- AGENDA -

NH Lower Merrimack Valley Stormwater Coalition Meeting

Remote Meeting – Teleconference (check your email from Deb Loiselle for details)

Thursday, April 9, 2020

1:00 – 3:00 p.m.

SEE WHAT SOME OF YOUR MS4 FRIENDS HAVE BEEN UP TO RECENTLY AND ENJOY THE PHOTOS WHILE YOU ARE ON HOLD. SEE POWER POINT SLIDES NUMBERED 2-7

THE MEETING WILL BEGIN ON POWER POINT SLIDE 8
LABELLED "SLIDE 1" – ROLL CALL - INTRODUCTIONS

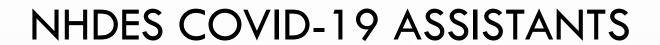
NHDES COVID-19 ASSISTANTS



Cedar Loiselle



Bea Zink





Spare McMillan



Kevin Swenson

DAWN TUOMALA HAS BEEN BUSY LENDING A HELPING HAND TO HER HOMETOWN OF WILTON, NH

The Wilton Lyndeborough Womens Club has initiated "Wilton Cares" and "Lyndeborough Cares" to put food and supplies in the hands of those who are quarantined. The restaurants in town along with many others are also participating in the efforts to supple those who can't serve themselves.

Saturday mornings the Fire Department lines up to deliver the packages to families in need. There is also a photo of one of the cars that comes in with donations for the families. The communities are coming together to fight this. A very heartfelt thanks to all of the people continuing to the cause. Stay strong, we'll get through this together.

Dawn





JEREMY BOUVIER IS ENJOYING TIME WITH HIS FAMILY





DEB TRIED TO TRACK DOWN A PHOTO OF JEREMY BOUVIER ONLINE AND LOOK WHAT SHE FOUND...LOOKS LIKE JEREMY HAS GOTTEN HIMSELF INTO SOME TROUBLE!



DEB LOISELLE HAS BEEN ENJOYING SUNSETS, MOONSETS, AND TIME WITH FAMILY









SLIDE 1
ROII

1. Introductions



DEB LOISELLE WILL
CONDUCT ROLL CALL

INDIVIDUALS WILL BE **ASKED TO IDENTIFY THEMSELVES** ALPHABETICALLY BY MUNICIPALITY OR AFFILIATION. PLEASE PUT YOUR **PHONE ON MUTE** UNTIL YOU ARE **ASKED TO IDENTIFY YOURSELF**

SLIDE 2 Housekeeping

Identify yourself first if you are asking a question of the presenter

If for some reason the call ends unexpectedly – call back in

Be patient with unforeseen issues

Mute phones unless you are speaking

Presenters will identify the slide they are on

Slides are numbered and noted at the top of each slide

Helpful hints from Tom Swenson for opening documents

2. APPROVE MEETING MINUTES

- FEBRUARY 20, 2020 POSTPONE UNTIL FURTHER NOTICE
- MARCH 12, 2020

3. EPA UPDATES



SUZANNE WARNER (EPA REGION 1) WILL BE JOINING US AND PROVIDING INFORMATION AND UPDATES ON SEVERAL ITEMS

- NH MS4 GENERAL PERMIT
 - CURRENT DEADLINES EXTENSIONS DUE TO COVID PANDEMIC?
 - PROPOSED NH AND MA MODIFICATIONS, AND UPDATE ON DEADLINES AND PUBLIC INFORMATION MEETINGS
 - YEAR 1 ANNUAL REPORT REVIEWS
 - YEAR 2 ANNUAL REPORT TEMPLATE
 - APPENDIX F PHOSPHOROUS CONTROL PLAN LEGAL REVIEW. REFER TO <u>APPENDIX F</u> (PAGE 15 OF 22)
- PROPOSED MULTI-SECTOR GENERAL PERMIT (MSGP)

SLIDE 5 EPA STORMWATER UPDATES

SUZANNE WARNER

4/9/2020



SLIDE 6 MS4 MODIFICATIONS

- SAME MODIFICATIONS AS PROPOSED IN SETTLEMENT AGREEMENT PUBLIC NOTICE
 - WATER QUALITY BASED REQUIREMENTS
 - DEVELOPMENT/REDEVELOPMENT ORDINANCE
 - CONSTRUCTION SECTION REARRANGING
- 45 DAY PUBLIC COMMENT PERIOD HASN'T YET BEGUN



