

DEVELOPING MUNICIPAL IDDE PARTNERSHIPS

IDDE COMPLIANCE

MS4 PERMIT

Municipality/Organization: Lexington #1426
EPA NPDES Permit Number: MAR041042
MaDEP Transmittal Number: X-255736
Annual Report Number
& Reporting Period: No. 11 April 1, 2013 to March 31, 2014

NPDES Phase II Small MS4 General Permit Annual Report

Part I. General Information

Contact Person: John R Livsey, PE Title: Town Engineer

Telephone: 781-274-8305 Email: jlivsey@lexingtonma.gov

Mailing Address: Samuel Hadley Public Services Building, 201 Bedford Street,
Lexington, MA 02420

Certification:

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.

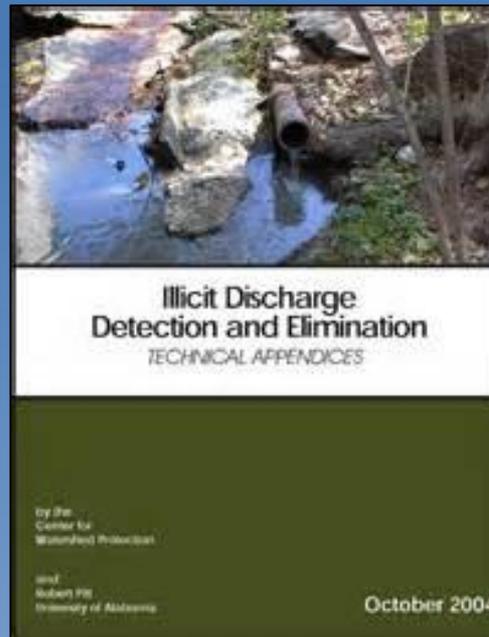
Signature: _____

Printed Name: John R Livsey

Title: Town Engineer

Date: _____

IDDE MANUAL

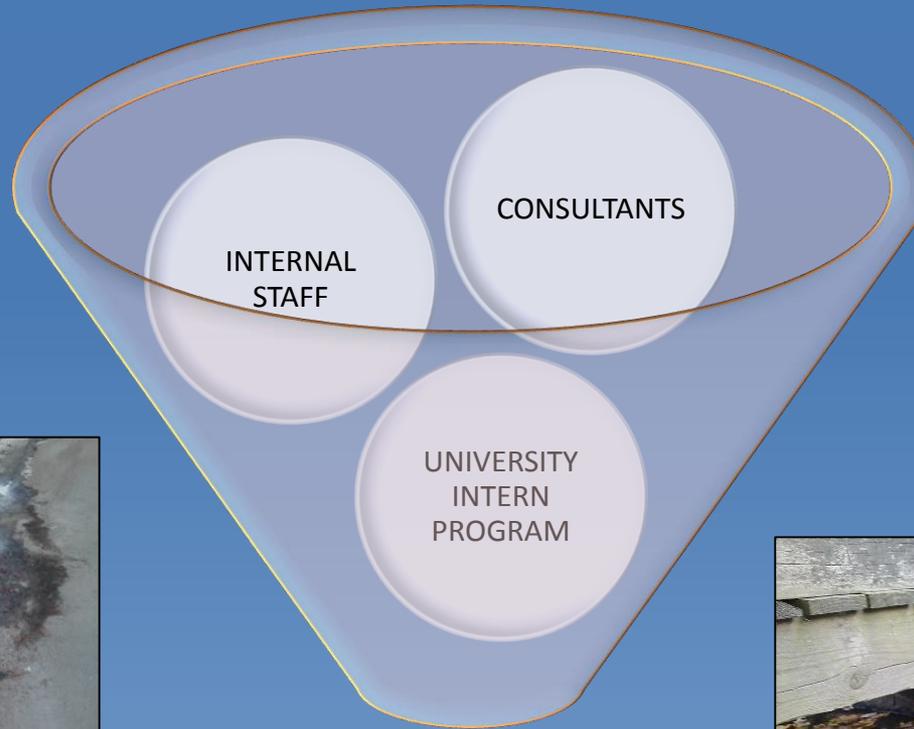


IDDE FIELDWORK

NORTH LEXINGTON BROOK OUTFALL



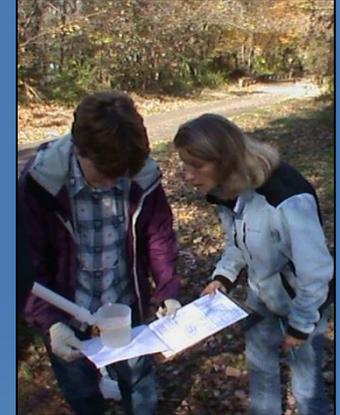
SOLUTIONS TO MEET IDDE CHALLENGES



LEXINGTON'S IDDE PROGRAM



A HISTORY OF LEXINGTON'S VOLUNTEER PROGRAMS



2009-2011 SINGLE DAY VOLUNTEER PROJECTS

2011-2013 VOLUNTEER OUTFALL
INVENTORY PROGRAM



2013 FALL INTERN PROGRAM



BUILDING A UNIVERSITY IDDE PROGRAM



Prof. Edward L. Hajduk, D.Eng, PE
Faculty Advisor
UMass Lowell ASCE Student Chapter



INTERN TRAINING SESSION IN LEXINGTON DPW



TASKS OF A UNIVERSITY IDDE PROGRAM

TOWN OF LEXINGTON

SAMPLE COLLECTION DATA SHEET

UMASS LOWELL
STREAM TEAM

Sub watershed: Vine brook	Date: 6/5/14	Investigators: DP,MS
Temperature (Air)-F°: 70	Rainfall (in.) last 24 hours: 0.2	Form Completed by: MS

