				NO _x	4.30 TPY		EPA Non-Road Tier 3
				SO ₂	0.01 TPY		EPA Non-Road Tier 3
				CO	3.62 TPY		EPA Non-Road Tier 3
				VOC	0.41 TPY		EPA Non-Road Tier 3
Construction Boilers	Construction steam (2 boilers, 1,500 hours)	150 MMBtu/hr		PM ₁₀	3.3 tons		Good combustion practices
				NO _x	30.9 tons		Good combustion practices
				SO ₂	0.4 tons		Good combustion practices
				CO	18.5 tons		Good combustion practices
				VOC	1.2 tons		Good combustion practices

Note: VMT = vehicle miles traveled; acres based on open areas at any one time.
The following EPA emission factors were used to estimate emissions.
EPA, 1992 Fugitive Dust Background and Technical Information Document for Best Available Control Measures;
Section 2.3.1.3.3, Wind Emissions from Continuously Active Piles.
EPA, 2006a; AP-42, Section 13.2.1 Paved Roads.
EPA, 2006b; AP-42, Section 13.2.2 Unpaved Roads.
EPA, 2006c; AP-42, Section 13.2.4 for Aggregate Handling and Storage Piles.
EPA, 2006d; AP-42, Section 13.2.5 Industrial Wind Erosion.
EPA, 2008; 40 CFR Part 89 Control of Emissions of New and In-use Compression Engines.



TABLE 5.7.5-1
SUMMARY OF NOISE SOURCE DATA USED TO PREDICT SOUND PRESSURE DURING THE CONSTRUCTION OF DBEC

Sources	Source Height (m)	Sound Power Level (dB) for Octave Band Center Frequency (Hz)									Overall Sound Power Level (dBA)	Equipment Usage Factor ^a
		31.5	63	125	250	500	1000	2000	4000	8000		
Onsite												
Welder	2	0	102.6	110.6	105.6	98.6	98.6	93.6	88.6	84.6	103.6	0.5
Welder	2	0	102.6	110.6	105.6	98.6	98.6	93.6	88.6	84.6	103.6	0.5
Welder	2	0	102.6	110.6	105.6	98.6	98.6	93.6	88.6	84.6	103.6	0.5
Welder	2	0	102.6	110.6	105.6	98.6	98.6	93.6	88.6	84.6	103.6	0.5
Front End Loader	2	0	111.6	118.6	116.6	114.6	109.6	104.6	98.6	92.6	115.6	0.5
Front End Loader	2	0	111.6	118.6	116.6	114.6	109.6	104.6	98.6	92.6	115.6	0.5
Portable Light Gen - 1	2	0	102.6	110.6	105.6	98.6	98.6	93.6	88.6	84.6	103.6	0.5
Portable Light Gen - 2	2	0	102.6	110.6	105.6	98.6	98.6	93.6	88.6	84.6	103.6	0.5
Dump Truck Volvo A25E	2	67.2	72.2	85.7	91.8	98.3	99.3	98.2	94.0	88.0	103.9	0.5
Dump Truck Volvo A25E	2	67.2	72.2	85.7	91.8	98.3	99.3	98.2	94.0	88.0	103.9	0.5
Dozer 2-CatD10/D11/D7 LGPa	2	0	103.0	115.0	106.0	107.0	103.0	101.0	97.0	87.0	109.1	0.5
Excavator - Komatsu PC 300	2	67.5	81.0	92.6	97.1	99.0	100.2	100.0	93.7	87.8	105.0	0.5
Excavator - Komatsu PC 301	2	67.5	81.0	92.6	97.1	99.0	100.2	100.0	93.7	87.8	105.0	0.5
Pile Driver	2	130.6	131.6	126.6	115.6	118.6	121.6	123.6	116.6	109.6	127.5	0.1

^a Equipment Usage Factor is based on *Noise From Construction Equipment and Operations, Building Equipment, and Home Appliances*, Appendix A.

^b Equipment modeled both during the daytime and nighttime.

TABLE 5.7.5-2
EXISTING AND PREDICTED SOUND PRESSURE LEVELS
FOR THE CONSTRUCTION OF DBEC

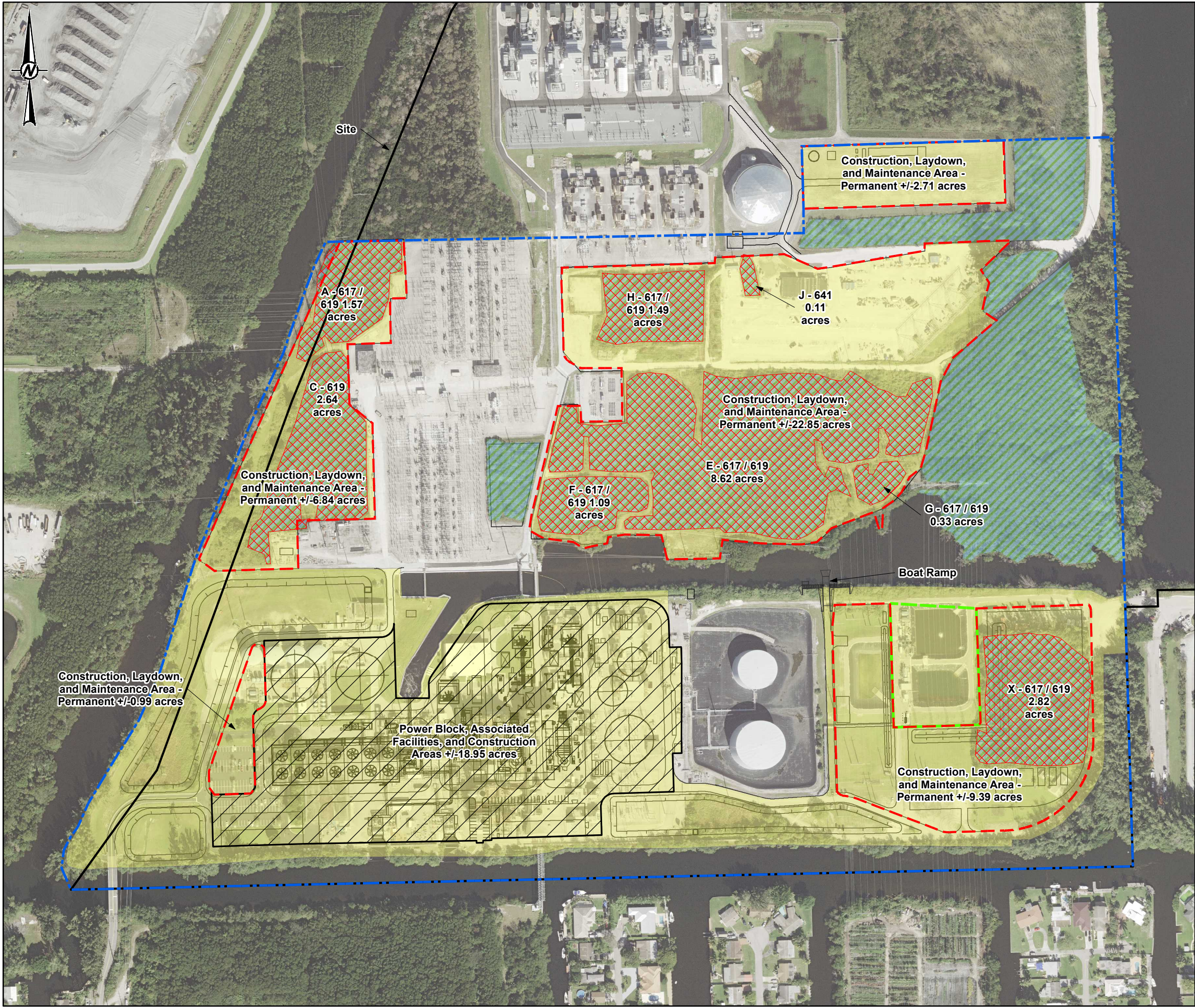
Monitoring Locations	Time	Sound Levels (dBA)		
		Existing	Modeled	Predicted ^a
1: Western Entrance Gate (from SW 42nd Avenue)	Afternoon ^b	54	54	57
	Night ^c	54	50	55
	Morning ^b	55	54	57
2: Eastern Entrance Gate (from SW 42nd Street)	Afternoon ^b	53	47	54
	Night ^c	47	44	48
	Morning ^b	50	47	52
3: North of site, located within site boundaries	Afternoon ^b	46	41	47
	Night ^c	47	37	47
	Morning ^b	49	41	50
4: North of Project, located on Canel Rd, just off of I595 and SR 84	Afternoon ^b	64	31	64
	Night ^c	49	27	49
	Morning ^b	58	31	58
5: Neighborhood south of plant on SW 38th Terrace	Afternoon ^b	57	59	62
	Night ^c	48	54	55
	Morning ^b	57	59	61
6: West of Project in U-Pull-it parking lot on SR-7	Afternoon ^b	62	45	62
	Night ^c	50	41	51
	Morning ^b	57	45	57
7: Neighborhood southwest of Project on SW 35th Ave.	Afternoon ^b	50	50	53
	Night ^c	41	44	46
	Morning ^b	51	50	54
8: 24-Hour Site: Onsite SW of Project	Day ^b	57	64	64
	Night ^c	52	58	59

^a Modeled results logarithmically added to the existing baseline measurements.

^b L₉₀ sound levels collected in October 2013; includes operation of Units 4 and 5.

^c L₉₀ sound levels collected in December 2016; includes operation of Units 4 and 5 and Units 6A and 6B.

FIGURES



- LEGEND
- Site
 - DBEC Project
 - Open Use Area - Permanent (±2.23 acres)
 - Construction, Laydown, and Maintenance Area - Permanent (±42.78 acres)
 - Power Block, Associated Facilities, and Construction Areas (±18.95 acres)
 - Area of Land Impact
 - Wetlands
 - Permanent Wetland Impacts (±18.67 acres)

REFERENCE(S)
SITE, A.R. TOUSSAINT & ASSOCIATES INC., 1989
CONSTRUCTION LAYDOWN & MAINTENANCE AREAS, BLACK & VEATCH, 2017
DBEC PROJECT AREA, WETLAND BOUNDARIES, WETLAND IMPACTS, GOLDBER
ASSOCIATES INC., 2017

CLIENT
FPL

PROJECT
DANIA BEACH ENERGY CENTER

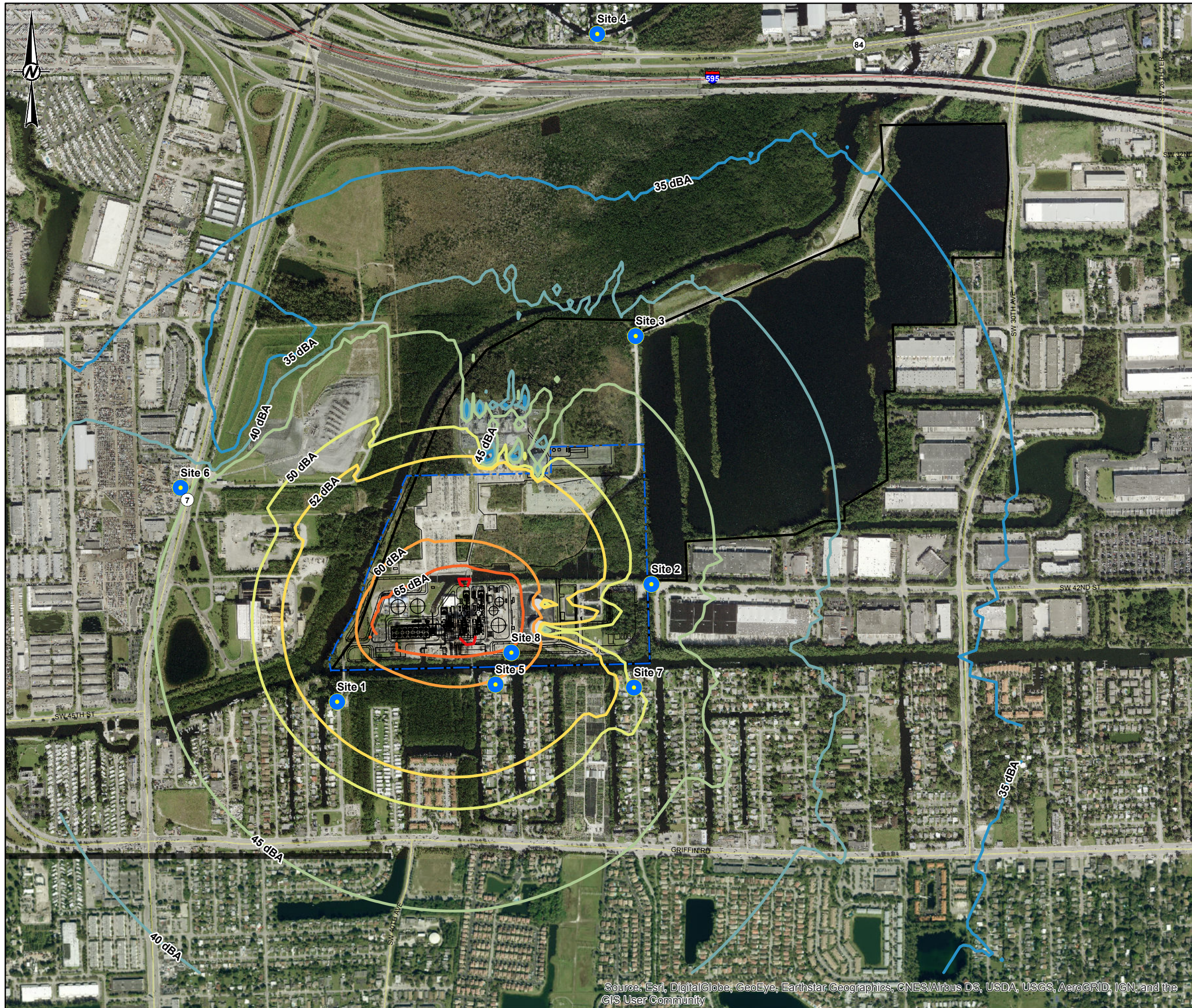
TITLE
AREA OF LAND IMPACTS

YYYY-MM-DD	2017-07-24
DESIGNED	NRL
PREPARED	JGW
REVIEWED	KAB
APPROVED	KFK

PROJECT NO. 1773823 CONTROL F016 REV. 0

FIGURE 5.4-1

G:\PROJECTS\FPL\Danish_Beach_Energy_Center\09_PROJECTS\1773823_SCAN02_PRODUCTION\1773823_F021_Noise_ConstructionImpacts.mxd



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the
GIS User Community

LEGEND

- Site
- DBEC Project Area
- Receptors

Construction Noise Contours

- 35 dBA
- 40 dBA
- 45 dBA
- 50 dBA
- 52 dBA
- 60 dBA
- 65 dBA
- 70 dBA

REFERENCE(S)

SITE, A.R. TOUSSAINT & ASSOCIATES INC., 1989
FACILITY LAYOUT, BLACK & VEATCH, 2017
DBEC PROJECT AREA, NOISE RECEPTORS, NOISE CONTOURS; GOLDER ASSOCIATES INC.,
2017

CLIENT

FPL

PROJECT

DANIA BEACH ENERGY CENTER

TITLE

CONSTRUCTION NOISE IMPACT
CONTOURS



YYYY-MM-DD	2017-06-23
DESIGNED	NRL
PREPARED	NRL
REVIEWED	KAB
APPROVED	KFK

PROJECT NO.
1773823

CONTROL
F021

REV.
0

FIGURE
5.7.5-1

1" IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

6.0 EFFECTS OF PLANT OPERATION

6.1 Effects Of The Operation Of The Heat Dissipation System

Heat is a necessary byproduct of the generation of electricity. While a significant portion of the thermal energy produced from the fuel is converted to electrical energy by the combustion turbine generators, a portion is absorbed by cooling water flowing through the condenser tubes to condense the steam in the steam turbine. The DBEC will use high-efficiency combined cycle technology to produce electricity, and will be more energy efficient than the existing Lauderdale Units 4 and 5. While DBEC will provide approximately 25 percent more power, the Project does not propose a new or an expanded surface water discharge. To accomplish this, DBEC will use a hybrid cooling system design – once-through condenser cooling, with an auxiliary cooling system and the existing cooling pond for heat dissipation. The hybrid design does not increase the water withdrawal rate from the Dania Cutoff Canal, or increase the heat load to the cooling pond or the receiving water body (i.e., South Fork New River). Under the same meteorological conditions, the annual average daily flow (AADF) from IWW Outfall D-001 to the South Fork New River will be no greater than the existing permitted discharge and the thermal heat load to the South Fork New River will be no greater than the existing power plant. All existing effluent limitations for Outfall D-001 will be met by DBEC. Furthermore, since the withdrawal rate from the Dania Cutoff Canal will not increase, the through-screen velocity through the cooling water intake structure will not increase.

This cooling system design ensures that the DBEC will have no adverse impact on the thermal discharge, no adverse impact on impingement or entrainment of fish or shellfish, and DBEC will continue to meet current water quality effluent limits at the discharge from the cooling pond. There will be no adverse impacts from operation of the heat dissipation system and no water quality degradation.

6.1.1 *Temperature Effect On Receiving Body Of Water*

DBEC will comply with the existing IWW permit discharge temperature limits. There will be no adverse impacts from operation of the heat dissipation system.

6.1.2 *Effects On Aquatic Life*

The Clean Water Act (CWA) Section 316(b) studies required by applicable provisions of 40 CFR 122.21(r) are in process pursuant to the schedule established by the current IWW/NPDES Permit (Permit Conditions VI.4.a and VI.4.b) and the Plan of Study submitted to FDEP. All applicable 122.21(r) forms, reports and material will be submitted as soon as practicable but no later than 180 days prior to the expiration date of the permit (June 24, 2020). FPL will comply with the 316(b)

requirements at DBEC, as required by the BTA Determination, after the BTA determination has been finalized.

6.1.3 *Biological Effects Of Modified Circulation*

Because the cooling water flow for DBEC will be withdrawn from the same location and the cooling water discharge will be via the existing cooling pond, the circulation patterns will not change.

6.1.4 *Effects Of Off-Stream Cooling*

The potential impacts of off-stream cooling using the auxiliary cooling system for a portion of the cooling requirements were addressed by performing plume dispersion analyses that predicted impacts with respect to:

- Plume length;
- Plume height;
- Plume fogging;
- Plume icing; and
- Salt (from TDS) deposition.

Two air quality dispersion models were used in these analyses to address the effects of off-stream cooling for the Project. These models are the California Puff (CALPUFF) model and the American Meteorological Society and EPA Regulatory Model (AERMOD) dispersion model.

The CALPUFF model (version 5.8.5) was used to determine the fogging and icing potential due to the auxiliary cooling system. The CALPUFF model can be configured to analyze the fogging and icing impacts due to emissions from sources, such as the auxiliary cooling systems, with the use of a pre-processor program called the Cooling Tower Emissions Processor (CTEMISS) and post-processor programs.

The AERMOD dispersion model (version 1621r) was used to determine potential mineral deposition due to the auxiliary cooling system.

Both air dispersion models were also used to predict ambient pollutant concentrations for the Project and are described in more detail in Subsection 6.6 and Appendix 10.2.5. These dispersion models are approved by EPA for determining ambient air pollutant concentrations and have capabilities to assess fogging impacts (CALPUFF) and solids deposition (AERMOD).

The following sections present the methods and assumptions used in these models to address the effects of off-stream cooling due to the auxiliary cooling system.

6.1.4.1 Auxiliary Cooling System Visibility

The visible plume from an auxiliary cooling system is a result of the mixing of the saturated exhausts from the auxiliary cooling system with the ambient air, and the resultant mixture is beyond the atmosphere's ability to accommodate the entrained moisture as a gas. At this point, the moisture in the mixture condenses and forms a visible water vapor plume. The ability for air to accommodate water as a gas depends on the temperature and barometric pressure. For example, at an ambient temperature of 90°F, the air is capable of accommodating almost six times more water vapor (as mass) than at 40°F. With the auxiliary cooling system proposed for the Project, plumes are typically more visible and at greater plume lengths during the winter months than during the summer.

The CTEMISS program was used to create a variable emission rate file for CALPUFF for water vapor within the plume from the auxiliary cooling system. The CTEMISS program reads fixed inputs, such as emissions characteristics (exit velocity, exit temperature, and water emission rate) and building data. Meteorological data in the format used by the Industrial Source Complex Short-term (ISCST) model are used. CALPUFF models the dispersion of the water contained in the plume and provides cloud information in a specialized format for further analysis. CALPUFF output is provided to the FOG.DAT file and can be run in either 'plume mode' or 'receptor mode.'

Five years of surface meteorological data for 2001 through 2005 from the closest primary National Weather Service station (MIA airport) were used in the CTEMISS program. The surface and mixing height data were first processed using EPA's PCRAMMET processor to create ISCST model-compatible meteorological data, which are read by the CTEMISS program. The meteorological data for FPR are the same data approved by FDEP for determining air pollutant concentrations using these models.

The stack data and meteorological data used to determine potential fogging and icing impacts are identical to those used in the air dispersion modeling and presented in Subsection 6.6.

The emission rate file created by the CTEMISS program was used and the CALPUFF model was run in both plume and receptor modes. The CALPUFF model created a FOG.DAT file, which was then input to the post-processor programs, POSTPM and SUMPOST, which operate on the fog plume-mode output to characterize visible plume height and length statistics. The post-processor program POSTRM

operates on the fog receptor-mode output to characterize the frequency of possible fogging and icing events at specific locations.

In the plume mode, information on the plume heights and plume lengths are generated for each hour. The program provides output that excludes hours when fog, clouds, and/or precipitation are occurring. In the receptor mode, discrete receptors are located in a receptor grid covering the Plant Site and adjacent areas.

The CALPUFF model's plume mode results are presented in Table 6.1.4-1 for all hours and daylight hours. Periods when fog, heavy cloud conditions, and/or precipitation are occurring are removed from the analysis consistent with air quality visibility assessments. In such meteorological conditions, visible vapor plumes are obscured by natural weather conditions. This table presents the information seasonally and annually. The primary factors in the visible appearance of the plume are the height and length of the plume.

The modeling results indicate that visible vapor plumes from the auxiliary cooling system are predicted to be confined to an area that is very close to the auxiliary cooler throughout the year. The results for all hours and daylight-only hours indicate that, for the majority of the time (>90% of the time), plume heights will be less than 200 meters and plume lengths will be less than 100 meters (>65% of the time). For both nighttime and daytime hours, plumes heights greater than 200 meters occurs about 20 hours per year. Plume lengths greater than 100 meters occurs about 2,100 hours per year for all hours including nighttime, while plume lengths greater than 100 meters occurs about 910 hours per year for daylight-only hours.

Neither ground-level fogging nor any other plume effect is predicted to occur at the Site property boundary or on the nearest roadways to the Site.

6.1.4.2 Auxiliary Cooling System Deposition

Deposition from the auxiliary cooling system will depend upon the quality of water withdrawn from the Dania Cutoff Canal. Since the TDS in the Dania Cutoff Canal varies, the maximum and average TDS values were used to estimate annual and maximum monthly deposition. The auxiliary cooling system provides cooling by evaporation. Since there is no recirculation of the entire flow to the auxiliary cooling system the TDS concentration remains materially unchanged. The estimated TDS is increased by approximately 1 percent. Using the maximum and average TDS in the Dania Cutoff Canal

and 5 years of meteorological data provides a conservative estimate of auxiliary cooling system deposition rates. Table 6.1.4-2 presents the size distribution of the drift particles as PM.

The maximum monthly deposition predicted from the auxiliary cooling system to locations at varying distances is presented in Table 6.1.4-3. The table shows the monthly deposition over the five-year period for which the analysis was performed. The average predicted deposition of an area within a radius of 5 km from the auxiliary cooling system and the maximum predicted salt deposition over several distances are presented in Table 6.1.4-3.

The maximum predicted monthly deposition rate of 4.5 kg/ha/month occurs about 700 meters (0.4 mile) from the auxiliary cooling system when using the average TDS in the circulating water of about 9,000 ppmw from the Dania Cutoff Canal. The deposition rates are predicted to decrease rapidly beyond this distance. At a distance of 2,000 meters (1.24 miles), the maximum monthly deposition rate decreases to less than 1 kg/ha/month.

Several studies have been conducted to determine deposition, including the Florida Acid Deposition Study (FADS) conducted in the mid-1980s and the Florida Atmospheric Mercury Study (FAMS) conducted in the mid-1990s. FADS measured major anions and cations in dry and wet deposition, while FAMS measured the major anions and cations in wet deposition. According to data collected as part of FADS (1986), which measured deposition over many locations in Florida, background mineral deposition in the southern peninsula of Florida is about 4 to 6 kg/ha/month. The maximum predicted deposition beyond 1 km of the auxiliary cooling system, as shown in Table 6.1.4-3, is less than the natural background deposition.

Potential impacts to vegetation and soil may result from deposition of auxiliary cooling system drift. A majority of available research on the impacts of deposition from cooling systems is from the use of makeup water that contains appreciable quantities of salt [i.e., sodium (Na^+) and chloride (Cl^-)]. Several plant species are considered to have very low resistance to salt. These species are flowering dogwood (*Cornus florida*), American sycamore (*Platanus occidentalis*), sassafras (*Sassafras albidum*), and arrowwood (*Viburnum dentatum*). Several studies have been conducted with dogwood because it is a reliable bioindicator of salt damage. The leaf injury threshold of dogwood has been calculated to be 750 kg/km²/month (7.5 kg/ha-mo; Curtis *et al.*, 1976), 517 kg/km²/month (5.17 kg/ha/month; Davis, 1979), and 375 kg/km²-mo (3.75 kg/ha/month; Freudenthal and Beals, 1978). In addition to flowering dogwood, Townsend (1980) found that American sycamore was equally sensitive to sodium chloride. McCune *et al.* (1977) found that white ash was more susceptible than dogwood to saline cooling system

drift. Susceptibility to foliar injury from saline aerosols also varies with the developmental stage of the leaf. McCune et al. (1977) found that younger leaves of deciduous woody species were more sensitive to saline aerosols than older leaves; whereas, year-old needles of conifers were more susceptible to saline aerosols. Grattan et al. (1981) reported that young tomato and pepper leaves (<3 cm in length) were more severely injured than older, fully developed leaves. These values are within the range of natural background deposition and are not anticipated to result in any adverse impacts to vegetation in the vicinity.

Environmental factors, other than salt drift concentration, can affect species response to cooling system drift. Temperature influences ion absorption rates, with absorption rates decreasing as temperature decreases (Smith and Robinson, 1971). Rainfall amounts also influence symptomatic response of plants to salt drift. Mulchi and Armbruster (1981) observed that above-normal amounts of rainfall delayed the onset of foliar symptoms, whereas below normal amounts of rainfall tended to promote the onset of symptoms and to enhance the magnitude of symptom expression for both corn and soybeans.

As noted above, the frequency of rainfall is an important component in the potential impacts to vegetation. The average number of days per year with precipitation greater than 0.01 inch is 135 days per year based on meteorological data from the closest National Weather Service (NWS) station. This frequency of a measurable amount of precipitation would reduce the potential impact from auxiliary cooling system deposition.

Vegetation can also be affected by absorbing salts that accumulate in the soil. Accumulation will occur if the annual deposition rate of salt exceeds the rate at which salt is leached from the soil by rainfall. Auxiliary cooling system drift deposition from DBEC would be greatly diluted by rainfall. The maximum predicted off-Site deposition is 4.5 kg/ha-month would result in an increase in the average TDS concentration of less than 5 mg/L when dilution from rainfall is taken into account. This concentration is significantly less than the TDS concentration in surficial groundwater and surface waters. At locations farther from the auxiliary cooling system any soil accumulation would be even less since deposition rates drop significantly with distance.

When taken together, based on the water quality, low deposition rates, area of deposition impact, frequency of rainfall, and quality of the drift particles, no adverse effect to vegetation from auxiliary cooling system drift or accumulation in the soils is anticipated.

6.1.5 Measurement Program

Since no significant impact to surface water quality is expected, no additional monitoring of surface water is proposed. Because there are no significant adverse ecological impacts due to the proposed heat dissipation system, no biological monitoring is proposed.

6.2 Effects Of Chemical and Biocide Discharges

6.2.1 Industrial Wastewater Discharges

The operation of the DBEC will not require any additional industrial discharges. The auxiliary cooling system will evaporate between 0.5 percent and 1.5 percent of the circulating water flow, which will result in a marginal increase in constituent concentrations at the discharge canal, but still remain well within the current authorization of the IWW Permit.

6.2.2 Cooling Tower Blowdown

The DBEC hybrid cooling system will not have traditional cooling towers. DBEC will not have any cooling tower blowdown because the auxiliary cooling system is integrated with the once-through system. Chemicals may be added to the auxiliary cooling system to control water quality, scaling and biological growth and meet the requirements of the IWW Permit.

6.2.3 Measurement Programs

The measurement program associated with the IWW Permit (see Appendix 10.2.2) will be adequate for measuring the physical and chemical parameters of waters that may be affected by operation of DBEC.

6.3 Impacts On Water Supplies

6.3.1 Surface Water

There will be four discharges to surface waters required for the operation of the Project, one stormwater outfall to the Dania Cutoff Canal, two intake screen wash water return to the Dania Cutoff Canal, and the cooling pond outfall to the South Fork New River. All four outfalls are to Class III Marine Waters that are not used for potable supply.

As discussed above in Section 6.2, there will be no adverse impacts from operation of the heat dissipation system and no water quality degradation. After treatment through oil/water separators, contact stormwater will be released to stormwater ponds or the discharge canal. Non-contact stormwater also will be routed to and treated in stormwater ponds. There will be no direct discharge to surface waters. Stormwater in the ponds will percolate, evaporate or be released to the Dania Cutoff Canal or discharge canal (see Appendix 10.8 for the Stormwater Management Plan). No increase in

the authorized amount of wastewater discharge is required as a result of the Project. Therefore, the Project will have no adverse impact to surface water.

Appendix 10.9 presents a discussion of alternative water sources. The only feasible surface water alternative for cooling purposes at DBEC is the Dania Cutoff Canal. The Dania Cutoff Canal has been the source of once-through cooling water for the Lauderdale Site since 1927; and it continues to be environmentally, technically, and economically the best choice available for this purpose. The circulating flow produced by the cooling system helps to maintain water quality in the Dania Cutoff Canal, the adjacent canals, the cooling pond and the South Fork New River.

6.3.2 Groundwater

The DBEC will not use onsite groundwater wells and is not proposing a new groundwater source. Therefore, DBEC will have no adverse impact to groundwater. DBEC will continue to acquire process water from the existing water contract with Broward County.

Appendix 10.9 presents a discussion of alternative water sources. Water from the City of Hollywood will continue to be used for potable and irrigation supplies. The quantity and quality is more reliable and consistent than water withdrawn from onsite wells because it is produced by an integrated water supply system that is further away from salinity sources. The only feasible source of process water for DBEC is to continue to use the raw water supply from Broward County. The Broward County raw water supply is a feasible source of water because the source is reliable and the water quality is stable; therefore, the cost of treatment is minimized.

6.3.3 Drinking Water

The Project will continue to use municipal potable water from the City of Hollywood to provide drinking water for employees and for landscape irrigation. There is no increase in employment at the Site as a result of the Project and no associated potable water use increase for potable supply or irrigation purposes. Therefore, there will be no impact to drinking water sources from the Project.

6.3.4 Leachate and Runoff

Operation of the DBEC will not generate leachate and the stormwater management system has been designed to prevent direct discharge to surface waters. Therefore, there will be no adverse impact to water supplies due to runoff or leachate from the Project.

6.3.5 Measurement Programs

No additional monitoring or measurement programs are proposed.

6.4 Solid/Hazardous Waste Disposal Impacts

As discussed in Section 4.7, the potential solid and hazardous waste associated with the operation of DBEC will be handled according to the waste-handling guidelines presented in Table 4.7-1.

6.4.1 Solid Waste

Operation of DBEC will generate only minor amounts of solid wastes (e.g., used turbine inlet filters, operations and maintenance wastes, MSW, and water pretreatment solids). As explained in Section 4.7, all solid wastes generated during operation would be recycled for on-site reuse, disposed of in appropriately licensed offsite landfills, or disposed of by other approved methods. There will be no adverse impacts resulting from solid waste generated by the Project.

6.4.2 Hazardous Waste

The handling of any hazardous wastes resulting from the operation of the Project is described in Section 4.7. FPL will contract with an approved and licensed disposal company to transport and dispose of small quantities of hazardous waste at licensed facilities in a manner that complies with all federal, state, and local environmental regulations. The Lauderdale Site is a Conditionally Exempt Small Quantity Generator (CESQG) of hazardous waste and this is not expected to change with the operation of DBEC. There will be no adverse impacts resulting from hazardous wastes generated by DBEC.

6.5 Sanitary and Other Waste Discharges

Sanitary wastes from operation of DBEC will be handled by the existing City of Hollywood facilities. Quantities will remain approximately the same as there is no increase in employment as a result of DBEC. There will be no adverse impacts from sanitary wastes generated by DBEC.

6.6 Air Quality Impacts

6.6.1 Impact Assessment

An air quality impact analysis meeting the requirements of FDEP's PSD rules and EPA/FDEP modeling guidance was performed. EPA/FDEP requirements, modeling methodology, and results are presented in the Air Construction Permit Application in Appendix 10.2.5. The air quality impact assessments are required for SO₂, CO, PM₁₀, and PM_{2.5} emissions from the DBEC. The analyses for the DBEC must demonstrate that the air quality impacts of these pollutants do not exceed the significant impact levels or, alternatively, cumulative source impact analyses are performed to demonstrate compliance with AAQS and PSD Increments. The air quality model used to calculate air quality impacts for the DBEC was based on the model's ability to simulate impacts in areas surrounding the Site, as well as at the PSD Class I areas of the Everglades National Park (ENP), located approximately 48 km from the

DBEC. The EPA-approved and FDEP-recommended AERMOD dispersion model was used to address air quality impacts within 50 km of the Project. AERMOD was approved as part of the Guideline on Air Quality Models in 40 CFR Part 52, Appendix W, as the preferred general purpose dispersion model (70 FR 68218-68260; November 9, 2005). The AERMOD model calculates hourly concentrations based on hourly meteorological data. The AERMOD model is valid for most applications, since it contains the latest scientific algorithms for simulating plume behavior in all types of terrain. The predicted concentrations are compared to the applicable AAQS and PSD Class II Increments.

Because a portion of the ENP is located beyond 50 km of the DBEC, EPA and FDEP modeling guidelines require the use of a long-range dispersion model for predicting pollutant impacts. The California Puff (CALPUFF) modeling system is the long-range dispersion model that was used to perform the significant impact analysis at both the ENP PSD Class I areas.

Meteorological data used in the AERMOD model to determine air quality impacts consisted of a concurrent five-year period of hourly surface weather observations from the NWS office located at the FLL airport and upper air sounding data collected at the Florida International University (FIU) in Miami. The five-year period of the meteorological data was from FDEP for the period 2012 through 2016. The NWS office at FLL airport is located approximately 4 km (2 miles) east of the Site and is considered by FDEP to have meteorological data appropriate for the air quality impact analysis of the Project.

A comparison of the average land use parameters at FLL and the Site was performed using the EPA AERSURFACE program. AERSURFACE reads land use files developed by the U.S. Geological Survey and provides average land use values for albedo, Bowen ratio, and surface roughness within a specified radius. The comparison determined similarities between the land use parameters at FPR and the Site indicating that these data are representative and appropriate for the modeling analysis.

The two combustion turbines (CTs), with associated heat recovery steam generators (HRSGs), and the auxiliary cooling system will operate continuously and were included in the impact assessment. The auxiliary boiler and natural gas heater will be used intermittently for CT startup while generators and diesel engines associated with the emergency generators, fire pump and hurricane shelter will be operated only intermittently for routine testing, maintenance, and emergencies. The sources operated intermittently were not incorporated into the modeling analysis since their operation will not be either concurrent with the operation of the CTs or they will operate only a few hours per year. The CT/HRSG units will be fired with natural gas as the primary fuel with up to 1000 hours/year/CT of ultra-low sulfur

diesel (ULSD) fuel oil as a backup fuel. The maximum predicted short-term impacts (i.e., for averaging times of 24-hour hours or less) for the DBEC are based on the highest predicted impacts when firing either natural gas or ULSD fuel oil, whichever results in the higher predicted short-term impacts for a given pollutant. The maximum predicted annual impacts for the DBEC are based on highest predicted impacts when firing either natural gas for a full year or when firing natural gas for 7,760 hours per year and ULSD fuel oil for 1,000 hours per year, whichever results in the higher predicted annual average impacts for a given pollutant.

All significant building structures were identified on the plot plan. The building structures were processed in the EPA Building Profile Input Program (BPIP-PRIME, Version 04274) to determine direction-specific building parameters for each 10-degree azimuth direction for each source included in the air modeling analysis.

A Cartesian receptor grid was used to predict maximum concentrations in the vicinity of the Site. The receptor grid included receptors located on and beyond the Site at the following receptor spacing: along the property boundary (50 meters); beyond the property boundary to 2 km (100 meters); from 2 to 5 km (250 meters); and from 5 km to 10 km (500 meters). The DBEC's impacts at the PSD Class I areas of the ENP were predicted with an array of 901 discrete receptors and elevations, respectively, covering the boundary and internal sections of this Class I areas that were obtained from the NPS Class I extraction program.

The maximum SO₂, NO₂, CO, PM₁₀ and PM_{2.5} concentrations predicted for the DBEC in the vicinity of the Site are presented in Table 6.6.1-1. Significant impact levels (SIL) are threshold concentrations used to determine if additional, more detailed, evaluation of pollutants requiring PSD review is necessary. The modeling results indicate that the maximum concentrations from the Project are predicted to be less than the SIL for all pollutants except for NO₂ for the 1-hour averaging period, PM₁₀ for the 24-hour averaging period and PM_{2.5} for the 24-hour averaging period. For the pollutant/averaging period concentrations predicted to be greater than the SIL, the maximum concentrations are also compared to the AAQS and PSD Class II Increments. When compared to the AAQS and PSD Class II Increments, the maximum predicted concentrations from the emission units associated with DBEC are less than these standards. The predicted AAQS concentrations presented in Table 6.6.1-1 include background concentrations that are based on existing air quality measurements from the most recently available three years to account for all emission sources that are not explicitly included in the modeling analysis.

The maximum SO₂, PM₁₀, and PM_{2.5} concentrations predicted for DBEC at the ENP are presented in Table 6.6.1-2. These maximum concentrations are compared to the PSD Class I SIL. If the maximum predicted concentration is greater than the SIL additional detailed analyses are required to determine compliance with the allowable PSD Class I increments. The modeling results demonstrate that the maximum concentrations from DBEC are predicted to be less than the SIL except for PM_{2.5} for the 24-hour averaging period. An analysis of the 24-hour PM_{2.5} increment consumption indicated predicted concentrations well below the allowable PSD Class I increment.

The air modeling analysis demonstrates that the air emissions from the proposed Project will not have a significant effect on air quality and will comply with all applicable AAQS and allowable PSD increments.

6.6.2 Monitoring Programs

Measurements of meteorology, ambient air quality, or visibility are not required for DBEC based on FDEP PSD Rules (see Section 3.0 of Appendix 10.2.5). Proposed compliance conditions are contained in the Air Construction/PSD Application (see Appendix 10.2.5). Continuous emissions monitoring or stack monitoring will be installed as required by FDEP in the issuance of the air construction/PSD permit and EPA regulations.

6.7 Noise Impacts

6.7.1 Methodology

The methodology for determining the potential noise impacts for the operation of DBEC were developed using the CadnaA computer model, a computerized software program for calculation, presentation, assessment and prediction of environmental noise (DataKustik, 2008).

CadnaA is an environmental noise propagation computer program that was developed to assist with noise propagation calculations for major noise sources and projects. Noise sources are entered as octave band sound power levels (L_w). Locations of the noise sources, structures, and receptors are input directly on the base map and can be edited throughout the modeling process. All noise sources are assumed to be a point, line, area, or vertical area source, and can be specified by the user. Sound propagation is calculated by accounting for hemispherical spreading and three other user identified attenuation options: atmospheric attenuation, path specific attenuation, and barrier attenuation. Atmospheric attenuation is calculated using International Organization for Standardization, ISO 9613-1 *Attenuation of Sound During Propagation Outdoors - Part 1: Calculation of the Absorption of Sound by the Atmosphere*. The CadnaA path specific attenuation can be specified to account for the effects of soil, vegetation, foliage, and wind shadow. Directional source characteristics and reflection can be

simulated using path specific attenuation. Barrier attenuation is calculated by assuming an infinitely long barrier perpendicular to the source-receptor path. Total and A-weighted SPLs are calculated.

The noise impacts of operations were evaluated using the sound power levels for the various types of sources associated with the DBEC. The noise resulting from the operation of DBEC includes noise sources associated with the two CTs and associated electric generators; two HRSGs; one steam turbine generator; transformers; one auxiliary cooling system; and associated pumps, modules, and accessories. The sound power levels used in the analysis for the 2-on-1 combined cycle unit were based on information developed from manufacturers that was field verified using actual field measurements of similar units. These sound power levels conservatively represent the actual noise levels seen in field measurements. The location of each noise source was based on its location in the computerized site plan. The computerized drawing was imported into the CadnaA model for the noise analysis. The heights of the major structures were also input into CadnaA, developing a three dimensional representation. Sources were input into CadnaA as point, area, and vertical area sources with appropriate dimensions.

The design of DBEC includes components that mitigate noise from being emitted to the surrounding environment, and the orientation of the noise sources further attenuates noise. The majority of the noise sources, such as the steam turbine, gas turbines, electric generators, and compressors, are located within enclosures that mitigate sounds emitted by equipment.

The L_w used in the analysis are presented in Table 6.7-1. There were 22 point sources, 9 line sources, and 7 vertical area sources input to CadnaA that represented the noise sources associated with DBEC. Noise sources such as vent fans and transformers were input as point sources. The sources listed in Table 6.7-1 are identified by the source name, type, number and height including horizontal and vertical areas. Sources inside structures were input as vertical area sources that represent sides of structures such as the HRSG sides from which interior noise generated by the CT exhaust can be emitted. The atmospheric attenuation for the model was set to 20°C (68°F) and 90 percent relative humidity. The ground attenuation for the area was set to represent mixed use that reflected the nature of the area. The topography was assumed to be flat and no added vegetative barriers were included in the model.

6.7.2 Impact Analysis

FPL has operated a power plant at this site continuously since 1927. The proposed power plant will have a noise profile that is not materially different than the current plant operating at the site. Since 1927, the area surrounding the plant has become highly developed with other nearby industrial and urban uses, such as the international airport, a waste-to-energy center, a shipping center, a recycling



center, and major highways and roads. Residential neighborhoods have also now become interspersed throughout these uses. Currently, the area experiences significant noise from the combined effect of these various industrial and urban activities, including the operation of Units 4 and 5 at the Lauderdale Site, as evidenced in the noise monitoring presented in Section 3.3.7. Transient and infrequent conditions associated with the existing Lauderdale Site, such as unit startup, shutdown or upset conditions, do occasionally occur for short periods of time, and these conditions are expected to similarly occur at DBEC.

The predicted results of the operation of DBEC are found in Table 6.7-2 and Figure 6.7.2-1. The Table and Figure present the predicted results of the noise modeling, the existing background noise level, and overall SPLs at each noise monitoring location. The background noise levels are presented in Subsection 3.3.8. The L_{90} background noise levels were used in the analysis since the L_{90} , where the sound level is exceeded 90 percent of the time, excludes the majority of the transient noise sources, such as motor vehicles and aircraft. In contrast, the equivalent continuous sound level (L_{eq}), or the average sound pressure level, represents all the noise observed over the sampling period. As described in Section 3.3.8, there are a number of transient sources observed during the background monitoring such as motor vehicles, aircraft from the Fort Lauderdale - Hollywood International airport, and commercial and industrial activity. As a result, the L_{90} is a representative background for predicting the contribution of the DBEC to noise levels in the vicinity of the Site and is representative of the overall noise levels from an operating noise source.

There are no State of Florida noise regulations that are applicable for the operation of the DBEC.

Broward County has a noise ordinance that sets maximum allowable sound levels measured at the receiving property boundary with governmental facilities, community service facilities, commercial/business facilities (Article VII Noise, Chapter 27, Part II Broward County Code of Ordinances). For residential or the residential portion of a multi-use property the maximum allowable sound level is 55 dBA as an L_{50} with an L_{max} of 65 dBA. The source of the sound must exceed the background by 5 dBA or more, otherwise the source is not considered a violation of the maximum allowable sound level in the ordinance.

The City of Hollywood has a noise ordinance prohibiting noise that is unreasonably loud (Title IX, Chapter 100, Section 100.02 Unreasonably Loud Noise Prohibited). An unreasonably loud noise is not a numerical limit but an audible sound that causes interference at a residence and the surrounding neighborhood. A violation of the ordinance constitutes a nuisance.

The operating portion of DBEC is located entirely within the City of Dania Beach, which has a noise ordinance codified in Chapter 17, Article IV Noise, Sections 17-79 through 17-90, City of Dania Beach Code of Ordinances. Section 17-86 establishes maximum permissible sound levels for residential (noise sensitive areas and public space), multifamily dwelling, commercial (convention) and industrial receiving land uses. The maximum permissible sound level for residential land uses is 60 dBA during the period 7:00 a.m. to 10:00 p.m. and 55 during the period 10:00 p.m. to 7:00 a.m. For multifamily land uses, the maximum permissible sound level is 50 dBA during the period 7:00 a.m. to 10:00 p.m. and 45 during the period 10:00 p.m. to 7:00 a.m. A multifamily dwelling is defined in the ordinance as a building or other shelter that has been divided into separate units to house more than one family. The maximum permissible sound level for commercial land uses is 65 dBA during the period 7:00 a.m. to 10:00 p.m. and 60 during the period 10:00 p.m. to 7:00 a.m. For industrial land uses the maximum permissible sound level is 75 dBA at all times. The overall noise levels included the noise determined from the CadnaA modeling results plus the L90 background.

As presented in Table 6.7-2, the maximum predicted SPLs from the DBEC is 47 dBA at Monitoring Location 1. When the background L_{90} is considered, the overall SPLs at Monitoring Location 1 are 55 dBA during the daytime and 55 dBA during the nighttime. At Monitoring Locations 5 and 7, also located in residential areas, the maximum predicted SPLs from the Project are 52 dBA and 41 dBA, respectively. The overall daytime and nighttime SPLs, including the background L_{90} , at Monitoring Location 5 are 59 dBA and 54 dBA, respectively. At Monitoring Location 7, the overall SPLs is 52 dBA during the daytime and 44 dBA during the nighttime.

The predicted SPLs at Monitoring Locations 1, 5 and 7 do not exceed the Broward County maximum allowable L_{50} sound level of 55 dBA during the nighttime. During the daytime the predicted maximum SPLs at Monitoring Stations 1, 5 and 7 are less than the background levels. While the overall SPL predicted at Monitoring Location 5 during the daytime is above 55 dBA, a measured sound level would not be a violation of the Broward County maximum permissible sound level of 55 dBA, since the source does not exceed the background sound level by 5 dBA or more. Also, as described previously, the predicted noise levels are conservative since the operation of the DBEC is assumed to occur at all times and certain model inputs did not include vegetation or off-Site buildings as barriers. In addition, as a point of reference, a difference of less than 3 dBA in SPLs is not noticeable by human hearing and the typical uncertainty in environmental noise observations due to temporal changes in noise sources is 3 dBA.

Monitoring Locations 2 and 6 are located near commercial areas with maximum predicted SPLs from the Project of 54 dBA and 43 dBA, respectively. The predicted noise levels with background are lower than the Broward County maximum allowable noise levels of 65 dBA for commercial and business facilities.

The predicted noise levels in residential areas of the City of Hollywood, located south of Griffin are 50 dBA or less (see Figure 6.7.2-1). Numerical noise levels of this magnitude would not be considered unreasonably loud.

As described previously, the predicted noise levels are conservative since the operation of the DBEC is assumed to occur at all times and certain model inputs did not include vegetation or off-Site buildings as barriers. For these reasons the normal operation of the DBEC is not expected to exceed the City of Dania Beach maximum permissible sound levels in residential areas.

For transient and infrequent conditions associated with unit startup, shutdown or upset conditions, a variance has been sought as described in Section 1.1. FPL will continue to utilize, as it has with Units 4 and 5, best operating practices during startup, shutdown and upset conditions to minimize the duration and magnitude of noise generated during these infrequent conditions.

6.8 Changes In Non-Aquatic Species Populations

6.8.1 Impacts

There will be no adverse impacts to non-aquatic species resulting from the operation of DBEC. The existing Site has been disturbed during prior construction of the existing facilities and used continuously over the last 80 years of operation. Vegetative communities were removed, topography was graded, and hydrology has been altered over that time period. No significant impact to remaining vegetative communities is expected as a result of auxiliary cooling system drift (see Subsection 6.1.4.2). Noise generated during operation of DBEC is not anticipated to result in significant impacts or changes in wildlife populations in the vicinity. Due to the previously-disturbed nature of the area proposed for construction and operation of DBEC, and lack of impact to significant wildlife habitat, no change in floral or faunal populations, including recreational or commercially important species, is anticipated as a result of operation of DBEC.

6.8.2 Monitoring

Because no significant impacts to plant and animal populations are anticipated, no monitoring program is proposed during operation of DBEC.



6.9 Other Plant Operation Effects

6.9.1 Operations Traffic

The operational workforce for the DBEC is anticipated to be comparable to the current conditions as described in Subsection 3.2.7. Since the number of employees at DBEC will be similar to the existing facility, the number of traffic trips is not anticipated to increase. Because the number of daily and peak hour trips are not anticipated to increase as a result of the operation of the DBEC, no adverse impacts on traffic are anticipated.

6.9.2 Lighting

Outdoor lighting will be necessary to satisfy FERC and OSHA requirements for security, worker and plant safety, including lighted walkways, parking areas and various equipment areas. Unconstrained lighting can cause light pollution and light trespass (see Subsection 3.3.9). Light pollution or sky glow is the term used to describe sky brightness caused by scattering of light in the atmosphere. Light trespass is the term used to describe light that strays from its intended purpose and becomes an annoyance.

Light pollution and light trespass will be addressed when designing the outdoor lighting systems. Guidelines specifically addressing potential lighting issues are available from the Illuminating Engineering Society of North America (IESNA). These guidelines will be incorporated into the outdoor lighting design to the extent possible while meeting FERC and OSHA requirements. Typical practices to be incorporated are: minimize upward light from luminaries; minimize upward light in general so that light reaches its intended target; and contain light within its intended target area by suitable choice of luminaries for light distribution, by selection of mounting height and physical location, and by minimizing glare in the horizontal or vertical directions.

While light from the DBEC will be observed at locations in proximity to the plant, the illuminance will be localized. The use of the IESNA guidelines to the extent practicable, while meeting FERC and OSHA security and safety requirements, will result in low lighting impacts from are not expected to be materially different than levels currently associated with Units 4 and 5.

6.10 Archaeological Sites

No sites of historic or archaeological significance will be directly or indirectly impacted due to operation of DBEC. Based on the cultural resource assessments (Appendix 10.7.1), no sites listed or eligible for listing in the National Register of Historic Places are located in close proximity to the

existing Site, and no significant archaeological sites are expected to be found on the Site. Therefore, no on-Site post-construction monitoring is planned or required for the Project.

6.11 Resources Committed

The major irreversible and irretrievable commitments of national, state, and local resources due to DBEC are the continued use of the existing Site, the continued use of water for cooling and processes, and the continued use of fuels that include natural gas and ULSD oil. The continued use of these resources is more than offset by the higher efficiency of DBEC and environmental improvement compared to the existing Units 4 and 5. DBEC's use of resources will be relatively minimal given the production of efficient electric power, low environmental impacts, and substantial benefits to the local economy.

DBEC will be located within a portion of the existing Site which has already been significantly impacted by previous activities. DBEC will continue to provide electric power at a location within FPL's load center. This redevelopment is within an already existing industrial area, and impacts to the environment are reduced when compared to the existing Units 4 and 5.

Consumption of water is necessary for operation of an electrical power plant, including for condenser cooling, pollution control equipment (NO_x control when firing ULSD oil), process water requirements, and potable water. The design of the DBEC is highly efficient and will minimize the consumptive use of water where practicable.

Natural gas and ULSD oil will be consumed during the operation of DBEC. With the use of advanced combined cycle technology, however, the consumption of fossil fuels will be approximately 20 percent lower than the existing Units 4 and 5. This increased efficiency through the use of advanced combined cycle technology and natural gas will result in low GHG emissions for the amount of electric generation produced. The emission rate of GHGs from DBEC will be among the lowest in the U.S. and approximately 20 percent lower than EPA New Source Performance Standards for electric utility units.

Aqueous ammonia will be required for the operation of DBEC's SCRs. While some ammonia will be consumed, emissions of NO_x will be substantially reduced as a result. The use of ammonia in the SCR system, and the increased efficiency, will result in an extremely low NO_x emission rate in terms of lb/MWh.

TABLES

TABLE 6.1.4-1
PREDICTED VISIBLE WATER VAPOR PLUME HEIGHT AND LENGTH
FPL DBEC (UNIT 7) AUXILIARY COOLING SYSTEM

Conditions		<u>Winter</u>		<u>Spring</u>		<u>Summer</u>		<u>Fall</u>		<u>Annual</u>	
		hours/year	%	hours/year	%	hours/year	%	hours/year	%	hours/year	%
AMBIENT FOG/CALM											
HOURS REMOVED^{a,b,c}		1563.8	26.6%	1603	27.2%	1206	20.5%	1515	25.7%	5888	100.0%
Plume Height (m)											
>0	200	1560	99.77%	1599	99.75%	1198	99.29%	1511	99.74%	5868	99.66%
>200	400	4	0.23%	4	0.25%	9	0.71%	4	0.26%	20	0.34%
>400	600	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
>600	1000	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
>1000	3000	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Plume Length (m)											
>0	100	1060	67.8%	970.8	60.55%	815.6	67.62%	972	64.18%	3819	64.86%
>100	300	491	31.4%	617	38.49%	344.8	28.59%	516.4	34.09%	1970	33.45%
>300	500	9	0.6%	15.2	0.95%	45.6	3.78%	26.2	1.73%	96	1.63%
>500	1000	2	0.2%	0.2	0.01%	0.2	0.02%	0	0.00%	3	0.05%
>1000	3000	1	0.1%	0	0.00%	0	0.00%	0	0.00%	1	0.01%
>3000	5000	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
>5000		0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
DAYLIGHT HOURS											
AMBIENT FOG/CALM											
HOURS REMOVED^{a,b,c}		845.6	0.3	922.6	28.0%	692.6	21.0%	831.8	25.3%	3292.6	100.0%
Plume Height (m)											
>0	200	842.2	1.0	918.6	99.6%	684	98.8%	827.8	99.5%	3272.6	99.4%
>200	400	3.4	0.0	4	0.4%	8.6	1.2%	4	0.5%	20	0.6%
>400	600	0	0.0	0	0.0%	0	0.0%	0	0.0%	0	0.0%
>600	1000	0	0.0	0	0.0%	0	0.0%	0	0.0%	0	0.0%
>1000	3000	0	0.0	0	0.0%	0	0.0%	0	0.0%	0	0.0%
Plume Length (m)											
>0	100	609.4	0.7	639.4	69.3%	548.2	79.2%	582.6	70.0%	2379.6	72.3%
>100	300	233.8	0.3	281.8	30.5%	140.4	20.3%	247	29.7%	903	27.4%
>300	500	1.6	0.0	1.4	0.2%	4	0.6%	2.2	0.3%	9.2	0.3%
>500	1000	0.8	0.0	0	0.0%	0	0.0%	0	0.0%	0.8	0.0%
>1000	3000	0	0.0	0	0.0%	0	0.0%	0	0.0%	0	0.0%
>3000	5000	0	0.0	0	0.0%	0	0.0%	0	0.0%	0	0.0%
>5000		0	0.0	0	0.0%	0	0.0%	0	0.0%	0	0.0%

^a Annual average of the 5-year period from 2009 to 2013.

^b Also removed are hours with both a predicted plume height and plume length of zero.

^c Percentage listed under season and annual is the percent of total visible plumes.

TABLE 6.1.4-2
ESTIMATED DRIFT (PM) EMISSION SPECTRUM FOR
FPL DBEC MECHANICAL DRAFT
AUXILIARY COOLING SYSTEM

Particle Size Range (micrometers)	Total in Size Range (percent)
0 - 10	0.5
10 - 15	1.3
15 - 20	3.9
20 - 25	15.6
25 - 35	28.5
35 - 65	20.7
65 - 170	11.5

Source: "Calculating Realistic PM Emissions from Cooling Towers",
Frisbie and Gordon, 2001.

TABLE 6.1.4-3

**PREDICTED ANNUAL AND MONTHLY MINERAL DEPOSITION
FPL DBEC AUXILIARY COOLING SYSTEM**

Parameter	Deposition		Location	
	$\text{g/m}^2/\text{year}$	kg/ha/month	Distance (m)	Direction (degree)
Average	0.07	0.06	Area within 5 km	
Maximum	5.38	4.48	689	214
	0.79	0.66	1,000	217
	0.09	0.07	2,000	233
	0.03	0.03	3,052	235
	0.02	0.01	4,123	166

**TABLE 6.6.1-1
MAXIMUM PREDICTED CONCENTRATIONS FOR THE PROJECT COMPARED TO EPA SIL
AAQS, AND PSD CLASS II INCREMENTS**

Pollutant / Averaging Time	Project Only Concentration^a (µg/m³)	EPA SIL (µg/m³)	Concentration^b (µg/m³)	AAQS (µg/m³)	Concentration^c (µg/m³)	PSD Class II Increments (µg/m³)
<u>SO₂</u>						
Annual	0.3	1	-	na	-	20
24-Hour	2.3	5	-	na	-	91
3-Hour	6.3	25	-	1,300	-	512
1-Hour	5.0	7.86	-	196.5	-	na
<u>CO</u>						
8-Hour	21.3	500	-	10,000	-	na
1-Hour	37.3	2000	-	40,000	-	na
<u>PM₁₀</u>						
Annual	0.6	1	-	na	-	17
24-Hour	10.5	5	61.6	150	9.9	30
<u>PM_{2.5}</u>						
Annual	0.4	0.3	-	12	0.3	4
24-Hour	7.6	1.2	20.2	35	8.7	9

Notes: na = not applicable.

SIL = Significant Impact Level

AAQS = Ambient Air Quality Standard

Concentrations from AERMOD and surface and upper air meteorological data from St. Lucie County Int'l AP/FIU Miami, 2009 to 2013.

