CITY OF LEBANON
DEPARTMENT OF PUBLIC WORKS
193 Dartmouth College Highway
Lebanon, NH 03766

June 5, 2017

US EPA, Region 1
PWTF GP Processing
Municipal Assistance Unit (CMU),
1 Congress Street, Suite 1100
Boston, MA 02114-2023

RE: Notice of Intent (NOI), Water Treatment General Permit NHG640012

Dear Sir or Madam,

This letter is to serve as Notice of Intent for Water Treatment General Permit NHG640012.

The **owner** of the facility is:	Paula Maville, Interim City Manager/Deputy City Manager
Email:	Paula.Maville@lebcity.com
Telephone:	603-448-4220
Address:	City of Lebanon 51 North Park St. Lebanon, NH 03743

The **operator and contact** is:	Water Treatment Superintendent, James Angers
Email:	Jim.Angers@lebcity.com
Telephone:	603-448-2514
Facility Name:	City of Lebanon Water Plant
Address:	65 Pumping Station Rd Lebanon, NH 03766

Water Supply **SIC code** is #4941.

General Permit: #NHG640012

Facility & Process Description:

The facility consists of a surface water treatment plant with two backwash wastewater storage lagoons. The water treatment plant is a conventional treatment process utilizing coagulation, flocculation, sedimentation, filtration, disinfection, corrosion control and fluoridation. Chemicals added during the

Please find included with this packet a letter from the HACH Company detailing analysis of the reagent discharge from the HACH CL17 chlorine analyzer.

Submitted Respectfully,

James Angers

James Angers
Water Treatment Superintendent

Enclosure

Cc: File

water treatment process include:
Polyaluminum chloride for coagulation, sodium bicarbonate to provide alkalinity for coagulation and corrosion control, powdered activated carbon for algae, taste and odor control, sodium hypochlorite for disinfection, and sodium carbonate to raise the finish water pH for alkalinity and corrosion control. Sodium fluoride is added to reduce tooth decay. At this time there are no chemicals containing phosphorus are added at this facility.

Water that is sent to the lagoons is generated from filter backwashes, filter-to-waste operations, residuals generated from the flocculation and sedimentation processes, sedimentation basin maintenance dewatering and cleaning residuals as well as process monitoring equipment waste flows from turbidity, pH and chlorine analyzers. **There are no sanitary wastes included in the flows.** The NPDES permit is for the indirect discharge from the lagoons. The lagoons do not have a single point of discharge. The lagoons discharge only during an overflow event at the approximate lagoon crest location latitude 43.64N, longitude 72.24W, to wetlands that eventually flow to the Mascoma River as shown on a map included with this document.

There has not been a discharge event for several years and for that reason there has not been data collected in the last six months on Aluminum residuals.

Endangered Species Act Eligibility: Using Appendix III of the PWTF GP, under which criterion listed in Part B we are eligible for coverage under criterion A. Documentation of ESA eligibility will be forwarded when received.

National Historic Properties Act Eligibility: Using the instructions in Appendix II of the PWTF GP we are eligible under part III criterion 1. Documentation of NHDHR through RPR submittal will be forwarded when received.

Certification and Signature:

I certify that the discharge for which I am seeking coverage under the general permit consists solely of a surface water discharge from a potable water treatment facility. 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 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 James Angers Date June 5, 2017

Printed Name and Title James Angers, Superintendent

June 5, 2017

(RE: NOI continued)

Laboratory Results on CL17 Effluent
Compared with Groundwater Sample Blank

H2M Labs, Inc.
575 Broad Hollow Road
Melville, NY 11747
516-694-3040

Date Collected: 6/18/92
Date Received: 6/18/92
Collected by: CL99

Parameter	Units	Results Sample Lab No. 9220084 Groundwater Blank	Results Sample Lab No. 9220083 Instrument Effluent
Metals			
Silver	mg/L	<0.01	<0.01
Aluminum	mg/L	0.20	<0.20
Arsenic	µg/L	<10.0	<10.0
Barium	mg/L	<0.20	<0.20
Beryllium	µg/L	<5.0	<5.0
Calcium	mg/L	14.2	13.0
Cadmium	µg/L	<5.0	<5.0
Cobalt	mg/L	<0.05	<0.05
Chromium	mg/L	<0.01	<0.01
Copper	mg/L	0.12	0.02
Iron	mg/L	1.4	0.38
Mercury	µg/L	<0.20	<0.20
Potassium	mg/L	0.56	0.63
Lithium	mg/L	<0.02	3.7
Magnesium	mg/L	0.56	1.0
Manganese	mg/L	0.03	<0.02
Sodium	mg/L	4.2	5.3
Nickel	mg/L	<0.04	<0.04
Lead	µg/L	5.4	<5.0
Antimony	µg/L	<60.0	<60.0
Selenium	µg/L	<5.0	<5.0
Thallium	µg/L	<10.0	<10.0
Vanadium	mg/L	<0.05	<0.05
Zinc	mg/L	0.29	0.07
Purgeable Organics			
Date Run: 6/22/92			
Chloromethane	µg/L	<10	<10
Bromomethane	µg/L	<10	<10
Vinyl Chloride	µg/L	<10	<10
Chloroethane	µg/L	<10	<10
Methylene Chloride	µg/L	<5	<5
1,1-Dichloroethene	µg/L	<5	<5
1,1-Dichloroethane	µg/L	<5	<5
C/T-1/2-Dichloroethene	µg/L	<5	<5
Chloroform	µg/L	<5	<5
1,2-Dichloroethane	µg/L	<5	<5
1,1,1-Trichloroethane	µg/L	<5	<5
Carbon Tetrachloride	µg/L	<5	<5
Bromodichloromethane	µg/L	<5	<5