SAMPLE LOCATION:	Time	Flow Present? (Y/N)	Flow Description	Clarity	Color	Odor	Temp (F) *	DO (mg/l)*	SP Cond*(µmhos/cm)	Chlorinex	Ammonia test strip (mg/l)	Samples for lab†
OF 15-30	1030	Y	Moderate	Clear	Clear	None	68	8.56	188.72	0.00	0.25	E,A,S

Key for data collection

Water Flow Parameters to be used above				†Samples for the lab Abbreviations to be used above		
Flow Present?	Yes	No		E = Ecoli	FC = Fecal Coliform	A=Ammonia
Flow Description	Trickle	Moderate	Substantial	TP = Total Phosphorus		S=Surfactant

Water Quality Parameters to be used above								
Clarity	Clear	Cloudy						
Color	Clear	Grey	Tea	Light Green	White	Other		
Odor	None	Musty	Fishy	Oily	Organic	Sewage	Rotten Eggs	Other

*Record Values from YSI meter for Temp, DO & Conductivity ×Record number from colorimeter

Comments or unusual flow observations



DEMANDS OF A UNIVERSITY IDDE PROGRAM

Time	Monday Sep 17	Tuesday Sep 18	Wednesday Sep 19	Thursday Sep 20	Friday Sep 21
8:00AM	CHE 100 - 001 Chemical Eng'g Concepts 1 LEC - Lecture 8:30AM - 9:20AM Instructors: Eric Cronet	MATH 115 - 001 Linear Algebra (Eng) LEC - Lecture 8:30AM - 9:20AM Instructors: Tina Dasher	CHE 100 - 001 Chemical Eng'g Concepts 1 LEC - Lecture 8:30AM - 9:20AM Instructors: Eric Cronet	MATH 115 - 001 Linear Algebra (Eng) LEC - Lecture 8:30AM - 9:20AM Instructors: Tina Dasher	CHE 100 - 001 Chemical Eng'g Concept LEC - Lecture 8:30AM - 9:20AM Instructors: Eric Cronet
9:00AM	EET - Environmental & InfoTech 1015 Instructors: Ruth Malinowski	EET - Environmental & InfoTech 1015 Instructors: Ruth Malinowski	EET - Environmental & InfoTech 1015 Instructors: Ruth Malinowski	EET - Environmental & InfoTech 1015 Instructors: Ruth Malinowski	EET - Environmental & InfoTech 1015 Instructors: Ruth Malinowski
10:00AM	CHE 102 - 001 Chemistry for Engineers LEC - Lecture 9:30AM - 10:20AM Instructors: Ruth Malinowski	PHYS 115 - 001 Mechanics LEC - Lecture 9:30AM - 10:20AM Instructors: Michael Fish	PHYS 115 - 001 Mechanics LEC - Lecture 9:30AM - 10:20AM Instructors: Michael Fish	PHYS 115 - 001 Mechanics LEC - Lecture 9:30AM - 10:20AM Instructors: Michael Fish	MATH 115 - 002 Linear Algebra (Eng) LEC - Lecture 9:30AM - 10:20AM Instructors: Ruth Malinowski
11:00AM	MATH 116 - 001 Calculus 1 for Engineering LEC - Lecture 10:30AM - 11:20AM Instructors: Ruth Malinowski	CHE 102 - 001 Chemistry for Engineers LEC - Lecture 10:30AM - 11:20AM Instructors: Juan Soares	MATH 116 - 001 Calculus 1 for Engineering LEC - Lecture 10:30AM - 11:20AM Instructors: Ruth Malinowski	CHE 102 - 001 Chemistry for Engineers LEC - Lecture 10:30AM - 11:20AM Instructors: Juan Soares	MATH 116 - 001 Calculus 1 for Engineer LEC - Lecture 10:30AM - 11:20AM Instructors: Ruth Malinowski
12:00PM					
1:00PM		MATH 115 - 101 Mechanics TUT - Tutorial 12:30PM - 2:20PM DWE - Douglas Wright Eng 3517 Staff	PHYS 115 - 101 Mechanics TUT - Tutorial 12:30PM - 2:20PM NC - Mathematics & Computer 4040 Staff	MATH 116 - 101 Calculus 1 for Engineering TUT - Tutorial 12:30PM - 2:20PM DWE - Douglas Wright Eng 3517 Instructors: Ruth Malinowski	CHE 102 - 102 Chemistry for Engineer TUT - Tutorial 12:30PM - 2:20PM DWE - Douglas Wright Eng Staff
2:00PM					
3:00PM	CHE 100 - 101 Chemical Eng'g Concepts 1 LAB - Laboratory 2:30PM - 5:20PM CPH - Carl A Pollock Hall 1346 Instructors: Michael Frazier	CHE 100 - 202 Chemical Eng'g Concepts 1 TUT - Tutorial 3:30PM - 4:20PM RCH - Rad Courts Hall 206 Instructors:			
4:00PM					
5:00PM					
6:00PM					
7:00PM					
8:00PM		CHE 100 - 101 Chemical Eng'g Concepts 1 LAB - Laboratory 7:00PM - 9:50PM CPH - Carl A Pollock Hall 1346 Staff			
9:00PM					
10:00PM					

TIME COMMITMENT



TESTING EQUIPMENT



UNIVERSITY STUDENTS



BENEFITS TO A UNIVERSITY IDDE PROGRAM



2013-2014 STREAM TEAM