^a Based on maximum predicted concentration over period

^b Based on maximum predicted total concentration including background for non-modeled emissions

^c Based on maximum predicted PSD increment increase over period

**TABLE 6.6.1-2
MAXIMUM PREDICTED CONCENTRATIONS FOR THE PROJECT COMPARED TO
CLASS I SIL AND PSD CLASS I INCREMENTS**

Pollutant / Averaging Time	Project Only Concentration at ENP	CLASS I SIL ($\mu\text{g}/\text{m}^3$)	Concentration ($\mu\text{g}/\text{m}^3$)^b at ENP	PSD Class I Increments ($\mu\text{g}/\text{m}^3$)
<u>SO₂</u>				
Annual	0.01	0.1	-	2
24-Hour	0.10	0.2	-	5
3-Hour	0.40	1	-	25
<u>PM₁₀</u>				
Annual	0.01	0.2	-	4
24-Hour	0.36	0.3	0.260	8
<u>PM_{2.5}</u>				
Annual	0.01	0.06	-	1
24-Hour	0.29	0.07	0.258	2

Notes:

SIL = Significant Impact Level

ENP = Everglades National Park PSD Class I area

Concentrations from CALPUFF Modeling System with Wind Domain Data from 2001 to 2003.

^a Based on maximum predicted concentration over period

^b Based on maximum predicted PSD increment increase over period

Table 6.7-1. DBEC Equipment Noise Sources Used in Operational Noise Modeling Analysis

Equipment ID			Noise Source Type	Levels at Octave Band Centre Frequencies									dBA	dBC	Source
	Quantity	Height (meters)		31.5	63	125	250	500	1000	2000	4000	8000			
Gas Combustion Turbine and Generator															
Inlet Filter Face GE7HA	2	23	Area - Lw	112	105	101	94	90	91	96	104	95	106.2	113.8	FPL OCEC Unit1, 07 2015 GE7HA02
Inlet Plenum GE7HA	2	18	Point - Lw	102	99	98	93	94	97	97	94	89	102.3	106.8	FPL OCEC Unit1, 07 2015 GE7HA02
GT Exhaust Diffuser	2	4.1	Line - Lw	106	113	97	93	87	84	86	88	75	94.3	113.9	FPL OCEC Unit1, 07 2015 GE7HA02
GT Laod Compartment GE7HA	2	4.1	Line - Lw	87	93	93	87	87	93	94	88	78	98.1	100.3	FPL OCEC Unit1, 07 2015 GE7HA02
GT Generator GE7HA	2	3.8	Area - Lw	99	102	108	95	99	100	101	96	85	105.8	111.0	FPL OCEC Unit1, 07 2015 GE7HA02
Turbine Compartment GE7HA	2	4.1	Line - Lw	107	104	101	96	97	98	101	106	94	108.9	112.0	FPL OCEC Unit1, 07 2015 GE7HA02
Turbine Compartment Vent Fans GE7HA	2	24	Point - Lw	102	102	110	101	98	95	94	98	95	103.8	112.2	FPL OCEC Unit1, 07 2015 GE7HA02
Lube Oil Module GE7HA	2	3	Point - Lw	101	102	99	98	97	96	96	97	88	102.9	107.9	FPL OCEC Unit1, 07 2015 GE7HA02
1C CT Transformer	2	3	Point - Lw	96	102	104	103	99	93	88	83	76	100.1	108.8	Table 6.7.0-1 from FPL
Wet Compressor Skid GE7HA	2	2.51	Point - Lw	96	96	89	85	90	87	87	85	79	93.4	100.6	FPL OCEC Unit1, 07 2015 GE7HA02
Boiler and Stack															
HRSG Body + Accesories	2	30	Area - Lw	102	106	99	94	86	78	74	82	77	90.7	108.2	FPL Fort Myers Unit 2A-2F, 06 2015
1A HRSG Stack	2	44.9	Point - Lw	49	55	68	71	80	107	100	74	56	107.6	107.4	Table 6.7.0-1 from FPL
Boiler Feed Pump	2	1	Point - Lw	103	100	97	96	97	96	97	89	77	101.7	106.2	Table 6.7.0-1 from FPL
Steam Generator															
Steam Turbine Generator Mar	1	12.1	Line - Lw	114	113	110	105	105	101	97	89	78	106.3	118.0	Black and Veatch
Steam Turbine LP Mar	1	12.1	Line - Lw	124	124	120	119	117	112	106	103	102	118.0	128.8	Black and Veatch
Unit 1 STG Transformer	1	3	Line - Lw	99	105	107	106	102	96	91	86	79	103.1	111.8	Table 6.7.0-1 from FPL
Cooling Tower															
Cooling Tower Fan Motors	10	15.5	Point - Lw (c)	98	94	99	93	103	81	78	71	61	100.5	106.2	WCEC Feild Measurement_gbm 2010
Cooling Tower Data	1	11	Area - Lw	80	80	82	85	92	96	96	97	96	102.9	102.8	Black & Veatch data



TABLE 6.7-2

**EXISTING, MODELED, AND OVERALL SOUND PRESSURE LEVELS FOR THE
OPERATION OF PROJECT AT THE EIGHT BACKGROUND LOCATIONS**

Monitoring Location	Time	Sound Pressure Levels (dBA)		
		Existing	Modeled	Overall ^a
1: Western Entrance Gate (from SW 42nd Avenue)	Afternoon ^b	54	47	54
	Night ^c	54	47	55
	Morning ^b	55	47	55
2: Eastern Entrance Gate (from SW 42nd Street)	Afternoon ^b	53	54	56
	Night ^c	47	54	55
	Morning ^b	50	54	55
3: North of site, located within site boundaries	Afternoon ^b	46	42	47
	Night ^c	47	42	48
	Morning ^b	49	42	50
4: North of Project, located on Canel Rd, just off of I595 and SR 84	Afternoon ^b	64	31	64
	Night ^c	49	31	49
	Morning ^b	58	31	58
5: Neighborhood south of plant on SW 38th Terrace	Afternoon ^b	57	52	59
	Night ^c	48	52	54
	Morning ^b	57	52	58
6: West of Project in U-Pull-it parking lot on SR-7	Afternoon ^b	62	43	62
	Night ^c	50	43	51
	Morning ^b	57	43	57
7: Neighborhood southwest of Project on SW 35th Ave.	Afternoon ^b	50	41	51
	Night ^c	41	41	44
	Morning ^b	51	41	52
8: 24-Hour Site: Onsite SW of Project	Day ^b	57	52	58
	Night ^c	52	52	55

^a Modeled results logarithmically added to the existing baseline measurements.

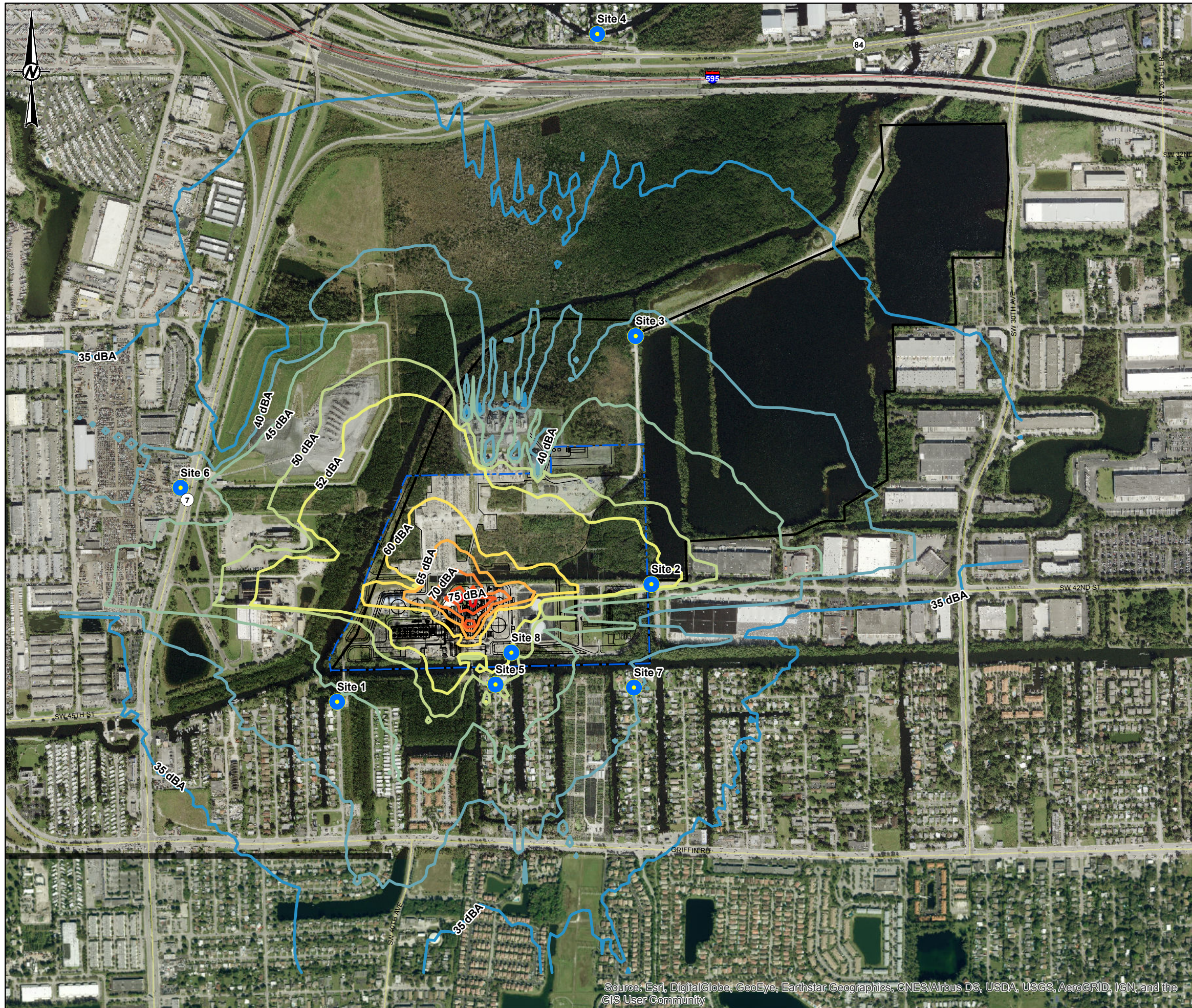
^b L₉₀ sound levels collected in October 2013; includes operation of Units 4 and 5.

^c L₉₀ sound levels collected in December 2016; includes operation of Units 4 and 5 and Units 6A and 6B.



FIGURES

G:\PROJECTS\FPL\Danish_Beach_Energy_Center\09_PROJECTS\1773823_SCAN\02_PRODUCTION\1773823_FIG1_Noise_CategoricalImpacts.mxd



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the
GIS User Community

LEGEND

- Site
- DBEC Project Area
- Receptors

Operations Noise Contours

- 35 dBA
- 40 dBA
- 45 dBA
- 50 dBA
- 52 dBA
- 60 dBA
- 65 dBA
- 70 dBA
- 75 dBA
- 80 dBA

REFERENCE(S)

SITE, A.R. TOUSSAINT & ASSOCIATES INC., 1989
FACILITY LAYOUT, BLACK & VEATCH, 2017
DBEC PROJECT AREA, NOISE RECEPTORS, NOISE CONTOURS; GOLDER ASSOCIATES INC.,
2017

CLIENT

FPL

PROJECT

DANIA BEACH ENERGY CENTER

TITLE

OPERATION NOISE IMPACT
CONTOURS



YYYY-MM-DD	2017-06-23
DESIGNED	NRL
PREPARED	NRL
REVIEWED	KAB
APPROVED	KFK

PROJECT NO.
1773823

CONTROL
F022

REV.
0

FIGURE
6.7.2-1

1" IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

7.0 ECONOMIC AND SOCIAL EFFECTS OF PLANT CONSTRUCTION AND OPERATION

The purpose of this chapter is to identify the direct and indirect economic costs and social effects of the Project based on both temporary (construction) and long-term (operation) time periods.

Direct effects are those that are the result of the construction or operation of the DBEC. Indirect effects are those that are the result of changes in the livelihood of the people and business interests in the vicinity of a project, such as increased spending by construction and operation personnel. Many of these effects are difficult to measure and qualitative assumptions are often made to assess the relative values of anticipated costs and benefits.

This chapter is divided into two parts: benefits and costs. Section 7.1 addresses the economic and social benefits of the Project, including analyses of the direct and indirect effects of construction and operation of DBEC. Section 7.2 addresses the economic and social costs of the Project and includes analyses of the temporary and long-term indirect costs involving construction and operation of DBEC. An analysis of the fiscal and economic impacts of the DBEC is provided in Appendix 10.7.3. All costs and benefits are based on 2017 dollar values unless otherwise indicated.

7.1 Economic and Social Benefits

The DBEC is anticipated to benefit the City of Dania Beach, Broward County, and the State of Florida by providing significant economic output, requiring relatively few costs accrued to the local government, and creating a positive downstream effect spurring community growth and opportunity throughout the region.

Direct and indirect economic benefits from construction include construction workforce jobs, purchase and rental of equipment and materials, housing and living expenses for construction workers, and indirect employment. Direct and indirect economic benefits from operation include capital expenditures, operation and maintenance expenditures, employment and property tax revenues.

7.1.1 Economic Benefits

FPL estimates that the total Project capital cost will be approximately \$888 million to modernize the existing power plant. Principal components include the power block (\$764 million); transmission interconnection and integration (\$21 million); and allowance for funds used during construction (\$103 million).

7.1.1.1 Benefits of Construction

Onsite construction activities of DBEC are anticipated to begin in 2020 and conclude in mid-2022. The construction activities are anticipated to result in a total economic output of approximately \$310 million



(with direct economic output of approximately \$159 million) over the entire construction period that would benefit the community.

The average construction workforce is estimated to be approximately 290 people and the peak workforce is estimated to be approximately 650 people. The categories of workers anticipated over the construction period are presented in Section 5.7.3.

It is anticipated that the majority of the construction expenditures, excluding major equipment, will be made within the surrounding region. These expenditures will create additional demands for goods and services, creating a multiplier effect in the area – generating additional jobs, earnings and tax revenues. Other businesses could benefit from the increased economic activity generated by the Project. For example, sales could increase for commercial services, including gas stations, convenience stores and restaurants. Area merchants would further benefit from construction workers frequenting their establishments. During the construction period, area suppliers could also benefit by supplying the Project with needed materials such as concrete, stone, drainage piping, and other building materials that are normally manufactured or produced in the region. In addition, construction equipment may be rented locally.

7.1.1.2 Benefits from Operation

The 40-year operating lifetime achieved with this modernization will generate a significant amount of economic stimulus for the local economy. The total economic output (direct and indirect) is anticipated to be \$27.6 million in 2023. This amount will decrease slightly over time, as the property tax revenues reduce the overall economic output, however the permanent economic impacts will be substantial and will provide significant beneficial economic impacts to the local economy over the life of the DBEC.

DBEC is scheduled to become operational in 2022. The total direct employment will be similar to the other FPL modernization projects with approximately 25 full-time jobs, with an annual operational payroll of approximately \$2.3 million per year. Other fixed operational costs of DBEC, excluding fuel costs, are estimated to be approximately \$4.8 million annually.

Operating revenues to government entities include *ad valorem* tax revenue, occupational licenses, building permit fees, and utility taxes paid by FPL. Services are required for all residents who are working or living locally. As a result, the City of Dania Beach and Broward County would incur some costs for these services related to the Project and its employees. Operating costs to government entities include services such as financial and administrative expenses, emergency and disaster relief, legislative and executive expenses, and comprehensive planning. The City of Dania Beach and Broward County governments will both receive capital revenues and incur capital expenses. Capital revenues

are based on impact fees, and capital expenses are costs related to purchases for roads, fire rescue, law enforcement, and other services. The net economic impact of the Project on the City and County as well as other governmental entities, from years 2023 to 2063, is the difference between the total benefits and costs.

The operation of DBEC is expected to generate \$13.5 million in annual property tax revenue starting in 2023; with an estimated \$297 million generated with the 40-year operating lifetime. This estimate is comprised of approximately \$4.3 million to the City of Dania Beach, approximately \$3.9 million to Broward County, approximately \$4.7 million to the Broward school district, and approximately \$693,455 to other taxing authorities (i.e., South Broward Hospital, Children's Services Council, SFWMD, and Florida Inland Navigation District) in the first year of operation. Over the lifetime of the DBEC, these economic benefits will allow for possible increases in government employment and services.

In addition, each of the identified expenditures will create additional demands for goods and services. As this money is spent, it will create a multiplier effect within the area, thereby generating additional jobs, earnings, and tax revenues. These synergistic economic benefits of the Project will be enjoyed by other businesses whose sales will increase as a result of the Project. For example, based on initial estimates the Project could introduce 78 indirect jobs into the local economy thereby creating an additional \$4.7 million to the total economic output in the first year of operation.

7.1.2 Social Benefits

In addition to providing clean, safe, and reliable power for FPL customers, the DBEC is anticipated to result in significant social and environmental benefits. Social benefits accrue from construction and operational employment, direct local purchases during construction and operation, and indirect generation of jobs, services and taxes. In addition, social benefits will occur as a result of property taxes generated by the Project, which are estimated at \$13.6 million in property tax revenue starting in 2023; with an estimated \$297 million generated with the 40-year operating lifetime.

As for environmental benefits, the Site has been a refuge for the threatened manatee during the wintertime for decades. During the construction period, FPL will continue to provide a warm-water refuge for the manatees consistent with the Manatee Protection Plan established pursuant to the existing facility's IWW Permit. With the completion of DBEC, the Site will continue to serve as a manatee refuge into the future.

The Project allows for the replacement of older technology resulting in more efficient power generation without using additional land, water resources, or offsite transmission infrastructure. DBEC will have a much sleeker profile with less power generation equipment (e.g. two stacks compared to the existing four stacks) compared to Units 4 and 5. DBEC will reduce primary air emissions by approximately 70 percent with the addition of air pollution control equipment and will reduce the rate of CO₂ emissions by approximately 25 percent. During the operation of DBEC, from years 2022 to 2063, the CO₂ reduction in FPL's system with DBEC will be approximately 22 million tons.

7.2 Economic and Social Costs

7.2.1 Temporary External Costs (Construction)

As discussed in Section 3.2.7.1, there is a significant labor pool in Broward, Miami-Dade and Palm Beach Counties. The construction workforce within the County consists of approximately 43,786 people (based on 2016 estimates) and is expected to increase by 12 percent between 2016 and 2024 (Florida Department of Economic Opportunity, Labor Market Statistics Center, 2015). Ample labor supply for the Project exists within commuting distance of the Site and thus a labor surplus exists within the region. As is typical with construction projects of similar duration, it is not anticipated that workers will relocate to the immediate area and alter the demands on public facilities and services.

Any anticipated impacts on housing will depend on the number of workers that could potentially relocate and the type of housing the workers would desire. Therefore, those workers that are not already residing in the region are expected to live in temporary housing, although some of these workers could select permanent housing for the duration of their stay. As discussed in Section 3.2.7.3, there is a significant amount of transient accommodations (i.e., public lodgings, vacation rentals, motels, and hotels, rooming house, and bed & breakfasts establishments) available in Broward County with additional availability with apartment establishments. Since workers will not already present in the region will not likely relocate permanently into the region, it is not anticipated that construction will create new or unusual impacts or demands on public facilities or services.

Labor demands associated with the construction and operation of DBEC are not anticipated to create any labor shortages. Expenditures for equipment and materials and consumption by construction workers will boost incomes within the City, County, and surrounding counties. Population and housing impacts associated with the Project will be slight due to minimal in-migration expected into the area.

Temporary external social costs of the Project include the generation of traffic and noise during construction. Traffic management will be incorporated at the intersections associated with the access

point(s) to maintain roadway operation at an acceptable level of service, as discussed in Appendix 10.7.2.

Construction of the DBEC is not anticipated to have a significant impact to residential, commercial, or recreational uses and is not anticipated to significantly affect existing land values or result in significant alteration of existing visual qualities in the vicinity of the Site. Although the local community may experience some temporary disruptions during the construction period, overall socioeconomic impacts associated with the construction of the DBEC will be favorable.

7.2.2 External Costs of Operation

Any external social cost impacts from operation of DBEC will be minimal and localized. The Site provides access to FPL's existing transmission system, which minimizes interconnection requirements. The operation of DBEC will not cause any adverse impacts to public or private facilities used for recreational purposes or impairment to recreational values. Further, operation of DBEC will not result in any deterioration of aesthetic and scenic values, or restrict access to areas of scenic values.

DBEC will result in modification of the current FPL property value that will in turn increase the ad valorem revenue. The long-term revenue source that will be paid to the City of Dania Beach, Broward County, Broward County school district, and other taxing authorities will be significantly greater than current sources. The operational practices will remain consistent with current practices, therefore there will not be an increase of costs to the local government for public facilities or services.

8.0 SITE AND DESIGN ALTERNATIVES

This optional Chapter of the SCA is not included in this application because an Environmental Impact Statement (EIS) under the National Environmental Policy Act (NEPA) will not be required for the Project.

9.0 ELECTRICAL TRANSMISSION LINES

The Lauderdale Site already has the transmission infrastructure necessary to transfer the power from the electric generators associated with the DBEC to the transmission system. The DBEC may require reconductoring and/or other upgrades to existing systems onsite. The existing system switchyard has equipment to support both 230 kV and 138 kV voltage levels. No new offsite transmission lines are required.

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APPENDIX 10.1
COORDINATION

10.1 Coordination

Federal, State, regional, and local agencies were contacted by FPL representatives to inform these agencies about the FPL Dania Beach Energy Center Project and to solicit input regarding the Project. The individuals contacted are listed below. In addition, a list of other groups and organizations that were contacted about the Project is also included.

FEDERAL

U.S. Army Corps of Engineers

Linda Knoeck

U.S. Fish and Wildlife Service

Jim Valade

STATE

Florida Department of Environmental Protection

Southeast District Office

Paul Wierzbicki
Monica Sovacool
Indar Jagnarine
Rachel Hickey
Danielle Sattelberger
Kent Edwards
Greg Kennedy
Indar Jagnarine
Diane Pupa
Bill Gordon

Siting Office

Ann Seiler
Cindy Mulkey

Division of Air Resources Management - Tallahassee

David Read
Brian Arccardo
Tom Rogers

Division of Water Resource Management

Marc Harris
Heidi Coggins

Florida Fish and Wildlife Conservation Commission

Jennifer Goff
Ron Mezich

Florida Department of State – Division of Historical Resources

Timothy Parsons, Director

Florida Department of Transportation

Jasmin Raffington

Florida Department of Economic Opportunity

Scott Rogers

South Florida Water Management District

Mindy Parrott

Dan Boyar

Jason Debish

Andy Steiner

Maria Clemente

Simon Sunderland

Jennifer Brown

LOCAL

Broward County

David Vanlandingham

Ali Younes

Michael Owens

Carlos Adorisio

Samantha Danchuk

Elected Officials

City of Dania Beach

Tamara James

Bill Harris

Chickie Brandimarte

Bobbie Grace

Marco Salvino

City of Hollywood

Richard Blattner

Broward County

Nan Rich

Mark Bogen

Michael Udine

Chip Lamarca

Steve Geller

Beam Furr

Tim Ryan

Barbara Sharief

Dale Holness

OTHER GROUPS AND ORGANIZATIONS

Florida Audubon

Eric Draper

Doug Young

The Nature Conservancy

Greg Knecht

Florida Wildlife Federation

Manley Fuller

APPENDIX 10.2

FEDERAL PERMIT APPLICATIONS OR APPROVALS

APPENDIX 10.2.1

316 DEMONSTRATIONS

As discussed in IWWF/NPDES permit application (SCA Appendix 10.2.2) Form 1 Attachment 2 (antidegradation discussion) the permit modification will have no adverse effect on impingement or entrainment of fish or shellfish; and there will be no adverse effect from the thermal discharge to the South Fork New River. In other words, there will be no water quality degradation from the DBEC (Unit 7) related to CWA Sections 316(a) or 316(b).

Based on conditions in the existing IWWF/NPDES permit (Condition VI.4), the facility is in the process of evaluating existing impacts from impingement and entrainment. When the Best Technology Available (BTA) determination is final, the facility will implement any required changes to address existing impacts.

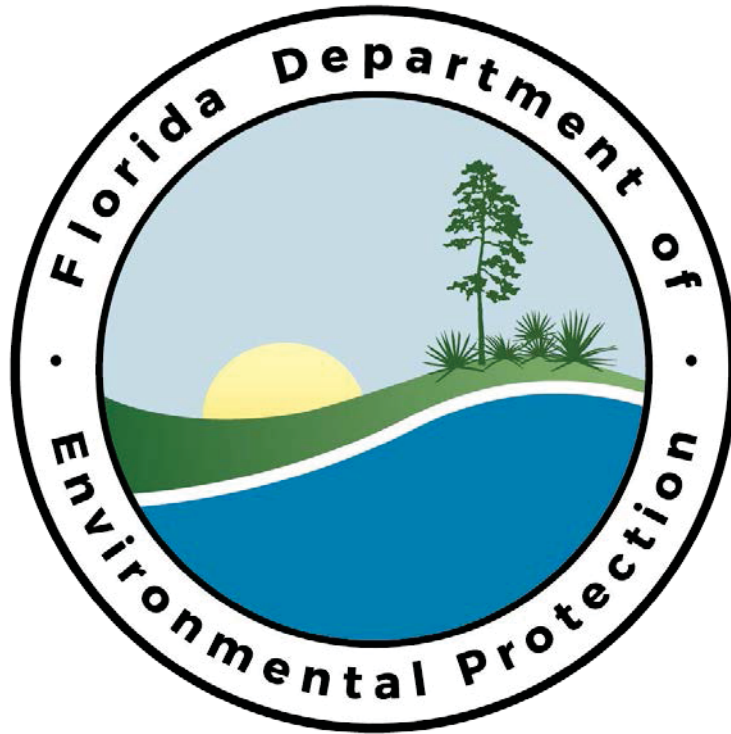
APPENDIX 10.2.2

NPDES APPLICATION/PERMITS

- Form 1 Wastewater Facility or Activity Permit Application Form 1 General Information**
- Form 1 Attachment 1: Additional Information**
Form 1 Attachment 2: Compliance with Antidegradation Policy
Form 1 Attachment 3: Location Map
Form 1 Attachment 4: Water Balance Diagram
Form 1 Attachment 5: IWWF/NPDES Permit
- Form 2CS Wastewater Application for Permit to Discharge Process Wastewater From New or Existing Industrial Wastewater Facilities to Surface Waters**
- Form 2CS Attachment 1: Additional Information**
Form 2CS Attachment 2: DMR Monitoring Data
- Form 2F Application for Permit for Stormwater Discharge Associated with Industrial Activity**
- Form 2F Attachment 1: Additional Information**

FORM 1

**WASTEWATER FACILITY OR ACTIVITY PERMIT APPLICATION
FORM 1 GENERAL INFORMATION**



WASTEWATER FACILITY OR ACTIVITY PERMIT APPLICATION FORM 1 GENERAL INFORMATION

This form must be completed by all persons applying for a permit for a wastewater facility or activity under Chapter 62-620, F.A.C. See Form 1 to determine which other application forms you will need.



WASTEWATER FACILITY OR ACTIVITY PERMIT APPLICATION FORM 1 GENERAL INFORMATION

I IDENTIFICATION NUMBER:

Facility ID FL0001503

II CHARACTERISTICS:

INSTRUCTIONS: Complete the questions below to determine whether you need to submit any permit application forms to the Department of Environmental Protection. If you answer "yes" to any questions, you must submit this form and the supplemental form listed in the parenthesis following the question. Mark "X" in the blank in the third column if the supplemental form is attached. If you answer "no" to each question, you need not submit any of these forms. You may answer "no" if your activity is excluded from permit requirements. See Section B of the instructions. See also, Section C of the instructions for definitions of the terms used here.

SPECIFIC QUESTIONS	YES	NO	FORM ATTACHED
A. Is this facility a domestic wastewater facility which results in a discharge to surface or ground waters?		X	
B. Does or will this facility (either existing or proposed) include a concentrated animal feeding operation or aquatic animal production facility which results in a discharge to waters?		X	
C. Does or will this facility (other than those describe in A. or B.) discharge process wastewater, or non-process wastewater regulated by effluent guidelines or new source performance standards, to surface waters?	X		X
D. Does or will this facility (other than those described in A. or B.) discharge process wastewater to ground waters?		X	
E. Does or will this facility discharge non-process wastewater, not regulated by effluent guidelines or new source performance standards, to surface waters?		X	
F. Does or will this facility discharge non-process wastewater to ground waters?		X	
G. Does or will this facility discharge stormwater associated with industrial activity to surface waters?	X		X
H. Is this facility a non-discharging/closed loop recycle system?		X	
I. Is this facility a public water system whose primary purpose is the production of potable water for public consumption and which discharges demineralization concentrate to surface water or groundwater?		X	

III NAME OF FACILITY: (40 characters and spaces)

FPL- Lauderdale Power Plant

Facility ID FL0001503

IV FACILITY CONTACT: (A. 30 characters and spaces)

A. Name and Title (Last, first, & title)	B. Phone (area code & no.)
Berros, Tony PGD Plant General Manager	(954) 797-1582

V FACILITY MAILING ADDRESS: (A. 30 characters and spaces; B. 25 characters and spaces)

A. Street or P.O. Box: 4300 SW 42nd Avenue		
B. City or Town: Fort Lauderdale	State: FL	Zip Code: 33314

VI FACILITY LOCATION: (A. 30 characters and spaces; B. 24 characters and spaces; C. 3 spaces (if known); D. 25 characters and spaces; E. 2 spaces; F. 9 spaces)

A. Street, Route or Other Specific Identifier: 4300 SW 42nd Avenue		
B. County Name: Broward	C. County Code (if known):	
D. City or Town: Fort Lauderdale	E. State: FL	F. Zip Code: 33314

VII SIC CODES: (4-digit, in order of priority)

1. Code #: 4911	(Specify) Electric Services	2. Code #:	(Specify)
3. Code #:	(Specify)	4. Code #:	(Specify)

VIII OPERATOR INFORMATION: (A. 40 characters and spaces; B. 1 character; C. 1 character (if other, specify); D. 12 characters; E. 30 characters and spaces; F. 25 characters and spaces; G. 2 characters; H. 9 characters)

A. Name: Florida Power & Light Company		B. Is the name in VIII A. the owner? ☒ Yes ☐ No	
C. Status of Operator: F = Federal; S = State; P = Private; O = Other; M = Public (other than F or S)	(code) P	(specify) Private	D. Phone No.: (561) 691-3074
E. Street or P. O. Box: 4300 SW 42nd Avenue			
F. City or Town: Ft. Lauderdale		G. State: FL	H. Zip Code: 33314

IX INDIAN LAND: Is the facility located on Indian lands?

☐ Yes

☒ No

Facility ID FL0001503

X EXISTING ENVIRONMENTAL PERMITS:

A. NPDES Permit No.	B. UIC Permit No.	C. Other (specify)	D. Other (specify)
FL0001503	NA	SCA PA 89-26H	PSD

XI MAP: Attach to this application a topographic map of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers and other surface water bodies in the map area. See instructions for precise requirements.

XII NATURE OF BUSINESS (provide a brief description)

Electric Generation

This modification request is for an existing permitted power plant. The modification is consistent with the antidegradation policy set forth in Rule 62-302.300 F.A.C. The basis for this statement is presented in Form 1 Attachment 2.

XIII CERTIFICATION (see instructions)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Tony J. Berros

A. Name (type or print)

B. Signature

PGD Plant General Manager

Official Title (type or print)

C. Date Signed

FORM 1

ATTACHMENT 1

ADDITIONAL INFORMATION

Form 1 Attachment 1

Florida Power & Light Company – Lauderdale Plant

XI: A Location Map

A location map is included as Form 1 Attachment 3. The intakes, shown on the map, are located on the Dania Cutoff Canal. The western most intake is INT-1 and the eastern most Intake is INT-2. The table below describes the intakes and discharges, and the designations for each. The designations also are shown on the water balance diagram in Form 1 Attachment 4.

Lauderdale Plant Intake and Discharge Structure Designations and Locations	
Designation	Description
INT 1 and INT 2	Existing cooling water intake structures located on Dania Cutoff canal.
D-001	Existing POD from cooling pond to the South Fork New River.
D-002	Existing stormwater discharge structure from Unit 6 and GT Park; flows to wetlands and then to the South New River canal.
D-009A	Existing intake (west): screen wash (including strainer backwash) and pump seal water; to Dania Cutoff canal, replaced with construction of Unit 7.
D-009B	Existing intake (east): screen wash (including strainer backwash) and pump seal water; to Dania Cutoff canal; replaced with construction of Unit 7.
D-0B1	Existing stormwater outfall, replaced with construction of Unit 7 Pond 2; flows to Dania Cutoff canal.
I-1B2	Existing internal stormwater outfall; flows to the discharge canal, then to cooling pond -- will be removed with construction of Unit 7.
I-1B3	Existing internal stormwater outfall; flows to the discharge canal, then to cooling pond-- will be removed with construction of Unit 7.
I-1B4	Existing internal stormwater outfall; replaced by Unit 7 Pond 1; flows to the discharge canal and then to the cooling pond.
I-1B5	Unit 7 internal stormwater outfall from Pond 4 to discharge canal and cooling pond.
I-01E	Unit 7 internal outfall: water treatment system reject water to condenser intake, then to cooling water return, discharge canal and cooling pond.
I-013A	Existing internal outfall: oil/water separator effluent from contact stormwater areas, to Unit 7 Pond 1 or to discharge canal and cooling pond.
I-013B	Unit 7 internal outfall: oil/water separator effluent from contact stormwater areas, to Unit 7 Pond 1 or to discharge canal and cooling pond.
I-013C	Unit 7 internal outfall: oil/water separator effluent from plant drains, to Pond 1 or discharge canal and cooling pond.
I-011	Unit 7 internal outfall: cooling water return to discharge canal and cooling pond. Includes effluents from other Unit 7 processes.
I-016	Unit 7 internal outfall: non-recoverable blowdown and process drains, flows to discharge canal and cooling pond.
I-012	Unit 7 internal outfall: water treatment system wastewater, flows to discharge canal and cooling pond.
I-015	Unit 7 internal outfall: construction water (including dewatering effluent and hydrostatic test water), maintenance and chemical/metal cleaning drains & rinse water; flows to discharge canal and cooling pond, after testing as necessary.

The Lauderdale Plant is a small quantity generator of hazardous waste, and after the modernization, the Plant should continue to generate less than 100 kg per month. The waste typically includes spent solvents, chemical cleaning wastes, and various other waste products. Potentially hazardous wastes will be collected and managed as hazardous waste until tested to determine their hazardous waste characteristics. Hazardous wastes, if any, will be collected onsite and disposed of by a licensed hazardous waste contractor. Solvent rags will be separated and either laundered or disposed of appropriately. If aerosol cans are punctured prior to disposal, the residual will be collected and managed as hazardous waste. Paint waste, polyvinyl chloride (PVC) cleaner, and PVC cement wastes will be minimized. Hazardous waste will be managed according to applicable rules and regulations. The Lauderdale Plant is not a hazardous waste treatment, storage or disposal facility.

There are no underground injection wells at this facility. Based on data from the SFWMD, there are no drinking water wells in the surficial aquifer within ¼ mile of the facility.

XII Nature of Business

This modification request is for an existing permitted power plant. The modification is consistent with the antidegradation policy set forth in Rule 62-302.300 F.A.C. The basis for this statement is presented in Form 1 Attachment 2.

FORM 1

ATTACHMENT 2

COMPLIANCE WITH ANTIDEGRADATION POLICY

Form 1 Attachment 2

Compliance with Antidegradation Policy

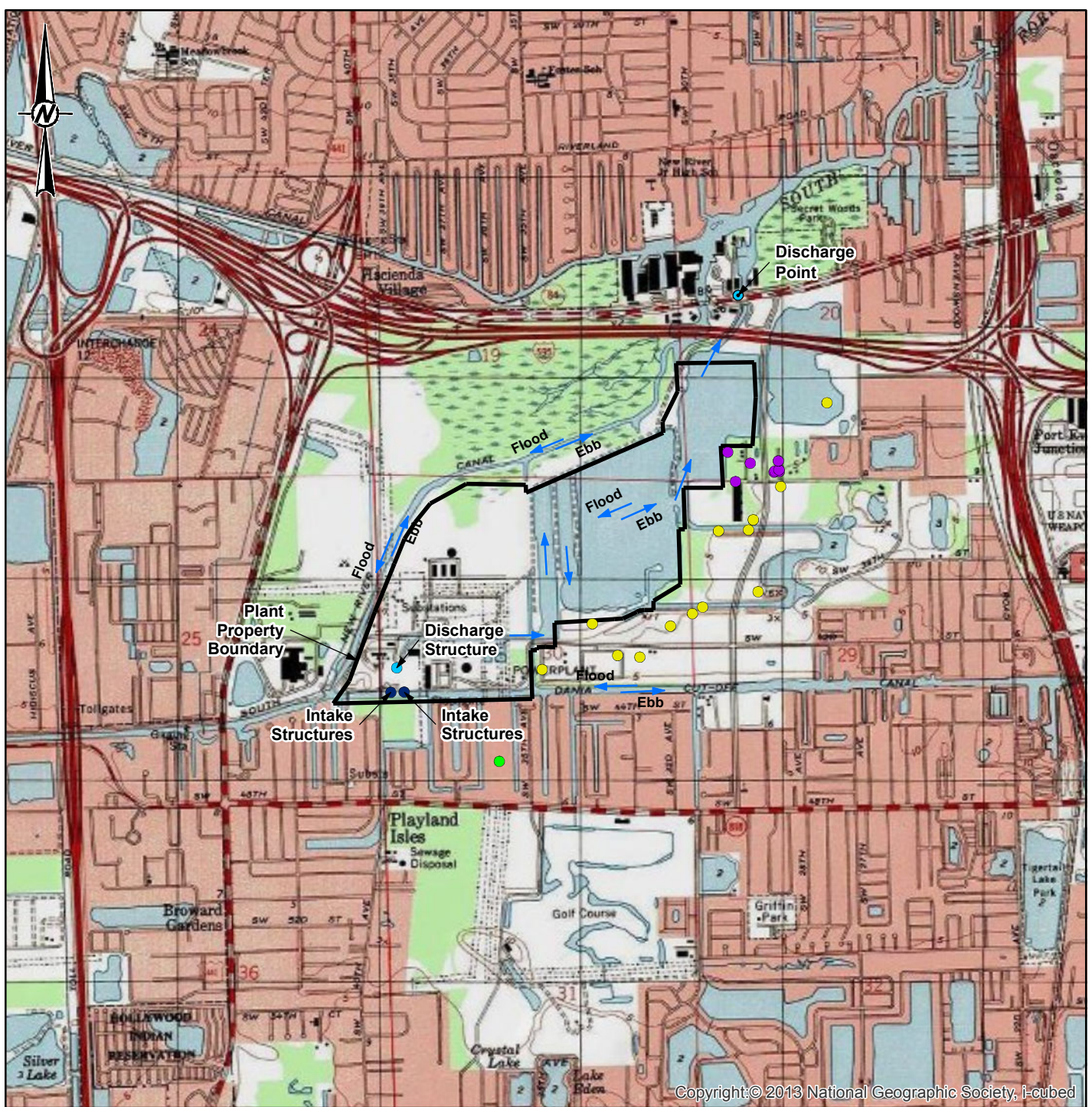
The Lauderdale Plant Industrial Wastewater Facility (IWWF/NPDES) permit modification to the existing permit FL0001503 (Major) is consistent with the antidegradation permitting requirements (62-4.242 F.A.C.) and the antidegradation policy for surface water quality (62-302.300 F.A.C.) for the following reasons:

1. The Project is in the public interest, as required by Section 62-4.242(1)(b)1 F.A.C.; and the Project is clearly important to and beneficial to the public health, safety and welfare. As discussed in Public Service Commission filings, the modernization project:
 - Will provide a reliable base load generating capacity in a region where demand is the highest.
 - Will improve fuel efficiency at the Lauderdale site, and on a FPL system-wide basis.
 - Will improve the environmental profile of the Lauderdale site by lowering emission rates.
 - Will result in a lower cost supply of electricity for FPL's customers, and
 - Will create new jobs and tax revenue for Florida's economy.
2. While the facility modification will provide approximately 25 percent more power, the permit modification does not propose a new or an expanded surface water discharge. To accomplish this, the DBEC (Unit 7) cooling system will use a hybrid design -- once-through steam cycle cooling, with an auxiliary cooling system that is designed to evaporate between 0.5 percent and 1.0 percent of the once-through cooling water flow and the existing cooling pond to dissipate heat.
3. Consequently, there is no new or expanded discharge for the following reasons. First, there is no change in the industrial activity. The proposed industrial activity (i.e., fossil-fuel electric generation) is exactly the same as under the existing permit. Second, for the same meteorological conditions (rainfall, cloud cover, temperature and dew point), the annual average daily flow (AADF) from Outfall D-001 to the South Fork of New River (WBID 3277A) will be less than or equal to the existing discharge rate. Third, pollutant loads, including the thermal or heat load, from the modernized facility through D-001 to South Fork New River will be less than or equal to that of the existing facility. All existing effluent limitations for Outfall D-001 (flow, temperature, TDS, pH, copper and Whole Effluent Toxicity test results) will be met by the modernized facility.
4. The permit modification will not result in any material or measurable water quality degradation.
5. The facility modification will not adversely affect conservation of fish and wildlife, including endangered or threatened species, or their habitats. The cooling water intake withdrawal rate (design intake flow) from the Dania Cutoff canal and the intake through-screen velocity will be unchanged. As discussed above, the thermal load to the South Fork New River will not exceed the existing thermal load. Therefore, the permit modification will have no adverse effect from impingement or entrainment on fish or shellfish; and there will be no adverse effect from the thermal discharge to the South Fork New River. In other words, there will be no water quality degradation related to CWA Sections 316(a) or 316(b). Based on conditions in the existing IWWF/NPDES permit, the facility is in the process of evaluating existing impacts from

impingement and entrainment. When the Best Technology Available (BTA) determination is final, the facility will implement any required changes to address existing impacts.

6. The modernization project will not adversely affect endangered or threatened species, or their habitat. The only state or federally listed species known to occupy the waters adjacent to the modernized facility is the West Indian manatee (*Trichechus manatus*). The cooling water discharge canal and quarry areas are used by manatees as a warm-water refuge during the winter months. FPL will construct a thermal refuge to protect manatees seeking warm water during cold weather conditions. The refuge will be available during the Unit 7 project construction phase, when the thermal discharge from the plant is temporarily discontinued and critical cold weather conditions are possible.
7. The permit modification is not inconsistent with any applicable Surface Water Improvement and Management Plan that has been adopted by the South Florida Water Management District.
8. The facility does not discharge to or degrade any Outstanding Florida Waters.

FORM 1
ATTACHMENT 3
LOCATION MAP



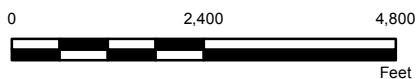
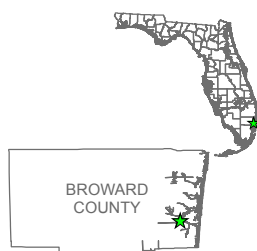
Copyright: © 2013 National Geographic Society, I-cubed

LEGEND

- Plant Property Boundary
- Discharge Point
- Discharge Structure
- Intake Structures
- Tidal Flow

Water Use Permits within 1/4mile of DBEC

- Agriculture
- Landscape
- Nursery



REFERENCE(S)

PLANT BOUNDARY, A.R. TOUSSAINT & ASSOCIATES, INC., 1989
WATER USE PERMITS, SFWMD, 2017

CLIENT
FPL

PROJECT
DANIA BEACH
ENERGY CENTER

TITLE
NPDES PERMIT
LOCATION MAP



YYYY-MM-DD	2017-06-26
DESIGNED	NRL
PREPARED	NRL
REVIEWED	GP
APPROVED	KFK

PROJECT NO.
1773823

CONTROL
H001

REV.
0

FIGURE
1

FORM 1

ATTACHMENT 4

WATER BALANCE DIAGRAM

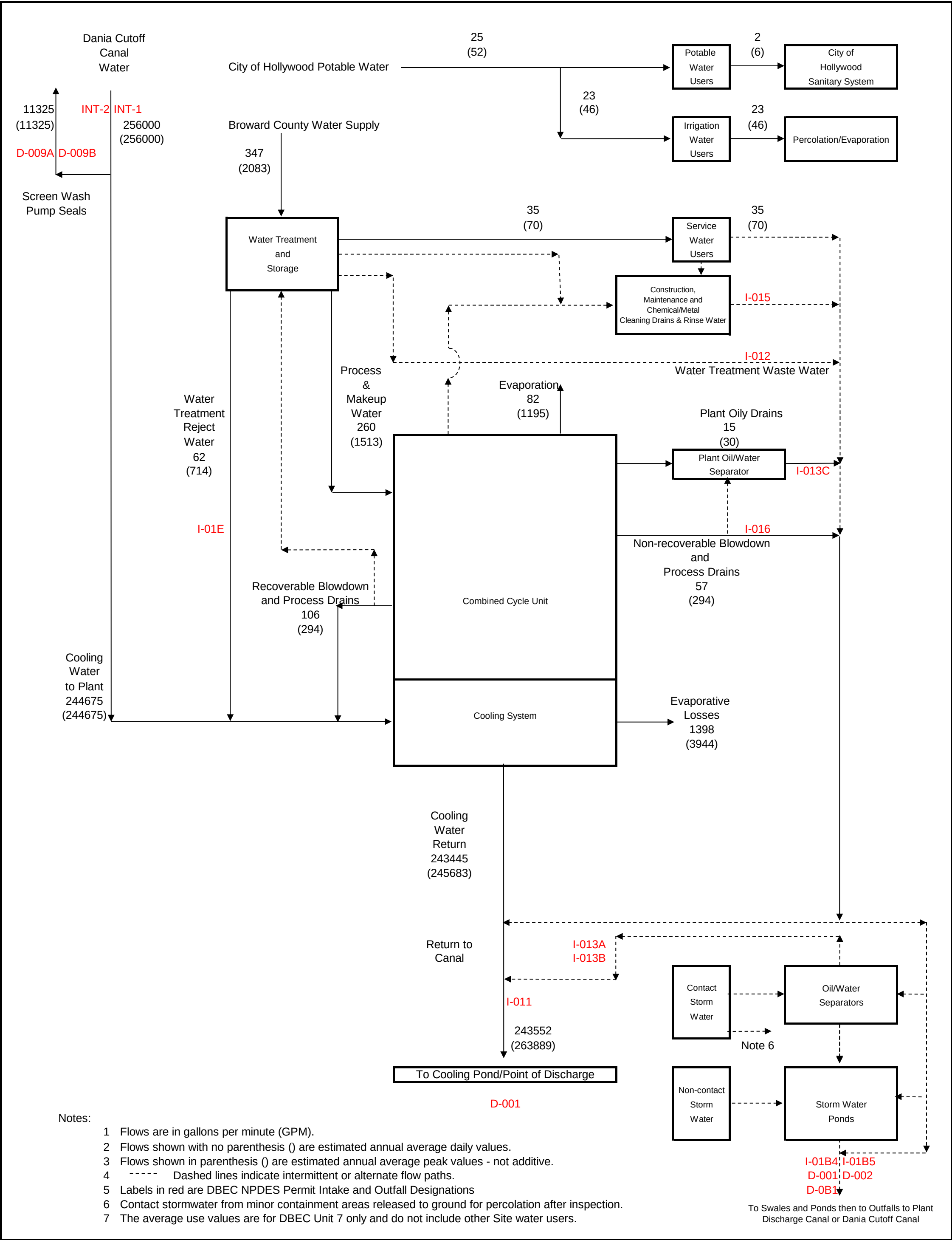


Figure 4.5-1
Water Balance for DBEC Unit 7



FORM 1

ATTACHMENT 5

IWWF/NPDES PERMIT



**FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION**

BOB MARTINEZ CENTER
2600 BLAIRSTONE ROAD MS 3505
TALLAHASSEE, FLORIDA 32399-2400

RICK SCOTT
GOVERNOR

CARLOS LOPEZ-CANTERA
LT. GOVERNOR

JONATHAN P. STEVERSON
SECRETARY

NOTICE OF PERMIT

SENT BY E-MAIL TO:
(dwayne.harper@fpl.com)

In the Matter of an
Application for Permit by:

Florida Power & Light Company (FP&L)
Ft. Lauderdale Plant
4300 SW 42nd Avenue
Fort Lauderdale, FL 33314

PA File No. FL0001503-006-IW1S
Broward County

Attention: Dwayne Harper
PGD Plant General Manager

Enclosed is Permit Number FL0001503 to Florida Power & Light Company, 700 Universe Blvd., Juno Beach, Florida, 33408 to operate wastewater treatment and effluent disposal facilities for Units 4 and 5 of the Lauderdale Power Plant located in Broward County, Florida, issued under Section 403.0885, Florida Statutes and DEP Rule 62-620, Florida Administrative Code.

Any party to this order (permit) has the right to seek judicial review of the permit under Section 120.68, Florida Statutes, by the filing of a Notice of Appeal under Rules 9.110 and 9.190, Florida Rules of Appellate Procedure, with the Clerk of the Department of Environmental Protection, Office of General Counsel, Mail Station 35, 3900 Commonwealth Boulevard, Tallahassee, Florida 32399-3000 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 thirty days after this notice is filed with the clerk of the Department.

Executed in Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION

Elsa Potts, P.E, Program Administrator

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this NOTICE OF PERMIT and all copies were mailed before the close of business on 06/08/15 to the listed persons.

[Clerk Stamp]

FILING AND ACKNOWLEDGMENT

FILED, on this date, under Section 120.52 (9), Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

Shirley Shields 06/08/15
(Clerk) (Date)

Copies furnished by e-mail to:

EPA Region 4 (r4npdespermits@epa.gov)
Karrie-Jo Shell, Power Plant NPDES Permits, EPA Region 4 (shell.karrie-jo@epamail.epa.gov)
Tim Ryan, Chairman, Board of Broward County Commissioner (tryan@broward.org)
FWC, Conservation Planning Services (fwcconservationPlanningServices@myfwc.com)
Jim Valade, U.S. Fish and Wildlife Service (jim_valade@fws.gov)
Florida Department of Economic Opportunity, State Land Planning Agency
(DCPPermits@deo.myflorida.com)
Florida Department of State, Bureau of Historic Preservation (compliancepermits@dos.myflorida.com)
U.S. Army Corps of Engineers (james.j.mcadams@usace.army.mil)
Timothy Powell (timothy.powell@fpl.com)
Meghna Pandya, FPL Juno Beach (meghna.pandya@fpl.com)
Susan Mazur, FPL Juno Beach (susan.mazur@fpl.com)
Janice Szufilita, DEP West Palm Beach (janice.szufilita@dep.state.fl.us)



**FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION**
BOB MARTINEZ CENTER
2600 BLAIRSTONE ROAD MS 3505
TALLAHASSEE, FLORIDA 32399-2400

RICK SCOTT
GOVERNOR

CARLOS LOPEZ-CANTERA
LT. GOVERNOR

JONATHAN P. STEVERSON
SECRETARY

**STATE OF FLORIDA
INDUSTRIAL WASTEWATER FACILITY PERMIT**

PERMITTEE:

Florida Power & Light Company
700 Universe Boulevard
Juno Beach, FL 33408

PERMIT NUMBER: FL0001503 (Major)
FILE NUMBER: FL0001503-006-IW1S
ISSUANCE DATE: June 8, 2015
EFFECTIVE DATE: June 25, 2015
EXPIRATION DATE: June 24, 2020

Mr. Dwayne Harper
4300 SW 42nd Avenue
Fort Lauderdale, FL 33314

FACILITY:

FPL - Lauderdale Power Plant
4300 SW 42nd Avenue
Fort Lauderdale, FL 33314
Broward County
Latitude: 26°4' 7.38" N Longitude: 80°11' 56.76" W

This permit is issued under the provisions of Chapter 403, Florida Statutes (F.S.), and applicable rules of the Florida Administrative Code (F.A.C.) and constitutes authorization to discharge to waters of the state under the National Pollutant Discharge Elimination System. This permit does not constitute authorization to discharge wastewater other than as expressly stated in this permit. The above named permittee is hereby authorized to operate the facilities in accordance with the documents attached hereto and specifically described as follows:

FACILITY DESCRIPTION:

The facility is an electric generating plant with a total nameplate rating of 1,874 megawatts (MW). The existing facility consists of two natural gas fired combined-cycle generating units (Units 4 and 5), two banks of twelve simple-cycle gas turbine units, and eight fuel storage tanks. Each combined-cycle unit consists of two combustion turbines (CT) each of which exhaust through a separate heat recovery steam generator (HRSG). Each HRSG converts the heat from the CT exhaust into steam. The steam produced from the two HRSG units drives one single-reheat turbine generator. Each combined-cycle unit has a net summer continuous capability of 430 megawatts (MW). Each bank of simple-cycle gas turbines has a net capability of 504 MW.

Units 4 and 5 have a condenser once-through cooling water (OTCW) system and an auxiliary equipment cooling water (AECW) system that uses water from the Dania Cutoff Canal, a coastal marine waterbody. Plant intake screens consist of bar (coarse) screens, traveling screens and a floating trash boom. Screen wash water and debris removed from the screens flow together through intake structure troughs which discharge into a trash bucket that traps the debris and allows the wash water to return to the Dania Cutoff Canal. The open cooling water circulating pumps discharge into a common header which routes the water through three closed cooling water heat exchangers. The cooling water is then released to the discharge canal via two (one per each unit) 24-inch reinforced plastic discharge pipes. The plant's discharge canal discharges into an on-site once-through cooling pond. After passing through the cooling pond the water passes under State Road 84 and discharges via Outfall D-001 into the South Fork of the New River (Class III marine).

WASTEWATER TREATMENT:

Boiler blowdown, metal cleaning wastes, and pretreated oily waste streams are treated in the plant's wastewater treatment system prior to discharge to the discharge canal. Additional wastewater treatment includes chlorination with chlorine gas, sodium hypochlorite, or similar chlorination compounds for once-through cooling water and auxiliary-equipment cooling

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EXPIRATION DATE: June 24, 2020

water; pH-adjustment (if necessary) of reverse osmosis reject-water, and neutralization of demineralizer-regeneration water. These wastewaters are discharged to the discharge canal, which in turn discharges to an on-site, once-through cooling pond. The once-through cooling pond discharges from Outfall D-001 through a culvert to the South Fork of the New River, a Class III Marine surface water body. Additional permitted surface water discharges include stormwater through Outfall D-00B1 and intake-screen wastewater and strainer backwash water through Outfall D-009. Outfalls D-00B1 and D-009 discharge to the Dania Cutoff Canal.

REUSE OR DISPOSAL:

Surface Water Discharge D-001: An existing 332 MGD annual average daily flow (AADF) discharge to the South Fork of New River (WBID 3277A), Class III Marine waters, from **Outfall D-001**, via a culvert at the downstream end of the once-through cooling pond system. The point of discharge is located approximately at latitude 26° 05' 09" N, longitude 80°10' 55" W.

Surface Water Discharge D-00B1: An existing storm water discharge to Dania Cutoff Canal (WBID 3277E), Class III Marine Waters. The point of discharge is located approximately at latitude 26°4' 5" N, longitude 80° 11' 44" W.

Surface Water Discharge D-009: An existing intake screen washwater and strainer backwash water discharge from **Outfall D-009** to Dania Cutoff Canal (WBID 3277E), Class III Marine waters. The point of discharge is located approximately at latitude 26° 04' 05" N, longitude 80° 11' 58" W.

Internal Outfall I-012: An existing permitted discharge to the discharge canal to the cooling pond.

Internal Outfall I-013: An existing permitted discharge to the discharge canal to the cooling pond.

Internal Outfall I-015: An existing permitted discharge to the discharge canal to the cooling pond.

Internal Outfall I-1B2: An existing permitted stormwater discharge to the discharge canal to the cooling pond.

Internal Outfall I-01E: An existing permitted discharge to the discharge canal to the cooling pond.

Internal Outfall I-11A: An existing permitted discharge to the discharge canal to the cooling pond.

Internal Outfall I-11B: An existing permitted discharge to the discharge canal to the cooling pond.

Internal Outfall I-16A: An existing permitted discharge to the discharge canal to the cooling pond.

Internal Outfall I-1B3: An existing permitted stormwater discharge to the discharge canal to the cooling pond

Internal Outfall I-16B: An existing permitted discharge to the discharge canal to the cooling pond.

Internal Outfall I-01D: An existing permitted discharge to the discharge canal to the cooling pond.

IN ACCORDANCE WITH: The limitations, monitoring requirements and other conditions set forth in this Cover Sheet and Part I through Part IX on pages 1 through 29 of this permit.

PERMITTEE: Florida Power & Light
FACILITY: Lauderdale Power Plant

PERMIT NUMBER: FL0001503-003 (Major)
EXPIRATION DATE: June 24, 2020

I. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

A. Surface Water Discharges

- During the period beginning on the effective date and lasting through the expiration date of this permit, the permittee is authorized to discharge Cooling Pond Discharge from Outfall D-001 to South Fork New River. Such discharge shall be limited and monitored by the permittee as specified below and reported in accordance with Permit Condition I.C.3.:

			Effluent Limitations		Monitoring Requirements			
Parameter	Units	Max/Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
Flow	MGD	Max Max Max	Report Report 380	Daily Maximum Monthly Average Annual Average	Daily	Calculated	EFF-3	
Temperature, Water	Deg F	Max Max	101.1 99.0	Daily Maximum Monthly Average	Continuous	Recorder	EFF-3	June -Sept
		Max Max	99.0 96.0	Daily Maximum Monthly Average				October - May
Solids, Total Dissolved (TDS)	mg/L	Max Max	Report Report	Daily Maximum Monthly Average	Bi-monthly	Grab	EFF-3	
pH	s.u.	Min Max	6.5 8.5	Daily Minimum Daily Maximum	Bi-monthly	Grab	EFF-3	
Copper, Total Recoverable	ug/l	Max	Report	Single Sample	Quarterly	Grab	EFF-3 INT-1	See Condition I.A.3 below
Chronic Whole Effluent Toxicity, 7-Day IC25 (Mysidopsis bahia)	percent	Min	100	Single Sample	Semi-annually	Grab	EFF-3	
Chronic Whole Effluent Toxicity, 7-Day IC25 (Menidia beryllina)	percent	Min	100	Single Sample	Semi-annually	Grab	EFF-3	

- Effluent samples shall be taken at the monitoring site locations listed in Permit Condition I.A.1. and as described below:

Monitoring Site Number	Description of Monitoring Site
INT-1	OTCW intake for Unit 4
EFF-3	The point of discharge from the cooling pond prior to entering the South Fork New River.

- The permittee may request a reduction in monitoring by permit revision if monitoring results indicate copper levels below the WQS for a period of four quarters or if the permittee demonstrates that the discharge copper level in the discharge is statistically equal to or less than the intake.
- The permittee shall comply with the following requirements to evaluate chronic whole effluent toxicity of the discharge from outfall D-001.

