

**Minutes of a Meeting of the Environmental Authority  
Held on Tuesday, 29 March 2022  
At the Department of Environment and Natural Resources, Botanical Gardens, Paget  
and Remotely using WebEx Teleconference**

**PRESENT:** Ms. Davida Morris, Chair, (by remote access)  
Mr. Eugene Saunders, Deputy Chair  
Mrs. Susan Armstrong, Member (by remote access)  
Mr. Andrew Barnes, Member (by remote access)  
Mr. James Morrison, Member (by remote access)

**ADVISORS:** Dr. Shaun Lavis, Hydrogeologist, DENR  
Mr. Kirk Outerbridge, Chief Engineer, Public Works (by remote access)  
Mr. Tarik Christopher, Principal Engineer (Water & Sewage), Public Works  
(by remote access)  
Ms. Patricia Hollis, Environmental Officer, DENR, Recording Secretary

**ABSENT:** Mr. Willie Ferguson, Member  
Mr. Jonathan Starling, Member  
Dr. Geoff Smith, Environmental Engineer, DENR  
Mr. Tom Crossan, Chief Environmental Health Officer  
Mr. Armell Thomas, Senior Environmental Health Officer  
Mr. Paul McDonald, Acting Senior Planner, Dept. of Planning

**1. Confirmation of Minutes**

The Minutes of the meeting held on 22 February 2022 were approved and signed by the Deputy Chair.

**2. Ministry of Public Work Presentation: Airport Waste Management Annual Report**

Discussion on the Airport Waste Management facility annual report and operating licence reissue application was deferred.

**3. Ministry of Public Work Presentation: Marsh Folly Compost Facility Annual Report**

Discussion on the Marsh Folly compost facility annual report and operating licence reissue application was deferred.

**4. BELCO Air Quality Complaints – Responses to EA Letters**

There was nothing to report.

**5. Elbow Beach Waste Water Treatment Plant**

There was nothing to report.

**6. Tynes Bay Waste to Energy Facility**

There was nothing to report.

**7. Public Works/Rocon RO Plant Supply WR 5631 Update**

The Members were reminded that approval had been granted to Public Works to replace WR 5224 located near the north shore, St. George's because the well suffered from fouling, increased salinity, potential cross contamination with a disposal borehole and has ongoing access issues because the newly renovated golf course is in near constant use. Due to complexities caused by the renovation of the golf course, appropriate sites for a replacement well were limited. The most convenient site was determined to be near the old laundry, near the centre of the St. George's lens. Specific conditions to protect the lens and ground water were applied to WR 5224, however, these were overturned by the Minister of Home Affairs and standard conditions were attached.

After some drilling challenges (due to collapses from unconsolidated sand pockets), the well was completed in December 2021 and test pumping begun in January 2022. Close monitoring of the nearby groundwater will be undertaken for the first 6 months of pumping. Early monitoring results show that the ground water is affected by tidal influences which complicates the interpretation of pumping influence.

It appears that there is a temporary draw down of ground water in the immediate vicinity of the well, but this returns to “normal” within half a tidal cycle after pumping is stopped. Measurements showing an increase in the lens thickness (made during a period of pumping) probably indicates the temporary effects of pumping and the recent heavy rains. Monitoring will continue, and the Authority will be kept informed.

The Authority **TOOK NOTE** of the preliminary results and asked that the old well be sealed.

## 8. Applications for Construction Permits and Operating Licences (New)

### 8.1 The Authority **APPROVED**:

OL-1170 Appleby (Bermuda) Ltd. 363 kW moveable genset to be located and used at Cross Island, Dockyard, during Sail GP event, subject to standard conditions.

### 8.2 The Authority **APPROVED**:

CP-740, OL-1168 Steven Velotti, 20 kW LPG Genset, 2 Deepwood Drive, Pembroke, subject to standard conditions.

## 9. Applications for Construction Permits and Operating Licences (Reissues)

### The Authority **APPROVED**:

The applications for reissue of operating licences listed on the four page printout, subject to standard conditions. It was noted that OL-1169 and OL-1171 are for first-time cruise ships (Norwegian Pearl and Norwegian Getaway) and the exact number of controlled plant have yet to be finalized with the agent, Meyer Agencies. It was noted that the vessels were arriving imminently in Bermuda, and some language challenges prevented finalizing the applications before the meeting.

## 10. Import Permit for Refrigerant Gases

### The Authority **TOOK NOTE** of:

the issuance of an import permit C179, subject to standard conditions, to Continental Motors for 50 cylinders each containing 13.6 kg R134A.

## 11. Applications for Water Rights (New)

### The Authority **APPROVED**:

11.1 **WR-5745 Marold Cox** Water Right application for a domestic rain water disposal borehole at 39 Middle Road, Warwick, subject to standard conditions.

## 12. Applications for Water Rights (Reissue)

### The Authority **APPROVED**:

the reissuance of Water Rights on the one-page printout, subject to standard conditions, except the two indicated as withdrawn.

## 13. Applications for Well Diggers Licences (Reissue)

### The Authority **APPROVED**:

the applications for well diggers licences, subject to standard conditions, for:

- WD-02 Atlantic Water Development Ltd.
- WD-05 Aardvark Drilling Inc.
- WD-01 E & C Well Drilling

## 14. Climate Change Study

### The Authority **TOOK NOTE**:

of the climate change study being undertaken by Smith Warner. DENR is contributing to the extensive assessment of Bermuda’s sensitivity to climate change.

## 15. Date of the Next Meeting

The date of the next meeting was set for Tuesday, 26 April 2022.

  
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CHAIRMAN

26/4/2022  
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DATE