

AND FORCEMAINS

March 11, 2019

Moncton, NB

COURSE OJECTIVES AND OVERVIEW:

The objectives of this course are:

- To familiarize the attendees with lift stations and forcemains in wastewater conveyance; and
- To discuss issues related to design, operation and maintenance of lift stations and forcemains.

Introduction Orientation & objectives

introduction offentation to objectives			
8:30 AM to 9:00 AM	Lesson 1 Wastewater terminology		
9:00 AM to 10:00 AM	Lesson 2 Hydraulic concepts		
10:00 AM to 10:15 AM	Break		
10:15 AM to 11:00 AM	Lesson 3 Types of pumps		
11:00 AM to 12:00 PM	Lesson 4 Design factors		
12:00 PM to 1:00 PM	Lunch On your Own		
1:00 PM to 1:45 PM	Lesson 5 Station configuration		
1:45 PM to 2:30 PM	Lesson 6 Odor and corrosion		
2:30 PM to 3:00 PM	Lesson 7 Operations		
3:00 PM to 3:15 PM	Break		
3:15 PM to 4:00 PM	Lesson Review- Review key points to ensure understanding		
4:00 PM to 4:15 PM	Conclusion Questions/answers		

COURSE FORMAT:

Every attempt is made to keep the course informal and an enjoyable day-long training experience. Registration starts at 8:00 am, and the instructor will start shortly after 8:30. Lunch is 12:00-1:00pm. Wrap-up time is usually around 4:00pm. Though all workshops are non-smoking, ample breaks are provided for coffee and discussion.

COORDINATORS & PRESENTERS:

Kevin Murphy, P.Eng. is a Senior Mechanical Engineer with CBCL Limited with over 28 years of professional experience in the field of water and wastewater treatment plant, pumping station design and commissioning. He has extensive experience in hydraulics, pumping system design, pump failure, transient analysis, and pumping systems for various fluids including fuels, sludges, non-newtonian fluids, brine, chemicals and various other liquids. Mr. Murphy's experience includes analysis of transmission mains up to 48" in diameter and pumps up to 2000 Hp.

CONTACT INFORMATION:

Registration can be made by faxing or mailing the registration form on the reverse of this page, or on-line at www.acwwa.ca. For further information, please contact ACWWA Section office at 902-434-6002.

COURSE LOCATION:

Moncton Lions Center 473 St. George St. Moncton, NB Please print clearly and fax or mail to the address listed on the bottom of this form.

I wish to register for the following course:

Lift Stations and F	orcemains	March 11, 2019	Moncton, NB
Name:			
Organization:			
Mailing Address:			
City, Province:		Postal (Code:
Phone:	Fax:	Email: _	_
ACWWA Membership #: (If no membership number	r is listed, you will	WEF Membership #:be invoiced as a non-member.	See pricing below.)
Fee for AC		Members & Employees of U + \$42.00 HST (15%) = \$32	•
		for Non – Members + \$44.85 HST (15%) = \$34	3.85
		include coffee breaks unch on your own	
Payment can be made babove.	oy visa, master ca	rd or cheque. Invoices will	be sent to the address listed
Please send PO number	if you want it inclu	ided on the invoice.	
Card Holder's Name			
		Expiry	
Signature			
	Cheques s	hould be made payable to	

ACWWA
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