## SEP13'19 Am10:59 DAS



STATE OF NEW HAMPSHIRE DEPARTMENT of NATURAL and CULTURAL RESOURCES **DIVISION of PARKS and RECREATION** 172 Pembroke Road Concord, New Hampshire 03301 Phone: (603) 271-3556 Fax: (603) 271-3553 Web: www.nhstateparks.org

'August 30, 2019

His Excellency, Governor Christopher T. Sununu and the Honorable Executive Council State House Concord, New Hampshire 03301

#### **REQUESTED ACTION**

Authorize the Department of Natural and Cultural Resources, Division of Parks and Recreation (Department) to make a **Retroactive** payment to Portside Systems, LLC (VC #307354), Portsmouth, NH in the amount of \$21,542.54 for emergency replacement of the blower, diffusers, and variable frequency drive (VFD) at the wastewater treatment facility on the summit of Mount Washington in Sargent's Purchase, NH per invoice dated July 12, 2019. 100% Capital Funds

Funding is available in account, <u>17-228:1-XVIII:B Roofing and Repairs</u>, as follows:

03-035-035-350030-17190000034-500161-Capital Projects

<u>FY 2020</u> \$21,542.54

#### **EXPLANATION**

In order to meet the requirements of a Department of Environmental Services' Groundwater Discharge Permit, the Department requested that its Wastewater System Consultant, Underwood Engineering, solicit bids to secure a contractor to replace the blower and diffusers at the wastewater treatment facility (Facility) on the top of Mount Washington. Underwood Engineering solicited seven (7) contractors; three (3) contractors' submitted bids and four (4) declined the opportunity to bid. Of the bids received, Portside Systems, LLC (Portside) was the low bidder. While the Department was in process of completing a contract with Portside, sampling data revealed that the Facility's ability to process effluent was beginning to rapidly decline necessitating repairs. Continuing to operate without these repairs would have put us in violation of the permit; therefore, the Department requested that Portside perform the work on an emergency basis. During the replacement work, the VFD controlling the blower failed and required replacement as well. For these reasons, retroactive approval is now being sought to make payment to Portside. Portside's original bid amount was \$19,843; the additional work was \$1,699.54, for a total project cost of \$21,542.54.

Respectfully submitted,

Philip A. Director

Concurred,

Commissioner

Portside Systems, LLC Invoice 22 Cottage St Portsmouth, NH 03801 US marc@portsidesys.com www.portsidesys.com SHIP TO BILL TO Seth Prescott Seth Prescott State of New Hampshire, Department State of New Hampshire, Department of Natural and Cultural Resources of Natural and Cultural Resources 172 Pembroke Road 172 Pembroke Road Concord, NH 03301 USA Concord, NH 03301 USA TERMS INVOICE # DATE TOTAL DUE DUE DATE ENCLOSED 08/11/2019 \$21,542.54 Net 30 1747 07/12/2019 P.O. NUMBER P190301 DESCRIPTION AMOUNT SERVICE **ÖTY** RATE Complete Engineered System - As defined in Proposal 1 19,843.00 Engineered System 19,843.00 P190301 Rev 01 The below cost is for the VFD replacement as existing 1 0.00 0.00 Service Note VFD was found to be deficient during blower installation. **Misc Materials** Misc. Materials - Replacement VFD for Blower System, 664.34 664.34 1 provided at cost. See Grainger Invoice Attached. Service Labor Service Labor - Onsite Installation, Configuration, and 95.00 855.00 9, Testing of VFD Travel Cost - Mileage; Cost/Mile 212 0.85 180.20 Mileage 2.50 Travel to Site Location (Charged One Direction) -95.00 237.50 Travel **Dover NH to Mount Washington Summit General Discount** General Discount Granted - Reduction of one way 2.50 -95.00 -237.50 travei BALANCE DUE \$21,542.54



# Mt. Washington WWTF Upgrade

#### Proposal

n To	Seth Prescott		
Company	y State of NH, Dept. of Natural		
,	and Cultural Resources		
Telephone	(603) 271-3982		
Email	seth.prescott@dncr.nh.gov		
Date	6/26/19		