PERMITTEE: Florida Power & Light
FACILITY: Lauderdale Power Plant

PERMIT NUMBER: FL0001503-003 (Major)
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- a. Effluent Limitation
 - (1) In any routine or additional follow-up test for chronic whole effluent toxicity, the 25 percent inhibition concentration (IC25) shall not be less than 100% effluent. [Rules 62-302.530(61) and 62-4.241(1)(b), F.A.C.]
 - (2) For acute whole effluent toxicity, the 96-hour LC50 shall not be less than 100% effluent in any test. Acute toxicity testing is not required except as provided in 3.g.(4). [Rule 62-302.500(1)(a)4. and 62-4.241(1)(a), F.A.C.]
- b. Monitoring Frequency
 - (1) Routine toxicity tests shall be conducted once every six months, pursuant to the existing established schedule and lasting for the duration of this permit.
- c. Sampling Requirements
 - (1) For each routine test or additional follow-up test conducted, a total of three grab samples of final effluent shall be collected and used in accordance with the sampling protocol discussed in EPA-821-R-02-014, Section 8.
 - (2) The first sample shall be used to initiate the test. The remaining two samples shall be collected according to the protocol and used as renewal solutions on Day 3 (48 hours) and Day 5 (96 hours) of the test.
 - (3) Samples for routine and additional follow-up tests shall not be collected on the same day.
- d. Test Requirements
 - (1) Routine Tests: All routine tests shall be conducted using a control (0% effluent) and a minimum of five test dilutions: **100%, 50%, 25%, 12.5%, and 6.25%** final effluent.
 - (2) The permittee shall conduct 7-day survival and growth chronic toxicity tests with a mysid shrimp, **Americamysis (Mysidopsis) bahia**, Survival, Growth and Fecundity Test, and an inland silverside, **Menidia beryllina**, Larval Survival and Growth Test, concurrently.
 - (3) All test species, procedures and quality assurance criteria used shall be in accordance with **Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Saltwater Organisms**, 4th ed., EPA-821-R-02-014. Any deviation of the bioassay procedures outlined herein shall be submitted in writing to the Department for review and approval prior to use. In the event the above method is revised, the permittee shall conduct chronic toxicity testing in accordance with the revised method.
 - (4) The control water and dilution water used shall be artificial sea salts as described in EPA-821-R-02-014, Section 7.2. The test salinity shall be determined as follows:
 - (a) For the **Americamysis bahia** bioassays, the effluent shall be adjusted to a salinity of 20 parts per thousand (ppt). The salinity of the control/dilution water (0% effluent) shall be 20 ppt. If the salinity of the effluent is greater than 20 ppt, no salinity adjustment shall be made to the effluent and the test shall be run at the effluent salinity. The salinity of the control/dilution water shall match the salinity of the effluent.
 - (b) For the **Menidia beryllina** bioassays, the effluent shall be adjusted to 5 ppt. The salinity of the control/dilution water (0% effluent) shall be 5 ppt. If the salinity of the effluent is greater than 5 ppt, no salinity adjustment shall be made to the effluent and the test shall be run at the effluent salinity. The salinity of the control/dilution water shall match the salinity of the effluent.
 - (c) If the salinity of the effluent requires adjustment, a salinity adjustment control should be prepared and included with each bioassay. The salinity adjustment control is intended to identify toxicity resulting from adjusting the effluent salinity with artificial sea salts. To prepare the salinity adjustment control, dilute the control/dilution water to the salinity of the effluent and adjust the salinity of the salinity adjustment control at the same time and to the same salinity that the salinity of the effluent is adjusted using the same artificial sea salts.
- e. Quality Assurance Requirements
 - (1) A standard reference toxicant (SRT) quality assurance (QA) chronic toxicity test shall be conducted with each species used in the required toxicity tests either concurrently or initiated no more than 30 days before the date of each routine or additional follow-up test conducted. Additionally, the SRT test must be conducted concurrently if the test organisms are obtained from outside the test laboratory unless the test organism supplier provides control chart data from at least the last five monthly chronic

PERMITTEE: Florida Power & Light
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EXPIRATION DATE: June 24, 2020

toxicity tests using the same reference toxicant and test conditions. If the organism supplier provides the required SRT data, the organism supplier's SRT data and the test laboratory's monthly SRT-QA data shall be included in the reports for each companion routine or additional follow-up test required.

- (2) If the mortality in the control (0% effluent) exceeds 20% for either species in any test or any test does not meet "test acceptability criteria", the test for that species (including the control) shall be invalidated and the test repeated. Test acceptability criteria for each species are defined in EPA-821-R-02-014, Section 14.12 (*Americamysis bahia*) and Section 13.12 (*Menidia beryllina*). The repeat test shall begin within 21 days after the last day of the invalid test.
- (3) If 100% mortality occurs in all effluent concentrations prior to the end of any test and the control mortality is less than 20% at that time, the test (including the control) shall be terminated with the conclusion that the test fails and constitutes non-compliance.
- (4) Additional follow-up tests shall be evaluated for acceptability based on the observed dose-response relationship as required by EPA-821-R-02-014, Section 10.2.6., and the evaluation shall be included with the bioassay laboratory reports.

f. Reporting Requirements

- (1) Results from all required tests shall be reported on the Discharge Monitoring Report (DMR) as follows:
 - (a) Routine and Additional Follow-up Test Results: The calculated IC25 for each test species shall be entered on the DMR.
- (2) A bioassay laboratory report for each routine test shall be prepared according to EPA-821-R-02-014, Section 10, Report Preparation and Test Review, and mailed to the Department at the address below within 30 days after the last day of the test.
- (3) For additional follow-up tests, a single bioassay laboratory report shall be prepared according to EPA-821-R-02-014, Section 10, and mailed within 30 days after the last day of the second valid additional follow-up test.
- (4) Data for invalid tests shall be included in the bioassay laboratory report for the repeat test.
- (5) The same bioassay data shall not be reported as the results of more than one test.
- (6) All bioassay laboratory reports shall be sent to:
Florida Department of Environmental Protection
Tallahassee Office
2600 Blair Stone Road, M.S. 3545
Tallahassee, Florida 32399-2400

g. Test Failures

- (1) A test fails when the test results do not meet the limits in 3.a.(1).
- (2) Additional Follow-up Tests:
 - (a) If a routine test does not meet the chronic toxicity limitation in 3.a.(1) above, the permittee shall notify the Department at the address above within 21 days after the last day of the failed routine test and conduct two additional follow-up tests according to 3.d. on each species that failed the test on each species that failed the test in accordance with 3.d.
 - (b) The first test shall be initiated within 28 days after the last day of the failed routine test. The remaining additional follow-up tests shall be conducted weekly thereafter until a total of two valid additional follow-up tests are completed.
 - (c) The first additional follow-up test shall be conducted using a control (0% effluent) and a minimum of five dilutions: 100%, 50%, 25%, 12.5%, and 6.25% effluent. The permittee may modify the dilution series in the second additional follow-up test to more accurately bracket the toxicity such that at least two dilutions above and two dilutions below the target concentration and a control (0% effluent) are run. All test results shall be statistically analyzed according to the Appendices in EPA-821-R-02-014.
- (3) In the event of three valid test failures (whether routine or additional follow-up tests) within a 12-month period, the permittee shall notify the Department within 21 days after the last day of the third test failure.
 - (a) The permittee shall submit a plan for correction of the effluent toxicity within 60 days after the last day of the third test failure.
 - (b) The Department shall review and approve the plan before initiation.

PERMITTEE: Florida Power & Light
FACILITY: Lauderdale Power Plant

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- (c) The plan shall be initiated within 30 days following the Department's written approval of the plan.
- (d) Progress reports shall be submitted quarterly to the Department at the address above.
- (e) During the implementation of the plan, the permittee shall conduct quarterly routine whole effluent toxicity tests in accordance with 3.d. Additional follow-up tests are not required while the plan is in progress. Following completion or termination of the plan, the frequency of monitoring for routine and additional follow-up tests shall return to the schedule established in 3.b.(1). If a routine test is invalid according to the acceptance criteria in EPA-821-R-02-014, a repeat test shall be initiated within 21 days after the last day of the invalid routine test.
- (f) Upon completion of four consecutive, valid routine tests that demonstrate compliance with the effluent limitation in 3.a.(1) above, the permittee may submit a written request to the Department to terminate the plan. The plan shall be terminated upon written verification by the Department that the facility has passed at least four consecutive valid routine whole effluent toxicity tests. If a test within the sequence of the four is deemed invalid, but is replaced by a repeat valid test initiated within 21 days after the last day of the invalid test, the invalid test will not be counted against the requirement for four consecutive valid tests for the purpose of terminating the plan.
- (4) If chronic toxicity test results indicate greater than 50% mortality within 96 hours in an effluent concentration equal to or less than the effluent concentration specified as the acute toxicity limit in 3.a.(2), the Department may revise this permit to require acute definitive whole effluent toxicity testing.
- (5) The additional follow-up testing and the plan do not preclude the Department taking enforcement action for acute or chronic whole effluent toxicity permit limit violations.

[62-4.241, 62-620.620(3)]

- 5. The permittee shall maintain current intake traveling screen practices so as to assure that the screens are cycled at least twice during each 24 hours of continuous operation unless precluded by repair or maintenance requirements. The intake through-screen velocity shall be maintained at current levels such that existing maximum velocity is not exceeded.
- 6. During the period beginning on the effective date and lasting through the expiration date of this permit, the permittee is authorized to discharge stormwater from Outfall D-0B1 to Dania Cut-Off Canal. Occasionally, the runoff may mix with de minimis quantities of process water from minor leaks or spills from the steam generating facilities associated with these units. Such discharge shall be limited and monitored by the permittee as specified below and reported in accordance with Permit Condition I.C.3.:

			Effluent Limitations		Monitoring Requirements			
Parameter	Units	Max/ Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
Flow	MGD	Max	Report	Daily Maximum	Quarterly, when discharging	Calculated	EFF-8	See Condition I.A.9
Solids, Total Suspended	mg/L	Max	50.0	Daily Maximum	Quarterly, when discharging	Grab	EFF-8	See Condition I.A.9
pH	s.u.	Min Max	6.0 9.0	Daily Minimum Daily Maximum	Weekly, when discharging	Grab	EFF-8	

- 7. Effluent samples shall be taken at the monitoring site locations listed in Permit Condition I.A.6 and as described below:

Monitoring Site Number	Description of Monitoring Site
EFF-8	Stormwater runoff discharge from Outfall D-00B1 prior to entering the Dania Cutoff Canal.

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8. Discharge of intake screen washwater and strainer backwash via Outfall D-009 to the Dania Cutoff Canal is permitted without limitation or monitoring requirements, except that there shall be no discharge of floating solids or visible foam in other than trace amount and no discharge of a visible oil sheen at any time.
9. Monitoring is not required if a discharge results from rainfall in excess of the 10-year, 24-hour rainfall event.
10. The discharge shall not contain components that settle to form putrescent deposits or float as debris, scum, oil, or other matter. [62-302.500(1)(a)]

B. Internal Outfalls

1. During the period beginning on the effective date and lasting through the expiration date of this permit, the permittee is authorized to discharge Demineralizer Regeneration Wastewater from I-012 to the discharge canal to cooling pond. Such discharge shall be limited and monitored by the permittee as specified below and reported in accordance with Permit Condition .C.3.:

			Effluent Limitations		Monitoring Requirements			
Parameter	Units	Max/ Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Moni- toring Site Number	Notes
Flow	MGD	Max Max	Report Report	Daily Maximum Monthly Average	Per batch of process	Calculated	EFF-12	
Oil and Grease	mg/L	Max Max	15.0 20.0	Monthly Average Daily Maximum	Once every 2 months, when discharging	Grab	EFF-12	
Solids, Total Suspended	mg/L	Max Max	30 100	Monthly Average Daily Maximum	Once every 2 months, when discharging	Grab	EFF-12	
pH	s.u.	Min Max	6.0 9.0	Daily Minimum Daily Maximum	Once every 2 months, when discharging	Grab	EFF-12	
Nitrogen, Total	mg/l	NA	Report	Single Sample	Quarterly	Grab	EFF-12	See Condition I.B14
Phosphorus, Total	mg/l	NA	Report	Single Sample	Quarterly	Grab	EFF-12	See Condition I.B14

2. Effluent samples shall be taken at the monitoring site locations listed in Permit Condition I.B.1. and as described below:

Monitoring Site Number	Description of Monitoring Site
EFF-12	Demineralizer regeneration wastewater discharge prior to entering the discharge canal.

3. During the period beginning on the effective date and lasting through the expiration date of this permit, the permittee is authorized to discharge Wastewater treatment system effluent from I-013 to discharge canal to cooling pond. Such discharge shall be limited and monitored by the permittee as specified below and reported in accordance with Permit Condition I.C.3.:

		Effluent Limitations	Monitoring Requirements
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Parameter	Units	Max/ Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
Flow	MGD	Max Max	Report Report	Daily Maximum Monthly Average	Continuous	Recording Flow Meter with Totalizer	EFF-13	
Oil and Grease	mg/L	Max Max	15 20	Monthly Average Daily Maximum	Semi-annual	Grab	EFF-13	
Solids, Total Suspended	mg/L	Max Max	30.0 100.0	Monthly Average Daily Maximum	Semi-annual	Grab	EFF-13	
pH	s.u.	Min Max	6.0 9.0	Daily Minimum Daily Maximum	Monthly	Grab	EFF-13	
Nitrogen, Total	mg/l	NA	Report	Single Sample	Quarterly	Grab	EFF-13	See Condition I.B.14
Phosphorus, Total	mg/l	NA	Report	Single Sample	Quarterly	Grab	EFF-13	See Condition I.B.14

4. Effluent samples shall be taken at the monitoring site locations listed in Permit Condition I.B.3. and as described below:

Monitoring Site Number	Description of Monitoring Site
EFF-13	Wastewater treatment system effluent discharge of low volume waste (not including metal cleaning waste) prior to entering the discharge canal.

5. During the period beginning on the effective date and lasting through the expiration date of this permit, the permittee is authorized to discharge metal cleaning wastewater¹ from I-015 to discharge canal to cooling pond. Such discharge shall be limited and monitored by the permittee as specified below and reported in accordance with Permit Condition I.C.3.:

				Effluent Limitations	Monitoring Requirements			
Parameter	Units	Max/Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
Flow, Total Volume	Mgal	Max Max	Report Report	Daily Maximum Monthly Total	Continuous, when discharging	Recording Flow Meter with Totalizer ²	EFF-14	See Condition I.B.7
Copper, Total Recoverable	mg/L	Max	1.0	Daily Maximum	Per batch of process ³	24-hr Composite ⁴	EFF-14	See Condition I.B.8

¹ Metal cleaning waste may be batch treated separately from other waste-streams and discharged from the wastewater treatment system to the discharge canal through the same Outfall (I-13) from which treated low volume waste is discharged. However, the discharge outfall for treated metal cleaning waste shall be designated as Outfall I-015 for the purpose of identifying the discharge and establishing effluent limitation and monitoring requirements.

² Flow meters shall be calibrated at least once a year in accordance with the manufacturer's recommendations. Calibration records shall be maintained on-site in accordance with Section V.2 of this permit.

³ or once per day, whichever is more frequent.

⁴ Shall be defined as a composite of samples taken at the beginning, middle, and end of discharge period.

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			Effluent Limitations		Monitoring Requirements			
Parameter	Units	Max/Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
Iron, Total Recoverable	mg/L	Max	1.0	Daily Maximum	Per batch of process ³	24-hr Composite ⁴	EFF-14	See Condition I.B.8
Oil and Grease	mg/L	Max	15.0	Daily Maximum	Per batch of process ³	24-hr Composite ⁴	EFF-14	
Solids, Total Suspended	mg/L	Max	30	Daily Maximum	Per batch of process ³	24-hr Composite ⁴	EFF-14	

6. Effluent samples shall be taken at the monitoring site locations listed in Permit Condition I.B.5. and as described below:

Monitoring Site Number	Description of Monitoring Site
EFF-14	Wastewater treatment system effluent discharge of metal cleaning waste prior to entering the discharge canal.

7. The volume of metal cleaning waste generated during boiler chemical cleaning shall also be reported.
8. For wastes resulting from the evaporation of spent boiler chemical cleaning wastes, the quantities of total iron and total copper shall not exceed the quantity determined by multiplying the volume of spent boiler chemical cleaning waste evaporated times 1.0 mg/l.

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9. During the period beginning on the effective date and lasting through the expiration date of this permit, the permittee is authorized to discharge stormwater from I-1B2 and I-1B3 to discharge canal to cooling pond. Such discharge shall be limited and monitored by the permittee as specified below and reported in accordance with Permit Condition I.C.3.:

			Effluent Limitations		Monitoring Requirements			
Parameter	Units	Max/Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
Flow	MGD	Max	Report	Daily Maximum	Weekly, when discharging	Calculated	EFF-9 EFF-10	See condition I.B.11
Solids, Total Suspended	mg/L	Max	50.0	Daily Maximum	Quarterly, when discharging	Grab	EFF-9 EFF-10	See condition I.B.11
pH	s.u.	Min Max	6.0 9.0	Daily Minimum Daily Maximum	Quarterly, when discharging	Grab	EFF-9 EFF-10	

10. Effluent samples shall be taken at the monitoring site locations listed in Permit Condition I.B.9. and as described below:

Monitoring Site Number	Description of Monitoring Site
EFF-9	Stormwater runoff discharge from Outfalls I-01B2 prior to entering the onsite canal.
EFF-10	Stormwater runoff discharge from Outfalls I-01B3 prior to entering the onsite canal.

11. Monitoring is not required if a discharge results from rainfall in excess of the 10-year, 24-hour rainfall event.

12. During the period beginning on the effective date and lasting through the expiration date of this permit, the permittee is authorized to discharge reverse osmosis reject water from I-01E to discharge canal to cooling pond. Such discharge shall be limited and monitored by the permittee as specified below and reported in accordance with Permit Condition I.C.3.:

			Effluent Limitations		Monitoring Requirements			
Parameter	Units	Max/Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
Flow	MGD	Max Max	Report Report	Daily Maximum Monthly Average	Weekly	Calculated	EFF-11	
Oil and Grease	mg/L	Max Max	15.0 20.0	Monthly Average Daily Maximum	Semi-annual	Grab	EFF-11	
Solids, Total Suspended	mg/L	Max Max	30.0 100.0	Annual Average Daily Maximum	Once every 2 months	8-hour flow proportioned composite	EFF-11	

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Nitrogen, Total	mg/l	NA	Report	Single Sample	Quarterly	Grab	EFF-11	See Condition I.B.14
Phosphorus, Total	mg/l	NA	Report	Single Sample	Quarterly	Grab	EFF-11	See Condition I.B.14

13. Effluent samples shall be taken at the monitoring site locations listed in Permit Condition I.B.12. and as described below:

Monitoring Site Number	Description of Monitoring Site
EFF-11	Reverse Osmosis reject wastewater prior to entering the discharge canal.

14. The permittee may request a reduction in Nitrogen and Phosphorus monitoring from quarterly to semi-annual after four quarters of sampling for Outfall I-013, I-015, and I-01E.

15. During the period beginning on the effective date and lasting through the expiration date of this permit, the permittee is authorized to discharge Unit 4 once-through cooling water and auxiliary equipment cooling water from I-11A to discharge canal to cooling pond. Such discharge shall be limited and monitored by the permittee as specified below and reported in accordance with Permit Condition I.C.3.:

			Effluent Limitations		Monitoring Requirements			
Parameter	Units	Max/Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
Flow	MGD	Max Max	Report Report	Daily Maximum Monthly Average	Continuous	Calculated	INT-1	
Temperature, Water	Deg F	Max Max	Report Report	Daily Maximum Monthly Average	Continuous	Meter	EFF-1	See Condition I.B.20
		Max Max	Report Report	Daily Maximum Monthly Average	Continuous	Meter	INT-1	See Condition I.B.20
Temperature Rise (ΔT), Water	Deg F	Max Max	13.2 Report	Monthly Average Daily Maximum	Daily	Calculated	EFF-1	
Oxidants, Total Residual	mg/L	Max Max	0.20 0.20	Daily Maximum Monthly Average	Weekly	Multiple Grab	EFF-1	See Condition I.B.19
Chlorination Duration (AECW)	min	Max	1440	Daily Maximum	Daily	Calculated	INT-3	
Chlorination Duration (OTCW)	min	Max	120	Daily Maximum	Daily	Calculated	INT-5	
pH	s.u.	Min Max	6.0 9.0	Daily Minimum Daily Maximum	Weekly	Grab	EFF-4	See Condition I.B.21

16. Effluent samples shall be taken at the monitoring site locations listed in Permit Condition I.B.14 and as described below:

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Monitoring Site Number	Description of Monitoring Site
INT-1	OTCW intake for Unit 4
EFF-1	OTCW discharge for Units 4.
INT-3	Point of chlorine addition for AECW for Unit 4
INT-5	Point of chlorine addition for OTCW for Units 4.
EFF-4	A location after combination of once-through cooling water from Units 4 and/or 5 with Outfalls I-16, I-01E and/or I-012, as appropriate but prior to entering the cooling pond or mixing with any other waste stream.

17. During the period beginning on the effective date and lasting through the expiration date of this permit, the permittee is authorized to discharge Unit 5 once-through cooling water and auxiliary equipment cooling water from I-11B to Discharge canal to cooling pond. Such discharge shall be limited and monitored by the permittee as specified below and reported in accordance with Permit Condition I.C.3.:

			Effluent Limitations		Monitoring Requirements			
Parameter	Units	Max/Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
Flow	MGD	Max Max	Report Report	Daily Maximum Monthly Average	Continuous	Calculated	INT-2	
Temperature (F), Water	Deg F	Max Max	Report Report	Daily Maximum Monthly Average	Continuous	Meter	EFF-2	See Condition I.B.20
Temperature (F), Water	Deg F	Max Max	Report Report	Daily Maximum Monthly Average	Continuous	Meter	INT-2	See Condition I.B.20
Temp. Diff. between Intake and Discharge	Deg F	Max Max	13.2 Report	Monthly Average Daily Maximum	Daily	Calculated	EFF-2	
Oxidants, Total Residual	mg/L	Max	0.20 0.20	Daily Maximum Monthly Average	Weekly	Multiple Grab	EFF-2	See Condition I.B.19
Chlorination Duration (AECW)	min	Max	1440	Daily Maximum	Daily	Meter	INT-4	
Chlorination Duration (OTCW)	min	Max	120	Daily Maximum	Daily	Meter	INT-6	
pH	s.u.	Min Max	6.0 9.0	Daily Minimum Daily Maximum	Weekly	Grab	EFF-4	See Condition I.B.21

18. Effluent samples shall be taken at the monitoring site locations listed in Permit Condition I.B.19. and as described below:

Monitoring Site Number	Description of Monitoring Site
INT-2	OTCW intake for Unit 5.
EFF-2	OTCW for Unit 5
INT-4	Point of chlorine addition for AECW for Unit 5
INT-6	Point of chlorine addition for OTCW for Unit 5
EFF-4	A location after combination of once-through cooling water from Units 4 and/or 5 with Outfalls I-16, I-01E and/or I-012, as appropriate but prior to entering the cooling pond or mixing with any other waste stream.

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19. Total Residual Oxidants (TRO) means the value obtained using the amperometric titration method for total residual chlorine or the Hach model 19300 or equivalent). Testing for TRO by titration shall be conducted according to either the low-level amperometric method, or the DPD calorimetric method as specified in section 4500-Cl E. or 4500 Cl G., respectively, Standard Methods for the examination of Water and Waste water, 18th Edition (or most current edition).

The permittee shall collect samples when chlorine is in use. TRO monitoring requirements for either Unit 4 or 5 are not applicable for any week in which chlorine is not added to that unit. No more than one unit shall discharge total residual oxidant at any one time.

Multiple grabs for TRO shall be defined as once per five minutes during TRO discharge periods of 30 minutes or less and once per 15 minutes for periods exceeding 30 minutes with no less than four analyses during the period of TRO discharge (sampling shall be continued until the end of the TRO discharge).

20. The permittee shall maintain and operate continuous recording temperature devices at the intake, the condenser outlet, and point of discharge from the cooling pond to monitor compliance with thermal limits.
21. The pH shall be monitored once per day during periods when all OTCW and AECW pumps are off-line and wastewaters from Outfalls I-16A, I-16B, I-01E and/or I-012 are being discharged.
22. During the period beginning on the effective date and lasting through the expiration date of this permit, the permittee is authorized to discharge Unit 4 Heat Recovery Steam Generator (HRSG) boiler blowdown from I-16A to discharge canal to cooling pond. Such discharge shall be limited and monitored by the permittee as specified below and reported in accordance with Permit Condition I.C.3.:

			Effluent Limitations		Monitoring Requirements			
Parameter	Units	Max/Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
Flow	MGD	Max Max	Report Report	Daily Maximum Monthly Average	Monthly	Calculated	EFF-5	
Oil and Grease	mg/L	Max Max	15.0 20.0	Monthly Average Daily Maximum	Monthly	Grab	EFF-5	
Solids, Total Suspended	mg/L	Max Max	30.0 100.0	Monthly Average Daily Maximum	Monthly	8-hr FPC	EFF-5	

23. Effluent samples shall be taken at the monitoring site locations listed in Permit Condition I.B.21. and as described below:

Monitoring Site Number	Description of Monitoring Site
EFF-5	HRSG boiler blowdown discharge from Unit 4 but prior to entering the onsite canal or mixing with any other waste stream.

24. Discharge of Hydrazine in Units 4 and 5 HRSG blowdown and in plant lay-up water is authorized without limitation or monitoring requirements.
25. During the period beginning on the effective date and lasting through the expiration date of this permit, the permittee is authorized to discharge Unit 5 Heat Recovery Steam Generator (HRSG) boiler blowdown from I-16B to discharge canal to cooling pond. Such discharge shall be limited and monitored by the permittee as specified below and reported in accordance with Permit Condition I.C.3.:

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			Effluent Limitations		Monitoring Requirements			
Parameter	Units	Max/Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
Flow	MGD	Max Max	Report Report	Daily Maximum Monthly Average	Monthly	Calculated	EFF-6	
Oil and Grease	mg/L	Max Max	15.0 20.0	Monthly Average Daily Maximum	Monthly	Grab	EFF-6	
Solids, Total Suspended	mg/L	Max Max	30.0 100.0	Monthly Average Daily Maximum	Monthly	8-hr FPC	EFF-6	

26. Effluent samples shall be taken at the monitoring site locations listed in Permit Condition I.B.24. and as described below:

Monitoring Site Number	Description of Monitoring Site
EFF-6	HRSB boiler blowdown discharge from Unit 5 but prior to entering the onsite canal or mixing with any other waste stream.

27. During the period beginning on the effective date and lasting through the expiration date of this permit, the permittee is authorized to discharge construction dewatering from I-01D to discharge canal to cooling pond. Such discharge shall be limited and monitored by the permittee as specified below and reported in accordance with Permit Condition I.C.3.:

			Effluent Limitations		Monitoring Requirements			
Parameter	Units	Max/Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
Flow	MGD	Max	Report	Daily Maximum	Daily, when discharging	Calculated	EFF-7	
Oil and Grease	mg/L	Max	Report	Daily Maximum	Monthly, when discharging	Grab	EFF-7	
Solids, Total Suspended	mg/L	Max	50.0	Daily Maximum	Monthly, when discharging	Grab	EFF-7	
Turbidity	NTU	Max	Report	Daily Maximum	Monthly, when discharging	Grab	EFF-7	
pH	s.u.	Min Max	6.0 9.0	Daily Minimum Daily Maximum	Monthly, when discharging	Grab	EFF-7	

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28. Effluent samples shall be taken at the monitoring site locations listed in Permit Condition I.B.26. and as described below:

Monitoring Site Number	Description of Monitoring Site
EFF-7	Construction related dewatering prior to entering the discharge canal or alternatively hydraulic dredge return water discharge prior to entering the on-site intake canals.

C. Other Limitations and Monitoring and Reporting Requirements

1. The sample collection, analytical test methods, and method detection limits (MDLs) applicable to this permit shall be conducted using a sufficiently sensitive method to ensure compliance with applicable water quality standards and effluent limitations and shall be in accordance with Rule 62-4.246, Chapters 62-160 and 62-601, F.A.C., and 40 CFR 136, as appropriate. The list of Department established analytical methods, and corresponding MDLs (method detection limits) and PQLs (practical quantitation limits), which is titled "FAC 62-4 MDL/PQL Table (April 26, 2006)" is available at <http://www.dep.state.fl.us/labs/library/index.htm>. The MDLs and PQLs as described in this list shall constitute the minimum acceptable MDL/PQL values and the Department shall not accept results for which the laboratory's MDLs or PQLs are greater than those described above unless alternate MDLs and/or PQLs have been specifically approved by the Department for this permit. Any method included in the list may be used for reporting as long as it meets the following requirements:
 - a. The laboratory's reported MDL and PQL values for the particular method must be equal or less than the corresponding method values specified in the Department's approved MDL and PQL list;
 - b. The laboratory reported MDL for the specific parameter is less than or equal to the permit limit or the applicable water quality criteria, if any, stated in Chapter 62-302, F.A.C. Parameters that are listed as "report only" in the permit shall use methods that provide an MDL, which is equal to or less than the applicable water quality criteria stated in 62-302, F.A.C.; and
 - c. If the MDLs for all methods available in the approved list are above the stated permit limit or applicable water quality criteria for that parameter, then the method with the lowest stated MDL shall be used.

When the analytical results are below method detection or practical quantitation limits, the permittee shall report the actual laboratory MDL and/or PQL values for the analyses that were performed following the instructions on the applicable discharge monitoring report.

Where necessary, the permittee may request approval of alternate methods or for alternative MDLs or PQLs for any approved analytical method. Approval of alternate laboratory MDLs or PQLs are not necessary if the laboratory reported MDLs and PQLs are less than or equal to the permit limit or the applicable water quality criteria, if any, stated in Chapter 62-302, F.A.C. Approval of an analytical method not included in the above-referenced list is not necessary if the analytical method is approved in accordance with 40 CFR 136 or deemed acceptable by the Department. [62-4.246, 62-160]

2. The permittee shall provide safe access points for obtaining representative influent and effluent samples which are required by this permit. [62-620.320(6)]
3. Monitoring requirements under this permit are effective on the first day of the second month following permit issuance. Until such time, the permittee shall continue to monitor and report in accordance with previously effective permit requirements, if any. During the period of operation authorized by this permit, the permittee shall complete and submit to the Department Discharge Monitoring Reports (DMRs) in accordance with the frequencies specified by the REPORT type (i.e. monthly, toxicity, quarterly, semiannual, annual, etc.) indicated on the DMR forms attached to this permit. Unless specified otherwise in this permit, monitoring results for each monitoring period shall be submitted in accordance with the associated DMR due dates below. DMRs shall be submitted for each required monitoring period including periods of no discharge.

REPORT Type on DMR	Monitoring Period	Due Date
Monthly	first day of month - last day of month	28 th day of following month

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REPORT Type on DMR	Monitoring Period	Due Date
Quarterly	January 1 - March 31 April 1 - June 30 July 1 - September 30 October 1 - December 31	April 28 July 28 October 28 January 28
Semiannual	January 1 - June 30 July 1 - December 30	July 28 January 28
Annual	January 1 - December 31	January 28

The permittee may submit either paper or electronic DMR forms. If submitting paper DMR forms, the permittee shall make copies of the attached DMR forms, without altering the original format or content unless approved by the Department, and shall mail the completed DMR forms to the Department by the twenty-eighth (28th) of the month following the month of operation at the address specified below:

Florida Department of Environmental Protection
Wastewater Compliance Evaluation Section, Mail Station 3551
Bob Martinez Center
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

If submitting electronic DMR forms, the permittee shall use the electronic DMR system(s) approved in writing by the Department and shall electronically submit the completed DMR forms to the Department by the twenty-eighth (28th) of the month following the month of operation. Data submitted in electronic format is equivalent to data submitted on signed and certified paper DMR forms. *[62-620.610(18)]*

4. Unless specified otherwise in this permit, all reports and other information required by this permit, including 24-hour notifications, shall be submitted to or reported to, as appropriate, the Department's Southeast District at the address specified below:

Florida Department of Environmental Protection
Southeast District Office
Water Facilities Program
3301 Gun Club Road, MSC 7210-1
West Palm Beach, Florida 33406

Phone Number - (561) 681-6600
FAX Number - (561) 681-6755
(All FAX copies and e-mails shall be followed by original copies.)
[62-620.305].

5. All reports and other information shall be signed in accordance with the requirements of Rule 62-620.305, F.A.C. *[62-620.305]*
6. If there is no discharge from the facility on a day when the facility would normally sample, the sample shall be collected on the day of the next discharge. *[62-620.320(6)]*
7. There shall be no discharge of polychlorinated biphenyl compounds such as those commonly used for transformer fluid. The permittee shall dispose of all known PCB equipment, articles, and wastes in accordance with:
- Department-issued permits governing soil thermal treatment (Chapter 62-713, F.A.C.) or Department-approved landfills provided the PCB concentrations meet the Florida landfill's permitted limit when concentrations are less than 50 ppm; or
 - 40 CFR 761 when concentrations are greater than or equal to 50 ppm.
[40 CFR part 423.12(b)(2)].

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8. There shall be no discharge of floating debris, scum, oil, or other matter in such amounts as to form nuisances or produce color, odor, taste, turbidity, or other conditions to such degree as to create a nuisance or otherwise interfere with the beneficial use of the receiving waters in accordance with Rules 62-302.500(1)(a) and 62-302.530(500)(b), F.A.C. Any such discharges to waters of the State shall be reported to the Department when submitting DMR's.
9. Discharge of any product registered under the Federal Insecticide, Fungicide, and Rodenticide Act to any waste stream that ultimately may be released to waters of the State is prohibited unless specifically authorized elsewhere in a permit; except products used for lawn and agricultural purposes or to the use of herbicides if used in accordance with labeled instructions and any applicable State permit. The permittee shall consult with the Florida Fish and Wildlife Commission, the U.S. Fish and Wildlife Service, and the National Marine Fisheries Service if threatened or endangered species may be exposed to the product. In the event the permittee proposes to use biocides, corrosion inhibitors, or additives not authorized in this permit, or not previously reported to the Department, that ultimately may be released to waters of the State, the permittee shall notify the Department in writing a minimum of thirty (30) days prior to instituting the use of such product. The product shall not be used prior to a determination by the Department that a permit revision is not required or prior to Department approval. Such notification shall include:
 - a. Name and general composition of product
 - b. Frequencies of use
 - c. Quantities to be used
 - d. Proposed effluent concentrations;
 - e. Acute and/or chronic toxicity data (laboratory reports shall be prepared, depending on the test type, according to Section 12 of EPA document no. EPA-821-R-02-012 entitled, Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters for Freshwater and Marine Organisms, Section 10 of EPA document no. EPA-821-R-02-013 entitled, Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms or Section 10 of EPA document no. EPA-821-R-02-014 entitled, Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Marine and Estuarine Organisms, or most current addition).
 - f. Product data sheet
 - g. EPA registration number, if applicable.
10. The permittee is authorized to use only those water treatment chemicals at the frequency and dosage rates described in the permit application submitted to the Department for renewal of the current permit. Only one antiscalant chemical above shall be used at any given time. Permit revisions are not necessary for use of chemicals equivalent to those being used if the alternative chemicals consist of the same constituents, at the same concentrations and are used at the current rate. The use of other chemicals that are not chemical equivalents or current chemicals at higher dosage rates or frequencies is not authorized and will require a permit revision. The permittee is responsible for maintaining documentation on-site which demonstrates equivalency of any new water treatment products from another vendor or manufacturer with a different product name from those described in the permit application.

The Permittee may elect to use products or cleaners other than those listed above, provided the generated wastewater is collected and taken offsite to an approved wastewater treatment facility.

11. A revision to this permit is not necessary for the following activities:
 - a. Structural changes that do not change the quality, nature, or quantity of the discharge of wastes or that do not cause water pollution; and
 - b. Construction, replacement or repair of components at the facility which does not change the permitted treatment works or the terms and conditions of this permit.

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Records of these activities shall be kept by the permittee (activity description, start date and length of activity). The documentation shall be kept on-site in accordance with permit condition V.2, and made available to Department staff upon request.

[62-620.200(26)(a) & (b)]

12. Discharge of any waste resulting from the combustion of toxic, hazardous, or metal cleaning wastes to any waste stream which ultimately discharges to waters of the State is prohibited, unless specifically authorized elsewhere in this permit.
13. The permittee shall continue compliance with the facility's manatee protection plan approved by the Department on August 18, 1999.

II. SLUDGE MANAGEMENT REQUIREMENTS

1. The disposal of sludge or other solids generated from the plant's wastewater treatment and containment system shall be reused, reclaimed, or otherwise disposed of in accordance with the requirements of Chapter 62-701, F.A.C.
2. The permittee shall be responsible for proper treatment, management, use, and land application or disposal of its sludges. *[62-620.320(6)]*
3. Storage, transportation, and disposal of sludge/solids characterized as hazardous waste shall be in accordance with requirements of Chapter 62-730, F.A.C. *[62-730]*
4. The permittee shall keep records of the amount of sludge or residuals disposed, transported, or incinerated in (Please specify units). If a person other than the permittee is responsible for sludge transporting, disposal, or incineration, the permittee shall also keep the following records:
 - a. Name, address and telephone number of any transporter, and any manifests or bill of lading used;
 - b. Name and location of the site of disposal, treatment or incineration;
 - c. Name, address, and telephone number of the entity responsible for the disposal, treatment, or incineration site.

III. GROUND WATER REQUIREMENTS

Section III is not applicable to this facility.

IV. ADDITIONAL LAND APPLICATION REQUIREMENTS

Section IV is not applicable to this facility.

V. OPERATION AND MAINTENANCE REQUIREMENTS

1. During the period of operation authorized by this permit, the wastewater facilities shall be operated under the supervision of a person who is qualified by formal training and/or practical experience in the field of water pollution control. *[62-620.320(6)]*
2. The permittee shall maintain the following records and make them available for inspection on the site of the permitted facility.
 - a. Records of all compliance monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, including, if applicable, a copy of the laboratory certification showing the certification number of the laboratory, for at least three years from the date the sample or measurement was taken;
 - b. Copies of all reports required by the permit for at least three years from the date the report was prepared;
 - c. Records of all data, including reports and documents, used to complete the application for the permit for at least three years from the date the application was filed;

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- d. A copy of the current permit;
- e. A copy of any required record drawings; and
- f. Copies of the logs and schedules showing plant operations and equipment maintenance for three years from the date of the logs or schedules.

[62-620.350]

VI. SCHEDULES

1. The following improvement actions shall be completed according to the following schedule. The Storm water Pollution Prevention Plan (SWPPP) shall be implemented in accordance with Part VII of this permit.

Improvement Action	Completion Date
1. Continue implementing the existing SWPPP	Effective date of permit

[62-620.320(6)]

2. If the permittee wishes to continue operation of this wastewater facility after the expiration date of this permit, the permittee shall submit an application for renewal no later than one-hundred and eighty days (180) prior to the expiration date of this permit. Application shall be made using the appropriate forms listed in Rule 62-620.910, F.A.C., including submittal of the appropriate processing fee set forth in Rule 62-4.050, F.A.C. [62-620.335(1) and (2)]
3. The permittee shall submit a copy of the Manatee Protection Plan, including any amendments, with the permit renewal application to each of the following agencies no later than one-hundred and eighty days (180) prior to the expiration date of this permit:

Florida Department of Environmental Protection
Industrial Wastewater Section, Mail Station 3545
Bob Martinez Center
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Florida Fish and Wildlife Conservation Commission
Bureau of Protected Species Management
620 South Meridian Street
OES-BPS
Tallahassee, Florida 32399-1600

And

US Fish and Wildlife Service
Jacksonville Field Office
7915 Baymeadows Way, Suite 200
Jacksonville, Florida 32256-7517

4. The permittee shall submit the information required by the applicable provisions of 40 CFR 122.21(r) in accordance with the following:
 - a. Within three months of the effective date of this permit, the permittee shall schedule a meeting with the Department to discuss the facility's plan to address the requirements of Section 316(b) of the Clean Water Act (CWA), including the applicable requirements under 40 CFR 122.21(r), any previous data and/or studies which the facility intends to use to satisfy any requirements under §122.21(r), and the proposal for a peer review group, if required.

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- b. Within six months of the effective date of this permit, the permittee shall submit to the Department a Plan of Study (POS) to address the timely implementation of the 316(b) cooling water intake regulations. The POS shall include a schedule for the submittal of all applicable §122.21(r) forms, any associated reports, and peer review documentation. All applicable forms, reports, and associated material shall be submitted as soon as practicable but no later than 180 days prior to the expiration date of the permit (also the due date for submission of the permit renewal application).

VII. STORMWATER POLLUTION PREVENTION PLAN (SWPPP)

1. In accordance with Section 304(e) and 402(a)(2) of the Clean Water Act (CWA) as amended, 33 U.S.C. §§ 1251 et seq., and the Pollution Prevention Act of 1990, 42 U.S.C. §§ 13101-13109, the permittee must develop and implement a Stormwater Pollution Prevention (SWPP) Plan for the facility covered by this permit. The SWPP Plan shall be prepared in accordance with good engineering practices and in accordance with the factors outlined in 40 CFR §125.3(d)(2) or (3) as appropriate. The plan shall identify potential sources of pollution that may reasonably be expected to affect the quality of stormwater discharges associated with industrial activity from the facility. In addition, the plan shall describe and ensure the implementation of practices which are to be used to reduce the pollutants, including mercury, in stormwater discharges associated with industrial activity at the facility and to assure compliance with the terms and conditions of this permit. Facilities must implement the provisions of the SWPP Plan required under this part as a condition of this permit. The plan shall include, at a minimum, the following items:
 - a. Specific individual(s) within the facility organization as members of a SWPP Team that are responsible for developing the SWPP Plan and assisting the facility or operations manager in its implementation, maintenance, and revision. The plan shall clearly identify the responsibilities of each team member. The activities and responsibilities of the team shall address all aspects of the facility's SWPP Plan.
 - b. A description of potential sources which may reasonably be expected to add significant amounts of pollutants to stormwater discharges or which may result in the discharge of pollutants during dry weather from separate storm sewers draining the facility. The plan shall identify all activities and significant materials that may potentially be significant pollutant sources. The plan shall include, at a minimum:
 - (1) Drainage
 - (a) A site map indicating an outline of the portions of the drainage area of each stormwater outfall that are within the facility boundaries, each existing structural control measure to reduce pollutants in stormwater runoff, surface water bodies, locations where significant materials are exposed to precipitation, locations where major spills or leaks identified under Item (2)(c) (spills and leaks) have occurred, and the locations of the following activities where such activities are exposed to precipitation: fueling stations; vehicle and equipment maintenance and/or cleaning areas; loading/unloading areas; locations used for the treatment, storage or disposal of wastes; liquid storage tanks; processing areas; and storage areas.
 - (b) For each area of the facility that generates stormwater discharges associated with industrial activity with a reasonable potential for containing significant amounts of pollutants, a prediction of the direction of flow, and an identification of the types of pollutants which are likely to be present in stormwater discharges associated with industrial activity. Factors to consider include the toxicity of chemical; quantity of chemicals used, produced or discharged; the likelihood of contact with stormwater; and history of significant leaks or spills of toxic or hazardous pollutants. Flows with a significant potential for causing erosion shall be identified.
 - (2) An inventory of the types of materials handled at the site that potentially may be exposed to precipitation. Such inventory shall include a narrative description of significant materials that have been handled, treated, stored or disposed in a manner to allow exposure to stormwater between the time of three years prior to the effective date of this permit and the present; method and location of on-site storage or disposal; materials management practices employed to minimize contact of materials with stormwater runoff between the time of three years prior to the effective date of this permit and the present; the location and a description of existing structural and non-structural control measures to reduce pollutants in stormwater runoff; and a description of any treatment the stormwater receives.

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- (3) A list of significant spills and significant leaks of toxic or hazardous pollutants that occurred at areas that are exposed to precipitation or that otherwise drain to a stormwater conveyance at the facility after the date of three years prior to the effective date of this permit. Such list shall be updated as appropriate during the term of the permit.
 - (4) A summary of existing discharge sampling data describing pollutants in stormwater discharges from the facility, including a summary of sampling data collected during the term of this permit.
 - (5) A narrative description of the potential pollutant sources from the following activities if applicable: loading and unloading operations; outdoor storage activities; outdoor manufacturing or processing activities; significant dust or particulate generating processes; loading/unloading areas; and on-site waste disposal practices. The description shall specifically list any significant potential source of pollutants at the site and for each potential source, any pollutant or pollutant parameter (e.g. biochemical oxygen demand, etc.) of concern shall be identified.
- c. A description of stormwater management controls appropriate for the facility and implement such controls. The appropriateness and priorities of controls in a plan shall reflect identified potential sources of pollutants at the facility. The description of stormwater management controls shall address the following minimum components, including a schedule for implementing such controls:
- (1) Good housekeeping requires the maintenance of areas that may contribute pollutants to stormwater discharges in a clean, orderly manner.
 - (2) A preventive maintenance program shall involve timely inspection and maintenance of stormwater management devices (e.g. cleaning oil/water separators, catch basins) as well as inspecting and testing facility equipment and systems to uncover conditions that could cause breakdowns or failures resulting in discharges of pollutants to surface waters, and ensuring appropriate maintenance of such equipment and systems.
 - (3) Areas where potential spills that can contribute pollutants to stormwater discharges can occur and their accompanying drainage points shall be identified clearly in the SWPP Plan. Where appropriate, specifying material handling procedures, storage requirements, and use of equipment such as diversion valves in the plan should be considered. Procedures for cleaning up spills shall be identified in the plan and made available to the appropriate personnel. The necessary equipment to implement a clean up should be available to personnel.
 - (4) In addition to or as part of the comprehensive site evaluation required under paragraph (4) of this section, qualified facility personnel shall be identified to inspect designated equipment and areas of the facility at appropriate intervals specified in the plan. A set of tracking or follow-up procedures shall be used to ensure that appropriate actions are taken in response to the inspections. Records of inspections shall be maintained.
 - (5) Employee training programs shall inform personnel responsible for implementing activities identified in the SWPP Plan or otherwise responsible for stormwater management at all levels of responsibility of the components and goals of the SWPP Plan. Training should address topics such as spill response, good housekeeping and material management practices. A pollution prevention plan shall identify periodic dates for such training.
 - (6) A description of incidents (such as spills, or other discharges), along with other information describing the quality and quantity of stormwater discharges shall be included in the plan required under this part. Inspections and maintenance activities shall be documented and records of such activities shall be incorporated into the plan.
 - (7) Non-Stormwater Discharges
 - (a) The plan shall include a certification that each "stormwater-only" discharge authorized under this permit has been tested or evaluated for the presence of non-stormwater discharges. (This section is not applicable to those discharges authorized under this permit that have been identified in the application as having non-stormwater components.) The certification shall include the identification of potential significant sources of non-stormwater at the site, a description of the results of any test and/or evaluation for the presence of non-stormwater discharges, the evaluation criteria or testing method used, the date of any testing and/or evaluation, and the on-site drainage points that were directly observed during the test. Certifications shall be signed in accordance with paragraph (6) of this section. Such certification may not be feasible if the facility operating the stormwater discharge associated with industrial activity does not have access to an outfall, manhole, or other point of access to the ultimate conduit that receives the discharge. In such cases, the source identification section of the stormwater

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- pollution plan shall indicate why the certification required by this part was not feasible, along with the identification of potential significant sources of non-stormwater at the site. A discharger that is unable to provide the certification required by this paragraph must notify the Department in accordance with paragraph (iii) below.
- (b) Except for flows from firefighting activities, sources of authorized non-stormwater discharges that are combined with stormwater discharges associated with industrial activity must be identified in the plan. The plan shall identify and ensure the implementation of appropriate pollution prevention measures for the non-stormwater component(s) of the discharge.
 - (c) Failure to Certify. Any facility that is unable to provide the certification required (testing for non-stormwater discharges), must notify the Department. If the failure to certify is caused by the inability to perform adequate tests or evaluations, such notification shall describe: the procedure of any test conducted for the presence of non-stormwater discharges; the results of such test or other relevant observations; potential sources of non-stormwater discharges to the storm sewer; and why adequate tests for such storm sewers were not feasible. Non-stormwater discharges to surface waters of the State of Florida which are not authorized by an NPDES permit are unlawful, and must be terminated or dischargers must submit appropriate NPDES permit application forms.
- (8) The plan shall identify areas which, due to topography, activities, or other factors, have a high potential for significant soil erosion, and identify structural, vegetative, and/or stabilization measures to be used to limit erosion.
- (9) The plan shall contain a narrative consideration of the appropriateness of traditional stormwater management practices (practices other than those which control the generation or source(s) of pollutants) used to divert, infiltrate, reuse, or otherwise manage stormwater runoff in a manner that reduces pollutants in stormwater discharges from the site. The plan shall provide that those measures that the permittee determines to be reasonable and appropriate shall be implemented and maintained. The potential of various sources at the facility to contribute pollutants to stormwater discharges associated with industrial activity shall be considered when determining reasonable and appropriate measures. Appropriate measures may include: vegetative swales and practices; reuse of collected stormwater (such as for a process or as an irrigation source); inlet controls (such as oil/water separators); infiltration devices; and, detention or retention devices.
- d. A Comprehensive Site Compliance Evaluation. Qualified personnel shall conduct site compliance evaluations at appropriate intervals specified in the plan, but, except as provided in paragraph (4)(d) of this section, in no case less than once a year. Such evaluations shall provide:
- (1) Areas contributing to a stormwater discharge associated with industrial activity shall be visually inspected for evidence of, or the potential for, pollutants entering the drainage system. Measures to reduce pollutant loadings shall be evaluated to determine whether they are adequate and properly implemented in accordance with the terms of the permit or whether additional control measures are needed. Structural stormwater management measures, sediment and erosion control measures, and other structural pollution prevention measures identified in the plan shall be observed to ensure that they are operating correctly. A visual inspection of equipment needed to implement the plan, such as spill response equipment, shall be made.
 - (2) Based on the results of the inspection, the description of potential pollutant sources identified in the plan in accordance with paragraph (2) of this section (description of potential pollutant sources) and pollution prevention measures and controls identified in the plan in accordance with paragraph (3) of this section (measures and controls) shall be revised as appropriate within two weeks of such inspection and shall provide for implementation of any changes to the plan in a timely manner, but in no case more than twelve weeks after the inspection.
 - (3) A report summarizing the scope of the inspection, personnel making the inspection, the date(s) of the inspection, major observations relating to the implementation of the SWPP Plan, and actions taken in accordance with paragraph (4)(b) of this section shall be made and retained as part of the SWPP Plan for at least one year after coverage under this permit terminates. The report shall identify any incidents of non-compliance. Where a report does not identify any incidents of non-compliance, the report shall contain a certification that the facility is in compliance with the SWPP Plan and this permit. The report shall be signed in accordance with paragraph (6) (signatory requirements) of this section.
- e. Consistency with other plans. SWPP Plans may reference the existence of other plans for Spill Prevention Control and Countermeasure (SPCC), plans developed for the facility under section 311 of the CWA or Best

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Management Practices (BMP) Programs otherwise required by an NPDES permit for the facility as long as such requirement is incorporated into the SWPP Plan.

- f. Signatory Authority and Management Responsibilities. The SWPP Plan shall be signed in accordance with Rule 62-620.305, Florida Administrative Code, and shall be reviewed by the facility engineer and facility manager. A copy of the plan shall be retained at the facility and shall be made available to the Department upon request, or in the case of a stormwater discharge associated with industrial activity that discharges through a municipal separate storm sewer system, to the operator of the municipal system.
- g. Plan Review. The Department may notify the permittee at any time that the plan does not meet one or more of the minimum requirements of this Part. Such notification shall identify those provisions of the permit which are not being met by the plan, and identify which provisions of the plan requires modifications in order to meet the minimum requirements of this Part. Within 30 days of such notification from the Department, the permittee shall make the required changes to the plan and shall submit to the Department a written certification that the requested changes have been made.
- h. Keeping Plans Current. The permittee shall amend the plan whenever there is a change in design, construction, operation, or maintenance of the facility which has a significant effect on the potential for the discharge of pollutants to surface waters of the State of Florida; if the SWPP Plan proves to be ineffective in eliminating or significantly minimizing pollutants from sources identified under paragraph (2) (description of potential pollutant sources) of this section; or, in otherwise achieving the general objectives of controlling pollutants in stormwater discharges associated with industrial activity. Amendments to the plan may be reviewed by the Department in the same manner as described in paragraphs (6) and (7) of this section.

[62-620.100(3)(m)]

VIII. OTHER SPECIFIC CONDITIONS

A. Specific Conditions Applicable to All Permits

- 1. Where required by Chapter 471 or Chapter 492, F.S., applicable portions of reports that must be submitted under this permit shall be signed and sealed by a professional engineer or a professional geologist, as appropriate. [62-620.310(4)]
- 2. Drawings, plans, documents or specifications submitted by the permittee, not attached hereto, but retained on file at the Department's Central District Office, are made a part hereof.
- 3. This permit satisfies Industrial Wastewater program permitting requirements only and does not authorize operation of this facility prior to obtaining any other permits required by local, state or federal agencies.
- 4. The permittee shall provide verbal notice to the Department's Southeast District Office as soon as practical after discovery of a sinkhole or other karst feature within an area for the management or application of wastewater, or wastewater sludges. The permittee shall immediately implement measures appropriate to control the entry of contaminants, and shall detail these measures to the Department's Central District Office in a written report within 7 days of the sinkhole discovery. [62-620.320(6)]

B. Specific Conditions Related to Existing Manufacturing, Commercial, Mining, and Silviculture Wastewater Facilities or Activities

- 1. Existing manufacturing, commercial, mining, and silvicultural wastewater facilities or activities that discharge into surface waters shall notify the Department as soon as they know or have reason to believe:
 - a. That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following levels;
 - (1) One hundred micrograms per liter,
 - (2) Two hundred micrograms per liter for acrolein and acrylonitrile; five hundred micrograms per liter for 2, 4-dinitrophenol and for 2-methyl-4, 6-dinitrophenol; and one milligram per liter for antimony, or

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- (3) Five times the maximum concentration value reported for that pollutant in the permit application; or
- b. That any activity has occurred or will occur which would result in any discharge, on a non-routine or infrequent basis, of a toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following levels:
 - (1) Five hundred micrograms per liter,
 - (2) One milligram per liter for antimony, or
 - (3) Ten times the maximum concentration value reported for that pollutant in the permit application.

[62-620.625(1)]

C. Impoundment Design, Construction, Operation, and Maintenance

- 1. All impoundments used to hold or treat wastewater and other associated wastes shall be operated and maintained to prevent the discharge of pollutants to waters of the State, except as authorized under this permit.
- 2. Operation and maintenance of any impoundment shall be in accordance with all applicable State regulations.

CI. Duty to Reapply

- 1. The permittee is not authorized to discharge to waters of the State after the expiration date of this permit, unless:
 - a. the permittee has applied for renewal of this permit at least 180 days before the expiration date (December 26, 2019) using the appropriate forms listed in Rule 62-620.910, F.A.C., and in the manner established in the Department of Environmental Protection Guide to Permitting Wastewater Facilities or Activities Under Chapter 62-620, F.A.C., including submittal of the appropriate processing fee set forth in Rule 62-4.050, F.A.C.; or
 - b. the permittee has made complete the application for renewal of this permit before the permit expiration date.

[62-620.335(1)-(4), F.A.C.]

- 2. When publishing Notice of Draft and Notice of Intent in accordance with Rules 62-110.106 and 62-620.550, F.A.C., the permittee shall publish the notice at its expense in a newspaper of general circulation in the county or counties in which the activity is to take place either
 - a. Within thirty days after the permittee has received a notice; or
 - b. Within thirty days after final agency action.

Failure to publish a notice is a violation of this permit.

E. Reopener

- 1. The permit shall be revised, or alternatively, revoked and reissued in accordance with the provisions contained in Rules 62-620.325 and 62-620.345 F.A.C., if applicable, or to comply with any applicable effluent standard or limitation issued or approved under Sections 301(b)(2)(C) and (D), 304(b)(2) and 307(a)(2) of the Clean Water Act (the Act), as amended, if the effluent standards, limitations, or water quality standards so issued or approved:
 - a. Contains different conditions or is otherwise more stringent than any condition in the permit/or;
 - b. Controls any pollutant not addressed in the permit.

The permit as revised or reissued under this paragraph shall contain any other requirements then applicable.

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2. The permit may be reopened to adjust effluent limitations or monitoring requirements should future Water Quality Based Effluent Limitation determinations, water quality studies, DEP approved changes in water quality standards, EPA established Total Maximum Daily Loads (TMDLs), or other information show a need for a different limitation, monitoring requirement, or more stringent requirements or any applicable standards pertaining to the operation and maintenance of coal combustion waste impoundments.
3. The Department or EPA may develop a TMDL during the life of the permit. Once a TMDL has been established and adopted by rule, the Department shall revise this permit to incorporate the final findings of the TMDL.
4. The permit shall be reopened for revision as appropriate to address new information that was not available at the time of this permit issuance or to comply with requirements of new regulations, standards, or judicial decisions relating to CWA 316(b).