1,2-Dichloropropane	µg/L	<5	<5
Trans-1,3-Dichloropropene	µg/L	<5	<5
Trichloroehtene	µg/L	<5	<5
Dibromochloromethane	µg/L	<5	<5
1,1,2-Trichloroethane	µg/L	<5	<5
Cis-1,3-Dichloropropene	µg/L	<5	<5
Benzene	µg/L	<5	<5
Bromoform	µg/L	<5	<5
1,1,2,2-Tetrachloroethane	µg/L	<5	<5
Tetrachloroethene	µg/L	<5	<5
Toluene	µg/L	<5	<5
Chlorobenzene	µg/L	<5	<5
Ethylbenzene	µg/L	<5	<5
Xylenes (Total)	µg/L	<5	<5
Acetone	µg/L	<10	<10
2-Butanone (MEK)	µg/L	<10	<10
4-Methyl-2Pentanone	µg/L	<10	<10
Carbon Disulfide	µg/L	<5	<5
Vinyl Acetate	µg/L	<10	<10
2-Hexanone	µg/L	<10	<10
Styrene	µg/L	<5	<5
Semi-Volatile Organics			
Date Extracted: 6/23/92			
Date Run: 6/30/92			
1,3-Dichlorobenzene	µg/L	<10	<10
1,4-Dichlorobenzene	µg/L	<10	<10
Hexachloroethane	µg/L	<10	<10
Bis(2-Chloroethyl) Ether	µg/L	<10	<10
1,2-Dichlorobenzene	µg/L	<10	<10
2,2-Oxybis (1-Chl.propane)	µg/L	<10	<10
N-Nitrosos-Dipropylamine	µg/L	<10	<10
Nitrobenzene	µg/L	<10	<10
Hexachlorobutadiene	µg/L	<10	<10
1,2,4-Trichlorobenzene	µg/L	<10	<10
Isophorone	µg/L	<10	<10
Naphthalene	µg/L	<10	<10
Bis (2-Chl.ethoxy) methane	µg/L	<10	<10
Carbazole	µg/L	<10	<10
Hexachlorocyclopentadiene	µg/L	<10	<10
2-Chloronaphthalene	µg/L	<10	<10
Acenaphthlene	µg/L	<10	<10
Acenaphthene	µg/L	<10	<10
Dimethylphthalate	µg/L	<10	<10
2,6-Dinitrotoluene	µg/L	<10	<10
Fluorene	µg/L	<10	<10
4-Chl.phenyl Phenylether	µg/L	<10	<10
2,4-Dinitrotoluene	µg/L	<10	<10
Diethyl Phthalate	µg/L	<10	<10
N-Nitrosodiphenylamene	µg/L	<10	<10
Hexachlorobenzene	µg/L	<10	<10
4-Bromophenylphenylether	µg/L	<10	<10

Phenanthrene	µg/L	<10	<10	
Anthracene	µg/L	<10	<10	
Di-N-Butyl Petralate	µg/L	<10	<10	
Fluoranthene	µg/L	<10	<10	
Pyrene	µg/L	<10	<10	
Butyl Benzyl Phthalate	µg/L	<10	<10	
Bis (2ethylhexyl) Phthalate	µg/L	<10	<10	
Chrysene	µg/L	<10	<10	
Benzo (A) Anthracene	µg/L	<10	<10	
3,3-Dichlorobenzidine	µg/L	<20	<20	
Di-N-Octyl Phthalate	µg/L	<10	<10	
Benzo (B) Fluoranthene	µg/L	<10	<10	
Benzo (K) Fluoranthene	µg/L	<10	<10	
Benzo (A) Pyrene	µg/L	<10	<10	
Indeno (1,2,3-C,D) Pyrene	µg/L	<10	<10	
Dibenzo (A,B,) Anthracene	µg/L	<10	<10	
Benzo (G,H,I) Perylene	µg/L	<10	<10	
2-Chlorophenol	µg/L	<10	<10	
2-Nitrophenol	µg/L	<10	<10	
Phenol	µg/L	<10	<10	
2,4-Dimethylphenol	µg/L	<10	<10	
2,4-Dichlorophenol	µg/L	<10	<10	
2,4,6-Trichlorophenol	µg/L	<10	<10	
4-Chloro-3-Methylphenol	µg/L	<10	<10	
2,4-Dinitrophenol	µg/L	<50	<50	
2-Meth.-4,6-Dinitrophenol	µg/L	<50	<50	
Pentachlorophenol	µg/L	<50	<50	
4-Nitrophenol	µg/L	<50	<50	
2-Methylphenol	µg/L	<10	<10	
2,4,5-Trichlorophenol	µg/L	<10	<10	
Benzoic Acid	µg/L	<50	<50	
4-Methylphenol	µg/L	<50	<50	
Benzyl Alcohol	µg/L	<10	<10	
4-Chloroanaline	µg/L	<10	<10	
2-Methylnaphthalene	µg/L	<10	<10	
2-Nitroaniline	µg/L	<50	<50	
3-Nitroaniline	µg/L	<50	<50	
Dibenzofuran	µg/L	<10	<10	
4-Nitroaniline	µg/L	<50	<50	
Unknown (RT=9.12)	µg/L		35	
Unknown (RT=13.06)	µg/L		4	
Unknown Mol. Wt 176 (RT=17.92)	µg/L			5
VOC Tentative Identification				
Hexane	µg/L	6	8	

City of Lebanon

MAP FOR REFERENCE ONLY
NOT A LEGAL DOCUMENT

City of Lebanon, NH makes no claims and no warranties, expressed or implied, concerning the validity or accuracy of the GIS data presented on this map.

Parcels updated 7/1/2015
Properties updated 04/30/2017