SLIDE 7 MS4 ANNUAL REPORTS

- EPA PLANS TO USE CHECK BOX FORMAT
- PLAN TO PROVIDE A PDF VERSION
- OPEN TO FEEDBACK ON SUGGESTED FORMATS
- HOPE TO SOLICIT FEEDBACK ON A DRAFT REPORT PRIOR TO RELEASING THE FINAL AROUND
- ANNUAL REPORTS WILL STILL BE DUE 90 DAYS AFTER THE CLOSE OF THE REPORTING PERIOD APPROX SEPT 28TH

SLIDE 8 COMPLIANCE AND COVID-19

https://www.epa.gov/sites/production/files/2020-03/documents/oecamemooncovid19implications.pdf

- 1. Entities should make every effort to comply with their environmental compliance obligations.
- 2. If compliance is not reasonably practicable, facilities with environmental compliance obligations should:
 - a. Act responsibly under the circumstances in order to minimize the effects and duration of any noncompliance caused by COVID-19;
 - b. Identify the specific nature and dates of the noncompliance;
 - c. Identify how COVID-19 was the cause of the noncompliance, and the decisions and actions taken in response, including best efforts to comply and steps taken to come into compliance at the earliest opportunity;
 - d. Return to compliance as soon as possible; and
 - e. Document the information, action, or condition specified in a. through d.



SLIDE 9 COMPLIANCE AND COVID-19

- NO PLANNED DEADLINE EXTENSIONS / MODIFICATIONS TO THE PERMIT LANGUAGE
- ENFORCEMENT DISCRETION IS HAPPENING AT THE NATIONAL LEVEL
- PLEASE DOCUMENT WHAT CAN AND CANNOT BE DONE DURING THE REPORTING PERIOD AND WHY IN YOUR SWMP AND ANNUAL REPORT



SLIDE 10 2020 MSGP DRAFT

- 1. HTTPS://WWW.EPA.GOV/NPDES/PROPOSED-2020-MSGP-PUBLIC-COMMENT
- 2. EPA IS TAKING COMMENT THROUGH MAY 1ST
- 3. COMMENTS CAN BE MADE ONLINE AT REGULATIONS.GOV:

 HTTPS://WWW.REGULATIONS.GOV/DOCKET?D=EPA-HQ-OW-2019-0372
- 4. REGION 1 CONTACT IS DAVID GRAY (GRAY.DAVIDJ@EPA.GOV; 617-918-1577)



SLIDE 11 2020 MSGP DRAFT

- MANY OF THE PROPOSED CHANGES COME FROM LITIGATION OVER THE 2015 MSGP
- 2. NAS NRC STUDY OF INDUSTRIAL STORMWATER AROUND THE COUNTRY:

HTTPS://WWW.NAP.EDU/CATALOG/25355/IMPROVING-THE-EPA-MULTI-SECTOR-GENERAL-PERMIT-FOR-INDUSTRIAL-STORMWATER-DISCHARGES

- 1. SUGGEST BENCHMARK MONITORING IMPROVEMENTS
- 2. STUDY NUMERIC SW RETENTION REQUIREMENTS
- 3. EVALUATE SECTOR-SPECIFIC INFORMATION AND HIGHEST PRIORITY INDUSTRIES FOR ADDTL MONITORING

SLIDE 12 2020 MSGP DRAFT – A SAMPLER OF CHANGES (THIS IS NOT A FULL LIST – SEE PERMIT)

- COAL TAR SEALANTS EXCLUSION
- 2. UNIVERSAL BENCHMARK

 MONITORING FOR PH, TSS, COD

 OF SW DISCHARGES

Table 8.1.1 – Universal Benchmark Monitoring Applicable to All Sectors				
Subsector	Parameter	Concentration		
All sectors/subsectors	рН	6.0 – 9.0 s.u.		
	Total Suspended Solids (TSS)	100 mg/L		
	Chemical Oxygen Demand (COD)	120 mg/L		

3. NEW BENCHMARKS FOR

SECTORS I, P, AND R (P INCLUDES

MOTOR FREIGHT &

WAREHOUSING)