Portside Systems LLC Proposal Number:

P190301 REV01

#### Scope:

This proposal covers the procurement, pre-fabrication, and installation of the work done by Portside Systems, LLC in the Mt. Washington Wastewater Treatment Facility Upgrade Project. Portside Systems, LLC intends to bid the full responsibilities of the following segments of the project:

- Item 01: Replacement of existing blower with specified new blower.
- Item 02: Replacement of existing diffusers with specified new diffusers.
- Item 03: Onsite testing support and verification of work completed.

These items are as defined in an email from Underwood Engineers on 2/27/2019 along with the supplemental information provided in said email.

#### Item 01: Replacement of existing blower with specified new blower

Portside Systems will provide the following materials as specified for the replacement of the existing blower. This blower replacement is to replace in like kind as process connections are the same size (2.0" NPT) and mounting orientation is similar. This has been taken into consideration as a reduction in installation time.

ITEM #	DESCRIPTION	MFG	MODEL	QTY
<u>۳</u> 1	1 4 HP 208-230/460-60-3 regenerative blower		SCL K06-MS-4-3 NP	1
2	2 2" NPT swing check valve - F x F		CV20	1
3	2" NPT inlet filter / silencer	FPZ	FS-231P-200	1
4	Calibration of safety valve for PRESSURE service.	FPZ	M002	1
5	1/8" Tap installed on FS filter for dirty filter indicator (top location)	FPZ	M020	1
6	Pressure gauge - 0-200" H2O -2.5" dial 1/4" NPT back mount	FPZ	PG25-200	1
7	1/8" NPT Dirty filter indicator	FPZ	VG-020-013	1
8	Safety valve - 2" NPT	FPZ	VRL6	1

Doc Number: P190301 REV01



Portside Systems will also provide all needed hardware and piping associated with installing this new blower. The majority of this equipment will be pre-assembled and ready for installation prior to arriving onsite.

The existing variable frequency drive and electrical service is deemed suitable for use with the new blower system by similarity. The technicians will modify as needed to connect to new blower to this circuit. However, if electrical upgrades are found to be required once on site, this work will not be covered under this scope of work. Once installed, the blower motor will be bumped to check motor/blower rotation. It is assumed that this can be done via the front interface on the variable frequency drive or via the HMI.

#### Item 02: Replacement of existing diffusers with specified new diffusers

Portside Systems will provide the following materials as specified for the replacement of the existing diffusers. The existing diffusers are hard mounted to the existing 3/4" saddle taps on the main 3" trunk line. These diffusers will be removed and replaced with the diffuser assembly shown and defined in the Underwood Engineering provided drawing # 148610 by Environmental Dynamics Int'l. These diffusers will be connected via a provided cross connection fitting that will feed three (3) of the new diffusers from a single saddle tap. There are ten (10) existing diffusers being removed and twenty-nine (29) new diffusers being installed. The new weighted diffuser assembly will rest on the tank floor and be set/placed as shown in the Environmental Dynamics Int'l Drawing # 148610.

Portside Systems will conduct all work inside the bioreactor tank treating it as a confined space. Portside Systems will provide a fresh air blower and have one technician standing watch at the entrance of the confined space during all work conducted inside the bioreactor tank.

#### Item 03: Onsite testing support and verification of work completed

The work performed by Portside Systems technicians shall be functionally verified prior to completion of project. This will require assistance by a trained Mt. Washington WWTF staff member to operate the functions of the WWTF from the HMI/Software control system. It is assumed this support will be available nearing completion of project. Portside Systems can work to schedule this testing with a staff member while on site.

## **Project Execution:**

Portside Systems plans to execute the project of upgrading the WWTF in the following manner:

- Pre-purchased equipment will be procured and received.
- All systems that require assembly will be pre-built at the Portside Systems shop, and kitted for install.
- Two technicians will be utilized to transport the equipment to the Mt Washington WWTF, and install the system on site.
- After installation, testing will be conducted to ensure blower flow rates and diffusers are working properly.