IX. GENERAL CONDITIONS

1. The terms, conditions, requirements, limitations and restrictions set forth in this permit are binding and enforceable pursuant to Chapter 403, Florida Statutes. Any permit noncompliance constitutes a violation of Chapter 403, Florida Statutes, and is grounds for enforcement action, permit termination, permit revocation and reissuance, or permit revision. *[62-620.610(1)]*
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviations from the approved drawings, exhibits, specifications or conditions of this permit constitutes grounds for revocation and enforcement action by the Department. *[62-620.610(2)]*
3. As provided in Subsection 403.087(6), F.S., the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor authorize any infringement of federal, state, or local laws or regulations. This permit is not a waiver of or approval of any other Department permit or authorization that may be required for other aspects of the total project which are not addressed in this permit. *[62-620.610(3)]*
4. This permit conveys no title to land or water, does not constitute state recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title. *[62-620.610(4)]*
5. This permit does not relieve the permittee from liability and penalties for harm or injury to human health or welfare, animal or plant life, or property caused by the construction or operation of this permitted source; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department. The permittee shall take all reasonable steps to minimize or prevent any discharge, reuse of reclaimed water, or residuals use or disposal in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. *[62-620.610(5)]*
6. If the permittee wishes to continue an activity regulated by this permit after its expiration date, the permittee shall apply for and obtain a new permit. *[62-620.610(6)]*
7. The permittee shall at all times properly operate and maintain the facility and systems of treatment and control, and related appurtenances, that are installed and used by the permittee to achieve compliance with the conditions of this permit. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to maintain or achieve compliance with the conditions of the permit. *[62-620.610(7)]*

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8. This permit may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit revision, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition. *[62-620.610(8)]*
9. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, including an authorized representative of the Department and authorized EPA personnel, when applicable, upon presentation of credentials or other documents as may be required by law, and at reasonable times, depending upon the nature of the concern being investigated, to:
 - a. Enter upon the permittee's premises where a regulated facility, system, or activity is located or conducted, or where records shall be kept under the conditions of this permit;
 - b. Have access to and copy any records that shall be kept under the conditions of this permit;
 - c. Inspect the facilities, equipment, practices, or operations regulated or required under this permit; and
 - d. Sample or monitor any substances or parameters at any location necessary to assure compliance with this permit or Department rules.*[62-620.610(9)]*
10. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data, and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except as such use is proscribed by Section 403.111, F.S., or Rule 62-620.302, F.A.C. Such evidence shall only be used to the extent that it is consistent with the Florida Rules of Civil Procedure and applicable evidentiary rules. *[62-620.610(10)]*
11. When requested by the Department, the permittee shall within a reasonable time provide any information required by law which is needed to determine whether there is cause for revising, revoking and reissuing, or terminating this permit, or to determine compliance with the permit. The permittee shall also provide to the Department upon request copies of records required by this permit to be kept. If the permittee becomes aware of relevant facts that were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be promptly submitted or corrections promptly reported to the Department. *[62-620.610(11)]*
12. Unless specifically stated otherwise in Department rules, the permittee, in accepting this permit, agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance; provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules. A reasonable time for compliance with a new or amended surface water quality standard, other than those standards addressed in Rule 62-302.500, F.A.C., shall include a reasonable time to obtain or be denied a mixing zone for the new or amended standard. *[62-620.610(12)]*
13. The permittee, in accepting this permit, agrees to pay the applicable regulatory program and surveillance fee in accordance with Rule 62-4.052, F.A.C. *[62-620.610(13)]*
14. This permit is transferable only upon Department approval in accordance with Rule 62-620.340, F.A.C. The permittee shall be liable for any noncompliance of the permitted activity until the transfer is approved by the Department. *[62-620.610(14)]*
15. The permittee shall give the Department written notice at least 60 days before inactivation or abandonment of a wastewater facility or activity and shall specify what steps will be taken to safeguard public health and safety during and following inactivation or abandonment. *[62-620.610(15)]*
16. The permittee shall apply for a revision to the Department permit in accordance with Rules 62-620.300, F.A.C., and the Department of Environmental Protection Guide to Permitting Wastewater Facilities or Activities Under Chapter 62-620, F.A.C., at least 90 days before construction of any planned substantial modifications to the permitted facility is to commence or with Rule 62-620.325(2), F.A.C., for minor modifications to the permitted

PERMITTEE: Florida Power & Light
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EXPIRATION DATE: June 24, 2020

facility. A revised permit shall be obtained before construction begins except as provided in Rule 62-620.300, F.A.C. [62-620.610(16)]

17. The permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements. The permittee shall be responsible for any and all damages which may result from the changes and may be subject to enforcement action by the Department for penalties or revocation of this permit. The notice shall include the following information:
 - a. A description of the anticipated noncompliance;
 - b. The period of the anticipated noncompliance, including dates and times; and
 - c. Steps being taken to prevent future occurrence of the noncompliance.[62-620.610(17)]
18. Sampling and monitoring data shall be collected and analyzed in accordance with Rule 62-4.246 and Chapters 62-160, 62-601, and 62-610, F.A.C., and 40 CFR 136, as appropriate.
 - a. Monitoring results shall be reported at the intervals specified elsewhere in this permit and shall be reported on a Discharge Monitoring Report (DMR), DEP Form 62-620.910(10), or as specified elsewhere in the permit.
 - b. If the permittee monitors any contaminant more frequently than required by the permit, using Department approved test procedures, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR.
 - c. Calculations for all limitations which require averaging of measurements shall use an arithmetic mean unless otherwise specified in this permit.
 - d. Except as specifically provided in Rule 62-160.300, F.A.C., any laboratory test required by this permit shall be performed by a laboratory that has been certified by the Department of Health Environmental Laboratory Certification Program (DOH ELCP). Such certification shall be for the matrix, test method and analyte(s) being measured to comply with this permit. For domestic wastewater facilities, testing for parameters listed in Rule 62-160.300(4), F.A.C., shall be conducted under the direction of a certified operator.
 - e. Field activities including on-site tests and sample collection shall follow the applicable standard operating procedures described in DEP-SOP-001/01 adopted by reference in Chapter 62-160, F.A.C.
 - f. Alternate field procedures and laboratory methods may be used where they have been approved in accordance with Rules 62-160.220, and 62-160.330, F.A.C.[62-620.610(18)]
19. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule detailed elsewhere in this permit shall be submitted no later than 14 days following each schedule date. [62-620.610(19)]
20. The permittee shall report to the Department's Tallahassee any noncompliance which may endanger health or the environment. Any information shall be provided orally within 24 hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within five days of the time the permittee becomes aware of the circumstances. The written submission shall contain: a description of the noncompliance and its cause; the period of noncompliance including exact dates and time, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.
 - a. The following shall be included as information which must be reported within 24 hours under this condition:
 - (1) Any unanticipated bypass which causes any reclaimed water or effluent to exceed any permit limitation or results in an unpermitted discharge,

PERMITTEE: Florida Power & Light
FACILITY: Lauderdale Power Plant

PERMIT NUMBER: FL0001503-003 (Major)
EXPIRATION DATE: June 24, 2020

- (2) Any upset which causes any reclaimed water or the effluent to exceed any limitation in the permit,
 - (3) Violation of a maximum daily discharge limitation for any of the pollutants specifically listed in the permit for such notice, and
 - (4) Any unauthorized discharge to surface or ground waters.
- b. Oral reports as required by this subsection shall be provided as follows:
- (1) For unauthorized releases or spills of treated or untreated wastewater reported pursuant to subparagraph 20(a)(4) that are in excess of 1,000 gallons per incident, or where information indicates that public health or the environment will be endangered, oral reports shall be provided to the STATE WARNING POINT TOLL FREE NUMBER (800) 320-0519, as soon as practical, but no later than 24 hours from the time the permittee becomes aware of the discharge. The permittee, to the extent known, shall provide the following information to the State Warning Point:
 - (a) Name, address, and telephone number of person reporting;
 - (b) Name, address, and telephone number of permittee or responsible person for the discharge;
 - (c) Date and time of the discharge and status of discharge (ongoing or ceased);
 - (d) Characteristics of the wastewater spilled or released (untreated or treated, industrial or domestic wastewater);
 - (e) Estimated amount of the discharge;
 - (f) Location or address of the discharge;
 - (g) Source and cause of the discharge;
 - (h) Whether the discharge was contained on-site, and cleanup actions taken to date;
 - (i) Description of area affected by the discharge, including name of water body affected, if any; and
 - (j) Other persons or agencies contacted.
 - (2) Oral reports, not otherwise required to be provided pursuant to subparagraph b.1 above, shall be provided to the Department's Tallahassee within 24 hours from the time the permittee becomes aware of the circumstances.
- c. If the oral report has been received within 24 hours, the noncompliance has been corrected, and the noncompliance did not endanger health or the environment, the Department's Tallahassee shall waive the written report.

[62-620.610(20)]

21. The permittee shall report all instances of noncompliance not reported under Permit Conditions IX.17, 18 or 19 of this permit at the time monitoring reports are submitted. This report shall contain the same information required by Permit Condition IX.20 of this permit. *[62-620.610(21)]*

22. Bypass Provisions.

- a. "Bypass" means the intentional diversion of waste streams from any portion of a treatment works.
- b. Bypass is prohibited, and the Department may take enforcement action against a permittee for bypass, unless the permittee affirmatively demonstrates that:
 - (1) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage; and
 - (2) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and
 - (3) The permittee submitted notices as required under Permit Condition IX.22.b. of this permit.
- c. If the permittee knows in advance of the need for a bypass, it shall submit prior notice to the Department, if possible at least 10 days before the date of the bypass. The permittee shall submit notice of an unanticipated bypass within 24 hours of learning about the bypass as required in Permit Condition IX.20. of this permit. A notice shall include a description of the bypass and its cause; the period of the bypass, including exact dates and times; if the bypass has not been corrected, the anticipated time it is expected to continue; and the steps taken or planned to reduce, eliminate, and prevent recurrence of the bypass.

PERMITTEE: Florida Power & Light
FACILITY: Lauderdale Power Plant

PERMIT NUMBER: FL0001503-003 (Major)
EXPIRATION DATE: June 24, 2020

- d. The Department shall approve an anticipated bypass, after considering its adverse effect, if the permittee demonstrates that it will meet the three conditions listed in Permit Condition IX.22.a. 1 through 3 of this permit.
- e. A permittee may allow any bypass to occur which does not cause reclaimed water or effluent limitations to be exceeded if it is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of Permit Condition IX.22.a. through c. of this permit.

[62-620.610(22)]

23. Upset Provisions.

- a. "Upset" means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based effluent limitations because of factors beyond the reasonable control of the permittee.
 - (1) An upset does not include noncompliance caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, careless or improper operation.
 - (2) An upset constitutes an affirmative defense to an action brought for noncompliance with technology based permit effluent limitations if the requirements of upset provisions of Rule 62-620.610, F.A.C., are met.
- b. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed contemporaneous operating logs, or other relevant evidence that:
 - (1) An upset occurred and that the permittee can identify the cause(s) of the upset;
 - (2) The permitted facility was at the time being properly operated;
 - (3) The permittee submitted notice of the upset as required in Permit Condition IX.5. of this permit; and
 - (4) The permittee complied with any remedial measures required under Permit Condition IX. 5. of this permit.
- c. In any enforcement proceeding, the burden of proof for establishing the occurrence of an upset rests with the permittee.
- d. Before an enforcement proceeding is instituted, no representation made during the Department review of a claim that noncompliance was caused by an upset is final agency action subject to judicial review.

[62-620.610(23)]

Executed in Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION



Elsa A. Potts, P.E.
Program Administrator
Industrial Wastewater Program
Division of Water Resource Management
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Attachment(s):
Discharge Monitoring Report

Hatcher, Michael

From: Hatcher, Michael
Sent: Thursday, June 18, 2015 4:23 PM
To: 'Pandya, Meghna'
Subject: FL0001503 FPL Lauderdale Final Permit Correction

Meghna,

As we discussed this morning the correct date for applying for permit renewal 180 days before expiration should be December 26, 2019 (not December 26, 2015 as indicated on page 24 of the final permit issued June 8, 2015). I have changed the final permit to reflect correct date and will add this email to the administrative files for documentation. The final permit along with a copy of this email can be found in our Oculus electronic filing system. If you have any questions please let me know.

Michael

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: FPL - Lauderdale Power Plant
MAILING ADDRESS: 4300 SW 42nd Avenue
Fort Lauderdale, FL 33314-

PERMIT NUMBER:

FL0001503-003-IW1S

FACILITY: FPL - Lauderdale Power Plant
LOCATION: 4300 SW 42nd Avenue
Fort Lauderdale, FL 33314-

LIMIT:
CLASS SIZE:
MONITORING GROUP NUMBER:
MONITORING GROUP DESCRIPTION:
RE-SUBMITTED DMR: ☐
NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD

Final
MA
D-001
REPORT FREQUENCY: Monthly
PROGRAM: Industrial

Cooling pond discharge to South Fork New River

COUNTY: Broward
OFFICE: Southeast District

From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Flow	Sample Measurement										
PARM Code 50050 Y Mon. Site No. EFF-3	Permit Requirement		380 (An.Avg.)	MGD						Daily; 24 hours	Calculated
Flow	Sample Measurement										
PARM Code 50050 1 Mon. Site No. EFF-3	Permit Requirement	Report (Mo.Avg.)	Report (Day.Max.)	MGD						Daily; 24 hours	Calculated
Temperature (F), Water (JUN - SEP)	Sample Measurement										
PARM Code 00011 1 Mon. Site No. EFF-3	Permit Requirement					99.0 (Mo.Avg.)	Deg F			Continuous	Recorder
Temperature (F), Water (JUN - SEP)	Sample Measurement										
PARM Code 00011 Q Mon. Site No. EFF-3	Permit Requirement					101.1 (Day.Max.)	Deg F			Continuous	Recorder
Temperature (F), Water (OCT - MAY)	Sample Measurement										
PARM Code 00011 R Mon. Site No. EFF-3	Permit Requirement					96.0 (Mo.Avg.)	Deg F			Continuous	Recorder
Temperature (F), Water (OCT - MAY)	Sample Measurement										
PARM Code 00011 S Mon. Site No. EFF-3	Permit Requirement					99.0 (Day.Max.)	Deg F			Continuous	Recorder

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (mm/dd/yyyy)

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

ISSUANCE/REISSUANCE DATE:

DEP Form 62-620.910(10), Effective Nov. 29, 1994

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: FPL - Lauderdale Power Plant

MONITORING GROUP D-001

PERMIT NUMBER: FL0001503-003-IW1S

NUMBER:

MONITORING PERIOD From: To:

[illegible]

¹ During months that do not require sampling enter "MNR" to indicate that no sampling required for that month.

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: FPL - Lauderdale Power Plant
MAILING ADDRESS: 4300 SW 42nd Avenue
Fort Lauderdale, FL 33314-

PERMIT NUMBER: FL0001503-003-1W1S

FACILITY: FPL - Lauderdale Power Plant
LOCATION: 4300 SW 42nd Avenue
Fort Lauderdale, FL 33314-

LIMIT: Final
CLASS SIZE: MA
MONITORING GROUP NUMBER: D-001
MONITORING GROUP DESCRIPTION: Cooling pond discharge to South Fork New River
RE-SUBMITTED DMR: ☐
NO DISCHARGE FROM SITE: ☐
MONITORING NOT REQUIRED: ☐
MONITORING PERIOD From: _____ To: _____

REPORT FREQUENCY: Toxicity
PROGRAM: Industrial

COUNTY: Broward
OFFICE: Southeast District

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
7-DAY CHRONIC STATRE Mysidopsis bahia(Routine)	Sample Measurement										
PARM Code TRP3E P Mon. Site No. EFF-3	Permit Requirement				100 (Min.)			percent		Semi-Annually; twice per year	Grab
7-DAY CHRONIC STATRE Mysidopsis bahia(Additional)	Sample Measurement										
PARM Code TRP3E Q Mon. Site No. EFF-3	Permit Requirement				100 (Min.)			percent		As needed	As required by the permit
7-DAY CHRONIC STATRE Mysidopsis bahia(Additional)	Sample Measurement										
PARM Code TRP3E R Mon. Site No. EFF-3	Permit Requirement				100 (Min.)			percent		As needed	As required by the permit
7-DAY CHRONIC STATRE Menidia beryllina(Routine)	Sample Measurement										
PARM Code TRP6B P Mon. Site No. EFF-3	Permit Requirement				100 (Min.)			percent		Semi-Annually; twice per year	Grab
7-DAY CHRONIC STATRE Menidia beryllina(Additional)	Sample Measurement										
PARM Code TRP6B Q Mon. Site No. EFF-3	Permit Requirement				100 (Min.)			percent		As needed	As required by the permit
7-DAY CHRONIC STATRE Menidia beryllina(Additional)	Sample Measurement										
PARM Code TRP6B R Mon. Site No. EFF-3	Permit Requirement				100 (Min.)			percent		As needed	As required by the permit

*ENTER "MNR" IN THE RESULTS COLUMN FOR EACH TEST THAT IS NOT REQUIRED.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (mm/dd/yyyy)

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

ISSUANCE/REISSUANCE DATE:

DEP Form 62-620.910(10), Effective Nov. 29, 1994

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: FPL - Lauderdale Power Plant
 MAILING ADDRESS: 4300 SW 42nd Avenue
 Fort Lauderdale, FL 33314-

PERMIT NUMBER:

FL0001503-003-IW1S

FACILITY: FPL - Lauderdale Power Plant
 LOCATION: 4300 SW 42nd Avenue
 Fort Lauderdale, FL 33314-

LIMIT:
 CLASS SIZE:
 MONITORING GROUP NUMBER:
 MONITORING GROUP DESCRIPTION:
 RE-SUBMITTED DMR: ☐
 NO DISCHARGE FROM SITE: ☐
 MONITORING PERIOD

Final
 MA
 D-0B1
 Stormwater Runoff From Equipment Area

REPORT FREQUENCY: Monthly
 PROGRAM: Industrial

COUNTY: Broward
 OFFICE: Southeast District

From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Flow	Sample Measurement										
PARM Code 50050 1 Mon. Site No. EFF-8	Permit Requirement		Report (Day.Max.)	MGD						Quarterly, when discharging	Calculated
Solids, Total Suspended	Sample Measurement										
PARM Code 00530 1 Mon. Site No. EFF-8	Permit Requirement					50.0 (Day.Max.)	mg/L			Quarterly, when discharging	Grab
pH	Sample Measurement										
PARM Code 00400 1 Mon. Site No. EFF-8	Permit Requirement				6.0 (Day.Min.)	9.0 (Day.Max.)	s.u.			Weekly, when discharging	Grab

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (mm/dd/yyyy)

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachmets here):

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: FPL - Lauderdale Power Plant
MAILING ADDRESS: 4300 SW 42nd Avenue
Fort Lauderdale, FL 33314-

PERMIT NUMBER:

FL0001503-003-IW1S

FACILITY: FPL - Lauderdale Power Plant
LOCATION: 4300 SW 42nd Avenue
Fort Lauderdale, FL 33314-

LIMIT: Final
CLASS SIZE: MA
MONITORING GROUP NUMBER: I-012
MONITORING GROUP DESCRIPTION: Demineralizer Regeneration Wastewater
RE-SUBMITTED DMR: ☐
NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD From: To:

REPORT FREQUENCY: Monthly
PROGRAM: Industrial

COUNTY: Broward
OFFICE: Southeast District

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Flow	Sample Measurement										
PARM Code 50050 1 Mon. Site No. EFF-12	Permit Requirement	Report (Mo.Avg.)	Report (Day.Max.)	MGD						Per batch of process	Calculated
Oil and Grease	Sample Measurement										
PARM Code 00556 1 Mon. Site No. EFF-12	Permit Requirement				15.0 (Mo.Avg.)	20.0 (Day.Max.)		mg/L		Once every 2 months, when discharging	Grab
Solids, Total Suspended	Sample Measurement										
PARM Code 00530 1 Mon. Site No. EFF-12	Permit Requirement				30 (Mo.Avg.)	100 (Day.Max.)		mg/L		Once every 2 months, when discharging	Grab
pH	Sample Measurement										
PARM Code 00400 1 Mon. Site No. EFF-12	Permit Requirement				6.0 (Day.Min.)	9.0 (Day.Max.)		s.u.		Once every 2 months, when discharging	Grab
Nitrogen, Total	Sample Measurement										
PARM Code 00600 1 Mon. Site No. EFF-12	Permit Requirement				Report (Single Sample)			mg/L		Quarterly	Grab
Phosphorus, Total	Sample Measurement										
PARM Code 00665 1 Mon. Site No. EFF-12	Permit Requirement				Report (Single Sample)			mg/L		Quarterly	Grab

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (mm/dd/yyyy)

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: FPL - Lauderdale Power Plant
MAILING ADDRESS: 4300 SW 42nd Avenue
Fort Lauderdale, FL 33314-

PERMIT NUMBER:

FL0001503-003-IW1S

FACILITY: FPL - Lauderdale Power Plant
LOCATION: 4300 SW 42nd Avenue
Fort Lauderdale, FL 33314-

LIMIT: Final
CLASS SIZE: MA
MONITORING GROUP NUMBER: I-013
MONITORING GROUP DESCRIPTION: Wastewater Treatment System Effluent
RE-SUBMITTED DMR: ☐
NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD From: _____ To: _____

COUNTY: Broward
OFFICE: Southeast District

REPORT FREQUENCY: Monthly
PROGRAM: Industrial

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Flow	Sample Measurement										
PARM Code 50050 1 Mon. Site No. EFF-13	Permit Requirement	Report (Mo.Avg.)	Report (Day.Max.)	MGD						Continuous	Flow Totalizer
Oil and Grease	Sample Measurement										
PARM Code 00556 1 Mon. Site No. EFF-13	Permit Requirement				15 (Mo.Avg.)	20 (Day.Max.)		mg/L		Semi-Annually; twice per year	Grab
Solids, Total Suspended	Sample Measurement										
PARM Code 00530 1 Mon. Site No. EFF-13	Permit Requirement				30.0 (Mo.Avg.)	100.0 (Day.Max.)		mg/L		Semi-Annually; twice per year	Grab
pH	Sample Measurement										
PARM Code 00400 1 Mon. Site No. EFF-13	Permit Requirement				6.0 (Day.Min.)	9.0 (Day.Max.)		s.u.		Monthly	Grab
Nitrogen, Total	Sample Measurement										
PARM Code 00600 1 Mon. Site No. EFF-13	Permit Requirement				Report (Single Sample)			mg/L		Quarterly	Grab
Phosphorus, Total	Sample Measurement										
PARM Code 00665 1 Mon. Site No. EFF-13	Permit Requirement				Report (Single Sample)			mg/L		Quarterly	Grab

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (mm/dd/yyyy)

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: FPL - Lauderdale Power Plant
MAILING ADDRESS: 4300 SW 42nd Avenue
Fort Lauderdale, FL 33314-

PERMIT NUMBER:

FL0001503-003-IW1S

FACILITY: FPL - Lauderdale Power Plant
LOCATION: 4300 SW 42nd Avenue
Fort Lauderdale, FL 33314-

LIMIT:
CLASS SIZE:
MONITORING GROUP NUMBER:
MONITORING GROUP DESCRIPTION:
RE-SUBMITTED DMR: ☐
NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD

Final
MA
I-015
Metal Cleaning Wastewater

REPORT FREQUENCY: Monthly
PROGRAM: Industrial

COUNTY: Broward
OFFICE: Southeast District

From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Flow, Total Volume	Sample Measurement										
PARM Code 82220 1 Mon. Site No. EFF-14	Permit Requirement	Report (Mo.Total)	Report (Day.Max.)	Mgal/month						Continuous	Flow Totalizer
Copper, Total Recoverable	Sample Measurement										
PARM Code 01119 1 Mon. Site No. EFF-14	Permit Requirement					1.0 (Day.Max.)	mg/L			Per batch of process	24-hr TPC
Iron, Total Recoverable	Sample Measurement										
PARM Code 00980 1 Mon. Site No. EFF-14	Permit Requirement					1.0 (Day.Max.)	mg/L			Per batch of process	24-hr TPC
Oil and Grease	Sample Measurement										
PARM Code 00556 1 Mon. Site No. EFF-14	Permit Requirement					15.0 (Day.Max.)	mg/L			Per batch of process	24-hr TPC
Solids, Total Suspended	Sample Measurement										
PARM Code 00530 1 Mon. Site No. EFF-14	Permit Requirement					30 (Day.Max.)	mg/L			Per batch of process	24-hr TPC

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (mm/dd/yyyy)

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

ISSUANCE/REISSUANCE DATE:

DEP Form 62-620.910(10), Effective Nov. 29, 1994

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: FPL - Lauderdale Power Plant
MAILING ADDRESS: 4300 SW 42nd Avenue
Fort Lauderdale, FL 33314-

PERMIT NUMBER:

FL0001503-003-IW1S

FACILITY: FPL - Lauderdale Power Plant
LOCATION: 4300 SW 42nd Avenue
Fort Lauderdale, FL 33314-

LIMIT:
CLASS SIZE:
MONITORING GROUP NUMBER:
MONITORING GROUP DESCRIPTION:
RE-SUBMITTED DMR: ☐
NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD

Final
MA
I-01D
Construction Dewatering

REPORT FREQUENCY: Monthly
PROGRAM: Industrial

COUNTY: Broward
OFFICE: Southeast District

From: To:

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Flow	Sample Measurement										
PARM Code 50050 1 Mon. Site No. EFF-7	Permit Requirement		Report (Day.Max.)	MGD						Daily, when discharging	Calculated
Oil and Grease	Sample Measurement										
PARM Code 00556 1 Mon. Site No. EFF-7	Permit Requirement					Report (Day.Max.)	mg/L			Monthly, when discharging	Grab
Solids, Total Suspended	Sample Measurement										
PARM Code 00530 1 Mon. Site No. EFF-7	Permit Requirement					50.0 (Day.Max.)	mg/L			Monthly, when discharging	Grab
Turbidity	Sample Measurement										
PARM Code 00070 1 Mon. Site No. EFF-7	Permit Requirement					Report (Day.Max.)	NTU			Monthly, when discharging	Grab
pH	Sample Measurement										
PARM Code 00400 1 Mon. Site No. EFF-7	Permit Requirement				6.0 (Day.Min.)	9.0 (Day.Max.)	s.u.			Monthly, when discharging	Grab

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COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

ISSUANCE/REISSUANCE DATE:

DEP Form 62-620.910(10), Effective Nov. 29, 1994

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: FPL - Lauderdale Power Plant
 MAILING ADDRESS: 4300 SW 42nd Avenue
 Fort Lauderdale, FL 33314-

PERMIT NUMBER: FL0001503-003-IW1S
 LIMIT: Final
 CLASS SIZE: MA
 MONITORING GROUP NUMBER: I-01E
 MONITORING GROUP DESCRIPTION: Reverse Osmosis Reject

REPORT FREQUENCY: Monthly
 PROGRAM: Industrial

FACILITY: FPL - Lauderdale Power Plant
 LOCATION: 4300 SW 42nd Avenue
 Fort Lauderdale, FL 33314-

RE-SUBMITTED DMR: ☐
 NO DISCHARGE FROM SITE: ☐
 MONITORING PERIOD From: _____ To: _____

COUNTY: Broward
 OFFICE: Southeast District

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Flow	Sample Measurement										
PARM Code 50050 1 Mon. Site No. EFF-11	Permit Requirement	Report (Mo.Avg.)	Report (Day.Max.)	MGD						Weekly	Calculated
Oil and Grease	Sample Measurement										
PARM Code 00556 1 Mon. Site No. EFF-11	Permit Requirement				15.0 (Mo.Avg.)	20.0 (Day.Max.)		mg/L		Semi-Annually; twice per year	Grab
Solids, Total Suspended	Sample Measurement										
PARM Code 00530 Y Mon. Site No. EFF-11	Permit Requirement				30.0 (An.Avg.)	100.0 (Day.Max.)		mg/L		Once every 2 months	8-hr FPC
Nitrogen, Total	Sample Measurement										
PARM Code 00600 1 Mon. Site No. EFF-11	Permit Requirement				Report (Single Sample)			mg/L		Quarterly	Grab
Phosphorus, Total	Sample Measurement										
PARM Code 00665 1 Mon. Site No. EFF-11	Permit Requirement				Report (Single Sample)			mg/L		Quarterly	Grab

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NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (mm/dd/yyyy)

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: FPL - Lauderdale Power Plant
MAILING ADDRESS: 4300 SW 42nd Avenue
Fort Lauderdale, FL 33314-

PERMIT NUMBER: FL0001503-003-1W1S

FACILITY: FPL - Lauderdale Power Plant
LOCATION: 4300 SW 42nd Avenue
Fort Lauderdale, FL 33314-

LIMIT: Final
CLASS SIZE: MA
MONITORING GROUP NUMBER: I-11A
MONITORING GROUP DESCRIPTION: Unit 4 Once-through Cooling Water

REPORT FREQUENCY: Monthly
PROGRAM: Industrial

COUNTY: Broward
OFFICE: Southeast District

RE-SUBMITTED DMR: ☐
NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD

From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Flow	Sample Measurement										
PARM Code 50050 7 Mon. Site No. INT-1	Permit Requirement	Report (Mo.Avg.)	Report (Day.Max.)	MGD						Continuous	Calculated
Temperature (F), Water	Sample Measurement										
PARM Code 00011 1 Mon. Site No. EFF-1	Permit Requirement				Report (Mo.Avg.)	Report (Day.Max.)	Deg F			Continuous	Meter
Temperature (F), Water	Sample Measurement										
PARM Code 00011 Q Mon. Site No. INT-1	Permit Requirement				Report (Mo.Avg.)	Report (Day.Max.)	Deg F			Continuous	Meter
Temp. Diff. between Intake and Discharge	Sample Measurement										
PARM Code 61576 1 Mon. Site No. EFF-1	Permit Requirement				13.2 (Mo.Avg.)	Report (Day.Max.)	Deg F			Daily; 24 hours	Calculated
Oxidants, Total Residual	Sample Measurement										
PARM Code 34044 1 Mon. Site No. EFF-1	Permit Requirement				0.20 (Mo.Avg.)	0.20 (Day.Max.)	mg/L			Weekly	Grab
Chlorination Duration	Sample Measurement										
PARM Code 78739 7 Mon. Site No. INT-3	Permit Requirement					1440 (Day.Max.)	min			Daily; 24 hours	Calculated

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NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (mm/dd/yyyy)

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

PERMIT NUMBER: FL0001503-003-IW1S

[illegible]

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: FPL - Lauderdale Power Plant
 MAILING ADDRESS: 4300 SW 42nd Avenue
 Fort Lauderdale, FL 33314-

PERMIT NUMBER:

FL0001503-003-IW1S

FACILITY: FPL - Lauderdale Power Plant
 LOCATION: 4300 SW 42nd Avenue
 Fort Lauderdale, FL 33314-

LIMIT: Final
 CLASS SIZE: MA
 MONITORING GROUP NUMBER: I-11B
 MONITORING GROUP DESCRIPTION: Unit 5 Once-through Cooling Water
 RE-SUBMITTED DMR: ☐
 NO DISCHARGE FROM SITE: ☐
 MONITORING PERIOD From: To:

REPORT FREQUENCY: Monthly
 PROGRAM: Industrial

COUNTY: Broward
 OFFICE: Southeast District

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Flow	Sample Measurement										
PARM Code 50050 7 Mon. Site No. INT-2	Permit Requirement	Report (Mo.Avg.)	Report (Day.Max.)	MGD						Continuous	Calculated
Temperature (F), Water	Sample Measurement										
PARM Code 00011 1 Mon. Site No. EFF-2	Permit Requirement					Report (Mo.Avg.)	Report (Day.Max.)	Deg F		Continuous	Meter
Temperature (F), Water	Sample Measurement										
PARM Code 00011 Q Mon. Site No. INT-2	Permit Requirement					Report (Mo.Avg.)	Report (Day.Max.)	Deg F		Continuous	Meter
Temp. Diff. between Intake and Discharge	Sample Measurement										
PARM Code 61576 1 Mon. Site No. EFF-2	Permit Requirement					13.2 (Mo.Avg.)	Report (Day.Max.)	Deg F		Daily; 24 hours	Calculated
Oxidants, Total Residual	Sample Measurement										
PARM Code 34044 1 Mon. Site No. EFF-2	Permit Requirement					0.20 (Mo.Avg.)	0.20 (Day.Max.)	mg/L		Weekly	Grab
Chlorination Duration	Sample Measurement										
PARM Code 78739 7 Mon. Site No. INT-4	Permit Requirement						1440 (Day.Max.)	min		Daily; 24 hours	Meter

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NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (mm/dd/yyyy)

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

ISSUANCE/REISSUANCE DATE:

DEP Form 62-620.910(10), Effective Nov. 29, 1994

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: FPL - Lauderdale Power Plant
MAILING ADDRESS: 4300 SW 42nd Avenue
Fort Lauderdale, FL 33314-

PERMIT NUMBER:

FL0001503-003-IWIS

FACILITY: FPL - Lauderdale Power Plant
LOCATION: 4300 SW 42nd Avenue
Fort Lauderdale, FL 33314-

LIMIT:
CLASS SIZE:
MONITORING GROUP NUMBER:
MONITORING GROUP DESCRIPTION:
RE-SUBMITTED DMR: ☐
NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD

Final
MA
I-16A
REPORT FREQUENCY: Monthly
PROGRAM: Industrial
Unit 4 Heat Recovery Steam Generator (HRSG) Boiler Blowdown

COUNTY: Broward
OFFICE: Southeast District

From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Flow	Sample Measurement										
PARM Code 50050 1 Mon. Site No. EFF-5	Permit Requirement	Report (Mo.Avg.)	Report (Day.Max.)	MGD						Monthly	Calculated
Oil and Grease	Sample Measurement										
PARM Code 00556 1 Mon. Site No. EFF-5	Permit Requirement				15.0 (Mo.Avg.)	20.0 (Day.Max.)		mg/L		Monthly	Grab
Solids, Total Suspended	Sample Measurement										
PARM Code 00530 1 Mon. Site No. EFF-5	Permit Requirement				30.0 (Mo.Avg.)	100.0 (Day.Max.)		mg/L		Monthly	8-hr FPC

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NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (mm/dd/yyyy)

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: FPL - Lauderdale Power Plant
MAILING ADDRESS: 4300 SW 42nd Avenue
Fort Lauderdale, FL 33314-

PERMIT NUMBER: FL0001503-003-IW1S

FACILITY: FPL - Lauderdale Power Plant
LOCATION: 4300 SW 42nd Avenue
Fort Lauderdale, FL 33314-

LIMIT: Final
CLASS SIZE: MA
MONITORING GROUP NUMBER: I-16B
MONITORING GROUP DESCRIPTION: Unit 5 Heat Recovery Steam Generator (HRSG) Boiler Blowdown

REPORT FREQUENCY: Monthly
PROGRAM: Industrial

COUNTY: Broward
OFFICE: Southeast District

RE-SUBMITTED DMR: ☐
NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Flow	Sample Measurement										
PARM Code 50050 1 Mon. Site No. EFF-6	Permit Requirement	Report (Mo.Avg.)	Report (Day.Max.)	MGD						Monthly	Calculated
Oil and Grease	Sample Measurement										
PARM Code 00556 1 Mon. Site No. EFF-6	Permit Requirement				15.0 (Mo.Avg.)	20.0 (Day.Max.)		mg/L		Monthly	Grab
Solids, Total Suspended	Sample Measurement										
PARM Code 00530 1 Mon. Site No. EFF-6	Permit Requirement				30.0 (Mo.Avg.)	100.0 (Day.Max.)		mg/L		Monthly	8-hr FPC

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

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COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

ISSUANCE/REISSUANCE DATE:

DEP Form 62-620.910(10), Effective Nov. 29, 1994

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: FPL - Lauderdale Power Plant
 MAILING ADDRESS: 4300 SW 42nd Avenue
 Fort Lauderdale, FL 33314-

PERMIT NUMBER:

FL0001503-003-IW1S

FACILITY: FPL - Lauderdale Power Plant
 LOCATION: 4300 SW 42nd Avenue
 Fort Lauderdale, FL 33314-

LIMIT:
 CLASS SIZE:
 MONITORING GROUP NUMBER:
 MONITORING GROUP DESCRIPTION:
 RE-SUBMITTED DMR: ☐
 NO DISCHARGE FROM SITE: ☐
 MONITORING PERIOD

Final
 MA
 I-1B2
 Stormwater Runoff from Equipment Area

REPORT FREQUENCY: Monthly
 PROGRAM: Industrial

COUNTY: Broward
 OFFICE: Southeast District

From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Flow	Sample Measurement										
PARM Code 50050 1 Mon. Site No. EFF-9	Permit Requirement		Report (Day.Max.)	MGD						Weekly, when discharging	Calculated
Solids, Total Suspended	Sample Measurement										
PARM Code 00530 1 Mon. Site No. EFF-9	Permit Requirement					50.0 (Day.Max.)	mg/L			Quarterly, when discharging	Grab
pH	Sample Measurement										
PARM Code 00400 1 Mon. Site No. EFF-9	Permit Requirement				6.0 (Day.Min.)	9.0 (Day.Max.)	s.u.			Quarterly, when discharging	Grab

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COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: FPL - Lauderdale Power Plant
 MAILING ADDRESS: 4300 SW 42nd Avenue
 Fort Lauderdale, FL 33314-

PERMIT NUMBER:

FL0001503-003-IW1S

FACILITY: FPL - Lauderdale Power Plant
 LOCATION: 4300 SW 42nd Avenue
 Fort Lauderdale, FL 33314-

LIMIT:
 CLASS SIZE:
 MONITORING GROUP NUMBER:
 MONITORING GROUP DESCRIPTION:
 RE-SUBMITTED DMR: ☐
 NO DISCHARGE FROM SITE: ☐
 MONITORING PERIOD

Final
 MA
 I-1B3
 REPORT FREQUENCY: Monthly
 PROGRAM: Industrial
 Stormwater Runoff from Equipment Area and non-Equipment Area

COUNTY: Broward
 OFFICE: Southeast District

From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Flow	Sample Measurement										
PARM Code 50050 1 Mon. Site No. EFF-10	Permit Requirement		Report (Day.Max.)	MGD						Weekly, when discharging	Calculated
Solids, Total Suspended	Sample Measurement										
PARM Code 00530 1 Mon. Site No. EFF-10	Permit Requirement					50.0 (Day.Max.)	mg/L			Quarterly, when discharging	Grab
pH	Sample Measurement										
PARM Code 00400 1 Mon. Site No. EFF-10	Permit Requirement				6.0 (Day.Min.)	9.0 (Day.Max.)	s.u.			Quarterly, when discharging	Grab

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NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (mm/dd/yyyy)

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

ISSUANCE/REISSUANCE DATE:

DEP Form 62-620.910(10), Effective Nov. 29, 1994

INSTRUCTIONS FOR COMPLETING THE WASTEWATER DISCHARGE MONITORING REPORT

Read these instructions before completing the DMR. Hard copies and/or electronic copies of the required parts of the DMR were provided with the permit. All required information shall be completed in full and typed or printed in ink. A signed, original DMR shall be mailed to the address printed on the DMR by the 28th of the month following the monitoring period. The DMR shall not be submitted before the end of the monitoring period.

The DMR consists of three parts--A, B, and D--all of which may or may not be applicable to every facility. Facilities may have one or more Part A's for reporting effluent or reclaimed water data. All domestic wastewater facilities will have a Part B for reporting daily sample results. Part D is used for reporting ground water monitoring well data.

When results are not available, the following codes should be used on parts A and D of the DMR and an explanation provided where appropriate. Note: Codes used on Part B for raw data are different.

CODE	DESCRIPTION/INSTRUCTIONS
ANC	Analysis not conducted.
DRY	Dry Well
FLD	Flood disaster.
IFS	Insufficient flow for sampling.
LS	Lost sample.
MNR	Monitoring not required this period.

CODE	DESCRIPTION/INSTRUCTIONS
NOD	No discharge from/to site.
OPS	Operations were shutdown so no sample could be taken.
OTH	Other. Please enter an explanation of why monitoring data were not available.
SEF	Sampling equipment failure.

When reporting analytical results that fall below a laboratory's reported method detection limits or practical quantification limits, the following instructions should be used:

1. Results greater than or equal to the PQL shall be reported as the measured quantity.
2. Results less than the PQL and greater than or equal to the MDL shall be reported as the laboratory's MDL value. These values shall be deemed equal to the MDL when necessary to calculate an average for that parameter and when determining compliance with permit limits.
3. Results less than the MDL shall be reported by entering a less than sign ("<") followed by the laboratory's MDL value, e.g. < 0.001. A value of one-half the MDL or one-half the effluent limit, whichever is lower, shall be used for that sample when necessary to calculate an average for that parameter. Values less than the MDL are considered to demonstrate compliance with an effluent limitation.

PART A -DISCHARGE MONITORING REPORT (DMR)

Part A of the DMR is comprised of one or more sections, each having its own header information. Facility information is preprinted in the header as well as the monitoring group number, whether the limits and monitoring requirements are interim or final, and the required submittal frequency (e.g. monthly, annually, quarterly, etc.). Submit Part A based on the required reporting frequency in the header and the instructions shown in the permit. The following should be completed by the permittee or authorized representative:

Resubmitted DMR: Check this box if this DMR is being re-submitted because there was information missing from or information that needed correction on a previously submitted DMR. The information that is being revised should be clearly noted on the re-submitted DMR (e.g. highlight, circle, etc.)

No Discharge From Site: Check this box if no discharge occurs and, as a result, there are no data or codes to be entered for all of the parameters on the DMR for the entire monitoring group number; however, if the monitoring group includes other monitoring locations (e.g., influent sampling), the "NOD" code should be used to individually denote those parameters for which there was no discharge.

Monitoring Period: Enter the month, day, and year for the first and last day of the monitoring period (i.e. the month, the quarter, the year, etc.) during which the data on this report were collected and analyzed.

Sample Measurement: Before filling in sample measurements in the table, check to see that the data collected correspond to the limit indicated on the DMR (i.e. interim or final) and that the data correspond to the monitoring group number in the header. Enter the data or calculated results for each parameter on this row in the non-shaded area above the limit. Be sure the result being entered corresponds to the appropriate statistical base code (e.g. annual average, monthly average, single sample maximum, etc.) and units.

No. Ex.: Enter the number of sample measurements during the monitoring period that exceeded the permit limit for each parameter in the non-shaded area. If none, enter zero.

Frequency of Analysis: The shaded areas in this column contain the minimum number of times the measurement is required to be made according to the permit. Enter the actual number of times the measurement was made in the space above the shaded area.

Sample Type: The shaded areas in this column contain the type of sample (e.g. grab, composite, continuous) required by the permit. Enter the actual sample type that was taken in the space above the shaded area.

Signature: This report must be signed in accordance with Rule 62-620.305, F.A.C. Type or print the name and title of the signing official. Include the telephone number where the official may be reached in the event there are questions concerning this report. Enter the date when the report is signed.

Comment and Explanation of Any Violations: Use this area to explain any exceedances, any upset or by-pass events, or other items which require explanation. If more space is needed, reference all attachments in this area.

PART B - DAILY SAMPLE RESULTS

Monitoring Period: Enter the month, day, and year for the first and last day of the monitoring period (i.e. the month, the quarter, the year, etc.) during which the data on this report were collected and analyzed.

Daily Monitoring Results: Transfer all analytical data from your facility's laboratory or a contract laboratory's data sheets for all day(s) that samples were collected. Record the data in the units indicated. Table 1 in Chapter 62-160, F.A.C., contains a complete list of all the data qualifier codes that your laboratory may use when reporting analytical results. However, when transferring numerical results onto Part B of the DMR, only the following data qualifier codes should be used and an explanation provided where appropriate.

CODE	DESCRIPTION/INSTRUCTIONS
<	The compound was analyzed for but not detected.
A	Value reported is the mean (average) of two or more determinations.
J	Estimated value, value not accurate.
Q	Sample held beyond the actual holding time.
Y	Laboratory analysis was from an unpreserved or improperly preserved sample.

To calculate the monthly average, add each reported value to get a total. For flow, divide this total by the number of days in the month. For all other parameters, divide the total by the number of observations.

Plant Staffing: List the name, certificate number, and class of all state certified operators operating the facility during the monitoring period. Use additional sheets as necessary.

PART D - GROUND WATER MONITORING REPORT

Monitoring Period: Enter the month, day, and year for the first and last day of the monitoring period (i.e. the month, the quarter, the year, etc.) during which the data on this report were collected and analyzed.

Date Sample Obtained: Enter the date the sample was taken. Also, check whether or not the well was purged before sampling.

Time Sample Obtained: Enter the time the sample was taken.

Sample Measurement: Record the results of the analysis. If the result was below the minimum detection limit, indicate that.

Detection Limits: Record the detection limits of the analytical methods used.

Analysis Method: Indicate the analytical method used. Record the method number from Chapter 62-160 or Chapter 62-601, F.A.C., or from other sources.

Sampling Equipment Used: Indicate the procedure used to collect the sample (e.g. airlift, bucket/bailer, centrifugal pump, etc.)

Samples Filtered: Indicate whether the sample obtained was filtered by laboratory (L), filtered in field (F), or unfiltered (N).

Signature: This report must be signed in accordance with Rule 62-620.305, F.A.C. Type or print the name and title of the signing official. Include the telephone number where the official may be reached in the event there are questions concerning this report. Enter the date when the report is signed.

Comments and Explanation: Use this space to make any comments on or explanations of results that are unexpected. If more space is needed, reference all attachments in this area.

SPECIAL INSTRUCTIONS FOR LIMITED WET WEATHER DISCHARGES

Flow (Limited Wet Weather Discharge): Enter the measured average flow rate during the period of discharge or divide gallons discharged by duration of discharge (converted into days). Record in million gallons per day (MGD).

Flow (Upstream): Enter the average flow rate in the receiving stream upstream from the point of discharge for the period of discharge. The average flow rate can be calculated based on two measurements; one made at the start and one made at the end of the discharge period. Measurements are to be made at the upstream gauging station described in the permit.

Actual Stream Dilution Ratio: To calculate the Actual Stream Dilution Ratio, divide the average upstream flow rate by the average discharge flow rate. Enter the Actual Stream Dilution Ratio accurate to the nearest 0.1.

No. of Days the SDF > Stream Dilution Ratio: For each day of discharge, compare the minimum Stream Dilution Factor (SDF) from the permit to the calculated Stream Dilution Ratio. On Part B of the DMR, enter an asterisk (*) if the SDF is greater than the Stream Dilution Ratio on any day of discharge. On Part A of the DMR, add up the days with an "*" and record the total number of days the Stream Dilution Factor was greater than the Stream Dilution Ratio.

CBOD₅: Enter the average CBOD₅ of the reclaimed water discharged during the period shown in duration of discharge.

TKN: Enter the average TKN of the reclaimed water discharged during the period shown in duration of discharge.

Actual Rainfall: Enter the actual rainfall for each day on Part B. Enter the actual cumulative rainfall to date for this calendar year and the actual total monthly rainfall on Part A. The cumulative rainfall to date for this calendar year is the total amount of rain, in inches, that has been recorded since January 1 of the current year through the month for which this DMR contains data.

Rainfall During Average Rainfall Year: On Part A, enter the total monthly rainfall during the average rainfall year and the cumulative rainfall for the average rainfall year. The cumulative rainfall for the average rainfall year is the amount of rain, in inches, which fell during the average rainfall year from January through the month for which this DMR contains data.

No. of Days LWWD Activated During Calendar Year: Enter the cumulative number of days that the limited wet weather discharge was activated since January 1 of the current year.

Reason for Discharge: Attach to the DMR a brief explanation of the factors contributing to the need to activate the limited wet weather discharge.

FORM 2CS

**WASTEWATER APPLICATION FOR PERMIT TO DISCHARGE PROCESS
WASTEWATER FROM NEW OR EXISTING INDUSTRIAL WASTEWATER
FACILITIES TO SURFACE WATERS**

FORM 2CS



WASTEWATER APPLICATION FOR PERMIT TO DISCHARGE PROCESS WASTEWATER FROM NEW OR EXISTING INDUSTRIAL WASTEWATER FACILITIES TO SURFACE WATERS

Facility I.D. Number: FL0001503

Please print or type information in the appropriate areas.

I OUTFALL LOCATION For each outfall, list the X,Y coordinates and the name of the receiving water.

(latitude/longitude to the nearest 15 seconds)

A. Outfall No. (List)	B. Latitude			C. Longitude			D. Name of Receiving Water
	Deg.	Min.	Sec.	Deg.	Min.	Sec.	
D-001	26	05	09	80	10	55	South Fork New River (WBID 3277A)
D-009A	26	04	05	80	11	58	Dania Cutoff Canal (WBID 3277E)
D-009B	26	04	05	80	11	55	Dania Cutoff Canal (WBID 3277E)
I-013A	26	04	12	80	11	40	Internal to Cooling Pond
I-013B	26	04	12	80	11	50	Internal to Cooling Pond
I-013C	26	04	09	80	11	56	Internal to Cooling Pond
Continued	See	Form 2CS	Attachment	1			Continued on Form 2CS Attachment 1

II OUTFALL DESIGN

A. Outfall No. (List)	B. Design Configuration and Construction Materials	C. Distance from shore	D. Diameter	E. Elevation of Discharge Invert (MSL)	F. Receiving Water Depth at POD (MSL)
D-001	Culvert at Downstream End of Cooling Pond System	0	TBD Note 1	TBD Note 1	TBD Note 1
D-009A	Intake Screen Wash Water & Strainer Backwash	0	TBD Note 1	TBD Note 1	TBD Note 1
D-009B	Intake Screen Wash Water & Strainer Backwash	0	TBD Note 1	TBD Note 1	TBD Note 1
I-013A	Existing Contact Water Oil/Water Separator Effluent	0	TBD Note 1	TBD Note 1	TBD Note 1
I-013B	Unit 7 Contact Water Oil/Water Separator Effluent	0	TBD Note 1	TBD Note 1	TBD Note 1
I-013C	Unit 7 Plant Drains Oil/Water Separator Effluent	0	TBD Note 1	TBD Note 1	TBD Note 1

III RECEIVING WATER INFORMATION

For each surface water that will receive effluent, supply the following information:

A. Name of Receiving Water	B. Check One		C. Classification (See Ch. 62-302, F.A.C.)	D. Type of Receiving Water (canal, river, lake, etc.)
	Fresh	Salt or Brackish		
South Fork New River	☐	☒	Class III Marine	Tidal canal/river
Dania Cutoff canal	☐	☒	Class III Marine	Tidal canal
South New River canal	☐	☒	Class III Marine	Tidal canal
	☐	☐		
	☐	☐		
	☐	☐		

E. Minimum 7-day 10-year low flow of the receiving water at each outfall (if appropriate).

F. Identify and describe the flow of effluent from each outfall to a major body of water. A suitably marked map or aerial photograph may be used.

G. Do you request a mixing zone under Rule 62-4.244, F.A.C.? If yes, for what parameters or pollutants?

IV FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

A. Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item B. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfalls. If a water balance cannot be determined (e.g., for certain mining activities), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.

B. For each outfall, provide a description of:

1. All operations contributing wastewater to the effluent; including process wastewater, sanitary wastewater, cooling water, and stormwater runoff;
2. The average flow contributed by each operation; and
3. The treatment received by the wastewater.

Use the space on the next page. Continue on additional sheets, if necessary.

(1) Outfall No. (List)	(2) Operation(s) Contributing Flow		(3) Treatment		
	(a) Operation (list)	(b) Avg. Flow & Units	(a) Description	(b) List Code from Table 2CS-1	
D-001	Cooling pond effluent at the point of	333 MGD AADF	Discharge to Surface Water	4-A	
	Discharge into Waters of the U.S.,	(June 2015)	Evaporation (thermal dissipation)	1-F	
	consisting of effluent from all internal		Mixing	1-O	
	discharges to cooling pond		Sedimentation	1-U	
D-0B1	Storm water discharge into	Intermittent	Discharge to Surface Water after	4-A	
	Waters of the U.S.		Sedimentation	1-U	
			Percolation/Evaporation	1-Y	1-F
D-009A and D-009B	Intake screen wash, strainer backwash	16.31 MGD AADF	Discharge to Surface Water after	4-A	
	and pump seal water		Screening	1-T	
			Landfilling (debris)	5-Q	
I-013A, I-013B and I-013C	Secondary containment water and	Intermittent	Discharge to Surface Water after	4-A	
	equipment contact stormwater		Oil / Water Separation	N/A	
	after oil/water separation				
I-011	Water return to cooling pond, includes:	350.9 AADF	Discharge to Surface Water	4-A	
	I-01E, I-013A, I-013B & I-013C	352.35 Max DF			
	I-012, I-015, I-16				
I-01E	Water treatment system reject water	50 gpm	Discharge to Surface Water	4-A	
	water is reused in the cooling system		Mixing	1-O	
I-012, I-015 and I-016	Water treatment system waste water,	Intermittent	Discharge to Surface Water	4-A	
	construction and maintenance water, and		Mixing	1-O	
	chemical/metal cleaning rinse water		Sedimentation	1-U	
	non-recoverable blowdown and drains				

C. Except for storm runoff, leaks, or spills, are any of the discharges described in Items II-A or B intermittent or seasonal? ☒ Yes (complete the following table) ☐ No (go to D. below)								
(1) Outfall No. (List)	(2) Operation(s) Contributing Flow(List)	(3) Frequency		(4) Flow				
		(a) Days per Week (specify avg.)	(b) Months per Yr. (specify avg.)	(a) Flow Rate (in mgd)		(b) Total Volume (specify with units)		(c) Duration (in days)
				Long Term Avg.	Max. Daily	Long Term Avg.	Max. Daily	
I-013A, I-013B	Contact & containment area stormwater	TBD	TBD	TBD	TBD	TBD	TBD	TBD
I-015	Metal cleaning rinse water	TBD	TBD	TBD	TBD	TBD	TBD	TBD
I-012	Water treatment system waste water	TBD	TBD	TBD	N/A	TBD	TBD	TBD

D. Describe practices to be followed to ensure adequate wastewater treatment during emergencies such as power loss and equipment failures causing shutdown of pollution abatement equipment of the proposed/permitted facilities.

E. List the method(s) and location(s) of flow measurement.

V PRODUCTION

A. Does an effluent guideline limitation promulgated by EPA under Section 304 of the Clean Water Act apply to your facility?

☒ Yes (complete Item V-B) ☐ No (go to Section VI)

B. Are the limitations in the applicable guideline expressed in terms of production (or other measure of operation)?

☐ Yes (complete Item V-C) ☒ No (go to Section VI)

C. If you answered "yes" to Item V-B, list the quantity which represents an actual measurement of your level of production, expressed in the terms and units used in the applicable effluent guideline, and indicate the affected outfalls.

1. AVERAGE DAILY PRODUCTION			2. Affected Outfalls
a. Quantity per Day	b. Units of Measure	c. Operation, Product, Materials, Etc. (specify)	(list outfall nos.)
NA	NA	NA	NA

VI IMPROVEMENTS

A. Are you now required by any Federal, State or local authority to meet any implementation schedule for the construction, upgrading or operation of wastewater treatment equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement order, enforcement compliance schedule letter, stipulations, court orders, and grant or loan conditions.

☒ Yes (complete the following table) ☐ No (go to Item VI-B)

1. Identification of Condition, Agreement, Etc.	2. Affected Outfalls		3. Brief Description of Project	4. Final Compliance Date	
	a. No.	b. Source of Discharge		a. Required	B. Projected
Condition IV.4; CWA 316(b)	D-009A/B	Screen wash water and strainer backwash	Implementation of the 316(b) cooling water intake regulations requiring submittal of all Section 122.21(r) forms and associated reports and documentation.	180 days prior to June 24, 2020	Same

B. OPTIONAL: You may attach additional sheets describing any additional water pollution control programs (or other environmental projects which may affect your discharges) you now have underway or which you plan. Indicate whether each program is now underway or planned, and indicate your actual or planned schedules for construction.

☐ Mark "X" if description of additional control programs is attached.

VII INTAKE AND EFFLUENT CHARACTERISTICS

A, B, & C: See instructions before proceeding--Complete one set of tables for each outfall -- Annotate the outfall number in the space provided. NOTE: Tables VII-A, VII-B, and VII-C are included on separate sheets number VII-1 through VII-9.

D. Use the space below to list any of the pollutants listed in Table 2CS-3 of the instructions, which you know or have reason to believe is discharged or may be discharged from any outfall. For every pollutant you list, briefly describe the reasons you believe it to be present and report any analytical data in your possession.

1. Pollutant	2. Source	1. Pollutant	2. Source
NA	NA		

VIII POTENTIAL DISCHARGES NOT COVERED BY ANALYSIS

Is any pollutant listed in Item VII-C a substance or a component of a substance which you currently use or manufacture as an intermediate or final product or by-product?

☐ YES (list all such pollutants below) ☒ NO (go to IX)

IX BIOLOGICAL TOXICITY TESTING DATA

Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last 3 years?

☒ YES (identify the test(s) and describe their purposes below) ☐ NO (go to Section X)

FPL TO PROVIDE INFORMATION REGARDING BIOLOGICAL TESTING DATA WITHIN THE LAST 3 YEARS.

X CONTRACT ANALYSIS INFORMATION

Were any of the analyses reported in Item VII performed by a contract laboratory or consulting firm?

☐ YES (list the name, address, telephone number, and certification number of, and pollutants analyzed by each such laboratory or firm below) ☒ NO (go to Section XI)

A. Name	B. Address	C. Telephone (area code & no.)	D. Pollutants Analyzed (list)

Facility I.D. Number: FL0001503

XI CONNECTION TO REGIONAL POTW

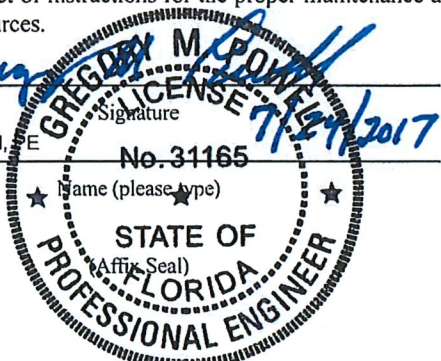
A. Indicate the relationship between this project and area regional planning for wastewater treatment. List steps to be taken for this industrial wastewater facility to become part of an area-wide wastewater treatment system.

The existing facility discharges domestic wastewater to the City of Hollywood Sanitary System and the DBCEC will continue this practice.

XII-A CERTIFICATIONS FOR NEW OR MODIFIED FACILITIES

This is to certify the engineering features of this pollution control project have been ^{examined¹} ~~designed~~ by me and found to be in conformity with sound engineering principles, applicable to the treatment and disposal of pollutants characterized in the permit application. There is reasonable assurance, in my professional judgment, that the pollution control facilities, when properly maintained and operated, will discharge an effluent that complies with all applicable statutes of the State of Florida and the rules of the Department. It is also agreed that the undersigned, if authorized by the owner, will furnish the applicant a set of instructions for the proper maintenance and operation of the pollution control facilities and, if applicable, pollution sources.


Gregory M. Powell, P.E.



Golder Associates Inc.

Company Name

Address

9428 Baymeadows Road, Suite 400

Jacksonville, FL 32256

Florida Registration No.: 31165

Telephone No.: 904-363-3430

Date

7/24/2017

¹ The design for Dania Beach Energy Center has not been finalized.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Tony Berros, PGD Plant General Manager

Name & Official Title (Please type or print)

(954) 797-1582

Telephone No. (area code & No.)


Signature

7/25/17
Date Signed

XII-B CERTIFICATIONS FOR PERMIT RENEWALS

This is to certify the engineering features of this pollution control project have been examined by me and found to be in conformity with sound engineering principles, applicable to the treatment and disposal of pollutants characterized in the permit application. There is reasonable assurance, in my professional judgment, that the pollution control facilities, when properly maintained and operated, will discharge an effluent that complies with all applicable statutes of the State of Florida and the rules of the Department.

_____ Signature	_____ Company Name
_____ Name (please type)	_____ Address
_____ (Affix Seal)	_____ Florida Registration No.:
	_____ Telephone No.:
	_____ Date

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

_____ Name & Official Title (Please type or print)	_____ Signature
_____ Telephone No. (area code & No.)	_____ Date Signed

PLEASE PRINT OR TYPE ONLY: You may report some or all of this information on separate sheets instead of completing these pages. Use the same format. SEE INSTRUCTIONS.

VII. INTAKE AND EFFLUENT CHARACTERISTICS

PART A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

1. Pollutant	2. Effluent							3. Units		4. Intake (optional)		
	a. Max. Daily Value		b. Max. 30-day Value		c. Annual Avg. Value		d. No. of Analyses	a. Concentration	b. Mass	a. Long Term Avg. Value		b. No. of Analyses
	(1) Conc.	(2) Mass	(1) Conc.	(2) Mass	(1) Conc.	(2) Mass				(1) Conc.	(2) Mass	
a. Carbonaceous Biochemical Oxygen Demand (CBOD)												
b. Chemical Oxygen Demand (COD)												
c. Total Organic Carbon (TOC)												
d. Total Suspended Solids (TSS)												
e. Total Nitrogen (as N)												
f. Total Phosphorus (as P)												
g. Ammonia (as N)												
h. Flow - actual or projected	Value		Value		Value					Value		
i. Flow - design	Value		Value		Value					Value		
j. Specific Conductivity	Value		Value		Value					Value		
k. Temperature (winter)	Value		Value		Value			°C		Value		
l. Temperature (summer)	Value		Value		Value			°C		Value		
m. pH	Min.	Max	Min.	Max.				STANDARD UNITS				

PART B - Mark "X" in column 2a for each pollutant you know or have reason to believe is present. Mark "X" in column 2b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

1. Pollutant and CAS No. (if available)	2. Mark "X"		3. Effluent						4. Units		5. Intake (optional)			
	a. believed present	b. believed absent	a. Maximum Daily Value		b. Max. 30-day Value (if available)		c. Long Term Avg. Value (if available)		d. No. of Analyses	a. Conc.	b. Mass	a. Long Term Avg. Value		b. No. of Analyses
			(1) Conc...	(2) Mass	(1) Conc.	(2) Mass	(1) Conc.	(2) Mass				(1) Conc.	(2) Mass	
a. Bromide (24949-67-9)	☐	☒												
b. Chlorine, Total Residual	☐	☒												
c. Color	☐	☒												
d. Fecal Coliform	☐	☒												
e. Fluoride (16984-48-8)	☐	☒												
f. Nitrate-Nitrite (as N)	☐	☒												

: Item VII-B Contd.

