

## Nelson, Kurt I

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**From:** Nash, Chris <Chris.Nash@des.nh.gov>  
**Sent:** Monday, December 2, 2019 8:58 AM  
**To:** Sarah Allen; Comstock, Gregg  
**Cc:** Nelson, Kurt I; Ann Pembroke; Diers, Ted; Price, David  
**Subject:** Re: SRP - request to reduce parameters and sampling frequency for remaining hand jetting  
**Attachments:** image001.gif; image002.gif; image003.png; image004.png; image005.png; image006.png; image007.png; image008.png

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All:

to answer Sarah's question about the west side, i think it is ok to discontinue FC sampling altogether, regardless of location of the hand jetting. Hope that clarifies. Chris

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From: Sarah Allen <sallen@normandeau.com>  
Sent: Monday, December 2, 2019 8:55:08 AM  
To: Comstock, Gregg  
Cc: kurt.nelson@eversource.com; Ann Pembroke; Diers, Ted; Price, David; Nash, Chris  
Subject: RE: SRP - request to reduce parameters and sampling frequency for remaining hand jetting

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Thank you Gregg. That really eases the hold time and sample coordination with the lab.  
Does he want us to continue fecal monitoring as we wrap up the west side?

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From: Comstock, Gregg [mailto:Gregg.Comstock@des.nh.gov]  
Sent: Monday, December 02, 2019 8:51 AM  
To: Sarah Allen <sallen@normandeau.com>  
Cc: kurt.nelson@eversource.com; Ann Pembroke <apembroke@normandeau.com>; Diers, Ted <Ted.Diers@des.nh.gov>; Price, David <David.Price@des.nh.gov>; Nash, Chris <Chris.Nash@des.nh.gov>  
Subject: RE: SRP - request to reduce parameters and sampling frequency for remaining hand jetting

Hi Sarah,  
Chris Nash has advised that, based on his review of fecal coliform data submitted to date, sampling for fecal coliform for the rest of the hand jetting on the east side, may stop.  
Regards,  
Gregg

Gregg Comstock, P.E.  
Supervisor, Water Quality Planning Section Watershed Management Bureau Water Division, NH Department of Environmental Services

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From: Sarah Allen <sallen@normandeu.com<mailto:sallen@normandeu.com>>  
Sent: Sunday, December 1, 2019 4:59 PM  
To: Comstock, Gregg <Gregg.Comstock@des.nh.gov<mailto:Gregg.Comstock@des.nh.gov>>  
Cc: kurt.nelson@eversource.com<mailto:kurt.nelson@eversource.com>; Ann Pembroke  
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<Chris.Nash@des.nh.gov<mailto:Chris.Nash@des.nh.gov>>  
Subject: RE: SRP - request to reduce parameters and sampling frequency for remaining hand jetting

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Thank you, Gregg. Really helpful.  
We will wait to hear from Chris re fecals.  
FYI, there will be no hand jetting tomorrow due to the weather.  
Also, Durocher still has 1-2 days to finish hand jetting outside the silt curtain, and 2-3 days to finish on the west side.  
Mackworth is deploying the east side silt curtain this week. All of which depends on how the weather sorts out over the next few days.  
Sarah

From: Comstock, Gregg [mailto:Gregg.Comstock@des.nh.gov]  
Sent: Sunday, December 01, 2019 3:01 PM  
To: Sarah Allen <sallen@normandeu.com<mailto:sallen@normandeu.com>>  
Cc: kurt.nelson@eversource.com<mailto:kurt.nelson@eversource.com>; Ann Pembroke  
<apembroke@normandeu.com<mailto:apembroke@normandeu.com>>; Diers, Ted  
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<Chris.Nash@des.nh.gov<mailto:Chris.Nash@des.nh.gov>>  
Subject: SRP - request to reduce parameters and sampling frequency for remaining hand jetting

Hi Sarah,

It is our understanding that the only section of hand jetting that remains is on the east side with most, if not all, within the turbidity curtain. Please confirm.

With regards to reducing the sampling frequency for hand jetting on the east side, based on the data submitted on 11/23/19 and 11/26/19 for hand jetting conducted earlier in November, your proposal to reduce the sampling frequency from hourly to every two hours is acceptable with the following understanding:

- One round of water quality measurements will be collected immediately before hand jetting begins,
- at least one round will be taken during hand-jetting (but not sooner than 15 minutes after hand jetting begins), and
- at least one round will be taken between 30 minutes and one hour after hand jetting has ended for the day if turbidity levels are less than or equal to 10 NTU, or approximately one hour after hand jetting has ended for the day if turbidity levels are more than 10 NTU.

With regards to reducing parameters we understand that Eversource proposes to continue sampling for turbidity, temperature, salinity, TSS and copper but stop collecting samples for the remaining parameters (fecal coliform, the nitrogen series, arsenic, dissolved oxygen and pH). Based on our review of the data submitted on 11/23/19 and 11/26/19 for hand jetting conducted earlier in November [which included, turbidity, pH, dissolved oxygen, temperature, salinity, TSS, the nitrogen series, and fecal coliform (but no metals)] the following is acceptable for the remaining hand jetting work on the east side:

- Sampling should continue as proposed for turbidity, temperature, salinity, TSS and copper (dissolved and total).
- Sampling should also continue for arsenic (total and dissolved) since arsenic is a potential toxic and results of arsenic testing from hand jetting conducted to date on the east side have not been received.
- Sampling for fecal coliform should continue unless otherwise directed by Chris Nash, NHDES Shellfish Program manager (Chris is cc'd on this email).
- Measurements of Dissolved Oxygen (DO) may stop as recent results have been above 8 mg/L which is well above the NH instantaneous water quality criterion for dissolved oxygen of 5 mg/L. With colder temperatures, DO is expected to remain above 5 mg/L.
- Collection and analysis of the nitrogen series and pH may stop. Ammonia, a potential toxic, was collected as part of the nitrogen series. The toxicity of ammonia increases (i.e., the criterion becomes more stringent) as temperature and pH increases and as salinity decreases. Results of hand jetting (and jet plowing) submitted to date have shown ammonia to be less than the detection limit of 0.1 mg/L. Conservatively assuming a temperature of 10 degrees C, a pH of 8 and a salinity of 20 mg/L for the next few weeks, the NH marine water chronic criterion for ammonia is 2.1 mg/L which is well above the levels reported to date (< 0.1 mg/L).

Should you have any questions, please let me know.

Regards,

Gregg

Gregg Comstock, P.E.

Supervisor, Water Quality Planning Section Watershed Management Bureau Water Division, NH Department of Environmental Services

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