

# PRESS RELEASE

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## **WSC Wastewater Treatment Plant & Pumping Stations Construction Works**

Nassau, Bahamas - The Water and Sewerage Corporation (WSC) signed a contract with Island Site Development (ISD) totaling over eighteen Million (\$18.7) for the Rehabilitation of Small Pumping Stations and the construction of several wastewater treatment plants and pumping stations in New Providence.

The contract is funded by the Inter-American Development Bank (IDB) under a loan agreement signed in December of 2011, for the implementation of the WSC Support Program – New Providence Water Supply and Sanitations Systems Upgrade.

Included as a part of the third component of the WSC Support Program, WSC embarked on the development of a long term Wastewater Master Plan (2015 to 2035) to address; wastewater collection, treatment, and disposal needs of New Providence as well as the rehabilitation of critical sewerage infrastructure on the island. The long term objective of the Master Plan is to divide the island into three (3) drainage areas with three regional wastewater treatment plants (WWTP). The regional plants will be; Airport Industrial Park Plant to service the western drainage area, Gladstone Road Plant (under construction) for the central area and the Fox Hill plant (to be constructed in the long term phase) for the eastern area. This will help to reduce maintenance cost to the corporation and increase the efficiency of the wastewater collection and disposal system. The Master Plan was completed in October 2015, and from the plan it was determined which works were to be addressed as a part of the Immediate or critical works.

The construction works were divided into two parts; Small Works that addressed small lift stations, and Major Works which includes treatment plants and major pumping stations.

The Small Works commenced in January 2017 and were substantially completed in January 2018. The WSC took possession of these stations on February 20, 2018. These Stations were prioritized for immediate rehabilitation because of its deteriorated conditions.

The small works included the rehabilitation of 10 sewage pumping stations, installation of 1000 feet of gravity collection mains and other related works which included earth works, concrete works, electro-mechanical works, installation of standby generators and landscaping works. The 10 lots (sites) completed were: Nassau Street, Rawson Square, Supreme Court, Vista Marina, Lewis Street, Fox Hill , Pinewood C, Pinewood Plant, Flamingo Garden C, and Big Pond Stations. Additionally, the contract called for the procurement of forty eight (48) sewage pumps, five (5) standby generators and twenty-eight (28) control panels for use at various locations.

The Major Works Contract was procured using the IDB's tendering procedures for International Competitive Bidding (ICB). The contract was signed on March 30, 2017 and work began in June 2017. The Project is scheduled to be completed by the end of March 2019. The Major Works consist of the following four Work Packages:

### **Fox Hill Pretreatment Facility**

This work package involves the construction of a Pretreatment facility at the Fox Hill location with a mechanical bar screen for screening of the effluent before injection into a deep disposal well on-site. This facility will act as part of the head works for the proposed tertiary treatment plant to be constructed during the long term phase of the plan. The building structure is presently completed and the exterior pipework and tie-ins are being finalized before the flows can be directed to the facility.

Ultimately, the FHWTP will be constructed to treat approximately 5.4 million imperial gallons/day, as projected in the Master Plan for

2035 to meet stringent effluent quality for irrigational use. The plant is planned to be built in stages, and will eventually receive flows from subdivisions in the eastern area, Malcolm Park and the Pinewood Gardens drainage areas.

### **Malcolm Park Major Pump Station**

This Package includes the construction of a new Malcolm Park Main Pump Station for collection from the sub-basin and to pump the wastewater (after screening), into a new deep disposal well being constructed on site. The screened sewer from the Malcolm Park PS, in the long term, will ultimately be pumped via a forcemain to the proposed regional Fox Hill WWTP for full treatment.

The new Malcolm Park Pump Station is planned to serve the northern part of the city of Nassau, from Bay Street through Nautica and Vista Marina in the west to Dicks Point in the east and Shirley Street from Montague in the east and Frederick Street in the west. It will also serve parts of St. Albans Drive, Virginia Street, Delancy Street, West Street and George and Marlborough Streets, among others.

Initially, the PS is designed to handle a sewage flow of 1,750 igpm and the screened effluent will be injected into a deep disposal well on site. Provisions were made for future flows as the drainage area is increased. The Malcolm Park PS is located in an ecological sensitive location and in order to protect the environment, special measures are incorporated in the design. An odor control system is included as a part of the ventilation system which should help to control foul odor emissions.

### **Lynden Pindling International Airport Major Pump Station**

In this work package a new major pump station is being constructed at the Lynden Pindling International Airport (LPIA) wastewater treatment plant site with a new forcemain to connect the LPIA station to the Airport Industrial Park (AIP) wastewater treatment plant for full treatment, phasing out the existing LPIA WWTP. This is in accordance with the New Providence Sewage Master Plan and the long term proposal to reduce the number of individual wastewater treatment plants.

The new LPIA PS is designed to collect and transfer the generated wastewater from the international airport and the surrounding subdivisions. The PS is located at the existing LIAP WWTP that is to be decommissioned. The new LIAP PS is designed for an ultimate long term flow of about 825 igpm and will pump the screened effluent via a 1.9 mile 10 inch forcemain to the existing regional Airport Industrial Park WWTP.

### **Flamingo Gardens Major Pump Station**

This package includes the construction of a Major Pump Station at the Flamingo Garden WWTP site to drain the Flamingo Gardens sub-basin and to pump the wastewater (after screening), into a deep disposal well on site. In the long term, the treated effluent from this station will be pumped via a forcemain to the proposed regional Gladstone Road WWTP (under construction) for full treatment.

The new Flamingo PS will be able to drain the projected long term flow of about 4000 igpm, however; for the current stage, the pumping station will receive a peak flow of about 3000 igpm. In

future, the southern part of Flamingo Gardens will also be connected using gravity and forcemains.

The Sewer Master Plan has estimated approximately \$600M+o to provide sewer services throughout the island of New Providence. A study was conducted on the over-the-hill areas on the cost to provide sanitary sewer services and this was estimated to be approximately \$80M. This is presently being reviewed by the Government.

The main benefit of a centralized sewer collection and treatment system is the reduction in the number of septic tanks and outside toilets thus reducing the threat of contamination of the environment and the risk of waterborne diseases. This is the right of all citizens of The Bahamas, irrespective of their socio-economic situations.



The Major Works is scheduled to be completed by the end of March 2019. The project is expected to enhance the quality of treatment and disposal of wastewater and subsequently improve the overall sewerage services to all customers throughout New Providence.

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*The Water and Sewerage Corporation was established through an Act in 1976 with full responsibilities for managing, maintaining, distributing and developing the water resources of The Bahamas.*

*The Corporation has a team of over 400 dedicated employees in New Providence and the Family Islands, committed to the growth and excellence in service quality, which is the key driving force that guides and sustains the relationships with customers, employees, and communities served by the Corporation.*

*Through a loan with the IDB in 2011 the Water and Sewerage Corporation has developed the WSC Support Program to address Non-Revenue Reduction, WSC Institutional Strengthening, Rehabilitation and Upgrade of Wastewater Infrastructure and Preparation of a Wastewater Treatment Master Plan and an upgrade of the Legal and Regulatory Framework. The Support Program will ultimately improve the quality of water and service to customers.*