Table 8.P-1.			
Subsector (You may be subject to requirements for more than one sector/subsector)	Parameter	Benchmark Monitoring Concentration	
Subsector P1. Railroad Transportation; Local and Highway Passenger Transportation; Motor Freight Transportation and Warehousing; United States Postal Service;	Total Recoverable Lead (freshwater) ² Total Recoverable Lead (saltwater) ¹	Hardness Dependent 210 µg/L	
Petroleum Bulk Stations and Terminals (SIC 4011, 4013, 4111-4173, 4212-4231, 4311, 5171)	Total Recoverable Mercury (freshwater) Total Recoverable Mercury (saltwater) ¹	, 0	

SLIDE 13 2020 MSGP DRAFT – A SAMPLER OF CHANGES (THIS IS NOT A FULL LIST – SEE PERMIT)

- TIERED CORRECTIVE ACTION TYPE ACTIONS (ADDITIONAL IMPLEMENTATION MEASURES) FOR BENCHMARK EXCEEDANCES (P. 36 OF DRAFT PERMIT DOCUMENT)
- 2. IMPAIRED WATERS MONITORING FOR ALL POLLUTANTS ASSOCIATED WITH INDUSTRIAL ACTIVITY AT THE SITE



SLIDE 14 DISCUSSION

SUZANNE WARNER

617-918-1383

WARNER.SUZANNE@EPA.GOV

SLIDE 15 4. MCM #1YEAR 2 REQUIREMENTS





BARB MCMILLAN AND TOM SWENSON WILL FACILITATE THIS DISCUSSION

- DEVELOPER/CONTRACTOR CHECKLIST/OUTREACH
- UPDATE ON UNHT2 AND FUTURE POTENTIAL TRAINING
- SUGGESTIONS FOR ADDRESSING YEAR 2 MCM #1 REQUIREMENTS DURING COVID-19
- UPDATES FROM UNH COOPERATIVE EXTENSION AND PREP REGARDING MCM #1 CAMPAIGNS AND METRICS.

SLIDE 16 DEVELOPER/CONTRACTOR CHECKLIST/OUTREACH

- 1. SOP: https://www4.des.state.nh.us/nh-ms4/wp-content/uploads/2020/04/sop-developement.docx
- 2. DOVER: https://www4.des.state.nh.us/nh-ms4/wp-content/uploads/2020/04/dover-construction-checklist.doc
- 3. DERRY: https://www4.des.state.nh.us/nh-ms4/wp-
 CONTENT/UPLOADS/2020/04/DERRY-CONSTRUCTION-DOCUMENT.DOCX
- 4. CONSTRUCTION: https://www4.des.state.nh.us/nh-ms4/wp-content/uploads/2020/04/construction-factsheet.pdf
- 5. EPA: https://www.4.des.state.nh.us/nh-ms4/wp-content/uploads/2020/04/epa-
 DEVELOPERS-FACTSHEET.DOC

SLIDE 17 COVID-19 SUGGESTIONS

FERTILIZER AND LEAF AND YARD WASTE:

BLOG POST (LINK TO COME)

SEPTIC SYSTEMS:

• PRESS RELEASE <u>HTTPS://WWW.DES.NH.GOV/MEDIA/PR/2020/20200324-FLUSH.HTM</u>

MS4 BLOG: HTTPS://WWW4.DES.STATE.NH.US/NH-MS4/?PAGE ID=54

OTHER SUGGESTIONS?

Campaigns and metrics updates from UNH Cooperative Extension and PREP

• PET WASTE ONLINE PLEDGES: https://www4.des.state.nh.us/nh-ms4/wp-content/uploads/2020/04/PET-PLEDGES-7-1-19-TO-4-8-20.docx

Every Drop Online Pledges: 7/1/19- 4/8/20		
Dover	1	
Durham	1	
Exeter	1	
Greenland	1	
Manchester	2	
Pelham	1	
Portsmouth	2	
Total	9	

- DID WHAT WE PRODUCE WORK FOR COMMUNITIES? IF NOT, WHY AND WHAT COULD BE CHANGED?
- AND WHAT DO OUTREACH NEEDS FOR THE NEXT HANDFUL OF YEARS LOOK LIKE?

