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## Memo

To: Selectboard 

From: Rocky Martin  
Buildings and Facilities Director

Date: May 26, 2015

RE: Annual Uncommitted Wastewater Reserve Capacity

CC: Trevor Lashua, Erik Bailey, Art Garrison

Every year we take a look at how much capacity is left at the wastewater plant and apply it by formula to Residential, Enterprise/Commercial and Institutional categories. Attached is this year's report. Our plant is permitted to discharge 250,000 gallons per day (gpd); from 5/1/2014 to 4/30/2015 our average flow was 140,417 gallons per day. This leaves 109,583 gpd capacity available. We have already allocated 14,210 gpd for future Residential projects, 2,920 gpd for future Enterprise/Commercial projects and currently there are no Institutional allocations. Total of all approved allocations or Committed Reserve Capacity is 17,130 gpd. This leaves 92,453 as Uncommitted Reserve Capacity.

Per our Allocation Ordinance, we reserve:

1. 5,000 gpd for Institutional projects- schools, hospitals, municipal etc.
2. 10,000 gpd for the former Saputo property
3. 5,000 gpd for properties within the Existing Village Core

By subtracting the 20,000 gpd listed above from our Uncommitted Reserve it leaves 72,453 gpd; 70% of this is reserved for Residential or 50,717 gpd and 30% of this is reserved for Enterprise/Commercial or 21,736 gpd.

Recommendation and suggested motion:

Move that the Selectboard adopt the Town of Hinesburg Wastewater Treatment Facility Uncommitted Reserve Capacity Report for FY 15-16 as prepared by RMartin and dated 5/26/2015.

Town of Hinesburg Wastewater Treatment Facility

Uncommitted Reserve Capacity report for FY 15-16

All figures in Gallons per Day

Permitted Wastewater Flow	250,000
Plant Wastewater Flow (5/1/2014 through 4/30/2015)	140,417

**Reserve Capacity 109,583**

Less approved Allocations

Residential	Expires		
Blomstrann (3 SFR units + Inf on NRG parcel)	6/30/15	830	
Green St LLC (22 units +Inf.)	6/30/17	5400	
Hinesburg Hillside/Thistle Hill (1 lot left)	6/30/17	210	
Marie Aube Smith (1 SFR)	6/30/15	210	
South Farm Homes (2 units)	6/30/17	420	
Norris (24 unit)	6/30/18	5040	
KB Real Estate@ 10004 Rte 116 ( 2 units)	6/30/15	420	
Brad Wainer 1SFR and Apt	6/30/17	420	
Lawerence and Cynthia Carron	6/30/16	420	
Robert Therrien	6/30/18	210	
Hines Center- Grabowski Lot 48 3 units	6/30/18	630	
<b>Total Approved Residential Allocations</b>			<b>14,210</b>

Enterprise/Commercial

Commerce Park/Act 250 approved Lot 15		200	
Green St LLC (1 building w/24 employees)	6/30/17	360	
Martins Foods- Hannafords	2/27/16	2240	
Hines Center- Grabowski Lot 48	6/30/18	120	
<b>Total Approved Enterprise/Commercial Allocations</b>			<b>2,920</b>

Institutional

Total Approved Institutional Allocations 0

**Total Committed Reserve Capacity 17,130**

**Uncommitted Reserve Capacity For FY 15-16 92,453**

a)Institiutional Reserve Capacity (per Allocation Ordinance 8/16/2010)	5,000
b)Saputo property Reserve, Tax Map # 20-5-66.000 (per Allocation Ordinance 8/16/2010)	10,000
c)Properties within "Existing Village Core" (per Allocation Ordinance 8/16/2010)	5,000

**Residential Capacity For FY 15-16 (70% of Uncommitted Reserve minus a), b) and c) above) 50,717**

**Enterprise Capacity for FY 15-16(30% of Uncommitted Reserve minus a), b) and c) above) 21,736**

# Town of Hinesburg Wastewater Treatment Plant

IN		OUT									
Month Year	Inf Avg GPD	Inf Max GPD	Eff Avg GPD	Eff Avg BOD mg/l	Eff Avg TSS mg/l	Eff Avg Phos mg/l	EFF Phos Pounds/Month	Eff Avg UOD lbs/Day	Eff Avg Ammonia mg/l	Sludge Removal 2&4	No flow 17 days
May 2014	155,000	237,000	166,000	4.8	5.5	0.30	12.86	35.88	4.10		
June 2014	129,000	243,000	121,000	6.6	9.0	0.23	6.96	31.06	3.95		
July 2014	106,000	220,000	138,000	5.8	5.0	0.20	7.14	31.75	6.10		
Aug 2014	112,000	169,000	91,000	6.5	6.0	0.20	4.72	33.1	10.25		
Sept 2014	95,000	108,000	186,000	5.7	4.0	0.33	11.75				
Oct 2014	123,000	188,000	166,000	3.2	3.5	0.10	10.06				
Nov 2014	120,000	162,000	57,000	2.0	3.0	0.03	0.43				
Dec 2014	169,000	393,000	184,000	2.0	4.0	0.08	3.68				
Jan 2015	112,000	147,000	156,000	5.4	10.0	0.33	13.32				
Feb 2015	90,000	99,000	94,000	3.4	9.5	0.31	6.83				
March 2015	125,000	288,000	146,000	10.9	11.0	0.68	25.72				
April 2015	181,000	378,000	180,000	4.8	12.0	0.50	22.48				

<b>Permit Limits/Standards</b>	<b>250,000</b>	<b>30 mg/l</b>	<b>45 mg/l</b>	<b>.8 mg/l</b>	<b>400 lbs/day</b>	<b>5.96 mg/l</b>
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<b>Avg 5-1-14 to 4-30-15</b>	<b>140,417</b>	<b>5.09</b>	<b>6.88</b>	<b>0.27</b>	<b>125.95</b>	<b>Total Pounds Phos</b>
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Notes: UOD and Ammonia sampled/tested June, July August and September  
 Currently Phos limit is 0.8 mg/l (milligrams per liter) per month- Current TMDL proposal would go to .2 mg/l (may be applied monthly)  
 Currently Phos limit is 608 lbs/year, TMDL proposal would go to 152 lbs/year  
 AND TMDL proposal contains language that if no significant Phos reduction in Lake Champlain in 3 years (there won't be) they get to apply more stringent Phos limits on WWTP- Probably would go to .1 mg/l monthly or 76 lbs/year