Doc Number: P190301 REV01

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Page 2 of 4



## **Project Timeline:**

Portside Systems is expecting to have two technicians on site for a duration of up to 3 workdays. On-site work will be conducted in June of 2019, while procurement of equipment and system kitting will begin once payment is received.

## Site Work Expectations:

Prior to the arrival, it will be expected that the following actions are completed at the Mt. Washington WWTF:

- Prior to arrival of Portside Systems, the Mt Washington WWTF shall be in a suitable shutdown state for working on. Furthermore, the necessary holding tanks and equipment have been emptied, purged and cleaned.
- Mt. Washington Auto Road will be open for use of without cost for duration of on-site work.
- If Mt. Washington Auto Road is closed, transportation from base to summit will be provided.

#### **Project Exceptions:**

This proposal by Portside Systems, LLC covers items intended to be fulfilled per the Mt Washington Project information supplied by Underwood Engineering. Portside Systems, LLC shall not be held responsible for any of the following:

- Coordination of or providing any permits associated with this project.
- Provisions of moving/installing materials/equipment that is larger than two able men to carry.
- Any provision or rental of construction/rigging equipment.
- Purchasing any major equipment (greater than \$1000) outside of the outlined purchased equipment in this proposal.
- Contract price is subject to terms and conditions.

## Pricing

The total cost for this Mt. Washington WWTF Upgrade as defined above is \$19,843.

## Terms

**Payment Terms** 

Deposit:	65%	(\$12,898)	To place order	
Balance:	35%	(\$6,945)	Due at completion of project	
Leadtime:	2-3 Weeks ARD, Material lead times are 2-3 weeks.			

Doc Number: P190301 REV01



#### Systems Warranty:

Portside Systems will warranty the services provided to be completely fit for the purposes for which they are specified, to be completely tested, and free of defects. This warranty will extend for 90 days after customer acceptance of the system. This warranty is applicable provided that the systems are operated and maintained in accordance with Portside System's instructions, and accepted industry practices.

In the event a defect is discovered or observed in the system, Portside Systems should be notified in writing. Upon receipt of such notification, Portside Systems will investigate the options to repair, replace, or correct any and all specified defects. Portside Systems will make these corrective actions in a timely and business-like manner.

Portside Systems will not be liable for any consequential, indirect or incidental damages, which may be associated with installation or facilities where the Portside Systems provided system was installed. This warranty is exclusive and in lieu of all other warranties, written, oral or implied. All purchased parts and equipment shall be warrantied through the respective manufacturer.

Doc Number: P190301 REV01

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## State of New Hampshire Department of Natural and Cultural Resources Planning and Development

Mount Washington State Park Wastewater Treatment Facility Upgrade Project #CAP1972

## Bid Tabulation \*

Contractor	Lump Sum Bid Amount		
Portside Systems 22 Cottage Street			
Portsmouth, NH 03801	\$ 19,843		
TBuck Construction			
302 Auburn Road	\$ 21 452		
Turner, ME 04282	\$ 21,452		
PRB Construction	· · · · · · · · · · · · · · · · · · ·		
25 Country Club Road - Unit 505	\$ 32,500		
Gilford, NH 03249	\$ 52,500		
Infrastructure Construction Corp.			
9 Brown Hill Road	Solicited – Declined to bid		
Bow, NH 03304	- Sometica – Decimica to bla		
Ray's Electric Office			
33 Jericho Road	Solicited – Declined to bid		
Berlin, NH 03579	Sohered - Decimica to bla		
Scherbon Consolidated	• • • • • •		
40 Haverhill Road	Solicited – Declined to bid		
Amesbury, Ma 01913			
Keymont Construction			
116 Hounsell Ave	Solicited – Declined to bid		
Laconia, NH 03246	Solicited – Declined to bld		
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\* Bidding was performed by Underwood Engineers, Inc of 99 North Street, Concord, NH.