SLIDE 19 CAMPAIGNS AND METRICS UPDATES FROM UNH COOPERATIVE EXTENSION AND PREP CONTINUED

• FERTILIZER:

5. DRY WEATHER OUTFALL AND INTERCONNECTION SCREENING AND SAMPLING PROCEDURE

JAMIE HOULE (UNH STORMWATER CENTER) WILL FACILITATE THIS DISCUSSION

UPDATE ON WORK THAT UNH IS DOING

SECTION 2.3.4.7.B.I, PAGE 36

"THE PERMITTEE SHALL DEVELOP AN OUTFALL AND INTERCONNECTION SCREENING AND SAMPLING PROCEDURE TO BE INCLUDED IN THE IDDE PROGRAM..."

TEMPLATE EXAMPLES

Develop a dry weather flow sampling kit and procedure to test for:

> Ammonia, Chlorine, Conductivity, Salinity, E.Coli or enterococcus, Surfactants, Temperature, Pollutants of concern (phosphorus and nitrogen)

Procedure to include:

- > Sample collection
- > Use of field kits
- > Storage and conveyance of samples (include relevant hold times)
- > Field data collection and storage

DRY WEATHER CATCHMENT INVESTIGATION PROCEDURE

- PLANS RELATED TO THE CONSTRUCTION OF THE STORM DRAIN AND OF SANITARY SEWERS
- PRIOR WORK PERFORMED ON THE STORM DRAINS OR SANITARY SEWERS.
- BOARD OF HEALTH OR OTHER MUNICIPAL DATA OR SEPTIC SYSTEM FAILURES OR REQUIRED UPGRADES
- COMPLIANT RECORDS RELATED TO SANITARY SEWER OVERFLOWS (SSO'S)
- SANITARY SEWER SURCHARGES
- SEPTIC SYSTEM BREAKOUTS

OTHER DELIVERABLES

- DEVELOP A COST ESTIMATE FOR IMPLEMENTATION OF PROPOSED PROCEDURES
- PRODUCE AN INSTRUCTIONAL VIDEO DEPICTING THE PROPOSED PROCEDURE

KIT COMPONENTS

YSI PROPLUS



IDDE SCREENING PARAMETERS

- AMMONIA
- CHLORINE
- CONDUCTIVITY
- SALINITY
- SURFACTANTS (SUCH AS MBAS)
- TEMPERATURE
- POLLUTANTS OF CONCERN





SLIDE 26 E. COLI AND ENTEROCOCCUS

- IDEXX QUANTI-TRAY SYSTEM.
- 100 ML OR LARGER FIELD SAMPLE
- MIXED WITH THE COLILERT GROWTH MEDIUM
- SEALED AND INCUBATED FOR 24 HRS
- RESULTS ARE OVSERVED UNDER A UV LIGHT

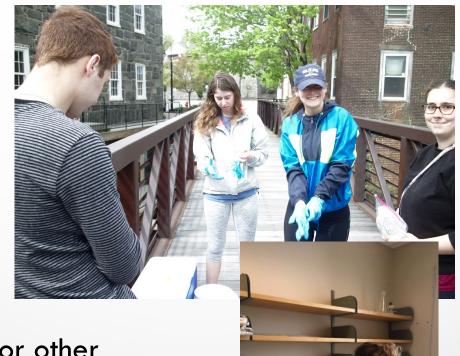


SLIDE 27 EDNA 101

Collect it

Sometimes filter or other post-processing

 Concentrate, extract, amplify, analyze and Interpret (Bioinformatics)



SLIDE 28 FINAL RESULTS

WHEN FECAL BACTERIAL

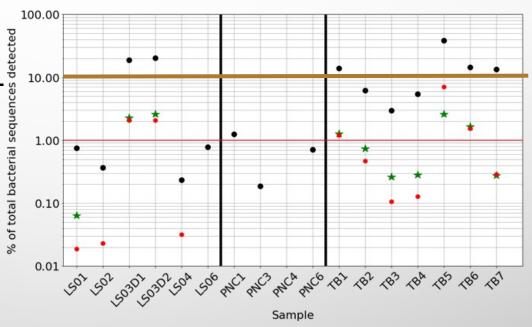
SEQUENCES ARE DETECTED AT 10 –

15% OF ALL OF THE

MICROORGANISMS HUMAN

WASTE IS MOST LIKELY PRESENT IN

THE SAMPLE.