Facility ID. Number FL0001503 Outfall No. D-001

1. Pollutant and CAS No. (if available)	2. Mark "X"		3. Effluent						4. Units		5. Intake (optional)			
	a. believed present	b. believed absent	a. Maximum Daily Value		b. Max. 30-day Value (if available)		c. Long Term Avg. Value (if available)		d. No. of Analyses	a. Conc.	b. Mass	a. Long Term Avg. Value		b. No. of Analyses
			(1) Conc.	(2) Mass	(1) Conc.	(2) Mass	(1) Conc.	(2) Mass				(1) Conc.	(2) Mass	
g. Nitrogen, Total Organic (as N)	☒	☐												
h. Oil and grease	☒	☐												
i. Phosphorus, Total (as P) (7723-14-0)	☒	☐												
j. Radioactivity														
(1) Alpha, Total	☐	☒												
(2) Beta, Total	☐	☒												
(3) Radium, Total	☐	☒												
(4) Radium 226, Total	☐	☒												
k. Sulfate (as SO ₄) (14808-79-8)	☐	☒												
l. Sulfide (as S)	☐	☒												
m. Sulfite (as SO ₃) (14265-45-3)	☐	☒												
n. Surfactants	☐	☒												
o. Aluminum, Total (7429-90-5)	☐	☒												
p. Barium, Total (7440-39-3)	☐	☒												
q. Boron, Total (7440-42-8)	☐	☒												
r. Cobalt, Total (7440-48-4)	☐	☒												
s. Iron, Total (7439-89-6)	☐	☒												
t. Magnesium, Total (7439-95-4)	☐	☒												
u. Molybdenum, Total (7439-98-7)	☐	☒												
v. Manganese, Total (7439-96-5)	☐	☒												
w. Tin, Total (7440-31-5)	☐	☒												
x. Titanium, Total (7440-32-6)	☐	☒												

Facility ID. Number: FL0001503 Outfall No. D-001

PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2a for all GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2a (secondary industries, non-process wastewater outfalls, and non-required GC/MS fractions), mark "X" in column 2b for each pollutant you know or have reason to believe is present. Mark "X" in column 2c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4-dinitrophenol, or 2-methyl-4,6-dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table (all 7 pages) for each outfall. See instructions for additional details and requirements.

1. Pollutant and CAS No. (if available)	2. Mark "X"			3. Effluent						4. Units		5. Intake (optional)			
	a. testing required	b. believed present	c. believed absent	a. Maximum Daily Value		b. Max. 30-day Value (if available)		c. Long Term Avg. Value (if available)		d. No. of Analyses	a. Conc.	b. Mass	a. Long Term Avg. Value		b. No. of Analyses
				(1) Conc.	(2) Mass	(1) Conc.	(2) Mass	(1) Conc.	(2) Mass				(1) Conc.	(2) Mass	
METALS, CYANIDE, AND TOTAL PHENOLS															
1M. Antimony, Total (7440-36-0)	☒	☐	☒												
2M. Arsenic, Total (7723-14-0)	☒	☐	☒												
3M. Beryllium, Total (7440-41-7)	☒	☐	☒												
4M. Cadmium, Total (7440-43-9)	☒	☐	☒												
5M. Chromium, Total (7440-47-3)	☒	☐	☒												
6M. Copper, Total (7440-50-8)	☒	☒	☐												
7M. Lead, Total (7439-92-1)	☒	☐	☒												
8M. Mercury, Total (7439-97-6)	☒	☐	☒												
9M. Nickel, Total (7440-02-0)	☒	☐	☒												
10M. Selenium, Total (7782-49-2)	☒	☐	☒												
11M. Silver, Total (7440-22-4)	☒	☐	☒												
12M. Thallium, Total (7440-28-0)	☒	☐	☒												
13M. Zinc, Total (7440-66-6)	☒	☐	☒												
14M. Cyanide, Total (57-12-5)	☒	☐	☒												
15M. Phenols, Total	☒	☐	☒												
DIOXIN															
2,3,7,8-Tetra-chlorodibenzo-P-Dioxin (1764-01-6)	☐	☐	☒												
GC/MS FRACTION -VOLATILE COMPOUNDS															
1V. Acrolein (107-02-8)	☒	☐	☒												
2V. Acrylonitrile (107-13-1)	☒	☐	☒												

Facility ID. Number: FL0001503 Outfall No. D-001

1. Pollutant and CAS No. (if available)	2. Mark "X"			3. Effluent						4. Units		5. Intake (optional)			
	a. testing required	b. believed present	c. believed absent	a. Maximum Daily Value		b. Max. 30-day Value (if available)		c. Long Term Avg. Value (if available)		d. No. of Analyses	a. Conc.	b. Mass	a. Long Term Avg. Value		b. No. of Analyses
				(1) Conc.	(2) Mass	(1) Conc.	(2) Mass	(1) Conc.	(2) Mass				(1) Conc.	(2) Mass	
GC/MS FRACTION - VOLATILE COMPOUNDS (continued)															
3V. Benzene (71-43-2)	☒	☐	☒												
4V. Bis (Chloromethyl) Ether (542-88-1)	☒	☐	☒												
5V. Bromoform (75-25-2)	☒	☐	☒												
6V. Carbon Tetrachloride (56-23-5)	☒	☐	☒												
7V. Chlorobenzene (108-90-7)	☒	☐	☒												
8V. Chlorodi-bromomethane (124-8-1)	☒	☐	☒												
9V. Chloroethane (74-00-3)	☒	☐	☒												
10V. 2-Chloro-ethylvinyl Ether (110-75-8)	☒	☐	☒												
11V. Chloroform (67-86-3)	☒	☐	☒												
12V. Dichloro-bromomethane (75-24-4)	☒	☐	☒												
13V. Dichloro-difluoromethane (75-71-8)	☒	☐	☒												
14V. 1,1-Dichloroethane (75-34-3)	☒	☐	☒												
15V. 1,2-Dichloroethane (107-06-2)	☒	☐	☒												
16V. 1,1-Dichloroethylene (75-35-4)	☒	☐	☒												
17V. 1,2,-Dichloropropane (78-87-5)	☒	☐	☒												
18V. 1,3-Dichloropropylene (542-75-6)	☒	☐	☒												
19V. Ethylbenzene (100-41-4)	☒	☐	☒												
20V. Methyl Bromide (74-83-9)	☒	☐	☒												
21V. Methyl Chloride (74-87-3)	☒	☐	☒												
22V. Methylene Chloride (74-98-2)	☒	☐	☒												
23V. 1,1,2,2-Tetra-chloroethane (79-34-5)	☒	☐	☒												
24V. Tetrachloroethylene (127-18-4)	☒	☐	☒												

Facility ID. Number: FL0001503 Outfall No. D-001

1. Pollutant and CAS No. (if available)	2. Mark "X"			3. Effluent						4. Units		5. Intake (optional)			
	a. testing required	b. believed present	c. believed absent	a. Maximum Daily Value		b. Max. 30-day Value (if available)		c. Long Term Avg. Value (if available)		d. No. of Analyses	a. Conc.	b. Mass	a. Long Term Avg. Value		b. No. of Analyses
				(1) Conc.	(2) Mass	(1) Conc.	(2) Mass	(1) Conc.	(2) Mass				(1) Conc.	(2) Mass	
GC/MS FRACTION - VOLATILE COMPOUNDS (continued)															
25V. Toluene (108-88-3)	☒	☐	☒												
26V. 1,2-Trans-Dichloroethylene (156-60-5)	☒	☐	☒												
27V. 1,1,2-Trichloroethane (71-55-6)	☒	☐	☒												
28V. 1,1,2-Trichloroethane (79-00-5)	☒	☐	☒												
29V. Trichloroethylene (79-01-6)	☒	☐	☒												
30V. Trichloro-fluoromethane (75-69-4)	☒	☐	☒												
31V. Vinyl Chloride (75-01-4)	☒	☐	☒												
GC/MS FRACTION - ACID COMPOUNDS															
1A. 2-Chlorophenol (95-57-8)	☒	☐	☒												
2A. 2,4-Dichlorophenol (120-83-2)	☒	☐	☒												
3A. 2,4-Dimethylphenol (105-67-9)	☒	☐	☒												
4A. 4,6-Dinitro-O-Cresol (534-53-1)	☒	☐	☒												
5A. 2,4-Dinitrophenol (51-28-5)	☒	☐	☒												
6A. 2-Nitrophenol (88-75-5)	☒	☐	☒												
7A. 4-Nitrophenol (100-02-7)	☒	☐	☒												
8A P-Chloro-M-Cresol (59-50-7)	☒	☐	☒												
9A Pentachlorophenol (87-86-5)	☒	☐	☒												
10A Phenol (108-95-2)	☒	☐	☒												
11A 2,4,5-Trichloro-phenol (88-06-2)	☒	☐	☒												
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS															
1B. Acenaphthene (63-32-9)	☒	☐	☒												
2B. Acenaphthylene (208-96-8)	☒	☐	☒												
3B. Anthracene (120-12-7)	☒	☐	☒												
4B. Benzidine (92-87-5)	☒	☐	☒												

Facility ID. Number: FL0001503 Outfall No. D-001

1. Pollutant and CAS No. (if available)	2. Mark "X"			3. Effluent						4. Units		5. Intake (optional)			
	a. testing required	b. believed present	c. believed absent	a. Maximum Daily Value		b. Max. 30-day Value (if available)		c. Long Term Avg. Value (if available)		d. No. of Analyses	a. Conc.	b. Mass	a. Long Term Avg. Value		b. No. of Analyses
				(1) Conc.	(2) Mass	(1) Conc.	(2) Mass	(1) Conc.	(2) Mass				(1) Conc.	(2) Mass	
5B. Benzo (a) Anthracene (56-55-3)	☒	☐	☒												
6B. Benzo (a) Pyrene (50-32-8)	☒	☐	☒												
7B. 3,4-Benzo-fluoranthene (205-99-2)	☒	☐	☒												
8B. Benzo (ghi) Perylene (191-24-2)	☒	☐	☒												
9B. Benzo (k) Fluoranthene (207-08-9)	☒	☐	☒												
10B. Bis (2-Chloroethoxy) Methane (111-91-1)	☒	☐	☒												
11B. Bis (2-chloroethyl) Ether (111-44-4)	☒	☐	☒												
12B. Bis (2-Chloroisopropyl) Ether (102-60-1)	☒	☐	☒												
13B. Bis (2-Ethylhexyl) Phthalate (117-81-7)	☒	☐	☒												
14B. 4-Bromophenyl Phenyl Ether (101-55-3)	☒	☐	☒												
15B Butyl Benzyl Phthalate (84-68-7)	☒	☐	☒												
16B. 2-Chloronaphthalene (91-58-7)	☒	☐	☒												
17B. 4-Chlorophenyl Phenyl Ether (7005-72-3)	☒	☐	☒												
18B. Chrysene (218-01-9)	☒	☐	☒												
19B. Dibenzo (a,h) Anthracene (53-70-3)	☒	☐	☒												
20B. 1,2-Dichlorobenzene (95-50-1)	☒	☐	☒												
21B. 1,3-Dichlorobenzene (541-73-1)	☒	☐	☒												
22B. 1,4-Dichlorobenzene (106-46-7)	☒	☐	☒												
23B. 3,3'-Dichlorobenzidine (92-94-1)	☒	☐	☒												
24B. Diethyl Phthalate (84-66-2)	☒	☐	☒												
25B. Dimethyl Phthalate (131-11-3)	☒	☐	☒												
26B. Di-N-Butyl Phthalate (84-74-2)	☒	☐	☒												
27B. 2,4-Dinitrotoluene (121-14-2)	☒	☐	☒												
28B. 2,6-Dinitrotoluene (606-20-2)	☒	☐	☒												

1. Pollutant and CAS No. (if available)	2. Mark "X"			3. Effluent						4. Units		5. Intake (optional)			
	a. testing required	b. believed present	c. believed absent	a. Maximum Daily Value		b. Max. 30-day Value (if available)		c. Long Term Avg. Value (if available)		d. No. of Analyses	a. Conc.	b. Mass	a. Long Term Avg. Value		b. No. of Analyses
				(1) Conc.	(2) Mass	(1) Conc.	(2) Mass	(1) Conc.	(2) Mass				(1) Conc.	(2) Mass	
29B. Di-N-Octyl Phthalate (117-84-0)	☒	☐	☒												
30B. 1,2-Diphenylhydrazine (as Azobenzene) (122-66-7)	☒	☐	☒												
31B. Fluoranthene (206-44-0)	☒	☐	☒												
32B. Fluorene (86-73-7)	☒	☐	☒												
33B. Hexachlorobenzene (118-74-1)	☒	☐	☒												
34B. Hexachlorobutadiene (87-68-3)	☒	☐	☒												
35B. Hexachlorocyclopentadiene (77-47-4)	☒	☐	☒												
36B. Hexachloroethane (67-72-1)	☒	☐	☒												
37B. Indeno (1,2,3-cd) Pyrene (193-39-5)	☒	☐	☒												
38B. Isophorone (78-59-1)	☒	☐	☒												
39B. Naphthalene (91-20-3)	☒	☐	☒												
40B. Nitrobenzene (98-95-9)	☒	☐	☒												
41B N-Nitrosodimethylamine (62-75-9)	☒	☐	☒												
42B. N-Nitrosodi-N-Propylamine (621-64-7)	☒	☐	☒												
43B. N-Nitro-sodiphenylamine (86-30-6)	☒	☐	☒												
44B Phenanthrene (85-01-8)	☒	☐	☒												
45B. Pyrene (129-00-0)	☒	☐	☒												
46B. 1,2,4-Trichlorobenzene (120-82-1)	☒	☐	☒												
GC/MS FRACTION - PESTICIDES															
1P. Aldrin (309-00-2)	☐	☐	☒												
2P. -BHC (319-84-6)	☐	☐	☒												
3P -BHC (319-85-7)	☐	☐	☒												
4P. -BHC (58-89-9)	☐	☐	☒												
5P. -BHC (319-86-8)	☐	☐	☒												

Facility ID. Number: FL0001503 Outfall No. D-001

1. Pollutant and CAS No. (if available)	2. Mark "X"			3. Effluent						4. Units		5. Intake (optional)			
	a . testing required	b. be- lieved present	c. be- lieved absent	a. Maximum Daily Value		b. Max. 30-day Value (if available)		c. Long Term Avg. Value (if available)		d. No. of Analyses	a. Conc.	b. Mass	a. Long Term Avg. Value		b. No. of Analyses
				(1) Conc.	(2) Mass	(1) Conc.	(2) Mass	(1) Conc.	(2) Mass				(1) Conc.	(2) Mass	
6P. Chlordane (57-74-9)	☐	☐	☒												
7P. 4,4'-DDT (50-29-3)	☐	☐	☒												
8P. 4,4'-DDE (72-55-9)	☐	☐	☒												
9P. 4,4'-DDD (72-54-8)	☐	☐	☒												
10P. Dieldrin (60-57-1)	☐	☐	☒												
11P. -Endosulfan (115-29-7)	☐	☐	☒												
12P. -Endosulfan (115-29-7)	☐	☐	☒												
13P. Endosulfan Sulfate (1031-07-8)	☐	☐	☒												
14P. Endrin (72-20-8)	☐	☐	☒												
15P. Endrin Aldehyde (7421-92-4)	☐	☐	☒												
16P. Heptachlor (76-44-8)	☐	☐	☒												
17P. Heptachlor Epoxide (1024-57-3)	☐	☐	☒												
18P. PCB-1242 (53469-21-9)	☐	☐	☒												
19P. PCB-1254 (11097-69-1)	☐	☐	☒												
20P. PCB-1221 (11104-28-2)	☐	☐	☒												
21P. PCB-1232 (11141-16-5)	☐	☐	☒												
22P. PCB-1248 (12672-29-6)	☐	☐	☒												
23P. PCB-1260 (11096-82-5)	☐	☐	☒												
24P. PCB-1016 (12674-11-2)	☐	☐	☒												
25P. Toxaphene (8001-35-2)	☐	☐	☒												

FORM 2CS

ATTACHMENT 1

ADDITIONAL INFORMATION

Form 2CS Attachment 1

Florida Power & Light Company – Lauderdale Plant

I. OUTFALL LOCATIONS (Continued from Form 2CS)

A. Outfall No. (List)	B. Latitude			C. Longitude			D. Name of Receiving Water
	Deg.	Min.	Sec.	Deg.	Min.	Sec.	
I-011	26	04	09	80	11	56	Internal to Cooling Pond
I-016	26	04	09	80	11	56	Internal to Cooling Pond
I-012	26	04	09	80	11	56	Internal to Cooling Pond
I-015	26	04	09	80	11	56	Internal to Cooling Pond
I-01E	26	04	09	80	11	56	Internal to Cooling Pond

(Process outfalls only; stormwater outfalls are listed on Form 2F).

II: OUTFALL DESIGN (Continued from Form 2CS)

Note 1: Materials of construction, diameters, invert elevations and depths are not available at this phase of design. The abbreviated outfall description is provided for convenience in column B (See Form 1 Attachment 1 for detailed description of outfalls).

A. Outfall No. (List Cont.)	B. Design Configuration and Construction Materials (See Note 1, below)	C. Distance from shore	D. Diameter	E. Elevation of Discharge Invert (MSL)	F. Receiving Water Depth at POD (MSL)
I-011	Cooling Water Return	0	TBD Note 1	TBD Note 1	TBD Note 1
I-016	Non-recoverable Blowdown and Process Drains	0	TBD Note 1	TBD Note 1	TBD Note 1
I-012	Water Treatment System Wastewater	0	TBD Note 1	TBD Note 1	TBD Note 1
I-015	Construction water, maintenance & Chemical/metal cleaning drains & rinse water	0	TBD Note 1	TBD Note 1	TBD Note 1
I-01E	Water Treatment System Reject Water	0	TBD Note 1	TBD Note 1	TBD Note 1

(Process outfalls only; stormwater outfalls are listed on Form 2F)

III: Receiving Water Information

E: Systems are tidal. 7 day/10 year not available.

F: Effluents released from each outfall to the discharge canal flow east into the cooling pond and then flow generally northeast toward the point of discharge (see the location map Form 1 Attachment 3). The POD (Outfall D-001) is a culvert at the downstream end of the cooling pond system (Latitude 26° 05' 09"N, Longitude 80° 10' 55" W). The flow then enters the South Fork New River (WBID 3277A) Class III Marine water.

Effluents released to the Dania Cutoff Canal (WBID 3277E, Class III Marine water) may flow back to the intake, or may flow east toward the Intracoastal Waterway depending on the rate of fresh water release from the regional canal system and local rainfall.

Stormwater from Unit 6 and the Gas Turbine (GT) Park area is treated in a dry detention pond. Discharges from the pond flow into a wetland, which eventually enters the South New River Canal.

G: No mixing zone is requested under 62-4.244, F.A.C.

IV: Flows, Sources of Pollution, and Treatment Technologies

A: The location map (Form 1 Attachment 3) shows the intake locations, the discharge canal, the cooling pond, the POD to the South Fork New River and the general flow patterns around the facility. .

B: Identification of Major Plant Processes and Associated Waste streams.

The water balance diagram (Form 1 Attachment 4) shows the plant processes and the flow through Unit 7. Major plant processes that generate wastewater that is discharged to surface waters are shown in the water balance diagram, along with the outfall designation numbers. The industrial processes (except internal stormwater outfalls, which are provided in Form 2F) are summarized in Table IVB and discussed below:

Cooling Water System

While the facility modification will provide approximately 25 percent more power, the permit modification does not propose a new or an expanded surface water discharge. To accomplish this, the DBEC (Unit 7) cooling system will use a hybrid design -- once-through steam cycle cooling, with an auxiliary cooling system that is designed to evaporate between 0.5 percent and 1.0 percent of the once-through cooling water flow and the existing cooling pond to dissipate heat. Plant cooling water is obtained from the Dania Cutoff Canal (Class I I I-Marine). The cooling water and other wastewaters are discharged to the cooling pond through internal outfall I-011. After passing through the cooling pond, the water is discharged to the South Fork New River through outfall D-001.

Circulating water pump bearings are lubricated by small amounts of plant service water that is discharged to the plant's intake (D-009A and D-009B).

Point of Discharge (POD): D-001

Various effluents as noted in Item IV B (Table) of this application discharge to the plant's discharge canal, which goes into an open cooling canal/pond system. After passage through the cooling canal/pond the water passes under State Road 84 and eventually discharges into the South Fork of the New River (D-001 POD/ Class III Marine) northeast of the plant.

Intake Screen Wash and Strainer Backwash Water: D-009A and D-009B

Water from the Dania Cutoff Canal passes directly through the intake canal and flows into the plant's intake structure. The intake structure is divided in the center by a concrete wall that forms 2 separate pump bays. The intake screens, consisting of bar (coarse) screens and traveling screens and a floating trash boom, act to minimize carry over of debris. The bar screens are furnished with a trash rake to clean off collected debris. Screen wash water and screen debris flow together through intake structure troughs which discharge into a trash bucket. The trash bucket traps the

debris and allows the water to return to the canal (D-009A and D-009B). Debris is disposed of at an off-site landfill.

Heat Recovery Steam Generator (HRSG) Blowdown:

High purity water generated by the plant's water treatment system is used for make-up to the HRSG's water/steam cycle. To assure maximum protection of internal surfaces in the HRSG and steam turbine a strict chemical control program is utilized.

In order to maintain optimal HRSG water chemistry, HRSG water is "blown down". Blowdown, originating from the steam drum, is routed to a flash tank where much of the water flashes to steam. If recoverable, the effluent is routed to the service water tank for reuse in plant processes or to the plant's cooling water system. If non-recoverable, the effluent (I-016) is routed to the cooling water return (I-011) and released to the cooling pond.

During periods of cold stand-by of the HRSG, hydrazine or another oxygen scavenger may be utilized to control corrosion of the internal HRSG tube surfaces. Typically, when a unit is needed it will be brought from cold stand-by to hot stand-by status. During certain operating conditions and maintenance activities or during periods of HRSG hot stand-by, the HRSG may be drained to the discharge canal. Any hydrazine in the blowdown would be rapidly oxidized upon contact with air and/or water.

Water Treatment System Waste Streams: I-01E & I-012

The water treatment system provides treated water for combustion turbine steam injection, HRSG makeup, and HRSG chemical cleaning. The system treats the source water through mixed media made up of sand for removal of any suspended solids. Cartridge filters using composite 3-5 micron filters are used for further solids removal. After the filters, the water is pH adjusted (lowered to approximately 6.3). Flow then continues to the high-pressure treatment system for removal of dissolved solids. After undergoing treatment, the water is passed through a de-gassifier to remove CO₂ and polished before going to the water storage tank. The water from the storage tank can either recirculate back to the water treatment system or can be discharged to the discharge canal.

Service water for fire protection, HRSG blowdown quench and evaporative coolers, comes directly from the Broward County raw water supply.

The following waste streams are generated from the process water treatment system:

- Reject Water (I-01E)
- Water Treatment System Wastewater (I-012)

The reject water can be reused by releasing it to the intake side of the cooling system (I-01E). The waste water is neutralized with acid or caustic in a Totally Enclosed Treatment Facility (TETF) prior to discharge at I-012.

Oil/Water Separators for Equipment Area Stormwater and Plant Drains: 1-013A, I-013B and I-013C

Potential oily wastewater streams (e.g. runoff from transformer, oily equipment in the power block and fuel oil storage areas) generated in the plant are discharged to oily wastewater treatment systems. Physical separators are used to remove free oils and grease from the oily waste stream. An oil reservoir accumulates the separated oil before it is removed to an onsite storage tank and properly disposed.

Three oil/water separators will be used at DBEC. The first serves the existing facility, including the oil storage tank containment areas east of DBEC. The second will process equipment contact stormwater from the DBEC power block. The third will treat plant drains and process blowdown. The first two will route effluent, after treatment (I-013A and I-103B), to the discharge canal or to Unit 7 Pond 1. The third will route effluent (I-013C) to the cool water return or to Unit 7 Pond 1.

Construction, Maintenance and Chemical/Metal Cleaning Drains and Rinse Waters: (I-015)

Construction water (including dewatering effluent and hydrostatic test water), maintenance and chemical metal cleaning drains and rinse water will be collected, treated if required, and released to the discharge canal. The metal cleaning rinse waters are produced from HRSG waterside cleaning to remove corrosion products and scale. The cleaning process is required on an infrequent basis, in order for each unit to maintain normal operating performance. The cleaning solution that is used is CITRO-SOLV, EDTA, or an equivalent product.

The effluent system, treated as necessary, is discharged to the discharge canal via 1-015. The cleaning solution, if hazardous, is captured by the chemical cleaning contractor and properly disposed off-site.

C: The frequency, flow rate, volumes and durations for the intermittent flows are not available at this stage in the design process.

D: Practices to Ensure Wastewater Treatment during Power Loss or Equipment Failures

Many of the components of the treatment system are "passive" in nature and thus not impacted by power failures. Exceptions are the various pumps that serve the systems. In many instances, however, dual pumps on separate power sources are used for system redundancy, especially for high volume wastewater systems. In addition, the plant has a production department that facilitates the maintenance and repairs of the systems.

The chance of a loss of power to the various systems is very remote because they are supplied by power from the plant's auxiliary system, which can be powered by either the plant's turbine generators or the FPL off-site transmission network. In addition, the plant's auxiliary system consists of multiple Motor Control Centers (MCCs), switchgear and load centers that provide cross connection capabilities. The plant also has on-site gas turbines that can serve as an independent power source to operate vital equipment should a power outage occur.

E: Locations and methods of flow measurement will be determined during final design.

VII: A: Applicable Effluent Guideline limitations (Steam Electric Power Generating)

The effluent pH must be within range 6.0 to 9.0 for all discharges, except once through cooling water.

No discharge of polychlorinated biphenyl compounds.

Once through cooling water: Free Available Chlorine 0.5 mg/l max.; average 0.2 mg/l.

Low Volume waste: TSS 100 mg/l max day; 30 mg/l average (30 day).

Oil and grease: 20.0 mg/l max day; 15.0 mg/l average (30 day).

Metal cleaning waste: Same as low volume waste plus...

Copper, total: 1.0 mg/l max day; 1.0 average (30 day) and

Iron, total: 1.0 mg/l max. day; 1.0 average (30 day).

Tables VII A, B and C

DBEC (Unit 7) has not been constructed; therefore, data cannot be collected. If necessary, data for proposed DBEC (Unit 7) process outfalls can be provided after the facility is constructed and operational. All proposed discharges from DBEC (Unit 7) will meet current effluent guideline limitations and current IWW/NPDES permit limitations.

Tables A, B and C for outfall D-001 are based on historical data and process knowledge. Constituents may be present in the source water (Dania Cutoff canal), but if the constituent is not discharged by the facility, it is marked in Table VII-B and C as “believed absent”, unless DMR monitoring data shows otherwise. Recent DMR monitoring data for the existing facility is provided in an excel spreadsheet in Form 2CS Attachment 2. Total nitrogen, total phosphorus and oil and grease are marked as “believed present” based on process knowledge and the likelihood that these constituents are present in the source water (Dania Cutoff canal).

Copper is marked as “believed present” because monitoring data shows that this constituent is found in the source water at the intake. To date, data has provided no statistically significant indication that the facility is increasing copper concentrations in the effluent.

Stormwater outfalls are designed as dry detention ponds. Consequently they discharge only infrequently. The stormwater system is managed using a Stormwater Pollution Prevention Plan (SWPPP), including periodic visual inspections of the ponds and outflow structures and maintenance, as necessary. The DBEC stormwater outfalls are discussed in further in Form 2F.

FORM 2CS

ATTACHMENT 2

DMR MONITORING DATA

Florida Department of Environmental Protection
Wastewater Facility Regulation - Discharge Monitoring Reports
Monitoring Data Download Report

Facility Id: **FL0001503**

Monitoring Group:

for 06/01/2015 to 06/21/2017

Report Generated from DOPPLER -

FLDEP on 6/21/2017

Facility ID	Facility Name	Office	Type	County	Group	Date	Location	Code	NOD	Parameter	Description	Qualifier	Result	Limit	Units	Statistical Base	Exceedance
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	4/30/2017	EFF-3	Y		P 50050	Flow		260	380.0	MGD	AB - Annual Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	4/30/2017	EFF-3	1		P 50050	Flow		311	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	4/30/2017	EFF-3	1		P 50050	Flow		363	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	4/30/2017	EFF-3	P		P 00011	Temperature (F), Water		87.7	99.0	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	4/30/2017	EFF-3	P		P 00011	Temperature (F), Water		83.1	96.0	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	4/30/2017	EFF-3	1		P 70295	Solids, Total Dissolved (TDS)		MNR	Report	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	4/30/2017	EFF-3	1		P 70295	Solids, Total Dissolved (TDS)		MNR	Report	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	4/30/2017	EFF-3	1		P 00400	pH		MNR	8.5	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	4/30/2017	EFF-3	1		P 00400	pH		MNR	6.5	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	4/30/2017	EFF-3	P		P TRP3E	IC25 Statre 7day Chr Mysid Bahia	>	100	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	4/30/2017	EFF-3	Q		P TRP3E	IC25 Statre 7day Chr Mysid Bahia		MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	4/30/2017	EFF-3	R		P TRP3E	IC25 Statre 7day Chr Mysid Bahia		MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	4/30/2017	EFF-3	P		P TRP6B	IC25 Statre 7day Chr Mendia	>	100	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	4/30/2017	EFF-3	Q		P TRP6B	IC25 Statre 7day Chr Mendia		MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	4/30/2017	EFF-3	R		P TRP6B	IC25 Statre 7day Chr Mendia		MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-0B1	4/30/2017	EFF-8	1		P 00400	pH		NOD	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-0B1	4/30/2017	EFF-8	1		P 00400	pH		NOD	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	4/30/2017	EFF-12	1		P 50050	Flow		0.06	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	4/30/2017	EFF-12	1		P 50050	Flow		0.04	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	4/30/2017	EFF-12	1		P 00556	Oil and Grease		MNR	15.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	4/30/2017	EFF-12	1		P 00556	Oil and Grease		MNR	20.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	4/30/2017	EFF-12	1		P 00530	Solids, Total Suspended		MNR	100.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	4/30/2017	EFF-12	1		P 00530	Solids, Total Suspended		MNR	30.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	4/30/2017	EFF-12	1		P 00400	pH		MNR	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	4/30/2017	EFF-12	1		P 00400	pH		MNR	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	4/30/2017	EFF-13	1		P 50050	Flow		0.64	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	4/30/2017	EFF-13	1		P 50050	Flow		1.5	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	4/30/2017	EFF-13	1		P 00400	pH		7.3	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	4/30/2017	EFF-13	1		P 00400	pH		7.3	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	4/30/2017	EFF-14	1		P 82220	Flow, Total Volume		NOD	Report	Mgal/mth	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	4/30/2017	EFF-14	1		P 82220	Flow, Total Volume		NOD	Report	Mgal/mth	MP - Monthly Total	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	4/30/2017	EFF-14	1		P 01119	Copper, Total Recoverable		NOD	1.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	4/30/2017	EFF-14	1		P 00980	Iron, Total Recoverable		NOD	1.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	4/30/2017	EFF-14	1		P 00556	Oil and Grease		NOD	15.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	4/30/2017	EFF-14	1		P 00530	Solids, Total Suspended		NOD	30.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	4/30/2017	EFF-7	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	4/30/2017	EFF-7	1		P 00556	Oil and Grease		NOD	Report	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	4/30/2017	EFF-7	1		P 00530	Solids, Total Suspended		NOD	50.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	4/30/2017	EFF-7	1		P 00070	Turbidity		NOD	Report	NTU	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	4/30/2017	EFF-7	1		P 00400	pH		NOD	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	4/30/2017	EFF-7	1		P 00400	pH		NOD	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	4/30/2017	EFF-11	1		P 50050	Flow		0.52	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	4/30/2017	EFF-11	1		P 50050	Flow		0.31	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	4/30/2017	EFF-11	Y		P 00530	Solids, Total Suspended		MNR	30.0	mg/L	AB - Annual Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	4/30/2017	EFF-11	1		P 00530	Solids, Total Suspended		MNR	100.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	4/30/2017	INT-1	7		P 50050	Flow		130	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	4/30/2017	INT-1	7		P 50050	Flow		182	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	4/30/2017	EFF-1	1		P 00011	Temperature (F), Water		98	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	4/30/2017	EFF-1	1		P 00011	Temperature (F), Water		85	Report	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	4/30/2017	INT-1	7		P 00011	Temperature (F), Water		80.9	Report	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	4/30/2017	INT-1	7		P 00011	Temperature (F), Water		89.8	Report	Deg F	DD - Daily Maximum	

FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	4/30/2017	EFF-1	1		P 61576	Temp. Diff. between Intake and Discharge		12.6	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	4/30/2017	EFF-1	1		P 61576	Temp. Diff. between Intake and Discharge		4.2	13.2	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	4/30/2017	EFF-1	1		P 34044	Oxidants, Total Residual		MNR	0.2	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	4/30/2017	EFF-1	1		P 34044	Oxidants, Total Residual		MNR	0.2	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	4/30/2017	INT-3	7		P 78739	Chlorination Duration		0	1440.0	min	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	4/30/2017	INT-5	P		P 78739	Chlorination Duration		0	120.0	min	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	4/30/2017	EFF-4	1		P 00400	pH		7.4	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	4/30/2017	EFF-4	1		P 00400	pH		7.1	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	4/30/2017	INT-2	7		P 50050	Flow		181	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	4/30/2017	INT-2	7		P 50050	Flow		181	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	4/30/2017	EFF-2	1		P 00011	Temperature (F), Water		85.1	Report	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	4/30/2017	EFF-2	1		P 00011	Temperature (F), Water		97	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	4/30/2017	INT-2	7		P 00011	Temperature (F), Water		80.7	Report	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	4/30/2017	INT-2	7		P 00011	Temperature (F), Water		86	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	4/30/2017	EFF-2	1		P 61576	Temp. Diff. between Intake and Discharge		13.4	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	4/30/2017	EFF-2	1		P 61576	Temp. Diff. between Intake and Discharge		4.3	13.2	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	4/30/2017	EFF-2	1		P 34044	Oxidants, Total Residual		MNR	0.2	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	4/30/2017	EFF-2	1		P 34044	Oxidants, Total Residual		MNR	0.2	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	4/30/2017	INT-4	7		P 78739	Chlorination Duration		0	1440.0	min	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	4/30/2017	INT-6	P		P 78739	Chlorination Duration		0	120.0	min	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	4/30/2017	EFF-4	1		P 00400	pH		7.1	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	4/30/2017	EFF-4	1		P 00400	pH		7.4	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	4/30/2017	EFF-5	1		P 50050	Flow		NOD	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	4/30/2017	EFF-5	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	4/30/2017	EFF-5	1		P 00556	Oil and Grease		NOD	15.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	4/30/2017	EFF-5	1		P 00556	Oil and Grease		NOD	20.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	4/30/2017	EFF-5	1		P 00530	Solids, Total Suspended		NOD	30.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	4/30/2017	EFF-5	1		P 00530	Solids, Total Suspended		NOD	100.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	4/30/2017	EFF-6	1		P 50050	Flow		NOD	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	4/30/2017	EFF-6	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	4/30/2017	EFF-6	1		P 00556	Oil and Grease		NOD	20.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	4/30/2017	EFF-6	1		P 00556	Oil and Grease		NOD	15.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	4/30/2017	EFF-6	1		P 00530	Solids, Total Suspended		NOD	100.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	4/30/2017	EFF-6	1		P 00530	Solids, Total Suspended		NOD	30.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-182	4/30/2017	EFF-9	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-183	4/30/2017	EFF-10	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	3/31/2017	EFF-3	Y		P 50050	Flow		252	380.0	MGD	AB - Annual Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	3/31/2017	EFF-3	1		P 50050	Flow		363	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	3/31/2017	EFF-3	1		P 50050	Flow		355	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	3/31/2017	EFF-3	P		P 00011	Temperature (F), Water		84.5	99.0	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	3/31/2017	EFF-3	P		P 00011	Temperature (F), Water		79.8	96.0	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	3/31/2017	EFF-3	1		P 70295	Solids, Total Dissolved (TDS)		19500	Report	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	3/31/2017	EFF-3	1		P 70295	Solids, Total Dissolved (TDS)		19500	Report	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	3/31/2017	EFF-3	1		P 00400	pH		7.7	6.5	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	3/31/2017	EFF-3	1		P 00400	pH		7.7	8.5	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	3/31/2017	EFF-3	P		P TRP3E	IC25 Statre 7day Chr Mysid Bahia		MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	3/31/2017	EFF-3	Q		P TRP3E	IC25 Statre 7day Chr Mysid Bahia		MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	3/31/2017	EFF-3	R		P TRP3E	IC25 Statre 7day Chr Mysid Bahia		MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	3/31/2017	EFF-3	P		P TRP6B	IC25 Statre 7day Chr Mendia		MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	3/31/2017	EFF-3	Q		P TRP6B	IC25 Statre 7day Chr Mendia		MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	3/31/2017	EFF-3	R		P TRP6B	IC25 Statre 7day Chr Mendia		MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-0B1	3/31/2017	EFF-8	1		P 00400	pH		NOD	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-0B1	3/31/2017	EFF-8	1		P 00400	pH		NOD	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	3/31/2017	EFF-12	1		P 50050	Flow		0.04	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	3/31/2017	EFF-12	1		P 50050	Flow		0.06	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	3/31/2017	EFF-12	1		P 00556	Oil and Grease	<	1.2	15.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	3/31/2017	EFF-12	1		P 00556	Oil and Grease	<	1.2	20.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	3/31/2017	EFF-12	1		P 00530	Solids, Total Suspended		12	100.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	3/31/2017	EFF-12	1		P 00530	Solids, Total Suspended		12	30.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	3/31/2017	EFF-12	1		P 00400	pH		6.8	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	3/31/2017	EFF-12	1		P 00400	pH		8.3	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	3/31/2017	EFF-13	1		P 50050	Flow		0.64	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	3/31/2017	EFF-13	1		P 50050	Flow		0.83	Report	MGD	DD - Daily Maximum	

FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	3/31/2017	EFF-13	1		P 00400	pH		6.9	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	3/31/2017	EFF-13	1		P 00400	pH		6.9	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	3/31/2017	EFF-14	1		P 82220	Flow, Total Volume		NOD	Report	Mgal/mth	MP - Monthly Total	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	3/31/2017	EFF-14	1		P 82220	Flow, Total Volume		NOD	Report	Mgal/mth	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	3/31/2017	EFF-14	1		P 01119	Copper, Total Recoverable		NOD	1.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	3/31/2017	EFF-14	1		P 00980	Iron, Total Recoverable		NOD	1.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	3/31/2017	EFF-14	1		P 00556	Oil and Grease		NOD	15.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	3/31/2017	EFF-14	1		P 00530	Solids, Total Suspended		NOD	30.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	3/31/2017	EFF-7	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	3/31/2017	EFF-7	1		P 00556	Oil and Grease		NOD	Report	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	3/31/2017	EFF-7	1		P 00530	Solids, Total Suspended		NOD	50.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	3/31/2017	EFF-7	1		P 00070	Turbidity		NOD	Report	NTU	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	3/31/2017	EFF-7	1		P 00400	pH		NOD	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	3/31/2017	EFF-7	1		P 00400	pH		NOD	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	3/31/2017	EFF-11	1		P 50050	Flow		0.38	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	3/31/2017	EFF-11	1		P 50050	Flow		0.62	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	3/31/2017	EFF-11	Y		P 00530	Solids, Total Suspended		5.3	30.0	mg/L	AB - Annual Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	3/31/2017	EFF-11	1		P 00530	Solids, Total Suspended		12	100.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	3/31/2017	INT-1	7		P 50050	Flow		175	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	3/31/2017	INT-1	7		P 50050	Flow		182	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	3/31/2017	EFF-1	1		P 00011	Temperature (F), Water		84.1	Report	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	3/31/2017	EFF-1	1		P 00011	Temperature (F), Water		94.4	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	3/31/2017	INT-1	7		P 00011	Temperature (F), Water		77.2	Report	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	3/31/2017	INT-1	7		P 00011	Temperature (F), Water		82.8	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	3/31/2017	EFF-1	1		P 61576	Temp. Diff. between Intake and Discharge		13	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	3/31/2017	EFF-1	1		P 61576	Temp. Diff. between Intake and Discharge		6.8	13.2	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	3/31/2017	EFF-1	1		P 34044	Oxidants, Total Residual		MNR	0.2	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	3/31/2017	EFF-1	1		P 34044	Oxidants, Total Residual		MNR	0.2	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	3/31/2017	INT-3	7		P 78739	Chlorination Duration		0	1440.0	min	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	3/31/2017	INT-5	P		P 78739	Chlorination Duration		0	120.0	min	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	3/31/2017	EFF-4	1		P 00400	pH		7.4	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	3/31/2017	EFF-4	1		P 00400	pH		7.2	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	3/31/2017	INT-2	7		P 50050	Flow		179	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	3/31/2017	INT-2	7		P 50050	Flow		181	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	3/31/2017	EFF-2	1		P 00011	Temperature (F), Water		94.4	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	3/31/2017	EFF-2	1		P 00011	Temperature (F), Water		79.9	Report	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	3/31/2017	INT-2	7		P 00011	Temperature (F), Water		77.5	Report	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	3/31/2017	INT-2	7		P 00011	Temperature (F), Water		83.1	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	3/31/2017	EFF-2	1		P 61576	Temp. Diff. between Intake and Discharge		2.6	13.2	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	3/31/2017	EFF-2	1		P 61576	Temp. Diff. between Intake and Discharge		12.8	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	3/31/2017	EFF-2	1		P 34044	Oxidants, Total Residual		MNR	0.2	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	3/31/2017	EFF-2	1		P 34044	Oxidants, Total Residual		MNR	0.2	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	3/31/2017	INT-4	7		P 78739	Chlorination Duration		0	1440.0	min	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	3/31/2017	INT-6	P		P 78739	Chlorination Duration		0	120.0	min	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	3/31/2017	EFF-4	1		P 00400	pH		7.2	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	3/31/2017	EFF-4	1		P 00400	pH		7.4	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	3/31/2017	EFF-5	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	3/31/2017	EFF-5	1		P 50050	Flow		NOD	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	3/31/2017	EFF-5	1		P 00556	Oil and Grease		NOD	20.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	3/31/2017	EFF-5	1		P 00556	Oil and Grease		NOD	15.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	3/31/2017	EFF-5	1		P 00530	Solids, Total Suspended		NOD	100.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	3/31/2017	EFF-5	1		P 00530	Solids, Total Suspended		NOD	30.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	3/31/2017	EFF-6	1		P 50050	Flow		NOD	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	3/31/2017	EFF-6	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	3/31/2017	EFF-6	1		P 00556	Oil and Grease		NOD	15.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	3/31/2017	EFF-6	1		P 00556	Oil and Grease		NOD	20.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	3/31/2017	EFF-6	1		P 00530	Solids, Total Suspended		NOD	30.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	3/31/2017	EFF-6	1		P 00530	Solids, Total Suspended		NOD	100.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-182	3/31/2017	EFF-9	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-183	3/31/2017	EFF-10	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	3/31/2017	EFF-3	1		P 01119	Copper, Total Recoverable		21	Report	ug/L	MB - Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	3/31/2017	INT-1	7		P 01119	Copper, Total Recoverable		34	Report	ug/L	MB - Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-0B1	3/31/2017	EFF-8	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	

FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-0B1	3/31/2017	EFF-8	1		P 00530	Solids, Total Suspended		NOD	50.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	3/31/2017	EFF-12	1		P 00600	Nitrogen, Total		5.4	Report	mg/L	MB - Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	3/31/2017	EFF-12	1		P 00665	Phosphorus, Total (as P)		0.02	Report	mg/L	MB - Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	3/31/2017	EFF-13	1		P 00600	Nitrogen, Total		4	Report	mg/L	MB - Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	3/31/2017	EFF-13	1		P 00665	Phosphorus, Total (as P)		0.02	Report	mg/L	MB - Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	3/31/2017	EFF-11	1		P 00600	Nitrogen, Total		4.1	Report	mg/L	MB - Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	3/31/2017	EFF-11	1		P 00665	Phosphorus, Total (as P)		0.02	Report	mg/L	MB - Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-1B2	3/31/2017	EFF-9	1		P 00530	Solids, Total Suspended		NOD	50.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-1B2	3/31/2017	EFF-9	1		P 00400	pH		NOD	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-1B2	3/31/2017	EFF-9	1		P 00400	pH		NOD	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-1B3	3/31/2017	EFF-10	1		P 00530	Solids, Total Suspended		NOD	50.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-1B3	3/31/2017	EFF-10	1		P 00400	pH		NOD	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-1B3	3/31/2017	EFF-10	1		P 00400	pH		NOD	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	2/28/2017	EFF-3	Y		P 50050	Flow		235	380.0	MGD	AB - Annual Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	2/28/2017	EFF-3	1		P 50050	Flow		226	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	2/28/2017	EFF-3	1		P 50050	Flow		365	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	2/28/2017	EFF-3	P		P 00011	Temperature (F), Water		81.8	99.0	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	2/28/2017	EFF-3	P		P 00011	Temperature (F), Water		76.1	96.0	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	2/28/2017	EFF-3	1		P 70295	Solids, Total Dissolved (TDS)		MNR	Report	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	2/28/2017	EFF-3	1		P 70295	Solids, Total Dissolved (TDS)		MNR	Report	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	2/28/2017	EFF-3	1		P 00400	pH		MNR	6.5	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	2/28/2017	EFF-3	1		P 00400	pH		MNR	8.5	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	2/28/2017	EFF-3	P		P TRP3E	IC25 Statre 7day Chr Mysid Bahia		MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	2/28/2017	EFF-3	Q		P TRP3E	IC25 Statre 7day Chr Mysid Bahia		MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	2/28/2017	EFF-3	R		P TRP3E	IC25 Statre 7day Chr Mysid Bahia		MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	2/28/2017	EFF-3	P		P TRP6B	IC25 Statre 7day Chr Mendia		MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	2/28/2017	EFF-3	Q		P TRP6B	IC25 Statre 7day Chr Mendia		MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	2/28/2017	EFF-3	R		P TRP6B	IC25 Statre 7day Chr Mendia		MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-0B1	2/28/2017	EFF-8	1		P 00400	pH		NOD	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-0B1	2/28/2017	EFF-8	1		P 00400	pH		NOD	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	2/28/2017	EFF-12	1		P 50050	Flow		0.03	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	2/28/2017	EFF-12	1		P 50050	Flow		0.06	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	2/28/2017	EFF-12	1		P 00556	Oil and Grease		MNR	20.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	2/28/2017	EFF-12	1		P 00556	Oil and Grease		MNR	15.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	2/28/2017	EFF-12	1		P 00530	Solids, Total Suspended		MNR	100.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	2/28/2017	EFF-12	1		P 00530	Solids, Total Suspended		MNR	30.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	2/28/2017	EFF-12	1		P 00400	pH		MNR	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	2/28/2017	EFF-12	1		P 00400	pH		MNR	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	2/28/2017	EFF-13	1		P 50050	Flow		0.99	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	2/28/2017	EFF-13	1		P 50050	Flow		0.52	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	2/28/2017	EFF-13	1		P 00400	pH		7.5	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	2/28/2017	EFF-13	1		P 00400	pH		7.5	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	2/28/2017	EFF-14	1		P 82220	Flow, Total Volume		NOD	Report	Mgal/mth	MP - Monthly Total	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	2/28/2017	EFF-14	1		P 82220	Flow, Total Volume		NOD	Report	Mgal/mth	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	2/28/2017	EFF-14	1		P 01119	Copper, Total Recoverable		NOD	1.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	2/28/2017	EFF-14	1		P 00980	Iron, Total Recoverable		NOD	1.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	2/28/2017	EFF-14	1		P 00556	Oil and Grease		NOD	15.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	2/28/2017	EFF-14	1		P 00530	Solids, Total Suspended		NOD	30.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	2/28/2017	EFF-7	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	2/28/2017	EFF-7	1		P 00556	Oil and Grease		NOD	Report	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	2/28/2017	EFF-7	1		P 00530	Solids, Total Suspended		NOD	50.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	2/28/2017	EFF-7	1		P 00070	Turbidity		NOD	Report	NTU	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	2/28/2017	EFF-7	1		P 00400	pH		NOD	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	2/28/2017	EFF-7	1		P 00400	pH		NOD	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	2/28/2017	EFF-11	1		P 50050	Flow		0.54	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	2/28/2017	EFF-11	1		P 50050	Flow		0.23	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	2/28/2017	EFF-11	Y		P 00530	Solids, Total Suspended		MNR	30.0	mg/L	AB - Annual Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	2/28/2017	EFF-11	1		P 00530	Solids, Total Suspended		MNR	100.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	2/28/2017	INT-1	7		P 50050	Flow		136	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	2/28/2017	INT-1	7		P 50050	Flow		183	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	2/28/2017	EFF-1	1		P 00011	Temperature (F), Water		80.1	Report	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	2/28/2017	EFF-1	1		P 00011	Temperature (F), Water		92.8	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	2/28/2017	INT-1	7		P 00011	Temperature (F), Water		81.5	Report	Deg F	DD - Daily Maximum	

FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	2/28/2017	INT-1	7		P 00011	Temperature (F), Water		75.3	Report	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	2/28/2017	EFF-1	1		P 61576	Temp. Diff. between Intake and Discharge		12.4	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	2/28/2017	EFF-1	1		P 61576	Temp. Diff. between Intake and Discharge		4.5	13.2	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	2/28/2017	EFF-1	1		P 34044	Oxidants, Total Residual		MNR	0.2	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	2/28/2017	EFF-1	1		P 34044	Oxidants, Total Residual		MNR	0.2	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	2/28/2017	INT-3	7		P 78739	Chlorination Duration		0	1440.0	min	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	2/28/2017	INT-5	P		P 78739	Chlorination Duration		0	120.0	min	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	2/28/2017	EFF-4	1		P 00400	pH		7.5	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	2/28/2017	EFF-4	1		P 00400	pH		7.4	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	2/28/2017	INT-2	7		P 50050	Flow		90	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	2/28/2017	INT-2	7		P 50050	Flow		181	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	2/28/2017	EFF-2	1		P 00011	Temperature (F), Water		91.7	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	2/28/2017	EFF-2	1		P 00011	Temperature (F), Water		77.5	Report	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	2/28/2017	INT-2	7		P 00011	Temperature (F), Water		76	Report	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	2/28/2017	INT-2	7		P 00011	Temperature (F), Water		83.9	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	2/28/2017	EFF-2	1		P 61576	Temp. Diff. between Intake and Discharge		1.9	13.2	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	2/28/2017	EFF-2	1		P 61576	Temp. Diff. between Intake and Discharge		11.9	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	2/28/2017	EFF-2	1		P 34044	Oxidants, Total Residual		MNR	0.2	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	2/28/2017	EFF-2	1		P 34044	Oxidants, Total Residual		MNR	0.2	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	2/28/2017	INT-4	7		P 78739	Chlorination Duration		0	1440.0	min	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	2/28/2017	INT-6	P		P 78739	Chlorination Duration		0	120.0	min	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	2/28/2017	EFF-4	1		P 00400	pH		7.5	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	2/28/2017	EFF-4	1		P 00400	pH		7.4	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	2/28/2017	EFF-5	1		P 50050	Flow		NOD	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	2/28/2017	EFF-5	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	2/28/2017	EFF-5	1		P 00556	Oil and Grease		NOD	15.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	2/28/2017	EFF-5	1		P 00556	Oil and Grease		NOD	20.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	2/28/2017	EFF-5	1		P 00530	Solids, Total Suspended		NOD	100.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	2/28/2017	EFF-5	1		P 00530	Solids, Total Suspended		NOD	30.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	2/28/2017	EFF-6	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	2/28/2017	EFF-6	1		P 50050	Flow		NOD	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	2/28/2017	EFF-6	1		P 00556	Oil and Grease		NOD	20.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	2/28/2017	EFF-6	1		P 00556	Oil and Grease		NOD	15.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	2/28/2017	EFF-6	1		P 00530	Solids, Total Suspended		NOD	100.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	2/28/2017	EFF-6	1		P 00530	Solids, Total Suspended		NOD	30.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-182	2/28/2017	EFF-9	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-183	2/28/2017	EFF-10	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	1/31/2017	EFF-3	Y		P 50050	Flow		237	380.0	MGD	AB - Annual Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	1/31/2017	EFF-3	1		P 50050	Flow		363	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	1/31/2017	EFF-3	1		P 50050	Flow		183	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	1/31/2017	EFF-3	P		P 00011	Temperature (F), Water		74.6	96.0	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	1/31/2017	EFF-3	P		P 00011	Temperature (F), Water		78.4	99.0	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	1/31/2017	EFF-3	1		P 70295	Solids, Total Dissolved (TDS)		10600	Report	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	1/31/2017	EFF-3	1		P 70295	Solids, Total Dissolved (TDS)		10600	Report	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	1/31/2017	EFF-3	1		P 00400	pH		7.8	6.5	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	1/31/2017	EFF-3	1		P 00400	pH		7.8	8.5	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	1/31/2017	EFF-3	P		P TRP3E	IC25 Statre 7day Chr Mysid Bahia		MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	1/31/2017	EFF-3	Q		P TRP3E	IC25 Statre 7day Chr Mysid Bahia		MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	1/31/2017	EFF-3	R		P TRP3E	IC25 Statre 7day Chr Mysid Bahia		MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	1/31/2017	EFF-3	P		P TRP6B	IC25 Statre 7day Chr Mendia		MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	1/31/2017	EFF-3	Q		P TRP6B	IC25 Statre 7day Chr Mendia		MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	1/31/2017	EFF-3	R		P TRP6B	IC25 Statre 7day Chr Mendia		MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-0B1	1/31/2017	EFF-8	1		P 00400	pH		NOD	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-0B1	1/31/2017	EFF-8	1		P 00400	pH		NOD	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	1/31/2017	EFF-12	1		P 50050	Flow		0.06	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	1/31/2017	EFF-12	1		P 50050	Flow		0.03	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	1/31/2017	EFF-12	1		P 00556	Oil and Grease	<	1.2	15.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	1/31/2017	EFF-12	1		P 00556	Oil and Grease	<	1.2	20.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	1/31/2017	EFF-12	1		P 00530	Solids, Total Suspended		3	30.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	1/31/2017	EFF-12	1		P 00530	Solids, Total Suspended		3	100.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	1/31/2017	EFF-12	1		P 00400	pH		6.7	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	1/31/2017	EFF-12	1		P 00400	pH		8.1	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	1/31/2017	EFF-13	1		P 50050	Flow		0.71	Report	MGD	DD - Daily Maximum	

FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	1/31/2017	EFF-13	1		P 50050	Flow		0.47	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	1/31/2017	EFF-13	1		P 00400	pH		7.5	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	1/31/2017	EFF-13	1		P 00400	pH		7.5	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	1/31/2017	EFF-14	1		P 82220	Flow, Total Volume		NOD	Report	Mgal/mth	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	1/31/2017	EFF-14	1		P 82220	Flow, Total Volume		NOD	Report	Mgal/mth	MP - Monthly Total	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	1/31/2017	EFF-14	1		P 01119	Copper, Total Recoverable		NOD	1.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	1/31/2017	EFF-14	1		P 00980	Iron, Total Recoverable		NOD	1.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	1/31/2017	EFF-14	1		P 00556	Oil and Grease		NOD	15.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	1/31/2017	EFF-14	1		P 00530	Solids, Total Suspended		NOD	30.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	1/31/2017	EFF-7	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	1/31/2017	EFF-7	1		P 00556	Oil and Grease		NOD	Report	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	1/31/2017	EFF-7	1		P 00530	Solids, Total Suspended		NOD	50.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	1/31/2017	EFF-7	1		P 00070	Turbidity		NOD	Report	NTU	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	1/31/2017	EFF-7	1		P 00400	pH		NOD	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	1/31/2017	EFF-7	1		P 00400	pH		NOD	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	1/31/2017	EFF-11	1		P 50050	Flow		0.53	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	1/31/2017	EFF-11	1		P 50050	Flow		0.13	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	1/31/2017	EFF-11	Y		P 00530	Solids, Total Suspended		3	30.0	mg/L	AB - Annual Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	1/31/2017	EFF-11	1		P 00530	Solids, Total Suspended		MNR	100.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	1/31/2017	INT-1	7		P 50050	Flow		182	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	1/31/2017	INT-1	7		P 50050	Flow		100	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	1/31/2017	EFF-1	1		P 00011	Temperature (F), Water		74.1	Report	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	1/31/2017	EFF-1	1		P 00011	Temperature (F), Water		85.3	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	1/31/2017	INT-1	7		P 00011	Temperature (F), Water		72.7	Report	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	1/31/2017	INT-1	7		P 00011	Temperature (F), Water		78.7	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	1/31/2017	EFF-1	1		P 61576	Temp. Diff. between Intake and Discharge		11.2	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	1/31/2017	EFF-1	1		P 61576	Temp. Diff. between Intake and Discharge		0.9	13.2	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	1/31/2017	EFF-1	1		P 34044	Oxidants, Total Residual		MNR	0.2	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	1/31/2017	EFF-1	1		P 34044	Oxidants, Total Residual		MNR	0.2	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	1/31/2017	INT-3	7		P 78739	Chlorination Duration		0	1440.0	min	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	1/31/2017	INT-5	P		P 78739	Chlorination Duration		0	120.0	min	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	1/31/2017	EFF-4	1		P 00400	pH		7.4	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	1/31/2017	EFF-4	1		P 00400	pH		7.5	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	1/31/2017	INT-2	7		P 50050	Flow		83	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	1/31/2017	INT-2	7		P 50050	Flow		181	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	1/31/2017	EFF-2	1		P 00011	Temperature (F), Water		88.9	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	1/31/2017	EFF-2	1		P 00011	Temperature (F), Water		73.8	Report	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	1/31/2017	INT-2	7		P 00011	Temperature (F), Water		80.2	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	1/31/2017	INT-2	7		P 00011	Temperature (F), Water		73.7	Report	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	1/31/2017	EFF-2	1		P 61576	Temp. Diff. between Intake and Discharge		13.4	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	1/31/2017	EFF-2	1		P 61576	Temp. Diff. between Intake and Discharge		0.5	13.2	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	1/31/2017	EFF-2	1		P 34044	Oxidants, Total Residual		MNR	0.2	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	1/31/2017	EFF-2	1		P 34044	Oxidants, Total Residual		MNR	0.2	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	1/31/2017	INT-4	7		P 78739	Chlorination Duration		0	1440.0	min	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	1/31/2017	INT-6	P		P 78739	Chlorination Duration		0	120.0	min	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	1/31/2017	EFF-4	1		P 00400	pH		7.5	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	1/31/2017	EFF-4	1		P 00400	pH		7.4	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	1/31/2017	EFF-5	1		P 50050	Flow		NOD	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	1/31/2017	EFF-5	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	1/31/2017	EFF-5	1		P 00556	Oil and Grease		NOD	20.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	1/31/2017	EFF-5	1		P 00556	Oil and Grease		NOD	15.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	1/31/2017	EFF-5	1		P 00530	Solids, Total Suspended		NOD	100.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	1/31/2017	EFF-5	1		P 00530	Solids, Total Suspended		NOD	30.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	1/31/2017	EFF-6	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	1/31/2017	EFF-6	1		P 50050	Flow		NOD	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	1/31/2017	EFF-6	1		P 00556	Oil and Grease		NOD	20.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	1/31/2017	EFF-6	1		P 00556	Oil and Grease		NOD	15.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	1/31/2017	EFF-6	1		P 00530	Solids, Total Suspended		NOD	100.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	1/31/2017	EFF-6	1		P 00530	Solids, Total Suspended		NOD	30.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-182	1/31/2017	EFF-9	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-183	1/31/2017	EFF-10	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	12/31/2016	EFF-3	Y		P 50050	Flow		251	380.0	MGD	AB - Annual Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	12/31/2016	EFF-3	1		P 50050	Flow		363	Report	MGD	DD - Daily Maximum	

FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	12/31/2016	EFF-3	1		P 50050	Flow		239	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	12/31/2016	EFF-3	P		P 00011	Temperature (F), Water		80.9	99.0	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	12/31/2016	EFF-3	P		P 00011	Temperature (F), Water		76.7	96.0	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	12/31/2016	EFF-3	1		P 70295	Solids, Total Dissolved (TDS)		MNR	Report	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	12/31/2016	EFF-3	1		P 70295	Solids, Total Dissolved (TDS)		MNR	Report	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	12/31/2016	EFF-3	1		P 00400	pH		MNR	8.5	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	12/31/2016	EFF-3	1		P 00400	pH		MNR	6.5	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	12/31/2016	EFF-3	P		P TRP3E	IC25 Statre 7day Chr Mysid Bahia	>	100	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	12/31/2016	EFF-3	Q		P TRP3E	IC25 Statre 7day Chr Mysid Bahia	>	100	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	12/31/2016	EFF-3	R		P TRP3E	IC25 Statre 7day Chr Mysid Bahia	>	100	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	12/31/2016	EFF-3	P		P TRP6B	IC25 Statre 7day Chr Mendia	>	100	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	12/31/2016	EFF-3	Q		P TRP6B	IC25 Statre 7day Chr Mendia	>	100	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	12/31/2016	EFF-3	R		P TRP6B	IC25 Statre 7day Chr Mendia	>	100	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-0B1	12/31/2016	EFF-8	1		P 00400	pH		NOD	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-0B1	12/31/2016	EFF-8	1		P 00400	pH		NOD	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	12/31/2016	EFF-12	1		P 50050	Flow		0.07	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	12/31/2016	EFF-12	1		P 50050	Flow		0.04	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	12/31/2016	EFF-12	1		P 00556	Oil and Grease		MNR	15.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	12/31/2016	EFF-12	1		P 00556	Oil and Grease		MNR	20.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	12/31/2016	EFF-12	1		P 00530	Solids, Total Suspended		MNR	30.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	12/31/2016	EFF-12	1		P 00530	Solids, Total Suspended		MNR	100.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	12/31/2016	EFF-12	1		P 00400	pH		MNR	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	12/31/2016	EFF-12	1		P 00400	pH		MNR	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	12/31/2016	EFF-13	1		P 50050	Flow		0.64	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	12/31/2016	EFF-13	1		P 50050	Flow		1.09	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	12/31/2016	EFF-13	1		P 00400	pH		7	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	12/31/2016	EFF-13	1		P 00400	pH		7	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	12/31/2016	EFF-14	1		P 82220	Flow, Total Volume		NOD	Report	Mgal/mth	MP - Monthly Total	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	12/31/2016	EFF-14	1		P 82220	Flow, Total Volume		NOD	Report	Mgal/mth	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	12/31/2016	EFF-14	1		P 01119	Copper, Total Recoverable		NOD	1.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	12/31/2016	EFF-14	1		P 00980	Iron, Total Recoverable		NOD	1.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	12/31/2016	EFF-14	1		P 00556	Oil and Grease		NOD	15.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	12/31/2016	EFF-14	1		P 00530	Solids, Total Suspended		NOD	30.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	12/31/2016	EFF-7	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	12/31/2016	EFF-7	1		P 00556	Oil and Grease		NOD	Report	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	12/31/2016	EFF-7	1		P 00530	Solids, Total Suspended		NOD	50.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	12/31/2016	EFF-7	1		P 00070	Turbidity		NOD	Report	NTU	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	12/31/2016	EFF-7	1		P 00400	pH		NOD	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	12/31/2016	EFF-7	1		P 00400	pH		NOD	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	12/31/2016	EFF-11	1		P 50050	Flow		0.29	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	12/31/2016	EFF-11	1		P 50050	Flow		0.77	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	12/31/2016	EFF-11	Y		P 00530	Solids, Total Suspended		MNR	30.0	mg/L	AB - Annual Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	12/31/2016	EFF-11	1		P 00530	Solids, Total Suspended		MNR	100.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	12/31/2016	INT-1	7		P 50050	Flow		78	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	12/31/2016	INT-1	7		P 50050	Flow		181	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	12/31/2016	EFF-1	1		P 00011	Temperature (F), Water		76.9	Report	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	12/31/2016	EFF-1	1		P 00011	Temperature (F), Water		88.1	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	12/31/2016	INT-1	7		P 00011	Temperature (F), Water		76.8	Report	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	12/31/2016	INT-1	7		P 00011	Temperature (F), Water		88.1	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	12/31/2016	EFF-1	1		P 61576	Temp. Diff. between Intake and Discharge		10.1	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	12/31/2016	EFF-1	1		P 61576	Temp. Diff. between Intake and Discharge		0	13.2	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	12/31/2016	EFF-1	1		P 34044	Oxidants, Total Residual		MNR	0.2	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	12/31/2016	EFF-1	1		P 34044	Oxidants, Total Residual		MNR	0.2	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	12/31/2016	INT-3	7		P 78739	Chlorination Duration		0	1440.0	min	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	12/31/2016	INT-5	P		P 78739	Chlorination Duration		0	120.0	min	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	12/31/2016	EFF-4	1		P 00400	pH		7.5	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	12/31/2016	EFF-4	1		P 00400	pH		7.5	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	12/31/2016	INT-2	7		P 50050	Flow		181	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	12/31/2016	INT-2	7		P 50050	Flow		161	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	12/31/2016	EFF-2	1		P 00011	Temperature (F), Water		91.8	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	12/31/2016	EFF-2	1		P 00011	Temperature (F), Water		79.9	Report	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	12/31/2016	INT-2	7		P 00011	Temperature (F), Water		77.5	Report	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	12/31/2016	INT-2	7		P 00011	Temperature (F), Water		81.1	Report	Deg F	DD - Daily Maximum	

FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	12/31/2016	EFF-2	1		P 61576	Temp. Diff. between Intake and Discharge		14.6	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	12/31/2016	EFF-2	1		P 61576	Temp. Diff. between Intake and Discharge		2.7	13.2	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	12/31/2016	EFF-2	1		P 34044	Oxidants, Total Residual		MNR	0.2	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	12/31/2016	EFF-2	1		P 34044	Oxidants, Total Residual		MNR	0.2	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	12/31/2016	INT-4	7		P 78739	Chlorination Duration		0	1440.0	min	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	12/31/2016	INT-6	P		P 78739	Chlorination Duration		0	120.0	min	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	12/31/2016	EFF-4	1		P 00400	pH		7.5	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	12/31/2016	EFF-4	1		P 00400	pH		7.5	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	12/31/2016	EFF-5	1		P 50050	Flow		NOD	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	12/31/2016	EFF-5	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	12/31/2016	EFF-5	1		P 00556	Oil and Grease		NOD	20.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	12/31/2016	EFF-5	1		P 00556	Oil and Grease		NOD	15.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	12/31/2016	EFF-5	1		P 00530	Solids, Total Suspended		NOD	30.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	12/31/2016	EFF-5	1		P 00530	Solids, Total Suspended		NOD	100.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	12/31/2016	EFF-6	1		P 50050	Flow		NOD	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	12/31/2016	EFF-6	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	12/31/2016	EFF-6	1		P 00556	Oil and Grease		NOD	20.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	12/31/2016	EFF-6	1		P 00556	Oil and Grease		NOD	15.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	12/31/2016	EFF-6	1		P 00530	Solids, Total Suspended		NOD	100.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	12/31/2016	EFF-6	1		P 00530	Solids, Total Suspended		NOD	30.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-182	12/31/2016	EFF-9	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-183	12/31/2016	EFF-10	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	12/31/2016	EFF-3	1		P 01119	Copper, Total Recoverable		7.1	Report	ug/L	MB - Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	12/31/2016	INT-1	7		P 01119	Copper, Total Recoverable		4.1	Report	ug/L	MB - Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-081	12/31/2016	EFF-8	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-081	12/31/2016	EFF-8	1		P 00530	Solids, Total Suspended		NOD	50.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	12/31/2016	EFF-12	1		P 00600	Nitrogen, Total		4.5	Report	mg/L	MB - Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	12/31/2016	EFF-12	1		P 00665	Phosphorus, Total (as P)		0.01	Report	mg/L	MB - Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	12/31/2016	EFF-13	1		P 00600	Nitrogen, Total		2.6	Report	mg/L	MB - Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	12/31/2016	EFF-13	1		P 00665	Phosphorus, Total (as P)		0.03	Report	mg/L	MB - Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	12/31/2016	EFF-11	1		P 00600	Nitrogen, Total		4.2	Report	mg/L	MB - Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	12/31/2016	EFF-11	1		P 00665	Phosphorus, Total (as P)		0.03	Report	mg/L	MB - Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-182	12/31/2016	EFF-9	1		P 00530	Solids, Total Suspended		NOD	50.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-182	12/31/2016	EFF-9	1		P 00400	pH		NOD	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-182	12/31/2016	EFF-9	1		P 00400	pH		NOD	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-183	12/31/2016	EFF-10	1		P 00530	Solids, Total Suspended		NOD	50.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-183	12/31/2016	EFF-10	1		P 00400	pH		NOD	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-183	12/31/2016	EFF-10	1		P 00400	pH		NOD	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	12/31/2016	EFF-13	1		P 00556	Oil and Grease	<	1.2	20.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	12/31/2016	EFF-13	1		P 00556	Oil and Grease	<	1.2	15.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	12/31/2016	EFF-13	1		P 00530	Solids, Total Suspended		3	100.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	12/31/2016	EFF-13	1		P 00530	Solids, Total Suspended		3	30.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	12/31/2016	EFF-11	1		P 00556	Oil and Grease	<	1.2	20.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	12/31/2016	EFF-11	1		P 00556	Oil and Grease	<	1.2	15.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	11/30/2016	EFF-3	Y		P 50050	Flow		254	380.0	MGD	AB - Annual Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	11/30/2016	EFF-3	1		P 50050	Flow		156	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	11/30/2016	EFF-3	1		P 50050	Flow		189	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	11/30/2016	EFF-3	P		P 00011	Temperature (F), Water		77.6	96.0	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	11/30/2016	EFF-3	P		P 00011	Temperature (F), Water		80.2	99.0	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	11/30/2016	EFF-3	1		P 70295	Solids, Total Dissolved (TDS)		9340	Report	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	11/30/2016	EFF-3	1		P 70295	Solids, Total Dissolved (TDS)		9340	Report	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	11/30/2016	EFF-3	1		P 00400	pH		7.8	8.5	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	11/30/2016	EFF-3	1		P 00400	pH		7.8	6.5	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	11/30/2016	EFF-3	P		P TRP3E	IC25 Statre 7day Chr Mysid Bahia		MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	11/30/2016	EFF-3	Q		P TRP3E	IC25 Statre 7day Chr Mysid Bahia		MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	11/30/2016	EFF-3	R		P TRP3E	IC25 Statre 7day Chr Mysid Bahia		MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	11/30/2016	EFF-3	P		P TRP6B	IC25 Statre 7day Chr Mendia		MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	11/30/2016	EFF-3	Q		P TRP6B	IC25 Statre 7day Chr Mendia		MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	11/30/2016	EFF-3	R		P TRP6B	IC25 Statre 7day Chr Mendia		MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-081	11/30/2016	EFF-8	1		P 00400	pH		NOD	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-081	11/30/2016	EFF-8	1		P 00400	pH		NOD	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	11/30/2016	EFF-12	1		P 50050	Flow		0.03	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	11/30/2016	EFF-12	1		P 50050	Flow		0.05	Report	MGD	DD - Daily Maximum	

FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	11/30/2016	EFF-12	1		P 00556	Oil and Grease	<	1.2	20.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	11/30/2016	EFF-12	1		P 00556	Oil and Grease	<	1.2	15.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	11/30/2016	EFF-12	1		P 00530	Solids, Total Suspended		3	30.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	11/30/2016	EFF-12	1		P 00530	Solids, Total Suspended		3	100.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	11/30/2016	EFF-12	1		P 00400	pH		8.4	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	11/30/2016	EFF-12	1		P 00400	pH		6.6	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	11/30/2016	EFF-13	1		P 50050	Flow		0.47	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	11/30/2016	EFF-13	1		P 50050	Flow		0.83	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	11/30/2016	EFF-13	1		P 00400	pH		7.6	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	11/30/2016	EFF-13	1		P 00400	pH		7.6	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	11/30/2016	EFF-14	1		P 82220	Flow, Total Volume		NOD	Report	Mgal/mth	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	11/30/2016	EFF-14	1		P 82220	Flow, Total Volume		NOD	Report	Mgal/mth	MP - Monthly Total	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	11/30/2016	EFF-14	1		P 01119	Copper, Total Recoverable		NOD	1.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	11/30/2016	EFF-14	1		P 00980	Iron, Total Recoverable		NOD	1.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	11/30/2016	EFF-14	1		P 00556	Oil and Grease		NOD	15.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	11/30/2016	EFF-14	1		P 00530	Solids, Total Suspended		NOD	30.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	11/30/2016	EFF-7	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	11/30/2016	EFF-7	1		P 00556	Oil and Grease		NOD	Report	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	11/30/2016	EFF-7	1		P 00530	Solids, Total Suspended		NOD	50.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	11/30/2016	EFF-7	1		P 00070	Turbidity		NOD	Report	NTU	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	11/30/2016	EFF-7	1		P 00400	pH		NOD	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	11/30/2016	EFF-7	1		P 00400	pH		NOD	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	11/30/2016	EFF-11	1		P 50050	Flow		0.28	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	11/30/2016	EFF-11	1		P 50050	Flow		0.75	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	11/30/2016	EFF-11	Y		P 00530	Solids, Total Suspended		3	30.0	mg/L	AB - Annual Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	11/30/2016	EFF-11	1		P 00530	Solids, Total Suspended		3	100.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	11/30/2016	INT-1	7		P 50050	Flow		0	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	11/30/2016	INT-1	7		P 50050	Flow		0	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	11/30/2016	EFF-1	1		P 00011	Temperature (F), Water		0	Report	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	11/30/2016	EFF-1	1		P 00011	Temperature (F), Water		0	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	11/30/2016	INT-1	7		P 00011	Temperature (F), Water		73.8	Report	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	11/30/2016	INT-1	7		P 00011	Temperature (F), Water		83	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	11/30/2016	EFF-1	1		P 61576	Temp. Diff. between Intake and Discharge		0	13.2	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	11/30/2016	EFF-1	1		P 61576	Temp. Diff. between Intake and Discharge		0	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	11/30/2016	EFF-1	1		P 34044	Oxidants, Total Residual		MNR	0.2	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	11/30/2016	EFF-1	1		P 34044	Oxidants, Total Residual		MNR	0.2	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	11/30/2016	INT-3	7		P 78739	Chlorination Duration		0	1440.0	min	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	11/30/2016	INT-5	P		P 78739	Chlorination Duration		0	120.0	min	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	11/30/2016	EFF-4	1		P 00400	pH		7.3	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	11/30/2016	EFF-4	1		P 00400	pH		7.8	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	11/30/2016	INT-2	7		P 50050	Flow		189	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	11/30/2016	INT-2	7		P 50050	Flow		156	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	11/30/2016	EFF-2	1		P 00011	Temperature (F), Water		90.8	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	11/30/2016	EFF-2	1		P 00011	Temperature (F), Water		79.6	Report	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	11/30/2016	INT-2	7		P 00011	Temperature (F), Water		89.8	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	11/30/2016	INT-2	7		P 00011	Temperature (F), Water		76.3	Report	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	11/30/2016	EFF-2	1		P 61576	Temp. Diff. between Intake and Discharge		4.5	13.2	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	11/30/2016	EFF-2	1		P 61576	Temp. Diff. between Intake and Discharge		14.4	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	11/30/2016	EFF-2	1		P 34044	Oxidants, Total Residual		MNR	0.2	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	11/30/2016	EFF-2	1		P 34044	Oxidants, Total Residual		MNR	0.2	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	11/30/2016	INT-4	7		P 78739	Chlorination Duration		0	1440.0	min	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	11/30/2016	INT-6	P		P 78739	Chlorination Duration		0	120.0	min	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	11/30/2016	EFF-4	1		P 00400	pH		7.8	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	11/30/2016	EFF-4	1		P 00400	pH		7.3	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	11/30/2016	EFF-5	1		P 50050	Flow		NOD	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	11/30/2016	EFF-5	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	11/30/2016	EFF-5	1		P 00556	Oil and Grease		NOD	20.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	11/30/2016	EFF-5	1		P 00556	Oil and Grease		NOD	15.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	11/30/2016	EFF-5	1		P 00530	Solids, Total Suspended		NOD	100.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	11/30/2016	EFF-5	1		P 00530	Solids, Total Suspended		NOD	30.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	11/30/2016	EFF-6	1		P 50050	Flow		NOD	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	11/30/2016	EFF-6	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	11/30/2016	EFF-6	1		P 00556	Oil and Grease		NOD	20.0	mg/L	DD - Daily Maximum	

FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	11/30/2016	EFF-6	1		P 00556	Oil and Grease		NOD	15.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	11/30/2016	EFF-6	1		P 00530	Solids, Total Suspended		NOD	100.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	11/30/2016	EFF-6	1		P 00530	Solids, Total Suspended		NOD	30.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-182	11/30/2016	EFF-9	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-183	11/30/2016	EFF-10	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	10/31/2016	EFF-3	Y		P 50050	Flow		304	380.0	MGD	AB - Annual Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	10/31/2016	EFF-3	1		P 50050	Flow		363	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	10/31/2016	EFF-3	1		P 50050	Flow		288	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	10/31/2016	EFF-3	P		P 00011	Temperature (F), Water		85.6	96.0	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	10/31/2016	EFF-3	P		P 00011	Temperature (F), Water		91.3	99.0	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	10/31/2016	EFF-3	1		P 70295	Solids, Total Dissolved (TDS)		MNR	Report	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	10/31/2016	EFF-3	1		P 70295	Solids, Total Dissolved (TDS)		MNR	Report	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	10/31/2016	EFF-3	1		P 00400	pH		MNR	6.5	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	10/31/2016	EFF-3	1		P 00400	pH		MNR	8.5	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	10/31/2016	EFF-3	P		P TRP3E	IC25 Statre 7day Chr Mysid Bahia		MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	10/31/2016	EFF-3	Q		P TRP3E	IC25 Statre 7day Chr Mysid Bahia		MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	10/31/2016	EFF-3	R		P TRP3E	IC25 Statre 7day Chr Mysid Bahia		MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	10/31/2016	EFF-3	P		P TRP6B	IC25 Statre 7day Chr Mendia		MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	10/31/2016	EFF-3	Q		P TRP6B	IC25 Statre 7day Chr Mendia		MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	10/31/2016	EFF-3	R		P TRP6B	IC25 Statre 7day Chr Mendia		MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-081	10/31/2016	EFF-8	1		P 00400	pH		NOD	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-081	10/31/2016	EFF-8	1		P 00400	pH		NOD	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	10/31/2016	EFF-12	1		P 50050	Flow		0.04	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	10/31/2016	EFF-12	1		P 50050	Flow		0.06	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	10/31/2016	EFF-12	1		P 00556	Oil and Grease		MNR	15.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	10/31/2016	EFF-12	1		P 00556	Oil and Grease		MNR	20.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	10/31/2016	EFF-12	1		P 00530	Solids, Total Suspended		MNR	100.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	10/31/2016	EFF-12	1		P 00530	Solids, Total Suspended		MNR	30.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	10/31/2016	EFF-12	1		P 00400	pH		MNR	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	10/31/2016	EFF-12	1		P 00400	pH		MNR	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	10/31/2016	EFF-13	1		P 50050	Flow		0.64	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	10/31/2016	EFF-13	1		P 50050	Flow		1.25	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	10/31/2016	EFF-13	1		P 00400	pH		7.4	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	10/31/2016	EFF-13	1		P 00400	pH		7.4	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	10/31/2016	EFF-14	1		P 82220	Flow, Total Volume		NOD	Report	Mgal/mth	MP - Monthly Total	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	10/31/2016	EFF-14	1		P 82220	Flow, Total Volume		NOD	Report	Mgal/mth	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	10/31/2016	EFF-14	1		P 01119	Copper, Total Recoverable		NOD	1.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	10/31/2016	EFF-14	1		P 00980	Iron, Total Recoverable		NOD	1.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	10/31/2016	EFF-14	1		P 00556	Oil and Grease		NOD	15.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	10/31/2016	EFF-14	1		P 00530	Solids, Total Suspended		NOD	30.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	10/31/2016	EFF-7	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	10/31/2016	EFF-7	1		P 00556	Oil and Grease		NOD	Report	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	10/31/2016	EFF-7	1		P 00530	Solids, Total Suspended		NOD	50.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	10/31/2016	EFF-7	1		P 00070	Turbidity		NOD	Report	NTU	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	10/31/2016	EFF-7	1		P 00400	pH		NOD	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	10/31/2016	EFF-7	1		P 00400	pH		NOD	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	10/31/2016	EFF-11	1		P 50050	Flow		0.48	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	10/31/2016	EFF-11	1		P 50050	Flow		0.74	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	10/31/2016	EFF-11	Y		P 00530	Solids, Total Suspended		MNR	30.0	mg/L	AB - Annual Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	10/31/2016	EFF-11	1		P 00530	Solids, Total Suspended		MNR	100.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	10/31/2016	INT-1	7		P 50050	Flow		181	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	10/31/2016	INT-1	7		P 50050	Flow		128	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	10/31/2016	EFF-1	1		P 00011	Temperature (F), Water		98.3	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	10/31/2016	EFF-1	1		P 00011	Temperature (F), Water		86.6	Report	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	10/31/2016	INT-1	7		P 00011	Temperature (F), Water		81.4	Report	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	10/31/2016	INT-1	7		P 00011	Temperature (F), Water		87.2	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	10/31/2016	EFF-1	1		P 61576	Temp. Diff. between Intake and Discharge		5	13.2	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	10/31/2016	EFF-1	1		P 61576	Temp. Diff. between Intake and Discharge		13.1	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	10/31/2016	EFF-1	1		P 34044	Oxidants, Total Residual		MNR	0.2	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	10/31/2016	EFF-1	1		P 34044	Oxidants, Total Residual		MNR	0.2	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	10/31/2016	INT-3	7		P 78739	Chlorination Duration		0	1440.0	min	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	10/31/2016	INT-5	P		P 78739	Chlorination Duration		0	120.0	min	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	10/31/2016	EFF-4	1		P 00400	pH		7.4	9.0	s.u.	DD - Daily Maximum	

FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	10/31/2016	EFF-4	1		P 00400	pH		7	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	10/31/2016	INT-2	7		P 50050	Flow		181	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	10/31/2016	INT-2	7		P 50050	Flow		160	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	10/31/2016	EFF-2	1		P 00011	Temperature (F), Water		98.9	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	10/31/2016	EFF-2	1		P 00011	Temperature (F), Water		86.2	Report	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	10/31/2016	INT-2	7		P 00011	Temperature (F), Water		81.8	Report	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	10/31/2016	INT-2	7		P 00011	Temperature (F), Water		87.7	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	10/31/2016	EFF-2	1		P 61576	Temp. Diff. between Intake and Discharge		4.6	13.2	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	10/31/2016	EFF-2	1		P 61576	Temp. Diff. between Intake and Discharge		12.9	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	10/31/2016	EFF-2	1		P 34044	Oxidants, Total Residual		MNR	0.2	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	10/31/2016	EFF-2	1		P 34044	Oxidants, Total Residual		MNR	0.2	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	10/31/2016	INT-4	7		P 78739	Chlorination Duration		0	1440.0	min	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	10/31/2016	INT-6	P		P 78739	Chlorination Duration		0	120.0	min	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	10/31/2016	EFF-4	1		P 00400	pH		7.4	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	10/31/2016	EFF-4	1		P 00400	pH		7	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	10/31/2016	EFF-5	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	10/31/2016	EFF-5	1		P 50050	Flow		NOD	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	10/31/2016	EFF-5	1		P 00556	Oil and Grease		NOD	20.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	10/31/2016	EFF-5	1		P 00556	Oil and Grease		NOD	15.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	10/31/2016	EFF-5	1		P 00530	Solids, Total Suspended		NOD	100.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	10/31/2016	EFF-5	1		P 00530	Solids, Total Suspended		NOD	30.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	10/31/2016	EFF-6	1		P 50050	Flow		NOD	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	10/31/2016	EFF-6	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	10/31/2016	EFF-6	1		P 00556	Oil and Grease		NOD	20.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	10/31/2016	EFF-6	1		P 00556	Oil and Grease		NOD	15.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	10/31/2016	EFF-6	1		P 00530	Solids, Total Suspended		NOD	100.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	10/31/2016	EFF-6	1		P 00530	Solids, Total Suspended		NOD	30.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-182	10/31/2016	EFF-9	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-183	10/31/2016	EFF-10	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	9/30/2016	EFF-3	Y		P 50050	Flow		319	380.0	MGD	AB - Annual Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	9/30/2016	EFF-3	1		P 50050	Flow		319	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	9/30/2016	EFF-3	1		P 50050	Flow		363	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	9/30/2016	EFF-3	1		P 00011	Temperature (F), Water		92.4	101.1	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	9/30/2016	EFF-3	1		P 00011	Temperature (F), Water		90.3	99.0	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	9/30/2016	EFF-3	1		P 70295	Solids, Total Dissolved (TDS)		494	Report	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	9/30/2016	EFF-3	1		P 70295	Solids, Total Dissolved (TDS)		494	Report	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	9/30/2016	EFF-3	1		P 00400	pH		7	8.5	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	9/30/2016	EFF-3	1		P 00400	pH		7	6.5	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	9/30/2016	EFF-3	P		P TRP3E	IC25 Statre 7day Chr Mysid Bahia		MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	9/30/2016	EFF-3	Q		P TRP3E	IC25 Statre 7day Chr Mysid Bahia		MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	9/30/2016	EFF-3	R		P TRP3E	IC25 Statre 7day Chr Mysid Bahia		MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	9/30/2016	EFF-3	P		P TRP6B	IC25 Statre 7day Chr Mendia		MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	9/30/2016	EFF-3	Q		P TRP6B	IC25 Statre 7day Chr Mendia		MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	9/30/2016	EFF-3	R		P TRP6B	IC25 Statre 7day Chr Mendia		MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-0B1	9/30/2016	EFF-8	1		P 00400	pH		NOD	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-0B1	9/30/2016	EFF-8	1		P 00400	pH		NOD	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	9/30/2016	EFF-12	1		P 50050	Flow		0.08	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	9/30/2016	EFF-12	1		P 50050	Flow		0.05	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	9/30/2016	EFF-12	1		P 00556	Oil and Grease	<	1.2	20.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	9/30/2016	EFF-12	1		P 00556	Oil and Grease	<	1.2	15.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	9/30/2016	EFF-12	1		P 00530	Solids, Total Suspended		18	30.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	9/30/2016	EFF-12	1		P 00530	Solids, Total Suspended		18	100.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	9/30/2016	EFF-12	1		P 00400	pH		8.4	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	9/30/2016	EFF-12	1		P 00400	pH		6.8	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	9/30/2016	EFF-13	1		P 50050	Flow		1.11	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	9/30/2016	EFF-13	1		P 50050	Flow		0.61	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	9/30/2016	EFF-13	1		P 00400	pH		6.8	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	9/30/2016	EFF-13	1		P 00400	pH		6.8	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	9/30/2016	EFF-14	1		P 82220	Flow, Total Volume		NOD	Report	Mgal/mth	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	9/30/2016	EFF-14	1		P 82220	Flow, Total Volume		NOD	Report	Mgal/mth	MP - Monthly Total	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	9/30/2016	EFF-14	1		P 01119	Copper, Total Recoverable		NOD	1.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	9/30/2016	EFF-14	1		P 00980	Iron, Total Recoverable		NOD	1.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	9/30/2016	EFF-14	1		P 00556	Oil and Grease		NOD	15.0	mg/L	DD - Daily Maximum	

FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	9/30/2016	EFF-14	1		P 00530	Solids, Total Suspended			NOD	30.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	9/30/2016	EFF-7	1		P 50050	Flow			NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	9/30/2016	EFF-7	1		P 00556	Oil and Grease			NOD	Report	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	9/30/2016	EFF-7	1		P 00530	Solids, Total Suspended			NOD	50.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	9/30/2016	EFF-7	1		P 00070	Turbidity			NOD	Report	NTU	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	9/30/2016	EFF-7	1		P 00400	pH			NOD	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	9/30/2016	EFF-7	1		P 00400	pH			NOD	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	9/30/2016	EFF-11	1		P 50050	Flow			0.46	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	9/30/2016	EFF-11	1		P 50050	Flow			0.74	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	9/30/2016	EFF-11	Y		P 00530	Solids, Total Suspended			3	30.0	mg/L	AB - Annual Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	9/30/2016	EFF-11	1		P 00530	Solids, Total Suspended			3	100.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	9/30/2016	INT-1	7		P 50050	Flow			139	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	9/30/2016	INT-1	7		P 50050	Flow			181	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	9/30/2016	EFF-1	1		P 00011	Temperature (F), Water			89.5	Report	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	9/30/2016	EFF-1	1		P 00011	Temperature (F), Water			98.7	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	9/30/2016	INT-1	7		P 00011	Temperature (F), Water			85	Report	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	9/30/2016	INT-1	7		P 00011	Temperature (F), Water			93.6	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	9/30/2016	EFF-1	1		P 61576	Temp. Diff. between Intake and Discharge			13.6	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	9/30/2016	EFF-1	1		P 61576	Temp. Diff. between Intake and Discharge			4.4	13.2	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	9/30/2016	EFF-1	1		P 34044	Oxidants, Total Residual			MNR	0.2	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	9/30/2016	EFF-1	1		P 34044	Oxidants, Total Residual			MNR	0.2	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	9/30/2016	INT-3	7		P 78739	Chlorination Duration			0	1440.0	min	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	9/30/2016	INT-5	P		P 78739	Chlorination Duration			0	120.0	min	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	9/30/2016	EFF-4	1		P 00400	pH			7.5	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	9/30/2016	EFF-4	1		P 00400	pH			6.9	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	9/30/2016	INT-2	7		P 50050	Flow			181	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	9/30/2016	INT-2	7		P 50050	Flow			181	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	9/30/2016	EFF-2	1		P 00011	Temperature (F), Water			100.5	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	9/30/2016	EFF-2	1		P 00011	Temperature (F), Water			92.4	Report	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	9/30/2016	INT-2	7		P 00011	Temperature (F), Water			89.3	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	9/30/2016	INT-2	7		P 00011	Temperature (F), Water			85.3	Report	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	9/30/2016	EFF-2	1		P 61576	Temp. Diff. between Intake and Discharge			12.5	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	9/30/2016	EFF-2	1		P 61576	Temp. Diff. between Intake and Discharge			7.2	13.2	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	9/30/2016	EFF-2	1		P 34044	Oxidants, Total Residual			MNR	0.2	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	9/30/2016	EFF-2	1		P 34044	Oxidants, Total Residual			MNR	0.2	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	9/30/2016	INT-4	7		P 78739	Chlorination Duration			0	1440.0	min	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	9/30/2016	INT-6	P		P 78739	Chlorination Duration			0	120.0	min	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	9/30/2016	EFF-4	1		P 00400	pH			7.5	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	9/30/2016	EFF-4	1		P 00400	pH			6.9	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	9/30/2016	EFF-5	1		P 50050	Flow			NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	9/30/2016	EFF-5	1		P 50050	Flow			NOD	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	9/30/2016	EFF-5	1		P 00556	Oil and Grease			NOD	20.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	9/30/2016	EFF-5	1		P 00556	Oil and Grease			NOD	15.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	9/30/2016	EFF-5	1		P 00530	Solids, Total Suspended			NOD	100.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	9/30/2016	EFF-5	1		P 00530	Solids, Total Suspended			NOD	30.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	9/30/2016	EFF-6	1		P 50050	Flow			NOD	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	9/30/2016	EFF-6	1		P 50050	Flow			NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	9/30/2016	EFF-6	1		P 00556	Oil and Grease			NOD	20.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	9/30/2016	EFF-6	1		P 00556	Oil and Grease			NOD	15.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	9/30/2016	EFF-6	1		P 00530	Solids, Total Suspended			NOD	100.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	9/30/2016	EFF-6	1		P 00530	Solids, Total Suspended			NOD	30.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-182	9/30/2016	EFF-9	1		P 50050	Flow			NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-183	9/30/2016	EFF-10	1		P 50050	Flow			NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	9/30/2016	EFF-3	1		P 01119	Copper, Total Recoverable			3.2	Report	ug/L	MB - Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	9/30/2016	INT-1	7		P 01119	Copper, Total Recoverable			3.7	Report	ug/L	MB - Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-081	9/30/2016	EFF-8	1		P 50050	Flow			NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-081	9/30/2016	EFF-8	1		P 00530	Solids, Total Suspended			NOD	50.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	9/30/2016	EFF-12	1		P 00600	Nitrogen, Total			16	Report	mg/L	MB - Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	9/30/2016	EFF-12	1		P 00665	Phosphorus, Total (as P)			0.01	Report	mg/L	MB - Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	9/30/2016	EFF-13	1		P 00600	Nitrogen, Total			4.2	Report	mg/L	MB - Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	9/30/2016	EFF-13	1		P 00665	Phosphorus, Total (as P)			0.01	Report	mg/L	MB - Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	9/30/2016	EFF-11	1		P 00600	Nitrogen, Total			4.6	Report	mg/L	MB - Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	9/30/2016	EFF-11	1		P 00665	Phosphorus, Total (as P)			0.02	Report	mg/L	MB - Maximum	

FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-1B2	9/30/2016	EFF-9	1		P 00530	Solids, Total Suspended		NOD	50.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-1B2	9/30/2016	EFF-9	1		P 00400	pH		NOD	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-1B2	9/30/2016	EFF-9	1		P 00400	pH		NOD	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-1B3	9/30/2016	EFF-10	1		P 00530	Solids, Total Suspended		NOD	50.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-1B3	9/30/2016	EFF-10	1		P 00400	pH		NOD	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-1B3	9/30/2016	EFF-10	1		P 00400	pH		NOD	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	8/31/2016	EFF-3	Y		P 50050	Flow	336	380.0	MGD		AB - Annual Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	8/31/2016	EFF-3	1		P 50050	Flow	341	Report	MGD		MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	8/31/2016	EFF-3	1		P 50050	Flow	363	Report	MGD		DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	8/31/2016	EFF-3	1		P 00011	Temperature (F), Water	92.4	99.0	Deg F		MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	8/31/2016	EFF-3	1		P 00011	Temperature (F), Water	95	101.1	Deg F		DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	8/31/2016	EFF-3	1		P 70295	Solids, Total Dissolved (TDS)	MNR	Report	mg/L		DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	8/31/2016	EFF-3	1		P 70295	Solids, Total Dissolved (TDS)	MNR	Report	mg/L		MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	8/31/2016	EFF-3	1		P 00400	pH	MNR	8.5	s.u.		DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	8/31/2016	EFF-3	1		P 00400	pH	MNR	6.5	s.u.		DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	8/31/2016	EFF-3	P		P TRP3E	IC25 Statre 7day Chr Mysid Bahia	MNR	100.0	percent		ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	8/31/2016	EFF-3	Q		P TRP3E	IC25 Statre 7day Chr Mysid Bahia	MNR	100.0	percent		ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	8/31/2016	EFF-3	R		P TRP3E	IC25 Statre 7day Chr Mysid Bahia	MNR	100.0	percent		ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	8/31/2016	EFF-3	P		P TRP6B	IC25 Statre 7day Chr Mendia	MNR	100.0	percent		ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	8/31/2016	EFF-3	Q		P TRP6B	IC25 Statre 7day Chr Mendia	MNR	100.0	percent		ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	8/31/2016	EFF-3	R		P TRP6B	IC25 Statre 7day Chr Mendia	MNR	100.0	percent		ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-0B1	8/31/2016	EFF-8	1		P 00400	pH	NOD	9.0	s.u.		DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-0B1	8/31/2016	EFF-8	1		P 00400	pH	NOD	6.0	s.u.		DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	8/31/2016	EFF-12	1		P 50050	Flow	0.09	Report	MGD		DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	8/31/2016	EFF-12	1		P 50050	Flow	0.05	Report	MGD		MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	8/31/2016	EFF-12	1		P 00556	Oil and Grease	MNR	15.0	mg/L		MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	8/31/2016	EFF-12	1		P 00556	Oil and Grease	MNR	20.0	mg/L		DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	8/31/2016	EFF-12	1		P 00530	Solids, Total Suspended	MNR	100.0	mg/L		DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	8/31/2016	EFF-12	1		P 00530	Solids, Total Suspended	MNR	30.0	mg/L		MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	8/31/2016	EFF-12	1		P 00400	pH	MNR	6.0	s.u.		DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	8/31/2016	EFF-12	1		P 00400	pH	MNR	9.0	s.u.		DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	8/31/2016	EFF-13	1		P 50050	Flow	0.73	Report	MGD		MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	8/31/2016	EFF-13	1		P 50050	Flow	1.02	Report	MGD		DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	8/31/2016	EFF-13	1		P 00400	pH	6.6	6.0	s.u.		DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	8/31/2016	EFF-13	1		P 00400	pH	6.6	9.0	s.u.		DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	8/31/2016	EFF-14	1		P 82220	Flow, Total Volume	NOD	Report	Mgal/mth		DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	8/31/2016	EFF-14	1		P 82220	Flow, Total Volume	NOD	Report	Mgal/mth		MP - Monthly Total	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	8/31/2016	EFF-14	1		P 01119	Copper, Total Recoverable	NOD	1.0	mg/L		DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	8/31/2016	EFF-14	1		P 00980	Iron, Total Recoverable	NOD	1.0	mg/L		DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	8/31/2016	EFF-14	1		P 00556	Oil and Grease	NOD	15.0	mg/L		DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	8/31/2016	EFF-14	1		P 00530	Solids, Total Suspended	NOD	30.0	mg/L		DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	8/31/2016	EFF-7	1		P 50050	Flow	NOD	Report	MGD		DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	8/31/2016	EFF-7	1		P 00556	Oil and Grease	NOD	Report	mg/L		DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	8/31/2016	EFF-7	1		P 00530	Solids, Total Suspended	NOD	50.0	mg/L		DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	8/31/2016	EFF-7	1		P 00070	Turbidity	NOD	Report	NTU		DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	8/31/2016	EFF-7	1		P 00400	pH	NOD	9.0	s.u.		DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	8/31/2016	EFF-7	1		P 00400	pH	NOD	6.0	s.u.		DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	8/31/2016	EFF-11	1		P 50050	Flow	0.6	Report	MGD		MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	8/31/2016	EFF-11	1		P 50050	Flow	0.74	Report	MGD		DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	8/31/2016	EFF-11	Y		P 00530	Solids, Total Suspended	MNR	30.0	mg/L		AB - Annual Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	8/31/2016	EFF-11	1		P 00530	Solids, Total Suspended	MNR	100.0	mg/L		DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	8/31/2016	INT-1	7		P 50050	Flow	179	Report	MGD		MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	8/31/2016	INT-1	7		P 50050	Flow	181	Report	MGD		DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	8/31/2016	EFF-1	1		P 00011	Temperature (F), Water	102.8	Report	Deg F		DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	8/31/2016	EFF-1	1		P 00011	Temperature (F), Water	94.4	Report	Deg F		MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	8/31/2016	INT-1	7		P 00011	Temperature (F), Water	86.8	Report	Deg F		MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	8/31/2016	INT-1	7		P 00011	Temperature (F), Water	91.1	Report	Deg F		DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	8/31/2016	EFF-1	1		P 61576	Temp. Diff. between Intake and Discharge	7.1	13.2	Deg F		MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	8/31/2016	EFF-1	1		P 61576	Temp. Diff. between Intake and Discharge	13.1	Report	Deg F		DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	8/31/2016	EFF-1	1		P 34044	Oxidants, Total Residual	MNR	0.2	mg/L		MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	8/31/2016	EFF-1	7		P 34044	Oxidants, Total Residual	MNR	0.2	mg/L		DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	8/31/2016	INT-3	7		P 78739	Chlorination Duration	0	1440.0	min		DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	8/31/2016	INT-5	P		P 78739	Chlorination Duration	0	120.0	min		DD - Daily Maximum	

FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	8/31/2016	EFF-4	1		P 00400	pH		7.4	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	8/31/2016	EFF-4	1		P 00400	pH		7.6	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	8/31/2016	INT-2	7		P 50050	Flow		162	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	8/31/2016	INT-2	7		P 50050	Flow		181	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	8/31/2016	EFF-2	1		P 00011	Temperature (F), Water		93	Report	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	8/31/2016	EFF-2	1		P 00011	Temperature (F), Water		102.2	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	8/31/2016	INT-2	7		P 00011	Temperature (F), Water		95.5	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	8/31/2016	INT-2	7		P 00011	Temperature (F), Water		87.8	Report	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	8/31/2016	EFF-2	1		P 61576	Temp. Diff. between Intake and Discharge		12.5	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	8/31/2016	EFF-2	1		P 61576	Temp. Diff. between Intake and Discharge		5.7	13.2	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	8/31/2016	EFF-2	1		P 34044	Oxidants, Total Residual		MNR	0.2	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	8/31/2016	EFF-2	1		P 34044	Oxidants, Total Residual		MNR	0.2	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	8/31/2016	INT-4	7		P 78739	Chlorination Duration		0	1440.0	min	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	8/31/2016	INT-6	P		P 78739	Chlorination Duration		0	120.0	min	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	8/31/2016	EFF-4	1		P 00400	pH		7.4	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	8/31/2016	EFF-4	1		P 00400	pH		7.6	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	8/31/2016	EFF-5	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	8/31/2016	EFF-5	1		P 50050	Flow		NOD	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	8/31/2016	EFF-5	1		P 00556	Oil and Grease		NOD	20.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	8/31/2016	EFF-5	1		P 00556	Oil and Grease		NOD	15.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	8/31/2016	EFF-5	1		P 00530	Solids, Total Suspended		NOD	100.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	8/31/2016	EFF-5	1		P 00530	Solids, Total Suspended		NOD	30.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	8/31/2016	EFF-6	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	8/31/2016	EFF-6	1		P 50050	Flow		NOD	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	8/31/2016	EFF-6	1		P 00556	Oil and Grease		NOD	20.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	8/31/2016	EFF-6	1		P 00556	Oil and Grease		NOD	15.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	8/31/2016	EFF-6	1		P 00530	Solids, Total Suspended		NOD	100.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	8/31/2016	EFF-6	1		P 00530	Solids, Total Suspended		NOD	30.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-182	8/31/2016	EFF-9	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-183	8/31/2016	EFF-10	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	7/31/2016	EFF-3	Y		P 50050	Flow		335	380.0	MGD	AB - Annual Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	7/31/2016	EFF-3	1		P 50050	Flow		352	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	7/31/2016	EFF-3	1		P 50050	Flow		363	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	7/31/2016	EFF-3	1		P 00011	Temperature (F), Water		92.3	99.0	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	7/31/2016	EFF-3	1		P 00011	Temperature (F), Water		95.3	101.1	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	7/31/2016	EFF-3	1		P 70295	Solids, Total Dissolved (TDS)		3320	Report	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	7/31/2016	EFF-3	1		P 70295	Solids, Total Dissolved (TDS)		3320	Report	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	7/31/2016	EFF-3	1		P 00400	pH		7.5	8.5	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	7/31/2016	EFF-3	1		P 00400	pH		7.5	6.5	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	7/31/2016	EFF-3	P		P TRP3E	IC25 Statre 7day Chr Mysid Bahia		MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	7/31/2016	EFF-3	Q		P TRP3E	IC25 Statre 7day Chr Mysid Bahia	>	100	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	7/31/2016	EFF-3	R		P TRP3E	IC25 Statre 7day Chr Mysid Bahia	>	100	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	7/31/2016	EFF-3	P		P TRP6B	IC25 Statre 7day Chr Mendia		MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	7/31/2016	EFF-3	Q		P TRP6B	IC25 Statre 7day Chr Mendia	>	100	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	7/31/2016	EFF-3	R		P TRP6B	IC25 Statre 7day Chr Mendia	>	100	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-0B1	7/31/2016	EFF-8	1		P 00400	pH		NOD	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-0B1	7/31/2016	EFF-8	1		P 00400	pH		NOD	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	7/31/2016	EFF-12	1		P 50050	Flow		0.07	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	7/31/2016	EFF-12	1		P 50050	Flow		0.04	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	7/31/2016	EFF-12	1		P 00556	Oil and Grease	<	1.2	15.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	7/31/2016	EFF-12	1		P 00556	Oil and Grease	<	1.2	20.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	7/31/2016	EFF-12	1		P 00530	Solids, Total Suspended		16	30.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	7/31/2016	EFF-12	1		P 00530	Solids, Total Suspended		16	100.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	7/31/2016	EFF-12	1		P 00400	pH		8.5	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	7/31/2016	EFF-12	1		P 00400	pH		6.5	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	7/31/2016	EFF-13	1		P 50050	Flow		0.67	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	7/31/2016	EFF-13	1		P 50050	Flow		0.86	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	7/31/2016	EFF-13	1		P 00400	pH		7.3	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	7/31/2016	EFF-13	1		P 00400	pH		7.3	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	7/31/2016	EFF-14	1		P 82220	Flow, Total Volume		NOD	Report	Mgal/mth	MP - Monthly Total	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	7/31/2016	EFF-14	1		P 82220	Flow, Total Volume		NOD	Report	Mgal/mth	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	7/31/2016	EFF-14	1		P 01119	Copper, Total Recoverable		NOD	1.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	7/31/2016	EFF-14	1		P 00980	Iron, Total Recoverable		NOD	1.0	mg/L	DD - Daily Maximum	

FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	7/31/2016	EFF-14	1		P 00556	Oil and Grease		NOD	15.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	7/31/2016	EFF-14	1		P 00530	Solids, Total Suspended		NOD	30.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	7/31/2016	EFF-7	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	7/31/2016	EFF-7	1		P 00556	Oil and Grease		NOD	Report	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	7/31/2016	EFF-7	1		P 00530	Solids, Total Suspended		NOD	50.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	7/31/2016	EFF-7	1		P 00070	Turbidity		NOD	Report	NTU	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	7/31/2016	EFF-7	1		P 00400	pH		NOD	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	7/31/2016	EFF-7	1		P 00400	pH		NOD	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	7/31/2016	EFF-11	1		P 50050	Flow		0.48	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	7/31/2016	EFF-11	1		P 50050	Flow		0.72	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	7/31/2016	EFF-11	Y		P 00530	Solids, Total Suspended		1.8	30.0	mg/L	AB - Annual Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	7/31/2016	EFF-11	1		P 00530	Solids, Total Suspended		1.5	100.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	7/31/2016	INT-1	7		P 50050	Flow		181	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	7/31/2016	INT-1	7		P 50050	Flow		171	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	7/31/2016	EFF-1	1		P 00011	Temperature (F), Water		104.4	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	7/31/2016	EFF-1	1		P 00011	Temperature (F), Water		91.4	Report	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	7/31/2016	INT-1	7		P 00011	Temperature (F), Water		95.7	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	7/31/2016	INT-1	7		P 00011	Temperature (F), Water		87.6	Report	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	7/31/2016	EFF-1	1		P 61576	Temp. Diff. between Intake and Discharge		3.9	13.2	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	7/31/2016	EFF-1	1		P 61576	Temp. Diff. between Intake and Discharge		13.5	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	7/31/2016	EFF-1	1		P 34044	Oxidants, Total Residual		MNR	0.2	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	7/31/2016	EFF-1	1		P 34044	Oxidants, Total Residual		MNR	0.2	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	7/31/2016	INT-3	7		P 78739	Chlorination Duration		0	1440.0	min	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	7/31/2016	INT-5	P		P 78739	Chlorination Duration		0	120.0	min	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	7/31/2016	EFF-4	1		P 00400	pH		7.6	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	7/31/2016	EFF-4	1		P 00400	pH		7.4	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	7/31/2016	INT-2	7		P 50050	Flow		181	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	7/31/2016	INT-2	7		P 50050	Flow		181	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	7/31/2016	EFF-2	1		P 00011	Temperature (F), Water		94.6	Report	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	7/31/2016	EFF-2	1		P 00011	Temperature (F), Water		103.3	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	7/31/2016	INT-2	7		P 00011	Temperature (F), Water		92	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	7/31/2016	INT-2	7		P 00011	Temperature (F), Water		87.5	Report	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	7/31/2016	EFF-2	1		P 61576	Temp. Diff. between Intake and Discharge		15.3	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	7/31/2016	EFF-2	1		P 61576	Temp. Diff. between Intake and Discharge		7	13.2	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	7/31/2016	EFF-2	1		P 34044	Oxidants, Total Residual		MNR	0.2	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	7/31/2016	EFF-2	1		P 34044	Oxidants, Total Residual		MNR	0.2	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	7/31/2016	INT-4	7		P 78739	Chlorination Duration		0	1440.0	min	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	7/31/2016	INT-6	P		P 78739	Chlorination Duration		0	120.0	min	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	7/31/2016	EFF-4	1		P 00400	pH		7.4	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	7/31/2016	EFF-4	1		P 00400	pH		7.6	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	7/31/2016	EFF-5	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	7/31/2016	EFF-5	1		P 50050	Flow		NOD	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	7/31/2016	EFF-5	1		P 00556	Oil and Grease		NOD	15.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	7/31/2016	EFF-5	1		P 00556	Oil and Grease		NOD	20.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	7/31/2016	EFF-5	1		P 00530	Solids, Total Suspended		NOD	30.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	7/31/2016	EFF-5	1		P 00530	Solids, Total Suspended		NOD	100.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	7/31/2016	EFF-6	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	7/31/2016	EFF-6	1		P 50050	Flow		NOD	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	7/31/2016	EFF-6	1		P 00556	Oil and Grease		NOD	20.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	7/31/2016	EFF-6	1		P 00556	Oil and Grease		NOD	15.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	7/31/2016	EFF-6	1		P 00530	Solids, Total Suspended		NOD	30.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	7/31/2016	EFF-6	1		P 00530	Solids, Total Suspended		NOD	100.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-182	7/31/2016	EFF-9	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-183	7/31/2016	EFF-10	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	6/30/2016	EFF-3	Y		P 50050	Flow		334	380.0	MGD	AB - Annual Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	6/30/2016	EFF-3	1		P 50050	Flow		363	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	6/30/2016	EFF-3	1		P 50050	Flow		351	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	6/30/2016	EFF-3	1		P 00011	Temperature (F), Water		91.7	99.0	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	6/30/2016	EFF-3	1		P 00011	Temperature (F), Water		94.4	101.1	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	6/30/2016	EFF-3	1		P 70295	Solids, Total Dissolved (TDS)		MNR	Report	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	6/30/2016	EFF-3	1		P 70295	Solids, Total Dissolved (TDS)		MNR	Report	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	6/30/2016	EFF-3	1		P 00400	pH		MNR	8.5	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	6/30/2016	EFF-3	1		P 00400	pH		MNR	6.5	s.u.	DC - Daily Minimum	

FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	6/30/2016	EFF-3	P		P TRP3E	IC25 Statre 7day Chr Mysid Bahia		29.1	100.0	percent	ME - Minimum	E
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	6/30/2016	EFF-3	Q		P TRP3E	IC25 Statre 7day Chr Mysid Bahia		MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	6/30/2016	EFF-3	R		P TRP3E	IC25 Statre 7day Chr Mysid Bahia		MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	6/30/2016	EFF-3	P		P TRP6B	IC25 Statre 7day Chr Mendia	>	100	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	6/30/2016	EFF-3	Q		P TRP6B	IC25 Statre 7day Chr Mendia		MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	6/30/2016	EFF-3	R		P TRP6B	IC25 Statre 7day Chr Mendia		MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-0B1	6/30/2016	EFF-8	1		P 00400	pH		NOD	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-0B1	6/30/2016	EFF-8	1		P 00400	pH		NOD	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	6/30/2016	EFF-12	1		P 50050	Flow		0.05	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	6/30/2016	EFF-12	1		P 50050	Flow		0.09	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	6/30/2016	EFF-12	1		P 00556	Oil and Grease		MNR	15.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	6/30/2016	EFF-12	1		P 00556	Oil and Grease		MNR	20.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	6/30/2016	EFF-12	1		P 00530	Solids, Total Suspended		MNR	30.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	6/30/2016	EFF-12	1		P 00530	Solids, Total Suspended		MNR	100.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	6/30/2016	EFF-12	1		P 00400	pH		MNR	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	6/30/2016	EFF-12	1		P 00400	pH		MNR	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	6/30/2016	EFF-13	1		P 50050	Flow		0.81	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	6/30/2016	EFF-13	1		P 50050	Flow		1.21	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	6/30/2016	EFF-13	1		P 00400	pH		7.1	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	6/30/2016	EFF-13	1		P 00400	pH		7.1	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	6/30/2016	EFF-14	1		P 82220	Flow, Total Volume		NOD	Report	Mgal/mth	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	6/30/2016	EFF-14	1		P 82220	Flow, Total Volume		NOD	Report	Mgal/mth	MP - Monthly Total	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	6/30/2016	EFF-14	1		P 01119	Copper, Total Recoverable		NOD	1.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	6/30/2016	EFF-14	1		P 00980	Iron, Total Recoverable		NOD	1.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	6/30/2016	EFF-14	1		P 00556	Oil and Grease		NOD	15.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	6/30/2016	EFF-14	1		P 00530	Solids, Total Suspended		NOD	30.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	6/30/2016	EFF-7	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	6/30/2016	EFF-7	1		P 00556	Oil and Grease		NOD	Report	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	6/30/2016	EFF-7	1		P 00530	Solids, Total Suspended		NOD	50.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	6/30/2016	EFF-7	1		P 00070	Turbidity		NOD	Report	NTU	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	6/30/2016	EFF-7	1		P 00400	pH		NOD	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	6/30/2016	EFF-7	1		P 00400	pH		NOD	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	6/30/2016	EFF-11	1		P 50050	Flow		0.48	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	6/30/2016	EFF-11	1		P 50050	Flow		0.71	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	6/30/2016	EFF-11	Y		P 00530	Solids, Total Suspended		MNR	30.0	mg/L	AB - Annual Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	6/30/2016	EFF-11	1		P 00530	Solids, Total Suspended		MNR	100.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	6/30/2016	INT-1	7		P 50050	Flow		181	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	6/30/2016	INT-1	7		P 50050	Flow		172	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	6/30/2016	EFF-1	1		P 00011	Temperature (F), Water		93.2	Report	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	6/30/2016	EFF-1	1		P 00011	Temperature (F), Water		102.3	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	6/30/2016	INT-1	7		P 00011	Temperature (F), Water		91.3	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	6/30/2016	INT-1	7		P 00011	Temperature (F), Water		86.8	Report	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	6/30/2016	EFF-1	1		P 61576	Temp. Diff. between Intake and Discharge		6.6	13.2	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	6/30/2016	EFF-1	1		P 61576	Temp. Diff. between Intake and Discharge		13.5	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	6/30/2016	EFF-1	1		P 34044	Oxidants, Total Residual		0	0.2	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	6/30/2016	EFF-1	1		P 34044	Oxidants, Total Residual		0	0.2	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	6/30/2016	INT-3	7		P 78739	Chlorination Duration		MNR	1440.0	min	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	6/30/2016	INT-5	P		P 78739	Chlorination Duration		MNR	120.0	min	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	6/30/2016	EFF-4	1		P 00400	pH		7.4	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	6/30/2016	EFF-4	1		P 00400	pH		7.5	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	6/30/2016	INT-2	7		P 50050	Flow		179	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	6/30/2016	INT-2	7		P 50050	Flow		181	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	6/30/2016	EFF-2	1		P 00011	Temperature (F), Water		102.4	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	6/30/2016	EFF-2	1		P 00011	Temperature (F), Water		93.8	Report	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	6/30/2016	INT-2	7		P 00011	Temperature (F), Water		86.2	Report	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	6/30/2016	INT-2	7		P 00011	Temperature (F), Water		90.2	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	6/30/2016	EFF-2	1		P 61576	Temp. Diff. between Intake and Discharge		12.5	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	6/30/2016	EFF-2	1		P 61576	Temp. Diff. between Intake and Discharge		7.3	13.2	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	6/30/2016	EFF-2	1		P 34044	Oxidants, Total Residual		0	0.2	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	6/30/2016	EFF-2	1		P 34044	Oxidants, Total Residual		0	0.2	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	6/30/2016	INT-4	7		P 78739	Chlorination Duration		MNR	1440.0	min	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	6/30/2016	INT-6	P		P 78739	Chlorination Duration		MNR	120.0	min	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	6/30/2016	EFF-4	1		P 00400	pH		7.4	6.0	s.u.	DC - Daily Minimum	

FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	6/30/2016	EFF-4	1		P 00400	pH		7.5	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	6/30/2016	EFF-5	1		P 50050	Flow		NOD	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	6/30/2016	EFF-5	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	6/30/2016	EFF-5	1		P 00556	Oil and Grease		NOD	20.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	6/30/2016	EFF-5	1		P 00556	Oil and Grease		NOD	15.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	6/30/2016	EFF-5	1		P 00530	Solids, Total Suspended		NOD	100.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	6/30/2016	EFF-5	1		P 00530	Solids, Total Suspended		NOD	30.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	6/30/2016	EFF-6	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	6/30/2016	EFF-6	1		P 50050	Flow		NOD	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	6/30/2016	EFF-6	1		P 00556	Oil and Grease		NOD	15.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	6/30/2016	EFF-6	1		P 00556	Oil and Grease		NOD	20.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	6/30/2016	EFF-6	1		P 00530	Solids, Total Suspended		NOD	100.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	6/30/2016	EFF-6	1		P 00530	Solids, Total Suspended		NOD	30.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-182	6/30/2016	EFF-9	1		P 50050	Flow		0.0001	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-183	6/30/2016	EFF-10	1		P 50050	Flow		0.00003	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	6/30/2016	EFF-3	1		P 01119	Copper, Total Recoverable		7.5	Report	ug/L	MB - Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	6/30/2016	INT-1	7		P 01119	Copper, Total Recoverable		6.8	Report	ug/L	MB - Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-0B1	6/30/2016	EFF-8	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-0B1	6/30/2016	EFF-8	1		P 00530	Solids, Total Suspended		NOD	50.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	6/30/2016	EFF-12	1		P 00600	Nitrogen, Total		16	Report	mg/L	MB - Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	6/30/2016	EFF-12	1		P 00665	Phosphorus, Total (as P)		0.01	Report	mg/L	MB - Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	6/30/2016	EFF-13	1		P 00600	Nitrogen, Total		6.1	Report	mg/L	MB - Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	6/30/2016	EFF-13	1		P 00665	Phosphorus, Total (as P)		0.02	Report	mg/L	MB - Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	6/30/2016	EFF-11	1		P 00600	Nitrogen, Total		4.3	Report	mg/L	MB - Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	6/30/2016	EFF-11	1		P 00665	Phosphorus, Total (as P)		0.03	Report	mg/L	MB - Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-182	6/30/2016	EFF-9	1		P 00530	Solids, Total Suspended	<	3	50.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-182	6/30/2016	EFF-9	1		P 00400	pH		7.3	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-182	6/30/2016	EFF-9	1		P 00400	pH		7.3	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-183	6/30/2016	EFF-10	1		P 00530	Solids, Total Suspended	<	3	50.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-183	6/30/2016	EFF-10	1		P 00400	pH		7.6	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-183	6/30/2016	EFF-10	1		P 00400	pH		7.6	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	6/30/2016	EFF-13	1		P 00556	Oil and Grease	<	1	15.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	6/30/2016	EFF-13	1		P 00556	Oil and Grease	<	1	20.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	6/30/2016	EFF-13	1		P 00530	Solids, Total Suspended	<	3	30.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	6/30/2016	EFF-13	1		P 00530	Solids, Total Suspended	<	3	100.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	6/30/2016	EFF-11	1		P 00556	Oil and Grease	<	1.2	20.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	6/30/2016	EFF-11	1		P 00556	Oil and Grease	<	1.2	15.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	5/31/2016	EFF-3	Y		P 50050	Flow		332	380.0	MGD	AB - Annual Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	5/31/2016	EFF-3	1		P 50050	Flow		364	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	5/31/2016	EFF-3	1		P 50050	Flow		347	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	5/31/2016	EFF-3	P		P 00011	Temperature (F), Water		88.4	96.0	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	5/31/2016	EFF-3	P		P 00011	Temperature (F), Water		92.3	99.0	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	5/31/2016	EFF-3	1		P 70295	Solids, Total Dissolved (TDS)		10800	Report	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	5/31/2016	EFF-3	1		P 70295	Solids, Total Dissolved (TDS)		10800	Report	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	5/31/2016	EFF-3	1		P 00400	pH		7.6	6.5	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	5/31/2016	EFF-3	1		P 00400	pH		7.6	8.5	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	5/31/2016	EFF-3	P		P TRP3E	IC25 Statre 7day Chr Mysid Bahia		MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	5/31/2016	EFF-3	Q		P TRP3E	IC25 Statre 7day Chr Mysid Bahia		MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	5/31/2016	EFF-3	R		P TRP3E	IC25 Statre 7day Chr Mysid Bahia		MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	5/31/2016	EFF-3	P		P TRP6B	IC25 Statre 7day Chr Mendia		MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	5/31/2016	EFF-3	Q		P TRP6B	IC25 Statre 7day Chr Mendia		MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	5/31/2016	EFF-3	R		P TRP6B	IC25 Statre 7day Chr Mendia		MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-0B1	5/31/2016	EFF-8	1		P 00400	pH		NOD	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-0B1	5/31/2016	EFF-8	1		P 00400	pH		NOD	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	5/31/2016	EFF-12	1		P 50050	Flow		0.03	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	5/31/2016	EFF-12	1		P 50050	Flow		0.05	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	5/31/2016	EFF-12	1		P 00556	Oil and Grease	<	1	15.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	5/31/2016	EFF-12	1		P 00556	Oil and Grease	<	1	20.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	5/31/2016	EFF-12	1		P 00530	Solids, Total Suspended		3	30.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	5/31/2016	EFF-12	1		P 00530	Solids, Total Suspended		3	100.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	5/31/2016	EFF-12	1		P 00400	pH		8.3	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	5/31/2016	EFF-12	1		P 00400	pH		7	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	5/31/2016	EFF-13	1		P 50050	Flow		0.72	Report	MGD	MK - Monthly Average	

FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	5/31/2016	EFF-13	1		P 50050	Flow		0.98	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	5/31/2016	EFF-13	1		P 00400	pH		7.4	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	5/31/2016	EFF-13	1		P 00400	pH		7.4	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	5/31/2016	EFF-14	1		P 82220	Flow, Total Volume		NOD	Report	Mgal/mth	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	5/31/2016	EFF-14	1		P 82220	Flow, Total Volume		NOD	Report	Mgal/mth	MP - Monthly Total	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	5/31/2016	EFF-14	1		P 01119	Copper, Total Recoverable		NOD	1.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	5/31/2016	EFF-14	1		P 00980	Iron, Total Recoverable		NOD	1.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	5/31/2016	EFF-14	1		P 00556	Oil and Grease		NOD	15.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	5/31/2016	EFF-14	1		P 00530	Solids, Total Suspended		NOD	30.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	5/31/2016	EFF-7	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	5/31/2016	EFF-7	1		P 00556	Oil and Grease		NOD	Report	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	5/31/2016	EFF-7	1		P 00530	Solids, Total Suspended		NOD	50.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	5/31/2016	EFF-7	1		P 00070	Turbidity		NOD	Report	NTU	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	5/31/2016	EFF-7	1		P 00400	pH		NOD	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	5/31/2016	EFF-7	1		P 00400	pH		NOD	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	5/31/2016	EFF-11	1		P 50050	Flow		0.42	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	5/31/2016	EFF-11	1		P 50050	Flow		0.59	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	5/31/2016	EFF-11	Y		P 00530	Solids, Total Suspended		1.8	30.0	mg/L	AB - Annual Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	5/31/2016	EFF-11	1		P 00530	Solids, Total Suspended		1.5	100.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	5/31/2016	INT-1	7		P 50050	Flow		183	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	5/31/2016	INT-1	7		P 50050	Flow		173	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	5/31/2016	EFF-1	1		P 00011	Temperature (F), Water		90.5	Report	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	5/31/2016	EFF-1	1		P 00011	Temperature (F), Water		100.4	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	5/31/2016	INT-1	7		P 00011	Temperature (F), Water		84.7	Report	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	5/31/2016	INT-1	7		P 00011	Temperature (F), Water		90.3	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	5/31/2016	EFF-1	1		P 61576	Temp. Diff. between Intake and Discharge		13.1	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	5/31/2016	EFF-1	1		P 61576	Temp. Diff. between Intake and Discharge		5.9	13.2	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	5/31/2016	EFF-1	1		P 34044	Oxidants, Total Residual		MNR	0.2	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	5/31/2016	EFF-1	1		P 34044	Oxidants, Total Residual		MNR	0.2	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	5/31/2016	INT-3	7		P 78739	Chlorination Duration		0	1440.0	min	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	5/31/2016	INT-5	P		P 78739	Chlorination Duration		0	120.0	min	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	5/31/2016	EFF-4	1		P 00400	pH		7.3	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	5/31/2016	EFF-4	1		P 00400	pH		7.5	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	5/31/2016	INT-2	7		P 50050	Flow		175	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	5/31/2016	INT-2	7		P 50050	Flow		181	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	5/31/2016	EFF-2	1		P 00011	Temperature (F), Water		89.8	Report	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	5/31/2016	EFF-2	1		P 00011	Temperature (F), Water		100.1	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	5/31/2016	INT-2	7		P 00011	Temperature (F), Water		84.3	Report	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	5/31/2016	INT-2	7		P 00011	Temperature (F), Water		89	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	5/31/2016	EFF-2	1		P 61576	Temp. Diff. between Intake and Discharge		5.3	13.2	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	5/31/2016	EFF-2	1		P 61576	Temp. Diff. between Intake and Discharge		12.5	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	5/31/2016	EFF-2	1		P 34044	Oxidants, Total Residual		MNR	0.2	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	5/31/2016	EFF-2	1		P 34044	Oxidants, Total Residual		MNR	0.2	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	5/31/2016	INT-4	7		P 78739	Chlorination Duration		0	1440.0	min	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	5/31/2016	INT-6	P		P 78739	Chlorination Duration		0	120.0	min	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	5/31/2016	EFF-4	1		P 00400	pH		7.5	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	5/31/2016	EFF-4	1		P 00400	pH		7.3	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	5/31/2016	EFF-5	1		P 50050	Flow		NOD	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	5/31/2016	EFF-5	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	5/31/2016	EFF-5	1		P 00556	Oil and Grease		NOD	15.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	5/31/2016	EFF-5	1		P 00556	Oil and Grease		NOD	20.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	5/31/2016	EFF-5	1		P 00530	Solids, Total Suspended		NOD	100.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	5/31/2016	EFF-5	1		P 00530	Solids, Total Suspended		NOD	30.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	5/31/2016	EFF-6	1		P 50050	Flow		NOD	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	5/31/2016	EFF-6	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	5/31/2016	EFF-6	1		P 00556	Oil and Grease		NOD	20.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	5/31/2016	EFF-6	1		P 00556	Oil and Grease		NOD	15.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	5/31/2016	EFF-6	1		P 00530	Solids, Total Suspended		NOD	30.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	5/31/2016	EFF-6	1		P 00530	Solids, Total Suspended		NOD	100.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-182	5/31/2016	EFF-9	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-183	5/31/2016	EFF-10	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	4/30/2016	EFF-3	Y		P 50050	Flow		330	380.0	MGD	AB - Annual Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	4/30/2016	EFF-3	1		P 50050	Flow		336	Report	MGD	MK - Monthly Average	

FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	4/30/2016	EFF-3	1		P 50050	Flow		363	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	4/30/2016	EFF-3	P		P 00011	Temperature (F), Water		88	99.0	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	4/30/2016	EFF-3	P		P 00011	Temperature (F), Water		84.3	96.0	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	4/30/2016	EFF-3	1		P 70295	Solids, Total Dissolved (TDS)		MNR	Report	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	4/30/2016	EFF-3	1		P 70295	Solids, Total Dissolved (TDS)		MNR	Report	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	4/30/2016	EFF-3	1		P 00400	pH		MNR	8.5	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	4/30/2016	EFF-3	1		P 00400	pH		MNR	6.5	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	4/30/2016	EFF-3	P		P TRP3E	IC25 Statre 7day Chr Mysid Bahia		MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	4/30/2016	EFF-3	Q		P TRP3E	IC25 Statre 7day Chr Mysid Bahia		MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	4/30/2016	EFF-3	R		P TRP3E	IC25 Statre 7day Chr Mysid Bahia		MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	4/30/2016	EFF-3	P		P TRP6B	IC25 Statre 7day Chr Mendia		MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	4/30/2016	EFF-3	Q		P TRP6B	IC25 Statre 7day Chr Mendia		MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	4/30/2016	EFF-3	R		P TRP6B	IC25 Statre 7day Chr Mendia		MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-0B1	4/30/2016	EFF-8	1		P 00400	pH		NOD	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-0B1	4/30/2016	EFF-8	1		P 00400	pH		NOD	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	4/30/2016	EFF-12	1		P 50050	Flow		0.09	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	4/30/2016	EFF-12	1		P 50050	Flow		0.04	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	4/30/2016	EFF-12	1		P 00556	Oil and Grease		MNR	20.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	4/30/2016	EFF-12	1		P 00556	Oil and Grease		MNR	15.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	4/30/2016	EFF-12	1		P 00530	Solids, Total Suspended		MNR	30.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	4/30/2016	EFF-12	1		P 00530	Solids, Total Suspended		MNR	100.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	4/30/2016	EFF-12	1		P 00400	pH		MNR	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	4/30/2016	EFF-12	1		P 00400	pH		MNR	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	4/30/2016	EFF-13	1		P 50050	Flow		0.93	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	4/30/2016	EFF-13	1		P 50050	Flow		0.51	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	4/30/2016	EFF-13	1		P 00400	pH		7.7	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	4/30/2016	EFF-13	1		P 00400	pH		7.7	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	4/30/2016	EFF-14	1		P 82220	Flow, Total Volume		NOD	Report	Mgal/mth	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	4/30/2016	EFF-14	1		P 82220	Flow, Total Volume		NOD	Report	Mgal/mth	MP - Monthly Total	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	4/30/2016	EFF-14	1		P 01119	Copper, Total Recoverable		NOD	1.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	4/30/2016	EFF-14	1		P 00980	Iron, Total Recoverable		NOD	1.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	4/30/2016	EFF-14	1		P 00556	Oil and Grease		NOD	15.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	4/30/2016	EFF-14	1		P 00530	Solids, Total Suspended		NOD	30.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	4/30/2016	EFF-7	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	4/30/2016	EFF-7	1		P 00556	Oil and Grease		NOD	Report	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	4/30/2016	EFF-7	1		P 00530	Solids, Total Suspended		NOD	50.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	4/30/2016	EFF-7	1		P 00070	Turbidity		NOD	Report	NTU	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	4/30/2016	EFF-7	1		P 00400	pH		NOD	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	4/30/2016	EFF-7	1		P 00400	pH		NOD	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	4/30/2016	EFF-11	1		P 50050	Flow		0.61	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	4/30/2016	EFF-11	1		P 50050	Flow		0.42	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	4/30/2016	EFF-11	Y		P 00530	Solids, Total Suspended		MNR	30.0	mg/L	AB - Annual Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	4/30/2016	EFF-11	1		P 00530	Solids, Total Suspended		MNR	100.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	4/30/2016	INT-1	7		P 50050	Flow		181	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	4/30/2016	INT-1	7		P 50050	Flow		165	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	4/30/2016	EFF-1	1		P 00011	Temperature (F), Water		98	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	4/30/2016	EFF-1	1		P 00011	Temperature (F), Water		86.2	Report	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	4/30/2016	INT-1	7		P 00011	Temperature (F), Water		80.4	Report	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	4/30/2016	INT-1	7		P 00011	Temperature (F), Water		87.2	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	4/30/2016	EFF-1	1		P 61576	Temp. Diff. between Intake and Discharge		13.3	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	4/30/2016	EFF-1	1		P 61576	Temp. Diff. between Intake and Discharge		5.9	13.2	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	4/30/2016	EFF-1	1		P 34044	Oxidants, Total Residual		MNR	0.2	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	4/30/2016	EFF-1	1		P 34044	Oxidants, Total Residual		MNR	0.2	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	4/30/2016	INT-3	7		P 78739	Chlorination Duration		0	1440.0	min	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	4/30/2016	INT-5	P		P 78739	Chlorination Duration		0	120.0	min	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	4/30/2016	EFF-4	1		P 00400	pH		7.6	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	4/30/2016	EFF-4	1		P 00400	pH		7.4	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	4/30/2016	INT-2	7		P 50050	Flow		171	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	4/30/2016	INT-2	7		P 50050	Flow		181	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	4/30/2016	EFF-2	1		P 00011	Temperature (F), Water		86.5	Report	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	4/30/2016	EFF-2	1		P 00011	Temperature (F), Water		98.4	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	4/30/2016	INT-2	7		P 00011	Temperature (F), Water		80.1	Report	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	4/30/2016	INT-2	7		P 00011	Temperature (F), Water		85.6	Report	Deg F	DD - Daily Maximum	

FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	4/30/2016	EFF-2	1		P 61576	Temp. Diff. between Intake and Discharge		12.7	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	4/30/2016	EFF-2	1		P 61576	Temp. Diff. between Intake and Discharge		6.2	13.2	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	4/30/2016	EFF-2	1		P 34044	Oxidants, Total Residual		MNR	0.2	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	4/30/2016	EFF-2	1		P 34044	Oxidants, Total Residual		MNR	0.2	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	4/30/2016	INT-4	7		P 78739	Chlorination Duration		0	1440.0	min	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	4/30/2016	INT-6	P		P 78739	Chlorination Duration		0	120.0	min	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	4/30/2016	EFF-4	1		P 00400	pH		7.6	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	4/30/2016	EFF-4	1		P 00400	pH		7.4	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	4/30/2016	EFF-5	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	4/30/2016	EFF-5	1		P 50050	Flow		NOD	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	4/30/2016	EFF-5	1		P 00556	Oil and Grease		NOD	20.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	4/30/2016	EFF-5	1		P 00556	Oil and Grease		NOD	15.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	4/30/2016	EFF-5	1		P 00530	Solids, Total Suspended		NOD	30.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	4/30/2016	EFF-5	1		P 00530	Solids, Total Suspended		NOD	100.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	4/30/2016	EFF-6	1		P 50050	Flow		NOD	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	4/30/2016	EFF-6	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	4/30/2016	EFF-6	1		P 00556	Oil and Grease		NOD	20.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	4/30/2016	EFF-6	1		P 00556	Oil and Grease		NOD	15.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	4/30/2016	EFF-6	1		P 00530	Solids, Total Suspended		NOD	30.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	4/30/2016	EFF-6	1		P 00530	Solids, Total Suspended		NOD	100.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-182	4/30/2016	EFF-9	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-183	4/30/2016	EFF-10	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	3/31/2016	EFF-3	Y		P 50050	Flow		329	380.0	MGD	AB - Annual Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	3/31/2016	EFF-3	1		P 50050	Flow		365	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	3/31/2016	EFF-3	1		P 50050	Flow		326	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	3/31/2016	EFF-3	P		P 00011	Temperature (F), Water		81	96.0	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	3/31/2016	EFF-3	P		P 00011	Temperature (F), Water		87.4	99.0	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	3/31/2016	EFF-3	1		P 70295	Solids, Total Dissolved (TDS)		1370	Report	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	3/31/2016	EFF-3	1		P 70295	Solids, Total Dissolved (TDS)		1370	Report	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	3/31/2016	EFF-3	1		P 00400	pH		7.6	6.5	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	3/31/2016	EFF-3	1		P 00400	pH		7.6	8.5	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	3/31/2016	EFF-3	P		P TRP3E	IC25 Statre 7day Chr Mysid Bahia		MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	3/31/2016	EFF-3	Q		P TRP3E	IC25 Statre 7day Chr Mysid Bahia		MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	3/31/2016	EFF-3	R		P TRP3E	IC25 Statre 7day Chr Mysid Bahia		MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	3/31/2016	EFF-3	P		P TRP6B	IC25 Statre 7day Chr Mendia		MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	3/31/2016	EFF-3	Q		P TRP6B	IC25 Statre 7day Chr Mendia		MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	3/31/2016	EFF-3	R		P TRP6B	IC25 Statre 7day Chr Mendia		MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-081	3/31/2016	EFF-8	1		P 00400	pH		NOD	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-081	3/31/2016	EFF-8	1		P 00400	pH		NOD	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	3/31/2016	EFF-12	1		P 50050	Flow		0.04	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	3/31/2016	EFF-12	1		P 50050	Flow		0.07	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	3/31/2016	EFF-12	1		P 00556	Oil and Grease	<	1	20.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	3/31/2016	EFF-12	1		P 00556	Oil and Grease	<	1	15.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	3/31/2016	EFF-12	1		P 00530	Solids, Total Suspended	<	3	100.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	3/31/2016	EFF-12	1		P 00530	Solids, Total Suspended	<	3	30.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	3/31/2016	EFF-12	1		P 00400	pH		6.6	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	3/31/2016	EFF-12	1		P 00400	pH		8.3	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	3/31/2016	EFF-13	1		P 50050	Flow		0.5	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	3/31/2016	EFF-13	1		P 50050	Flow		0.67	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	3/31/2016	EFF-13	1		P 00400	pH		7.6	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	3/31/2016	EFF-13	1		P 00400	pH		7.6	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	3/31/2016	EFF-14	1		P 82220	Flow, Total Volume		NOD	Report	Mgal/mth	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	3/31/2016	EFF-14	1		P 82220	Flow, Total Volume		NOD	Report	Mgal/mth	MP - Monthly Total	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	3/31/2016	EFF-14	1		P 01119	Copper, Total Recoverable		NOD	1.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	3/31/2016	EFF-14	1		P 00980	Iron, Total Recoverable		NOD	1.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	3/31/2016	EFF-14	1		P 00556	Oil and Grease		NOD	15.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	3/31/2016	EFF-14	1		P 00530	Solids, Total Suspended		NOD	30.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	3/31/2016	EFF-7	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	3/31/2016	EFF-7	1		P 00556	Oil and Grease		NOD	Report	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	3/31/2016	EFF-7	1		P 00530	Solids, Total Suspended		NOD	50.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	3/31/2016	EFF-7	1		P 00070	Turbidity		NOD	Report	NTU	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	3/31/2016	EFF-7	1		P 00400	pH		NOD	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	3/31/2016	EFF-7	1		P 00400	pH		NOD	9.0	s.u.	DD - Daily Maximum	

FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	3/31/2016	EFF-11	1		P 50050	Flow		0.4	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	3/31/2016	EFF-11	1		P 50050	Flow		0.64	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	3/31/2016	EFF-11	Y		P 00530	Solids, Total Suspended		1.9	30.0	mg/L	AB - Annual Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	3/31/2016	EFF-11	1		P 00530	Solids, Total Suspended		1.5	100.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	3/31/2016	INT-1	7		P 50050	Flow		166	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	3/31/2016	INT-1	7		P 50050	Flow		184	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	3/31/2016	EFF-1	1		P 00011	Temperature (F), Water		84.3	Report	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	3/31/2016	EFF-1	1		P 00011	Temperature (F), Water		94.5	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	3/31/2016	INT-1	7		P 00011	Temperature (F), Water		77.2	Report	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	3/31/2016	INT-1	7		P 00011	Temperature (F), Water		82.6	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	3/31/2016	EFF-1	1		P 61576	Temp. Diff. between Intake and Discharge		14.3	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	3/31/2016	EFF-1	1		P 61576	Temp. Diff. between Intake and Discharge		7.4	13.2	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	3/31/2016	EFF-1	1		P 34044	Oxidants, Total Residual		MNR	0.2	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	3/31/2016	EFF-1	1		P 34044	Oxidants, Total Residual		MNR	0.2	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	3/31/2016	INT-3	7		P 78739	Chlorination Duration		0	1440.0	min	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	3/31/2016	INT-5	P		P 78739	Chlorination Duration		0	120.0	min	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	3/31/2016	EFF-4	1		P 00400	pH		7.4	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	3/31/2016	EFF-4	1		P 00400	pH		7.5	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	3/31/2016	INT-2	7		P 50050	Flow		160	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	3/31/2016	INT-2	7		P 50050	Flow		182	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	3/31/2016	EFF-2	1		P 00011	Temperature (F), Water		94.2	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	3/31/2016	EFF-2	1		P 00011	Temperature (F), Water		82.9	Report	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	3/31/2016	INT-2	7		P 00011	Temperature (F), Water		76.8	Report	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	3/31/2016	INT-2	7		P 00011	Temperature (F), Water		82.4	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	3/31/2016	EFF-2	1		P 61576	Temp. Diff. between Intake and Discharge		12.8	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	3/31/2016	EFF-2	1		P 61576	Temp. Diff. between Intake and Discharge		5.9	13.2	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	3/31/2016	EFF-2	1		P 34044	Oxidants, Total Residual		MNR	0.2	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	3/31/2016	EFF-2	1		P 34044	Oxidants, Total Residual		MNR	0.2	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	3/31/2016	INT-4	7		P 78739	Chlorination Duration		0	1440.0	min	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	3/31/2016	INT-6	P		P 78739	Chlorination Duration		0	120.0	min	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	3/31/2016	EFF-4	1		P 00400	pH		7.5	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	3/31/2016	EFF-4	1		P 00400	pH		7.4	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	3/31/2016	EFF-5	1		P 50050	Flow		NOD	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	3/31/2016	EFF-5	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	3/31/2016	EFF-5	1		P 00556	Oil and Grease		NOD	15.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	3/31/2016	EFF-5	1		P 00556	Oil and Grease		NOD	20.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	3/31/2016	EFF-5	1		P 00530	Solids, Total Suspended		NOD	30.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	3/31/2016	EFF-5	1		P 00530	Solids, Total Suspended		NOD	100.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	3/31/2016	EFF-6	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	3/31/2016	EFF-6	1		P 50050	Flow		NOD	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	3/31/2016	EFF-6	1		P 00556	Oil and Grease		NOD	15.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	3/31/2016	EFF-6	1		P 00556	Oil and Grease		NOD	20.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	3/31/2016	EFF-6	1		P 00530	Solids, Total Suspended		NOD	100.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	3/31/2016	EFF-6	1		P 00530	Solids, Total Suspended		NOD	30.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-182	3/31/2016	EFF-9	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-183	3/31/2016	EFF-10	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	3/31/2016	EFF-3	1		P 01119	Copper, Total Recoverable		5.3	Report	ug/L	MB - Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	3/31/2016	INT-1	7		P 01119	Copper, Total Recoverable		5	Report	ug/L	MB - Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-0B1	3/31/2016	EFF-8	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-0B1	3/31/2016	EFF-8	1		P 00530	Solids, Total Suspended		NOD	50.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	3/31/2016	EFF-12	1		P 00600	Nitrogen, Total		6.8	Report	mg/L	MB - Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	3/31/2016	EFF-12	1		P 00665	Phosphorus, Total (as P)		0.02	Report	mg/L	MB - Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	3/31/2016	EFF-13	1		P 00600	Nitrogen, Total		3.1	Report	mg/L	MB - Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	3/31/2016	EFF-13	1		P 00665	Phosphorus, Total (as P)		0.01	Report	mg/L	MB - Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	3/31/2016	EFF-11	1		P 00600	Nitrogen, Total		3.7	Report	mg/L	MB - Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	3/31/2016	EFF-11	1		P 00665	Phosphorus, Total (as P)		0.03	Report	mg/L	MB - Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-182	3/31/2016	EFF-9	1		P 00530	Solids, Total Suspended		NOD	50.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-182	3/31/2016	EFF-9	1		P 00400	pH		NOD	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-182	3/31/2016	EFF-9	1		P 00400	pH		NOD	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-183	3/31/2016	EFF-10	1		P 00530	Solids, Total Suspended		NOD	50.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-183	3/31/2016	EFF-10	1		P 00400	pH		NOD	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-183	3/31/2016	EFF-10	1		P 00400	pH		NOD	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	2/29/2016	EFF-3	Y		P 50050	Flow		330	380.0	MGD	AB - Annual Average	

FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	2/29/2016	EFF-3	1		P 50050	Flow		249	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	2/29/2016	EFF-3	1		P 50050	Flow		363	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	2/29/2016	EFF-3	P		P 00011	Temperature (F), Water		79.8	99.0	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	2/29/2016	EFF-3	P		P 00011	Temperature (F), Water		75.6	96.0	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	2/29/2016	EFF-3	1		P 70295	Solids, Total Dissolved (TDS)		MNR	Report	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	2/29/2016	EFF-3	1		P 70295	Solids, Total Dissolved (TDS)		MNR	Report	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	2/29/2016	EFF-3	1		P 00400	pH		MNR	6.5	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	2/29/2016	EFF-3	1		P 00400	pH		MNR	8.5	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	2/29/2016	EFF-3	P		P TRP3E	IC25 Statre 7day Chr Mysid Bahia		MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	2/29/2016	EFF-3	Q		P TRP3E	IC25 Statre 7day Chr Mysid Bahia		MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	2/29/2016	EFF-3	R		P TRP3E	IC25 Statre 7day Chr Mysid Bahia		MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	2/29/2016	EFF-3	P		P TRP6B	IC25 Statre 7day Chr Mendia		MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	2/29/2016	EFF-3	Q		P TRP6B	IC25 Statre 7day Chr Mendia		MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	2/29/2016	EFF-3	R		P TRP6B	IC25 Statre 7day Chr Mendia		MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-0B1	2/29/2016	EFF-8	1		P 00400	pH		NOD	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-0B1	2/29/2016	EFF-8	1		P 00400	pH		NOD	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	2/29/2016	EFF-12	1		P 50050	Flow		0.07	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	2/29/2016	EFF-12	1		P 50050	Flow		0.04	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	2/29/2016	EFF-12	1		P 00556	Oil and Grease		MNR	15.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	2/29/2016	EFF-12	1		P 00556	Oil and Grease		MNR	20.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	2/29/2016	EFF-12	1		P 00530	Solids, Total Suspended		MNR	30.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	2/29/2016	EFF-12	1		P 00530	Solids, Total Suspended		MNR	100.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	2/29/2016	EFF-12	1		P 00400	pH		MNR	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	2/29/2016	EFF-12	1		P 00400	pH		MNR	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	2/29/2016	EFF-13	1		P 50050	Flow		0.75	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	2/29/2016	EFF-13	1		P 50050	Flow		0.44	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	2/29/2016	EFF-13	1		P 00400	pH		7.5	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	2/29/2016	EFF-13	1		P 00400	pH		7.5	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	2/29/2016	EFF-14	1		P 82220	Flow, Total Volume		NOD	Report	Mgal/mth	MP - Monthly Total	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	2/29/2016	EFF-14	1		P 82220	Flow, Total Volume		NOD	Report	Mgal/mth	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	2/29/2016	EFF-14	1		P 01119	Copper, Total Recoverable		NOD	1.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	2/29/2016	EFF-14	1		P 00980	Iron, Total Recoverable		NOD	1.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	2/29/2016	EFF-14	1		P 00556	Oil and Grease		NOD	15.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	2/29/2016	EFF-14	1		P 00530	Solids, Total Suspended		NOD	30.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	2/29/2016	EFF-7	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	2/29/2016	EFF-7	1		P 00556	Oil and Grease		NOD	Report	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	2/29/2016	EFF-7	1		P 00530	Solids, Total Suspended		NOD	50.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	2/29/2016	EFF-7	1		P 00070	Turbidity		NOD	Report	NTU	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	2/29/2016	EFF-7	1		P 00400	pH		NOD	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	2/29/2016	EFF-7	1		P 00400	pH		NOD	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	2/29/2016	EFF-11	1		P 50050	Flow		0.52	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	2/29/2016	EFF-11	1		P 50050	Flow		0.31	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	2/29/2016	EFF-11	Y		P 00530	Solids, Total Suspended		MNR	30.0	mg/L	AB - Annual Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	2/29/2016	EFF-11	1		P 00530	Solids, Total Suspended		MNR	100.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	2/29/2016	INT-1	7		P 50050	Flow		181	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	2/29/2016	INT-1	7		P 50050	Flow		132	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	2/29/2016	EFF-1	1		P 00011	Temperature (F), Water		88.5	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	2/29/2016	EFF-1	1		P 00011	Temperature (F), Water		77.3	Report	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	2/29/2016	INT-1	7		P 00011	Temperature (F), Water		71.5	Report	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	2/29/2016	INT-1	7		P 00011	Temperature (F), Water		82.6	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	2/29/2016	EFF-1	1		P 61576	Temp. Diff. between Intake and Discharge		15.3	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	2/29/2016	EFF-1	1		P 61576	Temp. Diff. between Intake and Discharge		5.8	13.2	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	2/29/2016	EFF-1	1		P 34044	Oxidants, Total Residual		MNR	0.2	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	2/29/2016	EFF-1	1		P 34044	Oxidants, Total Residual		MNR	0.2	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	2/29/2016	INT-3	7		P 78739	Chlorination Duration		0	1440.0	min	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	2/29/2016	INT-5	P		P 78739	Chlorination Duration		0	120.0	min	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	2/29/2016	EFF-4	1		P 00400	pH		7.5	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	2/29/2016	EFF-4	1		P 00400	pH		7.4	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	2/29/2016	INT-2	7		P 50050	Flow		181	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	2/29/2016	INT-2	7		P 50050	Flow		117	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	2/29/2016	EFF-2	1		P 00011	Temperature (F), Water		75.5	Report	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	2/29/2016	EFF-2	1		P 00011	Temperature (F), Water		88.4	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	2/29/2016	INT-2	7		P 00011	Temperature (F), Water		71.6	Report	Deg F	MK - Monthly Average	

FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	2/29/2016	INT-2	7		P 00011	Temperature (F), Water		80	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	2/29/2016	EFF-2	1		P 61576	Temp. Diff. between Intake and Discharge		4	13.2	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	2/29/2016	EFF-2	1		P 61576	Temp. Diff. between Intake and Discharge		12.8		Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	2/29/2016	EFF-2	1		P 34044	Oxidants, Total Residual		MNR	0.2	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	2/29/2016	EFF-2	1		P 34044	Oxidants, Total Residual		MNR	0.2	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	2/29/2016	INT-4	7		P 78739	Chlorination Duration		0	1440.0	min	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	2/29/2016	INT-6	P		P 78739	Chlorination Duration		0	120.0	min	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	2/29/2016	EFF-4	1		P 00400	pH		7.5	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	2/29/2016	EFF-4	1		P 00400	pH		7.4	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	2/29/2016	EFF-5	1		P 50050	Flow		NOD		Report	MGD	DD - Daily Maximum
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	2/29/2016	EFF-5	1		P 50050	Flow		NOD		Report	MGD	MK - Monthly Average
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	2/29/2016	EFF-5	1		P 00556	Oil and Grease		NOD	20.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	2/29/2016	EFF-5	1		P 00556	Oil and Grease		NOD	15.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	2/29/2016	EFF-5	1		P 00530	Solids, Total Suspended		NOD	100.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	2/29/2016	EFF-5	1		P 00530	Solids, Total Suspended		NOD	30.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	2/29/2016	EFF-6	1		P 50050	Flow		NOD		Report	MGD	MK - Monthly Average
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	2/29/2016	EFF-6	1		P 50050	Flow		NOD		Report	MGD	DD - Daily Maximum
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	2/29/2016	EFF-6	1		P 00556	Oil and Grease		NOD	20.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	2/29/2016	EFF-6	1		P 00556	Oil and Grease		NOD	15.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	2/29/2016	EFF-6	1		P 00530	Solids, Total Suspended		NOD	30.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	2/29/2016	EFF-6	1		P 00530	Solids, Total Suspended		NOD	100.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-182	2/29/2016	EFF-9	1		P 50050	Flow		NOD		Report	MGD	DD - Daily Maximum
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-183	2/29/2016	EFF-10	1		P 50050	Flow		NOD		Report	MGD	DD - Daily Maximum
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	1/31/2016	EFF-3	Y		P 50050	Flow		346	380.0	MGD	AB - Annual Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	1/31/2016	EFF-3	1		P 50050	Flow		314		Report	MGD	MK - Monthly Average
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	1/31/2016	EFF-3	1		P 50050	Flow		363		Report	MGD	DD - Daily Maximum
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	1/31/2016	EFF-3	P		P 00011	Temperature (F), Water		87.39	99.0	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	1/31/2016	EFF-3	P		P 00011	Temperature (F), Water		77.09	96.0	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	1/31/2016	EFF-3	1		P 70295	Solids, Total Dissolved (TDS)		1380		Report	mg/L	MK - Monthly Average
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	1/31/2016	EFF-3	1		P 70295	Solids, Total Dissolved (TDS)		1380		Report	mg/L	DD - Daily Maximum
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	1/31/2016	EFF-3	1		P 00400	pH		7.6	8.5	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	1/31/2016	EFF-3	1		P 00400	pH		7.6	6.5	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	1/31/2016	EFF-3	P		P TRP3E	IC25 Statre 7day Chr Mysid Bahia		MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	1/31/2016	EFF-3	Q		P TRP3E	IC25 Statre 7day Chr Mysid Bahia		MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	1/31/2016	EFF-3	R		P TRP3E	IC25 Statre 7day Chr Mysid Bahia		MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	1/31/2016	EFF-3	P		P TRP6B	IC25 Statre 7day Chr Mendia		MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	1/31/2016	EFF-3	Q		P TRP6B	IC25 Statre 7day Chr Mendia		MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	1/31/2016	EFF-3	R		P TRP6B	IC25 Statre 7day Chr Mendia		MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-081	1/31/2016	EFF-8	1		P 00400	pH		NOD	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-081	1/31/2016	EFF-8	1		P 00400	pH		NOD	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	1/31/2016	EFF-12	1		P 50050	Flow		0.04		Report	MGD	MK - Monthly Average
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	1/31/2016	EFF-12	1		P 50050	Flow		0.07		Report	MGD	DD - Daily Maximum
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	1/31/2016	EFF-12	1		P 00556	Oil and Grease	<	1	15.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	1/31/2016	EFF-12	1		P 00556	Oil and Grease	<	1	20.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	1/31/2016	EFF-12	1		P 00530	Solids, Total Suspended	<	3	100.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	1/31/2016	EFF-12	1		P 00530	Solids, Total Suspended	<	3	30.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	1/31/2016	EFF-12	1		P 00400	pH		8.6	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	1/31/2016	EFF-12	1		P 00400	pH		7	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	1/31/2016	EFF-13	1		P 50050	Flow		0.56		Report	MGD	MK - Monthly Average
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	1/31/2016	EFF-13	1		P 50050	Flow		0.97		Report	MGD	DD - Daily Maximum
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	1/31/2016	EFF-13	1		P 00400	pH		7.8	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	1/31/2016	EFF-13	1		P 00400	pH		7.8	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	1/31/2016	EFF-14	1		P 82220	Flow, Total Volume		NOD		Report	Mgal/mth	DD - Daily Maximum
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	1/31/2016	EFF-14	1		P 82220	Flow, Total Volume		NOD		Report	Mgal/mth	MP - Monthly Total
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	1/31/2016	EFF-14	1		P 01119	Copper, Total Recoverable		NOD	1.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	1/31/2016	EFF-14	1		P 00980	Iron, Total Recoverable		NOD	1.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	1/31/2016	EFF-14	1		P 00556	Oil and Grease		NOD	15.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	1/31/2016	EFF-14	1		P 00530	Solids, Total Suspended		NOD	30.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	1/31/2016	EFF-7	1		P 50050	Flow		NOD		Report	MGD	DD - Daily Maximum
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	1/31/2016	EFF-7	1		P 00556	Oil and Grease		NOD		Report	mg/L	DD - Daily Maximum
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	1/31/2016	EFF-7	1		P 00530	Solids, Total Suspended		NOD	50.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	1/31/2016	EFF-7	1		P 00070	Turbidity		NOD		Report	NTU	DD - Daily Maximum
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	1/31/2016	EFF-7	1		P 00400	pH		NOD	9.0	s.u.	DD - Daily Maximum	

FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	1/31/2016	EFF-7	1		P 00400	pH		NOD	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	1/31/2016	EFF-11	1		P 50050	Flow		0.33	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	1/31/2016	EFF-11	1		P 50050	Flow		0.54	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	1/31/2016	EFF-11	Y		P 00530	Solids, Total Suspended		2	30.0	mg/L	AB - Annual Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	1/31/2016	EFF-11	1		P 00530	Solids, Total Suspended		1.5	100.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	1/31/2016	INT-1	7		P 50050	Flow		181	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	1/31/2016	INT-1	7		P 50050	Flow		178	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	1/31/2016	EFF-1	1		P 00011	Temperature (F), Water		95.5	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	1/31/2016	EFF-1	1		P 00011	Temperature (F), Water		79.6	Report	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	1/31/2016	INT-1	7		P 00011	Temperature (F), Water		82.1	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	1/31/2016	INT-1	7		P 00011	Temperature (F), Water		71.9	Report	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	1/31/2016	EFF-1	1		P 61576	Temp. Diff. between Intake and Discharge		14.3	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	1/31/2016	EFF-1	1		P 61576	Temp. Diff. between Intake and Discharge		7.7	13.2	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	1/31/2016	EFF-1	1		P 34044	Oxidants, Total Residual		MNR	0.2	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	1/31/2016	EFF-1	1		P 34044	Oxidants, Total Residual		MNR	0.2	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	1/31/2016	INT-3	7		P 78739	Chlorination Duration		0	1440.0	min	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	1/31/2016	INT-5	P		P 78739	Chlorination Duration		0	120.0	min	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	1/31/2016	EFF-4	1		P 00400	pH		7.3	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	1/31/2016	EFF-4	1		P 00400	pH		7.6	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	1/31/2016	INT-2	7		P 50050	Flow		135	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	1/31/2016	INT-2	7		P 50050	Flow		181	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	1/31/2016	EFF-2	1		P 00011	Temperature (F), Water		76.1	Report	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	1/31/2016	EFF-2	1		P 00011	Temperature (F), Water		85.2	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	1/31/2016	INT-2	7		P 00011	Temperature (F), Water		81.6	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	1/31/2016	INT-2	7		P 00011	Temperature (F), Water		71.9	Report	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	1/31/2016	EFF-2	1		P 61576	Temp. Diff. between Intake and Discharge		4.2	13.2	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	1/31/2016	EFF-2	1		P 61576	Temp. Diff. between Intake and Discharge		12.5	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	1/31/2016	EFF-2	1		P 34044	Oxidants, Total Residual		MNR	0.2	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	1/31/2016	EFF-2	1		P 34044	Oxidants, Total Residual		MNR	0.2	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	1/31/2016	INT-4	7		P 78739	Chlorination Duration		0	1440.0	min	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	1/31/2016	INT-6	P		P 78739	Chlorination Duration		0	120.0	min	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	1/31/2016	EFF-4	1		P 00400	pH		7.6	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	1/31/2016	EFF-4	1		P 00400	pH		7.3	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	1/31/2016	EFF-5	1		P 50050	Flow		NOD	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	1/31/2016	EFF-5	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	1/31/2016	EFF-5	1		P 00556	Oil and Grease		NOD	15.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	1/31/2016	EFF-5	1		P 00556	Oil and Grease		NOD	20.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	1/31/2016	EFF-5	1		P 00530	Solids, Total Suspended		NOD	100.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	1/31/2016	EFF-5	1		P 00530	Solids, Total Suspended		NOD	30.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	1/31/2016	EFF-6	1		P 50050	Flow		NOD	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	1/31/2016	EFF-6	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	1/31/2016	EFF-6	1		P 00556	Oil and Grease		NOD	15.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	1/31/2016	EFF-6	1		P 00556	Oil and Grease		NOD	20.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	1/31/2016	EFF-6	1		P 00530	Solids, Total Suspended		NOD	100.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	1/31/2016	EFF-6	1		P 00530	Solids, Total Suspended		NOD	30.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-182	1/31/2016	EFF-9	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-183	1/31/2016	EFF-10	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	12/31/2015	EFF-3	Y		P 50050	Flow		354	380.0	MGD	AB - Annual Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	12/31/2015	EFF-3	1		P 50050	Flow		368	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	12/31/2015	EFF-3	1		P 50050	Flow		336	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	12/31/2015	EFF-3	P		P 00011	Temperature (F), Water		83.1	96.0	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	12/31/2015	EFF-3	P		P 00011	Temperature (F), Water		86.8	99.0	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	12/31/2015	EFF-3	1		P 70295	Solids, Total Dissolved (TDS)		MNR	Report	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	12/31/2015	EFF-3	1		P 70295	Solids, Total Dissolved (TDS)		MNR	Report	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	12/31/2015	EFF-3	1		P 00400	pH		MNR	8.5	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	12/31/2015	EFF-3	1		P 00400	pH		MNR	6.5	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	12/31/2015	EFF-3	P		P TRP3E	IC25 Statre 7day Chr Mysid Bahia	>	100	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	12/31/2015	EFF-3	Q		P TRP3E	IC25 Statre 7day Chr Mysid Bahia	>	100	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	12/31/2015	EFF-3	R		P TRP3E	IC25 Statre 7day Chr Mysid Bahia	>	100	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	12/31/2015	EFF-3	P		P TRP6B	IC25 Statre 7day Chr Mendia	>	100	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	12/31/2015	EFF-3	Q		P TRP6B	IC25 Statre 7day Chr Mendia	>	100	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	12/31/2015	EFF-3	R		P TRP6B	IC25 Statre 7day Chr Mendia	>	100	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-081	12/31/2015	EFF-8	1		P 00400	pH		NOD	9.0	s.u.	DD - Daily Maximum	

FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-0B1	12/31/2015	EFF-8	1		P 00400	pH			NOD	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	12/31/2015	EFF-12	1		P 50050	Flow			0.03	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	12/31/2015	EFF-12	1		P 50050	Flow			0.07	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	12/31/2015	EFF-12	1		P 00556	Oil and Grease			MNR	15.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	12/31/2015	EFF-12	1		P 00556	Oil and Grease			MNR	20.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	12/31/2015	EFF-12	1		P 00530	Solids, Total Suspended			MNR	100.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	12/31/2015	EFF-12	1		P 00530	Solids, Total Suspended			MNR	30.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	12/31/2015	EFF-12	1		P 00400	pH			MNR	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	12/31/2015	EFF-12	1		P 00400	pH			MNR	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	12/31/2015	EFF-13	1		P 50050	Flow			0.93	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	12/31/2015	EFF-13	1		P 50050	Flow			0.44	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	12/31/2015	EFF-13	1		P 00400	pH			7.3	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	12/31/2015	EFF-13	1		P 00400	pH			7.3	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	12/31/2015	EFF-14	1		P 82220	Flow, Total Volume			NOD	Report	Mgal/mth	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	12/31/2015	EFF-14	1		P 82220	Flow, Total Volume			NOD	Report	Mgal/mth	MP - Monthly Total	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	12/31/2015	EFF-14	1		P 01119	Copper, Total Recoverable			NOD	1.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	12/31/2015	EFF-14	1		P 00980	Iron, Total Recoverable			NOD	1.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	12/31/2015	EFF-14	1		P 00556	Oil and Grease			NOD	15.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	12/31/2015	EFF-14	1		P 00530	Solids, Total Suspended			NOD	30.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-010	12/31/2015	EFF-7	1		P 50050	Flow			NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-010	12/31/2015	EFF-7	1		P 00556	Oil and Grease			NOD	Report	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-010	12/31/2015	EFF-7	1		P 00530	Solids, Total Suspended			NOD	50.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-010	12/31/2015	EFF-7	1		P 00070	Turbidity			NOD	Report	NTU	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-010	12/31/2015	EFF-7	1		P 00400	pH			NOD	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-010	12/31/2015	EFF-7	1		P 00400	pH			NOD	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	12/31/2015	EFF-11	1		P 50050	Flow			0.38	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	12/31/2015	EFF-11	1		P 50050	Flow			0.62	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	12/31/2015	EFF-11	Y		P 00530	Solids, Total Suspended			MNR	30.0	mg/L	AB - Annual Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	12/31/2015	EFF-11	1		P 00530	Solids, Total Suspended			MNR	100.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	12/31/2015	INT-1	7		P 50050	Flow			167	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	12/31/2015	INT-1	7		P 50050	Flow			187	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	12/31/2015	EFF-1	1		P 00011	Temperature (F), Water			94.6	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	12/31/2015	EFF-1	1		P 00011	Temperature (F), Water			84.9	Report	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	12/31/2015	INT-1	7		P 00011	Temperature (F), Water			82.2	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	12/31/2015	INT-1	7		P 00011	Temperature (F), Water			78.1	Report	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	12/31/2015	EFF-1	1		P 61576	Temp. Diff. between Intake and Discharge			14.6	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	12/31/2015	EFF-1	1		P 61576	Temp. Diff. between Intake and Discharge			7	13.2	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	12/31/2015	EFF-1	1		P 34044	Oxidants, Total Residual			MNR	0.2	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	12/31/2015	EFF-1	1		P 34044	Oxidants, Total Residual			MNR	0.2	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	12/31/2015	INT-3	7		P 78739	Chlorination Duration			0	1440.0	min	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	12/31/2015	INT-5	P		P 78739	Chlorination Duration			0	120.0	min	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	12/31/2015	EFF-4	1		P 00400	pH			7.3	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	12/31/2015	EFF-4	1		P 00400	pH			7.6	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	12/31/2015	INT-2	7		P 50050	Flow			181	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	12/31/2015	INT-2	7		P 50050	Flow			169	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	12/31/2015	EFF-2	1		P 00011	Temperature (F), Water			93.4	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	12/31/2015	EFF-2	1		P 00011	Temperature (F), Water			86.4	Report	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	12/31/2015	INT-2	7		P 00011	Temperature (F), Water			77.8	Report	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	12/31/2015	INT-2	7		P 00011	Temperature (F), Water			82	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	12/31/2015	EFF-2	1		P 61576	Temp. Diff. between Intake and Discharge			8.4	13.2	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	12/31/2015	EFF-2	1		P 61576	Temp. Diff. between Intake and Discharge			13.1	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	12/31/2015	EFF-2	1		P 34044	Oxidants, Total Residual			MNR	0.2	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	12/31/2015	EFF-2	1		P 34044	Oxidants, Total Residual			MNR	0.2	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	12/31/2015	INT-4	7		P 78739	Chlorination Duration			0	1440.0	min	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	12/31/2015	INT-6	P		P 78739	Chlorination Duration			0	120.0	min	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	12/31/2015	EFF-4	1		P 00400	pH			7.3	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	12/31/2015	EFF-4	1		P 00400	pH			7.6	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	12/31/2015	EFF-5	1		P 50050	Flow			NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	12/31/2015	EFF-5	1		P 50050	Flow			NOD	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	12/31/2015	EFF-5	1		P 00556	Oil and Grease			NOD	20.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	12/31/2015	EFF-5	1		P 00556	Oil and Grease			NOD	15.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	12/31/2015	EFF-5	1		P 00530	Solids, Total Suspended			NOD	100.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	12/31/2015	EFF-5	1		P 00530	Solids, Total Suspended			NOD	30.0	mg/L	MK - Monthly Average	

FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	12/31/2015	EFF-6	1		P 50050	Flow			NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	12/31/2015	EFF-6	1		P 50050	Flow			NOD	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	12/31/2015	EFF-6	1		P 00556	Oil and Grease			NOD	15.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	12/31/2015	EFF-6	1		P 00556	Oil and Grease			NOD	20.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	12/31/2015	EFF-6	1		P 00530	Solids, Total Suspended			NOD	100.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	12/31/2015	EFF-6	1		P 00530	Solids, Total Suspended			NOD	30.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-182	12/31/2015	EFF-9	1		P 50050	Flow		0.0057	Report	MGD	DD - Daily Maximum		
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-183	12/31/2015	EFF-10	1		P 50050	Flow		0.0027	Report	MGD	DD - Daily Maximum		
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	12/31/2015	EFF-3	1		P 01119	Copper, Total Recoverable		4.8	Report	ug/L	MB - Maximum		
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	12/31/2015	INT-1	7		P 01119	Copper, Total Recoverable		5.8	Report	ug/L	MB - Maximum		
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-0B1	12/31/2015	EFF-8	1		P 50050	Flow			NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-0B1	12/31/2015	EFF-8	1		P 00530	Solids, Total Suspended			NOD	50.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	12/31/2015	EFF-12	1		P 00600	Nitrogen, Total		2.2	Report	mg/L	MB - Maximum		
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	12/31/2015	EFF-12	1		P 00665	Phosphorus, Total (as P)		0.02	Report	mg/L	MB - Maximum		
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	12/31/2015	EFF-13	1		P 00600	Nitrogen, Total		4.6	Report	mg/L	MB - Maximum		
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	12/31/2015	EFF-13	1		P 00665	Phosphorus, Total (as P)		0.02	Report	mg/L	MB - Maximum		
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	12/31/2015	EFF-11	1		P 00600	Nitrogen, Total		4.6	Report	mg/L	MB - Maximum		
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	12/31/2015	EFF-11	1		P 00665	Phosphorus, Total (as P)		0.03	Report	mg/L	MB - Maximum		
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-182	12/31/2015	EFF-9	1		P 00530	Solids, Total Suspended		3	50.0	mg/L	DD - Daily Maximum		
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-182	12/31/2015	EFF-9	1		P 00400	pH		6.9	6.0	s.u.	DC - Daily Minimum		
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-182	12/31/2015	EFF-9	1		P 00400	pH		6.9	9.0	s.u.	DD - Daily Maximum		
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-183	12/31/2015	EFF-10	1		P 00530	Solids, Total Suspended	<	3	50.0	mg/L	DD - Daily Maximum		
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-183	12/31/2015	EFF-10	1		P 00400	pH		6.9	6.0	s.u.	DC - Daily Minimum		
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-183	12/31/2015	EFF-10	1		P 00400	pH		6.9	9.0	s.u.	DD - Daily Maximum		
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	12/31/2015	EFF-13	1		P 00556	Oil and Grease	<	1	15.0	mg/L	MK - Monthly Average		
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	12/31/2015	EFF-13	1		P 00556	Oil and Grease	<	1	20.0	mg/L	DD - Daily Maximum		
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	12/31/2015	EFF-13	1		P 00530	Solids, Total Suspended	<	3	30.0	mg/L	MK - Monthly Average		
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	12/31/2015	EFF-13	1		P 00530	Solids, Total Suspended	<	3	100.0	mg/L	DD - Daily Maximum		
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	12/31/2015	EFF-11	1		P 00556	Oil and Grease	<	1	20.0	mg/L	DD - Daily Maximum		
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	12/31/2015	EFF-11	1		P 00556	Oil and Grease	<	1	15.0	mg/L	MK - Monthly Average		
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	11/30/2015	EFF-3	Y		P 50050	Flow		359	380.0	MGD	AB - Annual Average		
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	11/30/2015	EFF-3	1		P 50050	Flow		359	Report	MGD	MK - Monthly Average		
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	11/30/2015	EFF-3	1		P 50050	Flow		363	Report	MGD	DD - Daily Maximum		
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	11/30/2015	EFF-3	P		P 00011	Temperature (F), Water		88.5	96.0	Deg F	MK - Monthly Average		
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	11/30/2015	EFF-3	P		P 00011	Temperature (F), Water		93.6	99.0	Deg F	DD - Daily Maximum		
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	11/30/2015	EFF-3	1		P 70295	Solids, Total Dissolved (TDS)		4100	Report	mg/L	DD - Daily Maximum		
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	11/30/2015	EFF-3	1		P 70295	Solids, Total Dissolved (TDS)		4100	Report	mg/L	MK - Monthly Average		
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	11/30/2015	EFF-3	1		P 00400	pH		7.4	8.5	s.u.	DD - Daily Maximum		
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	11/30/2015	EFF-3	1		P 00400	pH		7.4	6.5	s.u.	DC - Daily Minimum		
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	11/30/2015	EFF-3	P		P TRP3E	IC25 Statre 7day Chr Mysid Bahia		MNR	100.0	percent	ME - Minimum		
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	11/30/2015	EFF-3	Q		P TRP3E	IC25 Statre 7day Chr Mysid Bahia		MNR	100.0	percent	ME - Minimum		
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	11/30/2015	EFF-3	R		P TRP3E	IC25 Statre 7day Chr Mysid Bahia		MNR	100.0	percent	ME - Minimum		
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	11/30/2015	EFF-3	P		P TRP6B	IC25 Statre 7day Chr Mendia		MNR	100.0	percent	ME - Minimum		
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	11/30/2015	EFF-3	Q		P TRP6B	IC25 Statre 7day Chr Mendia		MNR	100.0	percent	ME - Minimum		
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	11/30/2015	EFF-3	R		P TRP6B	IC25 Statre 7day Chr Mendia		MNR	100.0	percent	ME - Minimum		
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-0B1	11/30/2015	EFF-8	1		P 00400	pH		NOD	9.0	s.u.	DD - Daily Maximum		
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-0B1	11/30/2015	EFF-8	1		P 00400	pH		NOD	6.0	s.u.	DC - Daily Minimum		
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	11/30/2015	EFF-12	1		P 50050	Flow		0.07	Report	MGD	DD - Daily Maximum		
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	11/30/2015	EFF-12	1		P 50050	Flow		0.05	Report	MGD	MK - Monthly Average		
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	11/30/2015	EFF-12	1		P 00556	Oil and Grease	<	1	15.0	mg/L	MK - Monthly Average		
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	11/30/2015	EFF-12	1		P 00556	Oil and Grease	<	1	20.0	mg/L	DD - Daily Maximum		
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	11/30/2015	EFF-12	1		P 00530	Solids, Total Suspended	<	3	30.0	mg/L	MK - Monthly Average		
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	11/30/2015	EFF-12	1		P 00530	Solids, Total Suspended	<	3	100.0	mg/L	DD - Daily Maximum		
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	11/30/2015	EFF-12	1		P 00400	pH		6.7	6.0	s.u.	DC - Daily Minimum		
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	11/30/2015	EFF-12	1		P 00400	pH		8.4	9.0	s.u.	DD - Daily Maximum		
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	11/30/2015	EFF-13	1		P 50050	Flow		0.84	Report	MGD	DD - Daily Maximum		
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	11/30/2015	EFF-13	1		P 50050	Flow		0.58	Report	MGD	MK - Monthly Average		
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	11/30/2015	EFF-13	1		P 00400	pH		7.6	6.0	s.u.	DC - Daily Minimum		
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	11/30/2015	EFF-13	1		P 00400	pH		7.6	9.0	s.u.	DD - Daily Maximum		
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	11/30/2015	EFF-14	1		P 82220	Flow, Total Volume		NOD	Report	Mgal/mth	DD - Daily Maximum		
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	11/30/2015	EFF-14	1		P 82220	Flow, Total Volume		NOD	Report	Mgal/mth	MP - Monthly Total		
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	11/30/2015	EFF-14	1		P 01119	Copper, Total Recoverable		NOD	1.0	mg/L	DD - Daily Maximum		
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	11/30/2015	EFF-14	1		P 00980	Iron, Total Recoverable		NOD	1.0	mg/L	DD - Daily Maximum		

FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	11/30/2015	EFF-14	1		P 00556	Oil and Grease		NOD	15.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	11/30/2015	EFF-14	1		P 00530	Solids, Total Suspended		NOD	30.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	11/30/2015	EFF-7	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	11/30/2015	EFF-7	1		P 00556	Oil and Grease		NOD	Report	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	11/30/2015	EFF-7	1		P 00530	Solids, Total Suspended		NOD	50.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	11/30/2015	EFF-7	1		P 00070	Turbidity		NOD	Report	NTU	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	11/30/2015	EFF-7	1		P 00400	pH		NOD	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	11/30/2015	EFF-7	1		P 00400	pH		NOD	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	11/30/2015	EFF-11	1		P 50050	Flow		0.53	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	11/30/2015	EFF-11	1		P 50050	Flow		0.62	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	11/30/2015	EFF-11	Y		P 00530	Solids, Total Suspended		2.3	30.0	mg/L	AB - Annual Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	11/30/2015	EFF-11	1		P 00530	Solids, Total Suspended		1.5	100.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	11/30/2015	INT-1	7		P 50050	Flow		177	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	11/30/2015	INT-1	7		P 50050	Flow		181	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	11/30/2015	EFF-1	1		P 00011	Temperature (F), Water		92.5	Report	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	11/30/2015	EFF-1	1		P 00011	Temperature (F), Water		101.4	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	11/30/2015	INT-1	7		P 00011	Temperature (F), Water		83.1	Report	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	11/30/2015	INT-1	7		P 00011	Temperature (F), Water		90.1	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	11/30/2015	EFF-1	1		P 61576	Temp. Diff. between Intake and Discharge		10	13.2	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	11/30/2015	EFF-1	1		P 61576	Temp. Diff. between Intake and Discharge		16.7	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	11/30/2015	EFF-1	1		P 34044	Oxidants, Total Residual		MNR	0.2	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	11/30/2015	EFF-1	1		P 34044	Oxidants, Total Residual		MNR	0.2	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	11/30/2015	INT-3	7		P 78739	Chlorination Duration		0	1440.0	min	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	11/30/2015	INT-5	P		P 78739	Chlorination Duration		0	120.0	min	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	11/30/2015	EFF-4	1		P 00400	pH		7.4	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	11/30/2015	EFF-4	1		P 00400	pH		7.5	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	11/30/2015	INT-2	7		P 50050	Flow		182	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	11/30/2015	INT-2	7		P 50050	Flow		189	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	11/30/2015	EFF-2	1		P 00011	Temperature (F), Water		91.9	Report	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	11/30/2015	EFF-2	1		P 00011	Temperature (F), Water		99.8	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	11/30/2015	INT-2	7		P 00011	Temperature (F), Water		82	Report	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	11/30/2015	INT-2	7		P 00011	Temperature (F), Water		87.8	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	11/30/2015	EFF-2	1		P 61576	Temp. Diff. between Intake and Discharge		9.3	13.2	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	11/30/2015	EFF-2	1		P 61576	Temp. Diff. between Intake and Discharge		13.6	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	11/30/2015	EFF-2	1		P 34044	Oxidants, Total Residual		MNR	0.2	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	11/30/2015	EFF-2	1		P 34044	Oxidants, Total Residual		MNR	0.2	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	11/30/2015	INT-4	7		P 78739	Chlorination Duration		0	1440.0	min	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	11/30/2015	INT-6	P		P 78739	Chlorination Duration		0	120.0	min	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	11/30/2015	EFF-4	1		P 00400	pH		7.4	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	11/30/2015	EFF-4	1		P 00400	pH		7.5	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	11/30/2015	EFF-5	1		P 50050	Flow		NOD	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	11/30/2015	EFF-5	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	11/30/2015	EFF-5	1		P 00556	Oil and Grease		NOD	15.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	11/30/2015	EFF-5	1		P 00556	Oil and Grease		NOD	20.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	11/30/2015	EFF-5	1		P 00530	Solids, Total Suspended		NOD	30.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	11/30/2015	EFF-5	1		P 00530	Solids, Total Suspended		NOD	100.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	11/30/2015	EFF-6	1		P 50050	Flow		NOD	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	11/30/2015	EFF-6	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	11/30/2015	EFF-6	1		P 00556	Oil and Grease		NOD	15.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	11/30/2015	EFF-6	1		P 00556	Oil and Grease		NOD	20.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	11/30/2015	EFF-6	1		P 00530	Solids, Total Suspended		NOD	30.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	11/30/2015	EFF-6	1		P 00530	Solids, Total Suspended		NOD	100.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-182	11/30/2015	EFF-9	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-183	11/30/2015	EFF-10	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	10/31/2015	EFF-3	Y		P 50050	Flow		360	380.0	MGD	AB - Annual Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	10/31/2015	EFF-3	1		P 50050	Flow		363	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	10/31/2015	EFF-3	1		P 50050	Flow		359	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	10/31/2015	EFF-3	1		P 00011	Temperature (F), Water		MNR	99.0	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	10/31/2015	EFF-3	1		P 00011	Temperature (F), Water		MNR	101.1	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	10/31/2015	EFF-3	P		P 00011	Temperature (F), Water		90.6	96.0	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	10/31/2015	EFF-3	P		P 00011	Temperature (F), Water		94.1	99.0	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	10/31/2015	EFF-3	1		P 70295	Solids, Total Dissolved (TDS)		MNR	Report	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	10/31/2015	EFF-3	1		P 70295	Solids, Total Dissolved (TDS)		MNR	Report	mg/L	DD - Daily Maximum	

FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	10/31/2015	EFF-3	1		P 00400	pH			MNR	8.5	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	10/31/2015	EFF-3	1		P 00400	pH			MNR	6.5	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	10/31/2015	EFF-3	P		P TRP3E	IC25 Statre 7day Chr Mysid Bahia			MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	10/31/2015	EFF-3	Q		P TRP3E	IC25 Statre 7day Chr Mysid Bahia			MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	10/31/2015	EFF-3	R		P TRP3E	IC25 Statre 7day Chr Mysid Bahia			MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	10/31/2015	EFF-3	P		P TRP6B	IC25 Statre 7day Chr Mendia			MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	10/31/2015	EFF-3	Q		P TRP6B	IC25 Statre 7day Chr Mendia			MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	10/31/2015	EFF-3	R		P TRP6B	IC25 Statre 7day Chr Mendia			MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-0B1	10/31/2015	EFF-8	1		P 00400	pH			NOD	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-0B1	10/31/2015	EFF-8	1		P 00400	pH			NOD	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	10/31/2015	EFF-12	1		P 50050	Flow			0.06	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	10/31/2015	EFF-12	1		P 50050	Flow			0.04	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	10/31/2015	EFF-12	1		P 00556	Oil and Grease			MNR	20.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	10/31/2015	EFF-12	1		P 00556	Oil and Grease			MNR	15.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	10/31/2015	EFF-12	1		P 00530	Solids, Total Suspended			MNR	100.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	10/31/2015	EFF-12	1		P 00530	Solids, Total Suspended			MNR	30.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	10/31/2015	EFF-12	1		P 00400	pH			MNR	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	10/31/2015	EFF-12	1		P 00400	pH			MNR	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	10/31/2015	EFF-13	1		P 50050	Flow			0.84	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	10/31/2015	EFF-13	1		P 50050	Flow			0.58	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	10/31/2015	EFF-13	1		P 00400	pH			7.3	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	10/31/2015	EFF-13	1		P 00400	pH			7.3	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	10/31/2015	EFF-14	1		P 82220	Flow, Total Volume			NOD	Report	Mgal/mth	MP - Monthly Total	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	10/31/2015	EFF-14	1		P 82220	Flow, Total Volume			NOD	Report	Mgal/mth	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	10/31/2015	EFF-14	1		P 01119	Copper, Total Recoverable			NOD	1.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	10/31/2015	EFF-14	1		P 00980	Iron, Total Recoverable			NOD	1.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	10/31/2015	EFF-14	1		P 00556	Oil and Grease			NOD	15.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	10/31/2015	EFF-14	1		P 00530	Solids, Total Suspended			NOD	30.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	10/31/2015	EFF-7	1		P 50050	Flow			NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	10/31/2015	EFF-7	1		P 00556	Oil and Grease			NOD	Report	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	10/31/2015	EFF-7	1		P 00530	Solids, Total Suspended			NOD	50.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	10/31/2015	EFF-7	1		P 00070	Turbidity			NOD	Report	NTU	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	10/31/2015	EFF-7	1		P 00400	pH			NOD	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	10/31/2015	EFF-7	1		P 00400	pH			NOD	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	10/31/2015	EFF-11	1		P 50050	Flow			0.5	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	10/31/2015	EFF-11	1		P 50050	Flow			0.68	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	10/31/2015	EFF-11	Y		P 00530	Solids, Total Suspended			MNR	30.0	mg/L	AB - Annual Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	10/31/2015	EFF-11	1		P 00530	Solids, Total Suspended			MNR	100.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	10/31/2015	INT-1	7		P 50050	Flow			179	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	10/31/2015	INT-1	7		P 50050	Flow			181	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	10/31/2015	EFF-1	1		P 00011	Temperature (F), Water			103.4	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	10/31/2015	EFF-1	1		P 00011	Temperature (F), Water			95.6	Report	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	10/31/2015	INT-1	7		P 00011	Temperature (F), Water			91.2	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	10/31/2015	INT-1	7		P 00011	Temperature (F), Water			85.2	Report	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	10/31/2015	EFF-1	1		P 61576	Temp. Diff. between Intake and Discharge			10.9	13.2	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	10/31/2015	EFF-1	1		P 61576	Temp. Diff. between Intake and Discharge			17.1	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	10/31/2015	EFF-1	1		P 34044	Oxidants, Total Residual			MNR	0.2	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	10/31/2015	EFF-1	1		P 34044	Oxidants, Total Residual			MNR	0.2	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	10/31/2015	INT-3	7		P 78739	Chlorination Duration			0	1440.0	min	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	10/31/2015	INT-5	P		P 78739	Chlorination Duration			0	120.0	min	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	10/31/2015	EFF-4	1		P 00400	pH			7.5	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	10/31/2015	EFF-4	1		P 00400	pH			7.4	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	10/31/2015	INT-2	7		P 50050	Flow			181	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	10/31/2015	INT-2	7		P 50050	Flow			180	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	10/31/2015	EFF-2	1		P 00011	Temperature (F), Water			93.2	Report	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	10/31/2015	EFF-2	1		P 00011	Temperature (F), Water			101.6	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	10/31/2015	INT-2	7		P 00011	Temperature (F), Water			84.2	Report	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	10/31/2015	INT-2	7		P 00011	Temperature (F), Water			89.4	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	10/31/2015	EFF-2	1		P 61576	Temp. Diff. between Intake and Discharge			8.5	13.2	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	10/31/2015	EFF-2	1		P 61576	Temp. Diff. between Intake and Discharge			13.9	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	10/31/2015	EFF-2	1		P 34044	Oxidants, Total Residual			MNR	0.2	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	10/31/2015	EFF-2	1		P 34044	Oxidants, Total Residual			MNR	0.2	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	10/31/2015	INT-4	7		P 78739	Chlorination Duration			0	1440.0	min	DD - Daily Maximum	

FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	10/31/2015	INT-6	P		P 78739	Chlorination Duration		0	120.0	min	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	10/31/2015	EFF-4	1		P 00400	pH		7.5	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	10/31/2015	EFF-4	1		P 00400	pH		7.4	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	10/31/2015	EFF-5	1		P 50050	Flow		NOD	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	10/31/2015	EFF-5	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	10/31/2015	EFF-5	1		P 00556	Oil and Grease		NOD	15.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	10/31/2015	EFF-5	1		P 00556	Oil and Grease		NOD	20.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	10/31/2015	EFF-5	1		P 00530	Solids, Total Suspended		NOD	30.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	10/31/2015	EFF-5	1		P 00530	Solids, Total Suspended		NOD	100.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	10/31/2015	EFF-6	1		P 50050	Flow		NOD	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	10/31/2015	EFF-6	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	10/31/2015	EFF-6	1		P 00556	Oil and Grease		NOD	15.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	10/31/2015	EFF-6	1		P 00556	Oil and Grease		NOD	20.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	10/31/2015	EFF-6	1		P 00530	Solids, Total Suspended		NOD	30.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	10/31/2015	EFF-6	1		P 00530	Solids, Total Suspended		NOD	100.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-182	10/31/2015	EFF-9	1		P 50050	Flow		0.0183	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-183	10/31/2015	EFF-10	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	9/30/2015	EFF-3	Y		P 50050	Flow		360	380.0	MGD	AB - Annual Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	9/30/2015	EFF-3	1		P 50050	Flow		360	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	9/30/2015	EFF-3	1		P 50050	Flow		363	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	9/30/2015	EFF-3	1		P 00011	Temperature (F), Water		93.1	99.0	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	9/30/2015	EFF-3	1		P 00011	Temperature (F), Water		96	101.1	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	9/30/2015	EFF-3	P		P 00011	Temperature (F), Water		MNR	96.0	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	9/30/2015	EFF-3	P		P 00011	Temperature (F), Water		MNR	99.0	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	9/30/2015	EFF-3	1		P 70295	Solids, Total Dissolved (TDS)		1300	Report	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	9/30/2015	EFF-3	1		P 70295	Solids, Total Dissolved (TDS)		1300	Report	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	9/30/2015	EFF-3	1		P 00400	pH		7.4	6.5	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	9/30/2015	EFF-3	1		P 00400	pH		7.4	8.5	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	9/30/2015	EFF-3	P		P TRP3E	IC25 Statre 7day Chr Mysid Bahia		MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	9/30/2015	EFF-3	Q		P TRP3E	IC25 Statre 7day Chr Mysid Bahia		MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	9/30/2015	EFF-3	R		P TRP3E	IC25 Statre 7day Chr Mysid Bahia		MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	9/30/2015	EFF-3	P		P TRP6B	IC25 Statre 7day Chr Mendia		MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	9/30/2015	EFF-3	Q		P TRP6B	IC25 Statre 7day Chr Mendia		MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	9/30/2015	EFF-3	R		P TRP6B	IC25 Statre 7day Chr Mendia		MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-0B1	9/30/2015	EFF-8	1		P 00400	pH		NOD	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-0B1	9/30/2015	EFF-8	1		P 00400	pH		NOD	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	9/30/2015	EFF-12	1		P 50050	Flow		0.04	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	9/30/2015	EFF-12	1		P 50050	Flow		0.06	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	9/30/2015	EFF-12	1		P 00556	Oil and Grease	<	1	15.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	9/30/2015	EFF-12	1		P 00556	Oil and Grease	<	1	20.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	9/30/2015	EFF-12	1		P 00530	Solids, Total Suspended		14	30.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	9/30/2015	EFF-12	1		P 00530	Solids, Total Suspended		14	100.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	9/30/2015	EFF-12	1		P 00400	pH		7.1	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	9/30/2015	EFF-12	1		P 00400	pH		8	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	9/30/2015	EFF-13	1		P 50050	Flow		0.62	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	9/30/2015	EFF-13	1		P 50050	Flow		1.28	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	9/30/2015	EFF-13	1		P 00400	pH		7.6	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	9/30/2015	EFF-13	1		P 00400	pH		7.6	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	9/30/2015	EFF-14	1		P 82220	Flow, Total Volume		NOD	Report	Mgal/mth	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	9/30/2015	EFF-14	1		P 82220	Flow, Total Volume		NOD	Report	Mgal/mth	MP - Monthly Total	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	9/30/2015	EFF-14	1		P 01119	Copper, Total Recoverable		NOD	1.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	9/30/2015	EFF-14	1		P 00980	Iron, Total Recoverable		NOD	1.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	9/30/2015	EFF-14	1		P 00556	Oil and Grease		NOD	15.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	9/30/2015	EFF-14	1		P 00530	Solids, Total Suspended		NOD	30.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	9/30/2015	EFF-7	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	9/30/2015	EFF-7	1		P 00556	Oil and Grease		NOD	Report	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	9/30/2015	EFF-7	1		P 00530	Solids, Total Suspended		NOD	50.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	9/30/2015	EFF-7	1		P 00070	Turbidity		NOD	Report	NTU	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	9/30/2015	EFF-7	1		P 00400	pH		NOD	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	9/30/2015	EFF-7	1		P 00400	pH		NOD	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	9/30/2015	EFF-11	1		P 50050	Flow		0.48	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	9/30/2015	EFF-11	1		P 50050	Flow		0.61	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	9/30/2015	EFF-11	Y		P 00530	Solids, Total Suspended		3	30.0	mg/L	AB - Annual Average	

FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	9/30/2015	EFF-11	1		P 00530	Solids, Total Suspended		3	100.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	9/30/2015	INT-1	7		P 50050	Flow		181	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	9/30/2015	INT-1	7		P 50050	Flow		179	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	9/30/2015	EFF-1	1		P 00011	Temperature (F), Water		103.7	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	9/30/2015	EFF-1	1		P 00011	Temperature (F), Water		96.2	Report	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	9/30/2015	INT-1	7		P 00011	Temperature (F), Water		87.2	Report	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	9/30/2015	INT-1	7		P 00011	Temperature (F), Water		92	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	9/30/2015	EFF-1	1		P 61576	Temp. Diff. between Intake and Discharge		9.4	13.2	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	9/30/2015	EFF-1	1		P 61576	Temp. Diff. between Intake and Discharge		15.7	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	9/30/2015	EFF-1	1		P 34044	Oxidants, Total Residual		MNR	0.2	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	9/30/2015	EFF-1	1		P 34044	Oxidants, Total Residual		MNR	0.2	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	9/30/2015	INT-3	7		P 78739	Chlorination Duration		0	1440.0	min	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	9/30/2015	INT-5	P		P 78739	Chlorination Duration		0	120.0	min	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	9/30/2015	EFF-4	1		P 00400	pH		7.5	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	9/30/2015	EFF-4	1		P 00400	pH		7.6	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	9/30/2015	INT-2	7		P 50050	Flow		181	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	9/30/2015	INT-2	7		P 50050	Flow		181	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	9/30/2015	EFF-2	1		P 00011	Temperature (F), Water		95.8	Report	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	9/30/2015	EFF-2	1		P 00011	Temperature (F), Water		102.5	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	9/30/2015	INT-2	7		P 00011	Temperature (F), Water		86.5	Report	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	9/30/2015	INT-2	7		P 00011	Temperature (F), Water		90.5	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	9/30/2015	EFF-2	1		P 61576	Temp. Diff. between Intake and Discharge		9	13.2	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	9/30/2015	EFF-2	1		P 61576	Temp. Diff. between Intake and Discharge		13.1	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	9/30/2015	EFF-2	1		P 34044	Oxidants, Total Residual		MNR	0.2	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	9/30/2015	EFF-2	1		P 34044	Oxidants, Total Residual		MNR	0.2	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	9/30/2015	INT-4	7		P 78739	Chlorination Duration		0	1440.0	min	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	9/30/2015	INT-6	P		P 78739	Chlorination Duration		0	120.0	min	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	9/30/2015	EFF-4	1		P 00400	pH		7.5	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	9/30/2015	EFF-4	1		P 00400	pH		7.6	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	9/30/2015	EFF-5	1		P 50050	Flow		NOD	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	9/30/2015	EFF-5	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	9/30/2015	EFF-5	1		P 00556	Oil and Grease		NOD	20.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	9/30/2015	EFF-5	1		P 00556	Oil and Grease		NOD	15.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	9/30/2015	EFF-5	1		P 00530	Solids, Total Suspended		NOD	30.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	9/30/2015	EFF-5	1		P 00530	Solids, Total Suspended		NOD	100.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	9/30/2015	EFF-6	1		P 50050	Flow		NOD	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	9/30/2015	EFF-6	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	9/30/2015	EFF-6	1		P 00556	Oil and Grease		NOD	15.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	9/30/2015	EFF-6	1		P 00556	Oil and Grease		NOD	20.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	9/30/2015	EFF-6	1		P 00530	Solids, Total Suspended		NOD	100.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	9/30/2015	EFF-6	1		P 00530	Solids, Total Suspended		NOD	30.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-182	9/30/2015	EFF-9	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-183	9/30/2015	EFF-10	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	9/30/2015	EFF-3	1		P 01119	Copper, Total Recoverable		10	Report	ug/L	MB - Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	9/30/2015	INT-1	7		P 01119	Copper, Total Recoverable		12	Report	ug/L	MB - Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-081	9/30/2015	EFF-8	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-081	9/30/2015	EFF-8	1		P 00530	Solids, Total Suspended		NOD	50.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	9/30/2015	EFF-12	1		P 00600	Nitrogen, Total		11	Report	mg/L	MB - Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	9/30/2015	EFF-12	1		P 00665	Phosphorus, Total (as P)	<	0.0034	Report	mg/L	MB - Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	9/30/2015	EFF-13	1		P 00600	Nitrogen, Total		2.1	Report	mg/L	MB - Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	9/30/2015	EFF-13	1		P 00665	Phosphorus, Total (as P)		0.04	Report	mg/L	MB - Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	9/30/2015	EFF-11	1		P 00600	Nitrogen, Total		5	Report	mg/L	MB - Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	9/30/2015	EFF-11	1		P 00665	Phosphorus, Total (as P)		0.03	Report	mg/L	MB - Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-182	9/30/2015	EFF-9	1		P 00530	Solids, Total Suspended		NOD	50.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-182	9/30/2015	EFF-9	1		P 00400	pH		NOD	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-182	9/30/2015	EFF-9	1		P 00400	pH		NOD	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-183	9/30/2015	EFF-10	1		P 00530	Solids, Total Suspended		NOD	50.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-183	9/30/2015	EFF-10	1		P 00400	pH		NOD	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-183	9/30/2015	EFF-10	1		P 00400	pH		NOD	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	8/31/2015	EFF-3	Y		P 50050	Flow		359	380.0	MGD	AB - Annual Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	8/31/2015	EFF-3	1		P 50050	Flow		363	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	8/31/2015	EFF-3	1		P 50050	Flow		359	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	8/31/2015	EFF-3	1		P 00011	Temperature (F), Water		100.4	101.1	Deg F	DD - Daily Maximum	

FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	8/31/2015	EFF-3	1		P 00011	Temperature (F), Water		96.8	99.0	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	8/31/2015	EFF-3	P		P 00011	Temperature (F), Water		MNR	99.0	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	8/31/2015	EFF-3	P		P 00011	Temperature (F), Water		MNR	96.0	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	8/31/2015	EFF-3	1		P 70295	Solids, Total Dissolved (TDS)		MNR	Report	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	8/31/2015	EFF-3	1		P 70295	Solids, Total Dissolved (TDS)		MNR	Report	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	8/31/2015	EFF-3	1		P 00400	pH		MNR	6.5	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	8/31/2015	EFF-3	1		P 00400	pH		MNR	8.5	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	8/31/2015	EFF-3	P		P TRP3E	IC25 Statre 7day Chr Mysid Bahia		MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	8/31/2015	EFF-3	Q		P TRP3E	IC25 Statre 7day Chr Mysid Bahia		MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	8/31/2015	EFF-3	R		P TRP3E	IC25 Statre 7day Chr Mysid Bahia		MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	8/31/2015	EFF-3	P		P TRP6B	IC25 Statre 7day Chr Mendia		MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	8/31/2015	EFF-3	Q		P TRP6B	IC25 Statre 7day Chr Mendia		MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	8/31/2015	EFF-3	R		P TRP6B	IC25 Statre 7day Chr Mendia		MNR	100.0	percent	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-0B1	8/31/2015	EFF-8	1		P 00400	pH		NOD	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-0B1	8/31/2015	EFF-8	1		P 00400	pH		NOD	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	8/31/2015	EFF-12	1		P 50050	Flow		0.07	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	8/31/2015	EFF-12	1		P 50050	Flow		0.04	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	8/31/2015	EFF-12	1		P 00556	Oil and Grease	<	1	20.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	8/31/2015	EFF-12	1		P 00556	Oil and Grease	<	1	15.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	8/31/2015	EFF-12	1		P 00530	Solids, Total Suspended		45	100.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	8/31/2015	EFF-12	1		P 00530	Solids, Total Suspended		16	30.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	8/31/2015	EFF-12	1		P 00400	pH		8.4	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	8/31/2015	EFF-12	1		P 00400	pH		6.9	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	8/31/2015	EFF-13	1		P 50050	Flow		0.98	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	8/31/2015	EFF-13	1		P 50050	Flow		0.56	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	8/31/2015	EFF-13	1		P 00400	pH		7.7	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	8/31/2015	EFF-13	1		P 00400	pH		7.7	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	8/31/2015	EFF-14	1		P 82220	Flow, Total Volume		NOD	Report	Mgal/mth	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	8/31/2015	EFF-14	1		P 82220	Flow, Total Volume		NOD	Report	Mgal/mth	MP - Monthly Total	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	8/31/2015	EFF-14	1		P 01119	Copper, Total Recoverable		NOD	1.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	8/31/2015	EFF-14	1		P 00980	Iron, Total Recoverable		NOD	1.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	8/31/2015	EFF-14	1		P 00556	Oil and Grease		NOD	15.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	8/31/2015	EFF-14	1		P 00530	Solids, Total Suspended		NOD	30.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	8/31/2015	EFF-7	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	8/31/2015	EFF-7	1		P 00556	Oil and Grease		NOD	Report	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	8/31/2015	EFF-7	1		P 00530	Solids, Total Suspended		NOD	50.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	8/31/2015	EFF-7	1		P 00070	Turbidity		NOD	Report	NTU	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	8/31/2015	EFF-7	1		P 00400	pH		NOD	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	8/31/2015	EFF-7	1		P 00400	pH		NOD	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	8/31/2015	EFF-11	1		P 50050	Flow		0.45	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	8/31/2015	EFF-11	1		P 50050	Flow		0.61	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	8/31/2015	EFF-11	Y		P 00530	Solids, Total Suspended		3	30.0	mg/L	AB - Annual Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	8/31/2015	EFF-11	1		P 00530	Solids, Total Suspended		3	100.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	8/31/2015	INT-1	7		P 50050	Flow		177	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	8/31/2015	INT-1	7		P 50050	Flow		181	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	8/31/2015	EFF-1	1		P 00011	Temperature (F), Water		110.3	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	8/31/2015	EFF-1	1		P 00011	Temperature (F), Water		101.8	Report	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	8/31/2015	INT-1	7		P 00011	Temperature (F), Water		92.2	Report	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	8/31/2015	INT-1	7		P 00011	Temperature (F), Water		97.9	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	8/31/2015	EFF-1	1		P 61576	Temp. Diff. between Intake and Discharge		15.9	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	8/31/2015	EFF-1	1		P 61576	Temp. Diff. between Intake and Discharge		10.5	13.2	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	8/31/2015	EFF-1	1		P 34044	Oxidants, Total Residual		MNR	0.2	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	8/31/2015	EFF-1	1		P 34044	Oxidants, Total Residual		MNR	0.2	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	8/31/2015	INT-3	7		P 78739	Chlorination Duration		0	1440.0	min	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	8/31/2015	INT-5	P		P 78739	Chlorination Duration		0	120.0	min	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	8/31/2015	EFF-4	1		P 00400	pH		7.8	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	8/31/2015	EFF-4	1		P 00400	pH		7.6	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	8/31/2015	INT-2	7		P 50050	Flow		181	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	8/31/2015	INT-2	7		P 50050	Flow		181	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	8/31/2015	EFF-2	1		P 00011	Temperature (F), Water		99.8	Report	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	8/31/2015	EFF-2	1		P 00011	Temperature (F), Water		106.9	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	8/31/2015	INT-2	7		P 00011	Temperature (F), Water		90.4	Report	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	8/31/2015	INT-2	7		P 00011	Temperature (F), Water		94.6	Report	Deg F	DD - Daily Maximum	

FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	8/31/2015	EFF-2	1		P 61576	Temp. Diff. between Intake and Discharge		12.8	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	8/31/2015	EFF-2	1		P 61576	Temp. Diff. between Intake and Discharge		8.5	13.2	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	8/31/2015	EFF-2	1		P 34044	Oxidants, Total Residual		MNR	0.2	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	8/31/2015	EFF-2	1		P 34044	Oxidants, Total Residual		MNR	0.2	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	8/31/2015	INT-4	7		P 78739	Chlorination Duration		0	1440.0	min	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	8/31/2015	INT-6	P		P 78739	Chlorination Duration		0	120.0	min	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	8/31/2015	EFF-4	1		P 00400	pH		7.8	9.0	s.u.	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	8/31/2015	EFF-4	1		P 00400	pH		7.6	6.0	s.u.	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	8/31/2015	EFF-5	1		P 50050	Flow		NOD	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	8/31/2015	EFF-5	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	8/31/2015	EFF-5	1		P 00556	Oil and Grease		NOD	15.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	8/31/2015	EFF-5	1		P 00556	Oil and Grease		NOD	20.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	8/31/2015	EFF-5	1		P 00530	Solids, Total Suspended		NOD	30.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	8/31/2015	EFF-5	1		P 00530	Solids, Total Suspended		NOD	100.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	8/31/2015	EFF-6	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	8/31/2015	EFF-6	1		P 50050	Flow		NOD	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	8/31/2015	EFF-6	1		P 00556	Oil and Grease		NOD	20.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	8/31/2015	EFF-6	1		P 00556	Oil and Grease		NOD	15.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	8/31/2015	EFF-6	1		P 00530	Solids, Total Suspended		NOD	100.0	mg/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	8/31/2015	EFF-6	1		P 00530	Solids, Total Suspended		NOD	30.0	mg/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-182	8/31/2015	EFF-9	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-183	8/31/2015	EFF-10	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	7/31/2015	EFF-3	Y		P 50050	Flow		295	380.0	MGD	AB - Annual Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	7/31/2015	EFF-3	1		P 50050	Flow		360	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	7/31/2015	EFF-3	1		P 50050	Flow		363	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	7/31/2015	EFF-3	1		P 00011	Temperature (F), Water		95.3	99.0	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	7/31/2015	EFF-3	Q		P 00011	Temperature (F), Water		98	101.1	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	7/31/2015	EFF-3	R		P 00011	Temperature (F), Water		MNR	96.0	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	7/31/2015	EFF-3	S		P 00011	Temperature (F), Water		MNR	99.0	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	7/31/2015	EFF-3	1		P 70295	Solids, Total Dissolved (TDS)		19000	Report	MG/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	7/31/2015	EFF-3	1		P 70295	Solids, Total Dissolved (TDS)		19000	Report	MG/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	7/31/2015	EFF-3	1		P 00400	pH		7.5	8.5	SU	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	7/31/2015	EFF-3	1		P 00400	pH		7.5	6.5	SU	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-081	7/31/2015	EFF-8	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-081	7/31/2015	EFF-8	1		P 00530	Solids, Total Suspended		NOD	50.0	MG/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-081	7/31/2015	EFF-8	1		P 00400	pH		NOD	9.0	SU	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-081	7/31/2015	EFF-8	1		P 00400	pH		NOD	6.0	SU	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	7/31/2015	EFF-12	1		P 50050	Flow		0.09	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	7/31/2015	EFF-12	1		P 50050	Flow		0.05	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	7/31/2015	EFF-12	1		P 00556	Oil and Grease	<	1	15.0	MG/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	7/31/2015	EFF-12	1		P 00556	Oil and Grease		1	20.0	MG/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	7/31/2015	EFF-12	1		P 00530	Solids, Total Suspended		14	30.0	MG/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	7/31/2015	EFF-12	1		P 00530	Solids, Total Suspended		37	100.0	MG/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	7/31/2015	EFF-12	1		P 00400	pH		6.8	6.0	SU	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	7/31/2015	EFF-12	1		P 00400	pH		8.3	9.0	SU	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	7/31/2015	EFF-13	1		P 50050	Flow		1.35	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	7/31/2015	EFF-13	1		P 50050	Flow		0.66	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	7/31/2015	EFF-13	1		P 00556	Oil and Grease	<	1	15.0	MG/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	7/31/2015	EFF-13	1		P 00556	Oil and Grease	<	1	20.0	MG/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	7/31/2015	EFF-13	1		P 00530	Solids, Total Suspended	<	3	30.0	MG/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	7/31/2015	EFF-13	1		P 00530	Solids, Total Suspended	<	3	100.0	MG/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	7/31/2015	EFF-13	1		P 00400	pH		6.7	6.0	SU	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	7/31/2015	EFF-13	1		P 00400	pH		6.7	9.0	SU	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	7/31/2015	EFF-14	1		P 82220	Flow, Total Volume		NOD	Report	Mgal	MP - Monthly Total	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	7/31/2015	EFF-14	1		P 82220	Flow, Total Volume		NOD	Report	Mgal	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	7/31/2015	EFF-14	1		P 01119	Copper, Total Recoverable		NOD	1.0	MG/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	7/31/2015	EFF-14	1		P 00980	Iron, Total Recoverable		NOD	1.0	MG/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	7/31/2015	EFF-14	1		P 00556	Oil and Grease		NOD	15.0	MG/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	7/31/2015	EFF-14	1		P 00530	Solids, Total Suspended		NOD	30.0	MG/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	7/31/2015	EFF-7	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	7/31/2015	EFF-7	1		P 00556	Oil and Grease		NOD	Report	MG/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	7/31/2015	EFF-7	1		P 00530	Solids, Total Suspended		NOD	50.0	MG/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	7/31/2015	EFF-7	1		P 00070	Turbidity		NOD	Report	NTU	DD - Daily Maximum	

FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	7/31/2015	EFF-7	1		P 00400	pH			NOD	6.0	SU	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	7/31/2015	EFF-7	1		P 00400	pH			NOD	9.0	SU	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	7/31/2015	EFF-11	1		P 50050	Flow			0.44	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	7/31/2015	EFF-11	1		P 50050	Flow			0.56	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	7/31/2015	EFF-11	1		P 00556	Oil and Grease	<		1	15.0	MG/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	7/31/2015	EFF-11	1		P 00556	Oil and Grease	<		1	20.0	MG/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	7/31/2015	EFF-11	Y		P 00530	Solids, Total Suspended	<		3	30.0	MG/L	AB - Annual Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	7/31/2015	EFF-11	1		P 00530	Solids, Total Suspended			3	100.0	MG/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	7/31/2015	INT-1	7		P 50050	Flow			179	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	7/31/2015	INT-1	7		P 50050	Flow			181	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	7/31/2015	EFF-1	1		P 00011	Temperature (F), Water			101.7	Report	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	7/31/2015	EFF-1	1		P 00011	Temperature (F), Water			108.7	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	7/31/2015	INT-1	Q		P 00011	Temperature (F), Water			92.8	Report	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	7/31/2015	INT-1	Q		P 00011	Temperature (F), Water			97.3	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	7/31/2015	EFF-1	1		P 61576	Temp. Diff. between Intake and Discharge			10	13.2	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	7/31/2015	EFF-1	1		P 61576	Temp. Diff. between Intake and Discharge			17.5	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	7/31/2015	EFF-1	1		P 34044	Oxidants, Total Residual			MNR	0.2	MG/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	7/31/2015	EFF-1	1		P 34044	Oxidants, Total Residual			MNR	0.2	MG/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	7/31/2015	INT-3	7		P 78739	Chlorination Duration			0	1440.0	min	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	7/31/2015	INT-5	Q		P 78739	Chlorination Duration			0	120.0	min	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	7/31/2015	EFF-4	1		P 00400	pH			7.3	6.0	SU	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	7/31/2015	EFF-4	1		P 00400	pH			7.7	9.0	SU	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	7/31/2015	INT-2	7		P 50050	Flow			181	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	7/31/2015	INT-2	7		P 50050	Flow			181	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	7/31/2015	EFF-2	1		P 00011	Temperature (F), Water			99.6	Report	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	7/31/2015	EFF-2	1		P 00011	Temperature (F), Water			106.5	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	7/31/2015	INT-2	Q		P 00011	Temperature (F), Water			90.6	Report	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	7/31/2015	INT-2	Q		P 00011	Temperature (F), Water			94.2	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	7/31/2015	EFF-2	1		P 61576	Temp. Diff. between Intake and Discharge			7.9	13.2	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	7/31/2015	EFF-2	1		P 61576	Temp. Diff. between Intake and Discharge			11.9	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	7/31/2015	EFF-2	1		P 34044	Oxidants, Total Residual			MNR	0.2	MG/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	7/31/2015	EFF-2	1		P 34044	Oxidants, Total Residual			MNR	0.2	MG/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	7/31/2015	INT-4	7		P 78739	Chlorination Duration			0	1440.0	min	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	7/31/2015	INT-6	Q		P 78739	Chlorination Duration			0	120.0	min	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	7/31/2015	EFF-4	1		P 00400	pH			7.3	6.0	SU	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	7/31/2015	EFF-4	1		P 00400	pH			7.7	9.0	SU	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	7/31/2015	EFF-5	1		P 50050	Flow			NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	7/31/2015	EFF-5	1		P 50050	Flow			NOD	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	7/31/2015	EFF-5	1		P 00556	Oil and Grease			NOD	15.0	MG/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	7/31/2015	EFF-5	1		P 00556	Oil and Grease			NOD	20.0	MG/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	7/31/2015	EFF-5	1		P 00530	Solids, Total Suspended			NOD	30.0	MG/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	7/31/2015	EFF-5	1		P 00530	Solids, Total Suspended			NOD	100.0	MG/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	7/31/2015	EFF-6	1		P 50050	Flow			NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	7/31/2015	EFF-6	1		P 50050	Flow			NOD	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	7/31/2015	EFF-6	1		P 00556	Oil and Grease			NOD	20.0	MG/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	7/31/2015	EFF-6	1		P 00556	Oil and Grease			NOD	15.0	MG/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	7/31/2015	EFF-6	1		P 00530	Solids, Total Suspended			NOD	100.0	MG/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	7/31/2015	EFF-6	1		P 00530	Solids, Total Suspended			NOD	30.0	MG/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-182	7/31/2015	EFF-9	1		P 50050	Flow			NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-182	7/31/2015	EFF-9	1		P 00530	Solids, Total Suspended			NOD	50.0	MG/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-182	7/31/2015	EFF-9	1		P 00400	pH			NOD	6.0	SU	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-182	7/31/2015	EFF-9	1		P 00400	pH			NOD	9.0	SU	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-183	7/31/2015	EFF-10	1		P 50050	Flow			NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-183	7/31/2015	EFF-10	1		P 00530	Solids, Total Suspended			NOD	50.0	MG/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-183	7/31/2015	EFF-10	1		P 00400	pH			NOD	6.0	SU	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-183	7/31/2015	EFF-10	1		P 00400	pH			NOD	9.0	SU	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	7/31/2015	EFF-3	P		P TRP3E	IC25 Statre 7day Chr Mysid Bahia			MNR	100.0	PERCENT	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	7/31/2015	EFF-3	Q		P TRP3E	IC25 Statre 7day Chr Mysid Bahia			MNR	100.0	PERCENT	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	7/31/2015	EFF-3	R		P TRP3E	IC25 Statre 7day Chr Mysid Bahia			MNR	100.0	PERCENT	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	7/31/2015	EFF-3	P		P TRP6B	IC25 Statre 7day Chr Mendia			MNR	100.0	PERCENT	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	7/31/2015	EFF-3	Q		P TRP6B	IC25 Statre 7day Chr Mendia			MNR	100.0	PERCENT	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	7/31/2015	EFF-3	R		P TRP6B	IC25 Statre 7day Chr Mendia			MNR	100.0	PERCENT	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	6/30/2015	EFF-3	Y		P 50050	Flow			289	380.0	MGD	AB - Annual Average	

FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	6/30/2015	EFF-3	1		P 50050	Flow		363	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	6/30/2015	EFF-3	1		P 50050	Flow		355	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	6/30/2015	EFF-3	1		P 00011	Temperature (F), Water		91.5	99.0	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	6/30/2015	EFF-3	Q		P 00011	Temperature (F), Water		98.9	101.1	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	6/30/2015	EFF-3	R		P 00011	Temperature (F), Water		MNR	96.0	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	6/30/2015	EFF-3	S		P 00011	Temperature (F), Water		MNR	99.0	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	6/30/2015	EFF-3	1		P 70295	Solids, Total Dissolved (TDS)		MNR	Report	MG/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	6/30/2015	EFF-3	1		P 70295	Solids, Total Dissolved (TDS)		MNR	Report	MG/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	6/30/2015	EFF-3	1		P 00400	pH		MNR	8.5	SU	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	6/30/2015	EFF-3	1		P 00400	pH		MNR	6.5	SU	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-0B1	6/30/2015	EFF-8	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-0B1	6/30/2015	EFF-8	1		P 00530	Solids, Total Suspended		NOD	50.0	MG/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-0B1	6/30/2015	EFF-8	1		P 00400	pH		NOD	6.0	SU	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-0B1	6/30/2015	EFF-8	1		P 00400	pH		NOD	9.0	SU	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	6/30/2015	EFF-12	1		P 50050	Flow		0.04	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	6/30/2015	EFF-12	1		P 50050	Flow		0.07	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	6/30/2015	EFF-12	1		P 00556	Oil and Grease	<	1	15.0	MG/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	6/30/2015	EFF-12	1		P 00556	Oil and Grease	<	1	20.0	MG/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	6/30/2015	EFF-12	1		P 00530	Solids, Total Suspended		10	30.0	MG/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	6/30/2015	EFF-12	1		P 00530	Solids, Total Suspended		17	100.0	MG/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	6/30/2015	EFF-12	1		P 00400	pH		6.7	6.0	SU	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-012	6/30/2015	EFF-12	1		P 00400	pH		8.5	9.0	SU	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	6/30/2015	EFF-13	1		P 50050	Flow		0.57	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	6/30/2015	EFF-13	1		P 50050	Flow		0.85	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	6/30/2015	EFF-13	1		P 00556	Oil and Grease		MNR	15.0	MG/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	6/30/2015	EFF-13	1		P 00556	Oil and Grease		MNR	20.0	MG/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	6/30/2015	EFF-13	1		P 00530	Solids, Total Suspended		MNR	30.0	MG/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	6/30/2015	EFF-13	1		P 00530	Solids, Total Suspended		MNR	100.0	MG/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	6/30/2015	EFF-13	1		P 00400	pH		7.7	6.0	SU	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-013	6/30/2015	EFF-13	1		P 00400	pH		7.7	9.0	SU	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	6/30/2015	EFF-14	1		P 82220	Flow, Total Volume		NOD	Report	Mgal	MP - Monthly Total	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	6/30/2015	EFF-14	1		P 82220	Flow, Total Volume		NOD	Report	Mgal	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	6/30/2015	EFF-14	1		P 01119	Copper, Total Recoverable		NOD	1.0	MG/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	6/30/2015	EFF-14	1		P 00980	Iron, Total Recoverable		NOD	1.0	MG/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	6/30/2015	EFF-14	1		P 00556	Oil and Grease		NOD	15.0	MG/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-015	6/30/2015	EFF-14	1		P 00530	Solids, Total Suspended		NOD	30.0	MG/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	6/30/2015	EFF-7	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	6/30/2015	EFF-7	1		P 50050	Oil and Grease		NOD	Report	MG/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	6/30/2015	EFF-7	1		P 00530	Solids, Total Suspended		NOD	50.0	MG/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	6/30/2015	EFF-7	1		P 00070	Turbidity		NOD	Report	NTU	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	6/30/2015	EFF-7	1		P 00400	pH		NOD	6.0	SU	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01D	6/30/2015	EFF-7	1		P 00400	pH		NOD	9.0	SU	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	6/30/2015	EFF-11	1		P 50050	Flow		0.65	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	6/30/2015	EFF-11	1		P 50050	Flow		0.45	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	6/30/2015	EFF-11	1		P 00556	Oil and Grease		MNR	15.0	MG/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	6/30/2015	EFF-11	1		P 00556	Oil and Grease		MNR	20.0	MG/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	6/30/2015	EFF-11	Y		P 00530	Solids, Total Suspended		3	30.0	MG/L	AB - Annual Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-01E	6/30/2015	EFF-11	1		P 00530	Solids, Total Suspended		3	100.0	MG/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	6/30/2015	INT-1	7		P 50050	Flow		181	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	6/30/2015	INT-1	7		P 50050	Flow		174	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	6/30/2015	EFF-1	1		P 00011	Temperature (F), Water		99.9	Report	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	6/30/2015	EFF-1	1		P 00011	Temperature (F), Water		109.2	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	6/30/2015	INT-1	Q		P 00011	Temperature (F), Water		91	Report	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	6/30/2015	INT-1	Q		P 00011	Temperature (F), Water		97.2	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	6/30/2015	EFF-1	1		P 61576	Temp. Diff. between Intake and Discharge		10	13.2	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	6/30/2015	EFF-1	1		P 61576	Temp. Diff. between Intake and Discharge		15.7	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	6/30/2015	EFF-1	1		P 34044	Oxidants, Total Residual		MNR	0.2	MG/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	6/30/2015	EFF-1	1		P 34044	Oxidants, Total Residual		MNR	0.2	MG/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	6/30/2015	INT-3	7		P 78739	Chlorination Duration		0	1440.0	min	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	6/30/2015	INT-5	Q		P 78739	Chlorination Duration		0	120.0	min	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	6/30/2015	EFF-4	1		P 00400	pH		7.8	9.0	SU	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11A	6/30/2015	EFF-4	1		P 00400	pH		7.5	6.0	SU	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-118	6/30/2015	INT-2	7		P 50050	Flow		181	Report	MGD	MK - Monthly Average	

FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	6/30/2015	INT-2	7		P 50050	Flow		181	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	6/30/2015	EFF-2	1		P 00011	Temperature (F), Water		106.4	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	6/30/2015	EFF-2	1		P 00011	Temperature (F), Water		97.8	Report	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	6/30/2015	INT-2	Q		P 00011	Temperature (F), Water		88.8	Report	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	6/30/2015	INT-2	Q		P 00011	Temperature (F), Water		94	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	6/30/2015	EFF-2	1		P 61576	Temp. Diff. between Intake and Discharge		12.3	Report	Deg F	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	6/30/2015	EFF-2	1		P 61576	Temp. Diff. between Intake and Discharge		8	13.2	Deg F	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	6/30/2015	EFF-2	1		P 34044	Oxidants, Total Residual		MNR	0.2	MG/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	6/30/2015	EFF-2	1		P 34044	Oxidants, Total Residual		MNR	0.2	MG/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	6/30/2015	INT-4	7		P 78739	Chlorination Duration		0	1440.0	min	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	6/30/2015	INT-6	Q		P 78739	Chlorination Duration		0	120.0	min	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	6/30/2015	EFF-4	1		P 00400	pH		7.8	9.0	SU	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-11B	6/30/2015	EFF-4	1		P 00400	pH		7.5	6.0	SU	DD - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	6/30/2015	EFF-5	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	6/30/2015	EFF-5	1		P 50050	Flow		NOD	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	6/30/2015	EFF-5	1		P 00556	Oil and Grease		NOD	20.0	MG/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	6/30/2015	EFF-5	1		P 00556	Oil and Grease		NOD	15.0	MG/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	6/30/2015	EFF-5	1		P 00530	Solids, Total Suspended		NOD	100.0	MG/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16A	6/30/2015	EFF-5	1		P 00530	Solids, Total Suspended		NOD	30.0	MG/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	6/30/2015	EFF-6	1		P 50050	Flow		NOD	Report	MGD	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	6/30/2015	EFF-6	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	6/30/2015	EFF-6	1		P 00556	Oil and Grease		NOD	20.0	MG/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	6/30/2015	EFF-6	1		P 00556	Oil and Grease		NOD	15.0	MG/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	6/30/2015	EFF-6	1		P 00530	Solids, Total Suspended		NOD	30.0	MG/L	MK - Monthly Average	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-16B	6/30/2015	EFF-6	1		P 00530	Solids, Total Suspended		NOD	100.0	MG/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-182	6/30/2015	EFF-9	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-182	6/30/2015	EFF-9	1		P 00530	Solids, Total Suspended		NOD	50.0	MG/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-182	6/30/2015	EFF-9	1		P 00400	pH		NOD	6.0	SU	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-182	6/30/2015	EFF-9	1		P 00400	pH		NOD	9.0	SU	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-183	6/30/2015	EFF-10	1		P 50050	Flow		NOD	Report	MGD	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-183	6/30/2015	EFF-10	1		P 00530	Solids, Total Suspended		NOD	50.0	MG/L	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-183	6/30/2015	EFF-10	1		P 00400	pH		NOD	9.0	SU	DD - Daily Maximum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	I-183	6/30/2015	EFF-10	1		P 00400	pH		NOD	6.0	SU	DC - Daily Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	6/30/2015	EFF-3	P		P TRP3E	IC25 Statre 7day Chr Mysid Bahia	>	100	100.0	PERCENT	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	6/30/2015	EFF-3	Q		P TRP3E	IC25 Statre 7day Chr Mysid Bahia	>	100	100.0	PERCENT	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	6/30/2015	EFF-3	R		P TRP3E	IC25 Statre 7day Chr Mysid Bahia	>	100	100.0	PERCENT	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	6/30/2015	EFF-3	P		P TRP6B	IC25 Statre 7day Chr Mendia	>	100	100.0	PERCENT	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	6/30/2015	EFF-3	Q		P TRP6B	IC25 Statre 7day Chr Mendia	>	100	100.0	PERCENT	ME - Minimum	
FL0001503	Fpl Lauderdale Plant	SED	IW	BROWARD	D-001	6/30/2015	EFF-3	R		P TRP6B	IC25 Statre 7day Chr Mendia	>	100	100.0	PERCENT	ME - Minimum	

FORM 2F

**APPLICATION FOR PERMIT FOR STORMWATER DISCHARGE
ASSOCIATED WITH INDUSTRIAL ACTIVITY**

FORM 2F



APPLICATION FOR PERMIT FOR STORMWATER DISCHARGE ASSOCIATED WITH INDUSTRIAL ACTIVITY

Facility I.D. Number: FL0001503

Please type or print in black ink. If additional space is needed for your answer, use plain sheets and attach to the application form.

I. Outfall Location:

For each outfall, list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water.

A. Outfall Number (list)	B. Latitude			C. Longitude			D. Receiving Water (Name)
D-0B1	26	04	05	80	11	45	Dania Cutoff Canal
I-1B4	26	04	13	80	11	57	Internal to Cooling Pond
I-1B5	26	04	15	80	11	43	Internal to Cooling Pond
D-002	26	04	29	80	11	42	South New River canal
See 2F Attachment 1							

II. Improvements:

A. Are you now required by any Federal, State, or local authority to meet any implementation schedule for the construction, upgrading or operation of stormwater or wastewater treatment equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders, and grant or loan conditions?

1. Identification of Conditions, Agreements	2. Affected Outfalls		3. Brief Description of Project	4. Final Compliance Date	
	No.	Source of Discharge		a. required	b. projected
N/A					

B. You may attach additional sheets describing any additional water pollution or other environmental projects which may affect your discharge that you now have underway or which you plan. Indicate whether each program is now underway or planned, and indicate your actual or planned schedules for construction.

III. Site Drainage Map:

Attach a site map showing topography depicting the facility including each of its intake and discharge structures; the drainage area of each stormwater outfall; paved areas and buildings within the drainage area of each stormwater outfall; each known past or present areas used for outdoor storage or disposal of significant materials; each existing structural control measure to reduce pollutants in stormwater runoff, materials loading and access areas, areas where pesticides, herbicides, soil conditioners and fertilizers are applied; each of its hazardous waste treatment, storage or disposal units; each well where fluids from the facility are injected underground; springs, and other surface water bodies which receive stormwater discharges from the facility. Show hazardous waste storage or disposal areas that do not require a RCRA permit separate from those which do require a permit.

IV. Narrative Description of Pollutant Sources:

A. For each outfall, provide an estimate of the area (include units) of impervious surfaces, including paved areas and building roofs, drained to the outfall, and an estimate of the total surface area drained by the outfall.

Outfall No.	Area of Impervious Surface (units)	Total Area Drained (units)	Outfall No.	Area of Impervious Surface (units)	Total Area Drained (units)
D-0B1	~ 12.02 acres	~ 14.19 acres			
I-1B4	~ 21.52 acres	~ 25.53 acres			
I-1B5	~ 5.87 acres	~ 25.64 acres			
D-002	See 2F Attachment 1	See 2F Attachment 1			

B. Provide a narrative description of significant materials that are currently, or in the past three years have been, treated, stored or disposed in a manner that allows exposure to stormwater; method of treatment, storage, or disposal; past and present materials management practices employed to minimize contact with stormwater runoff; materials loading and access areas; and the location, manner, and frequency in which pesticides, herbicides, soil conditioners, and fertilizers are applied.

The Lauderdale Plant manages storm water using a Stormwater Pollution Prevention Plan (SWPPP) that minimizes contact between process materials and stormwater. Oil and chemical storage is in closed tanks with secondary containment. The SWPPP includes routine visual inspections of the stormwater ponds and structures; and maintenance, as necessary. The stormwater system is designed with dry detention ponds. Consequently, discharges are infrequent.

C. For each outfall, provide the location and a description of existing structural and nonstructural control measures to reduce pollutants in stormwater runoff; and a description of the treatment the stormwater receives, including the schedule and type of maintenance for control and treatment measures and the ultimate disposal of any solid or fluid wastes other than by discharge.

Outfall No.	Treatment	Table 2F-1 Code
D-0B1 D-002 I-1B4 I-1B5	FPL utilizes SWPPP and the Runoff is captured in a grassed dry storm water detention pond. The pond's outfall structure is equipped with a baffle for potential oil skimming. Discharge to wetlands and the cooling pond provides additional treatment by sedimentation. The stormwater is eventually discharged to surface water. All stormwater discharges are the same as described above.	1-V, 4-A

V. Non-stormwater Discharges:

A. I certify under penalty of law that the outfall(s) covered by this application have been tested or evaluated for the presence of non-stormwater discharges, and that all non-stormwater discharges from these outfall(s) are identified in either an accompanying DEP Form 62-620.910(5) or (7) (Forms 2CS or 2ES) application for the outfall.

Name and Official Title (type or print)	Signature	Date Signed
Tony Berros, PGD Plant General Manager		

B. Provide a description of the method used, the date of any testing, and the onsite drainage points that were directly observed during a test.

A dry weather site survey performed by the site environmental lead indicated no dry weather flows within the existing stormwater system including outfalls D-0B1, I-1B2, and I-1B3.

VI. Significant Leaks or Spills:

Provide existing information regarding the history of significant leaks or spills of toxic or hazardous pollutants at the facility in the last three years, including the approximate date and location of the spill or leak, and the type and amount of material released.

VII. Discharge Information:

A, B, C, & D: See instructions before proceeding. Complete one set of tables for each outfall. Annotate the outfall number in the space provided. Tables VII-A, VII-B, and VII-C are included on separate sheets numbered VII-1 and VII-2.

E. Potential discharges not covered by analysis - is any toxic pollutant listed in Table 2F-2, 2F-3, or 2F-4, a substance or a component of a substance which you currently use or manufacture as an intermediate or final product or by-product?

☐ Yes (list all such pollutants below)

☒ No (go to section VIII)

VIII. Biological Toxicity Testing Data

Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last 3 years?

☒ Yes (list results below)

☐ No (go to Section IX)

Chronic Whole Effluent Toxicity Testing (7-day, IC25) (Mysidopsis bahia and Menidia beryllina) Are conducted semi-annually on D-001

IX. Contract Analysis Information

Were any of the analysis reported in item VII performed by a contract laboratory or consulting firm?

☐ Yes (list the name, address, and telephone number of, and pollutants analyzed by each such laboratory or firm below)

☒ No (go to Section X)

A. Name	B. Address	C. Area Code & Phone No.	D. Pollutants Analyzed
NA	NA	NA	NA

X-A. CERTIFICATIONS FOR NEW OR MODIFIED FACILITIES

examined ¹

Signature _____

Gregory M. Powell, PE

Name (please type):

Golder Associates Inc.

Company Name:

Florida Registration No.: 31165

Telephone No.: (904) 363-3430

Email (optional):

Date:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name & Official Title (type or print)

(954) 797-1582

Telephone No. (area code & no.)

tony.j.berros@fpl.com

Email (optional)

Signature _____

Date Signed _____

X-B. CERTIFICATIONS FOR PERMIT RENEWALS

Signature

Name (please type):

(Affix Seal)

Company Name:

Address:

Florida Registration No.:

Telephone No.:

Email (optional):

Date:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name & Official Title (type or print)

Signature _____

Telephone No. (area code & no.)

Date Signed _____

Email (optional)

VII. Discharge Information (Continued from page 2F-15 of Form 2F)[illegible]

VII. Discharge Information (Continued from Table VII on page VII - 1 of Form 2F)

Part C - List each pollutant shown in Tables 2F-2, 2F-3, and 2F-4 that you know or have reasons to believe is present. Complete one table for each outfall. See instructions for additional details.

[illegible]

Part D - Provide data for the storm event(s) which resulted in the maximum values for the flow weighted composite sample.

1. Date of Storm Event	2. Duration of Storm Event (in minutes)	3. Total rainfall during storm event (in inches)	4. Number of hours between beginning of storm measured and end of previous measurable rain event	5. Maximum flow rate during rain event (specify units)	6. Total flow from rain event (specify units)	7. Comments
NA	NA	NA	NA	NA	NA	No Storm Sampling

Provide a description of the method of flow measurement or estimate.

NA

FORM 2F

ATTACHMENT 1

ADDITIONAL INFORMATION

Form 2F Attachment 1

Florida Power & Light Company – Lauderdale Plant

III. Site Drainage Map:

See SCA Appendix 10.4 (with attachments) for a complete description of the DBEC Stormwater Management Plan. The stormwater outfalls are summarized below:

D-0B1 is an existing stormwater outfall, replaced with construction of Unit 7 Pond 2; flows to the Dania Cutoff canal.

I-1B2 and I-1B3 are existing internal stormwater outfalls that flow to the discharge canal and then to the cooling pond. These outfalls will be removed with construction of Unit 7.

I-1B4 is an internal stormwater outfall, replaced by Unit 7 Pond 1. Unit 7 Pond 3 flows to Unit 7 Pond 1, which flows to the discharge canal and then to the cooling pond.

I-1B5 is an internal stormwater outfall for Unit 7 Pond 4, which is located north of the discharge canal and flows to the discharge canal and then to the cooling pond.

D-002 is an existing stormwater outfall for Unit 6 and the Gas Turbine (GT) Park located in the northern part of the Lauderdale Site. Discharge flows to wetlands and then to the South New River canal.

There are no hazardous waste treatment, storage or disposal facilities at this site. There are no injection wells where fluids are injected underground. The adjacent surface waters are shown on the location map (Form 1 Attachment 3).

IV. Narrative Description of Pollutant Sources

Outfall D-002 is an existing permitted stormwater outfall that is not modified by this application for DBEC (Unit 7). D-002 is for Unit 6 and the Gas Turbine Park located in the northern part of the Lauderdale Site.

VI. Significant Leaks or Spills

There has been one significant leak or spill of toxic or hazardous pollutants at the facility in the last three years.

On February 19, 2017, approximately 200 gallons of ultra-low sulfur diesel fuel was released to the concrete and asphalt surfaces on the west side of Unit 6E at the Lauderdale Plant. The release occurred as a result of a fuel filter drain valve that was left in the open position after vendor maintenance activities. Upon discovery, the valve was closed, cleanup activities were initiated, and the State Warning Point was notified. A Discharge Reporting Form (DRF) was submitted within 24 hours. Within one week, all impacted asphalt and gravel were removed, concrete and other

equipment were cleaned and the subsurface was tested. The testing showed no impact to the ground below the affected area.

There was one other leak during this time period. The leak was discovered on 1/23/17 and reported on 1/24/2017. This leak did not pose any threat to the environment. The discharge was not hazardous, non-toxic, and non-reactive; and no adverse impact to the environment was identified.

VII. Discharge Information

The stormwater system is designed with dry detention ponds. Consequently, discharges are infrequent. Stormwater outfalls were not discharging, hence no stormwater samples were collected for analysis. Please note that the stormwater management for the Lauderdale plant is covered under a SWPPP and visual inspection is conducted every quarter, and following any substantial rain event. The plan will be reviewed and updated, as necessary, when Unit 7 becomes operational.

Water quality constituents monitored at various points in the facility, as required by the current IWWF/NPDES permit, are listed in Table VII B. DMR Monitoring data for the current permit period from 6/1/2015 through 6/21/2017 is provided in Form 2CS Attachment 2.

APPENDIX 10.2.3

HAZARDOUS WASTE DISPOSAL APPLICATION/PERMIT

NOTE: No federal or state application or permit for hazardous waste disposal is required for the Project.

APPENDIX 10.2.4

SECTION 10 OR 404 APPLICATIONS/PERMITS

(See Appendix 10.4 – Environmental Resource Permit Application)