- · fecal bacterial sequences detected
- ★ Faecalibacterium sequences detected
- Bacteroides sequences detected

SLIDE 29 SURFACTANTS

TWO DIFFERENT KITS WILL BE USED TO TEST FOR SURFACTANTS, BOTH AN INSTRUMENTAL KIT AS WELL AS A VISUAL KIT, BOTH PROVIDED FROM CHEMETRICS

	Instrumental Kit	Visual Kit
Range	0 to 2.5 ppm	0 to 3 ppm
Tests per Kit	20	20
Shelf Life	8 Months	5 Months

^{*} Both kits have issues related to toxic waste products (chloroform) and potential safety hazards

^{**} UNHSC will conduct a calibration test this summer using samples collected using an absorbent materials and a UV light.

SLIDE 30 IDDE SCREENING PARAMETERS

- AMMONIA
- CHLORINE
- CONDUCTIVITY
- SALINITY
- SURFACTANTS (SUCH AS MBAS)
- TEMPERATURE
- POLLUTANTS OF CONCERN





SLIDE 31 IDDE SCREENING PARAMETERS

- AMMONIA
- CHLORINE
- CONDUCTIVITY
- SALINITY
- SURFACTANTS (SUCH AS MBAS)
- TEMPERATURE
- POLLUTANTS OF CONCERN





SLIDE 32 POLLUTANTS OF CONCERN

PHOSPHATE

• THE HACH O-PHOSPHATE COLOR DISC TEST KIT WILL BE USED TO PROVIDE RESULTS THAT MEET TESTING REQUIREMENTS

	CHEMetrics K-8510	Hach 224800	
	Colorimetric	O-Phosphate	
	Phosphate Test Kit	Color Disc Test Kit	
Range	0-1 ppm	0-0.8 ppm	
Tests per Kit	30	100	
Test Type	Color Strips	Color Wheel	



SLIDE 33 POLLUTANTS OF CONCERN

- NITRATE
- THE YSI PRO PLUS CAN MEASURE NITRATE AND AMMONIUM.
- BOTH WILL BE QUANTIFIED DURING INVESTIGATIONS.

SLIDE 34 COST ESTIMATE

	Costs					
Test	Capital Cost	Tests/Refi 11	Refill Cost	Cost/Outfa ll	Adjusted cost/Outfall	Cost/All outfalls
Enterolert	\$5,050.00	20	\$128.40	\$6.42	¢5 15	¢1 075 21
Colilert	\$5,050.00	20	\$77.40	\$3.87	\$5.15	\$1,075.31
Quanti-tray		100	\$110.00	\$1.10	\$1.10	\$229.90
Surfactants: Instrumental	\$431.13	20	\$76.96	\$3.85	\$3.85	\$804.23
Surfactants: Visual	\$90.54	20	\$68.87	\$3.44	\$3.44	\$719.69
Phosphate		100	\$108	\$1.08	\$1.08	\$225.72
				\$19.76	\$14.62	\$3,054.85

SLIDE 35 COST ESTIMATE

	Cost		
Incubator	\$300.00		
IDEXX Sealer	\$4,750.50		
Surfactants: Instrumental	\$431.13		
Surfactants: Visual	\$90.54		
YSI ProPlus	\$2,904.00		
Capital Costs	\$8,476.17		
Total Refill Costs	\$3,054.85		
Total Cost	\$11,531.02		

SLIDE 36

6. MCM #4 CONSTRUCTION SITE RUNOFF CONTROL AND MCM #5 POST CONSTRUCTION STORMWATER MANAGEMENT

Jeanne Walker (Bedford) will facilitate this discussion

- •Summarize findings and recommendations on revisions to current templates to meet Year 2 requirements (and likely Year 3!) and proposed permit modifications
- •Town of Bedford approved ordinance and Stormwater & Land Disturbance Management Permit Application permit form



SLIDE 37

MCM#4 - PROPOSED MODIFICATIONS TEMPLATE (YEAR 2) ANNOTATED

- TOWN OF BEDFORD EXAMPLES
 - TOWN OF BEDFORD STORMWATER MANAGEMENT AND IDDE ORDINANCE
 - TOWN OF BEDFORD STORMWATER AND LAND DISTURBANCE PERMIT APPLICATION

THE ABOVE DOCUMENTS CAN BE FOUND ON THE MS4 BLOG UNDER "NH RESOURCES, MCM#4)

SLIDE 38 7. UPDATES & OTHER BUSINESS

 Long Island Sound Futures Fund 2020 RFP Proposals due June 2, 2020

Connecticut, Massachusetts, New Hampshire, New York and Vermont grants available for: Water quality – projects whose primary purpose is prevent or reduce nitrogen loading such as enhancing riparian forested buffer/channel, in-stream restoration, reducing agricultural runoff, low- cost retrofits at wastewater treatment facilities etc.

Check-out the RFP!

Register for a Webinar! RFP Updates & Enhancements – April 8, 10:00-11:30!

MA, NH, VT Applicants: Register Here

2020 Water Infrastructure Funding Workshop CANCELLED

April 10, 2020

NHDES Offices

29 Hazen Drive, Concord NH

Register Online: https://2020-nhdes-water-infrastructure-workshop.eventbrite.com

31st Annual Nonpoint Source Pollution Conference POSTPONED to April 2021

April 23 & 24, 2020

Woodstock Inn and Resort

Woodstock, VT

Agenda and Registration: https://neiwpcc.org/our-programs/nps/annual-nps-

conference/

SLIDE 39 7. UPDATES & OTHER BUSINESS CONTINUED

- 2020 New Hampshire Salt Symposium September 15, 2020 SAVE THE DATE Pats Peak Ski Area Henniker, NH More information coming in the next few months
- 2020 Asset Management Workshop for Water Infrastructure November 5, 2020 SAVE THE DATE



SLIDE 40 7. UPDATES & OTHER BUSINESS CONTINUED

SOAK NH UPDATE:

SOAK UP THE RAIN NH HAS UPDATED THE NH HOMEOWNER'S GUIDE TO STORMWATER MANAGEMENT: DO-IT-YOURSELF STORMWATER SOLUTIONS! THIS NEW VERSION PROVIDES UPDATED INFORMATION AND RESOURCES, SOME CLARIFICATION ON THE FACT SHEETS, AND A BIT OF REFORMATTING. TO OUR WONDERFUL PARTNERS WHO POST THIS GUIDE AND THE ASSOCIATED INDIVIDUAL DO-IT-YOURSELF FACT SHEETS

LINK TO REVISED 2019 EDITION OF THE GUIDE:

HTTPS://WWW4.DES.STATE.NH.US/SOAKNH/WP-CONTENT/UPLOADS/2020/03/HOMEOWNERS-GUIDE-TO-STORMWATER-MANAGEMENT-2019.PDF

LINK TO SOAKNH PAGE WITH REVISED 2019 EDITION INDIVIDUAL DIY FACT SHEETS:

HTTPS://WWW4.DES.STATE.NH.US/SOAKNH/RESOURCES-2/DIY-FACT-SHEETS/

SLIDE 41 7. UPDATES & OTHER BUSINESS CONTINUED

MESSAGE FROM AN MS4 COUNTERPART IN RHODE ISLAND:

HOPE THIS FINDS YOU AND YOUR FAMILY SAFE AND HEALTHY. I WAS WONDERING IF ANY OF YOU ARE DEALING OR HAVE HEARD OF ANY PROPOSED SPRAYING OF PUBLIC SPACES WITH A CLEANING/DISINFECTANT AGENT AS AN ATTEMPT TO CONTROL THE COVID 19 VIRUS, SIMILAR TO WHAT THEY DID IN CHINA. IF YOUR STATE HAS AND YOU HAVE DEVELOPED GUIDANCE OR POLICY, INDICATING WHAT GERMICIDES ARE ACCEPTABLE FOR SPRAYING AND HOW TO CONTROL DISCHARGES TO MS4 PLEASE FORWARD ALONG ANY RELEVANT INFORMATION.

PLEASE REPLY BACK DIRECTLY TO MARGARITA CHATTERTON AT MARGARITA.CHATTERTON@DEM.RI.GOV

UPDATES FROM OTHERS?

SLIDE 42 NEXT MEETING



SLIDE 43 BE WELL, BE SAFE, BE KIND!

