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September 27, 2018 Project No. 280EM00250 SMS #2018-4800

Mr. Peter Gregory, AICP Executive Director Two Rivers-Ottauquechee Regional Commission 128 King Farm Road Woodstock, VT 05091

Re: Correction to Site Investigation Report & Additional Site Investigation Cabot Sawmill Cabot, Vermont

Dear Mr. Gregory:

ATC Group Services, LLC (ATC) presents this letter to the Two Rivers-Ottauquechee Regional Commission (TRORC) to detail a correction to ATC's Site Investigation (SI) Report, dated June 1, 2018, for the Cabot Sawmill, located at 153 Sawmill Road, Cabot, VT (the "Site") and present data collected during the subsequent Additional Site Investigation (ASI).

The ATC SI report presented semi-volatile organic compound (SVOC) data in Table 3, which highlighted exceedances of the EPA Regional Screening Levels (RSLs) for Residential and Industrial soils for the compound benzaldehyde. Soil samples SS-1 and SS-4 were presented as Residential RSL exceedances of benzaldehyde, and soil sample SS-2 was presented as an Industrial exceedance. All three of these soil samples were collected on the east side of the Winooski River. Other Residential soil RSL exceedances were reported for benzo(a)anthracene [B(a)A], benzo(a)pyrene [B(a)P], benzo(b)fluoranthene [B(b)F], dibenzo(a,h)anthracene [D(a,h)A], and indeno(1,2,3-cd)pyrene [I(1,2,3)P], in three soil samples on the west side of the Sites Management Section (SMS) of the Vermont Department of Environmental Conservation (VT DEC) issued a First Letter and assigned a hazardous waste number, SMS #2018-4800, to the Site. Mr. Becker made the following conclusions:

- Polycyclic aromatic hydrocarbons (PAHs) detected in surface soils (SS-5/SS-10/SS-11) on the **west** side of the Winooski River exceed non-industrial standards; and,
- Benzaldehyde detected in surface soils on the **east side** of the Winooski River exceed the Industrial standard (SS-2) and the non-industrial standard (SS-1/SS-4) and potentially groundwater.

Mr. Becker's First Letter requested the following actions to address these findings:

- With respect to PAHs identified on the **west side** of the Winooski River, no further action is necessary by yourself absent redevelopment of the property as a non-industrial use.
- With respect to Benzaldehyde identified in exceedance of its industrial standard (SS-2) on the **east** side of the Winooski River, conduct a soil and groundwater investigation to determine the nature and extent of impacts to soils and groundwater and an assessment of the threat to human health and the environment based on current property use.

Project No. 280EM00250 September 27, 2018 Cabot Sawmill ASI, Cabot, VT Page 2 of 2

ATC performed an ASI at the Site to address the reported benzaldehyde Industrial soil exceedances on the east side of the river. However, during the compilation of ASI data, ATC discovered a transcription error in the original SI SVOC table – the EPA RSLs for benzaldehyde had not been properly converted from milligrams per kilogram to micrograms per kilogram, resulting in the reported RSLs being three orders of magnitude lower than they should have been. With the correct RSL values, there are in fact *no exceedances* of Residential or Industrial standards for benzaldehyde. Additionally, the May 2016 EPA RSLs were used for comparison; the EPA publishes updated tables every six months, and the November 2017 would have been the most current RSLs available for the soil data collected in February 2018.

Table 1, attached, presents the revised February 2018 soil SVOC data in comparison to the November 2017 EPA RSLs. The only exceedances are of Residential soil RSLs for B(a)P, B(b)F, and D(a,h)A, in soil samples SS-5, SS-10, and SS-11 on the west side of the river. With the correction, there are no Industrial RSL exceedances at the Site, and there are no EPA RSL exceedances on the east side of the Winooski River.

Table 2, attached, presents the benzaldehyde soil data collected during the ASI in August 2018, along with the February 2018 data, compared to the most current EPA RSLs, published in May 2018 (no changes from the November 2017 version). There were no exceedances in any of the ASI soil samples. ATC also collected two surface water samples of the Winooski River for benzaldehyde analysis, which were both reported as non

detect for that compound.

In light of the transcription error and subsequent data correction, ATC understands the requirements for the Site to be the following before a Site Management Activity Completed (SMAC) designation can be assigned:

- If there are no plans to redevelop the site, and the property will not be trespassed, then no further environmental testing is required by the VT DEC.
- A notice to land records (NLR) will be required, documenting residual contamination (EPA RSL exceedances for residential soils) on the **west side** of the Site, with a caveat that should the intensity of use change in the future, further action will be required. Also, the monitoring wells will need to be properly decommissioned.

Please contact us at (802) 241-4131 if you have any questions. We apologize for any inconvenience.

Sincerely, ATC GROUP SERVICES, LLC

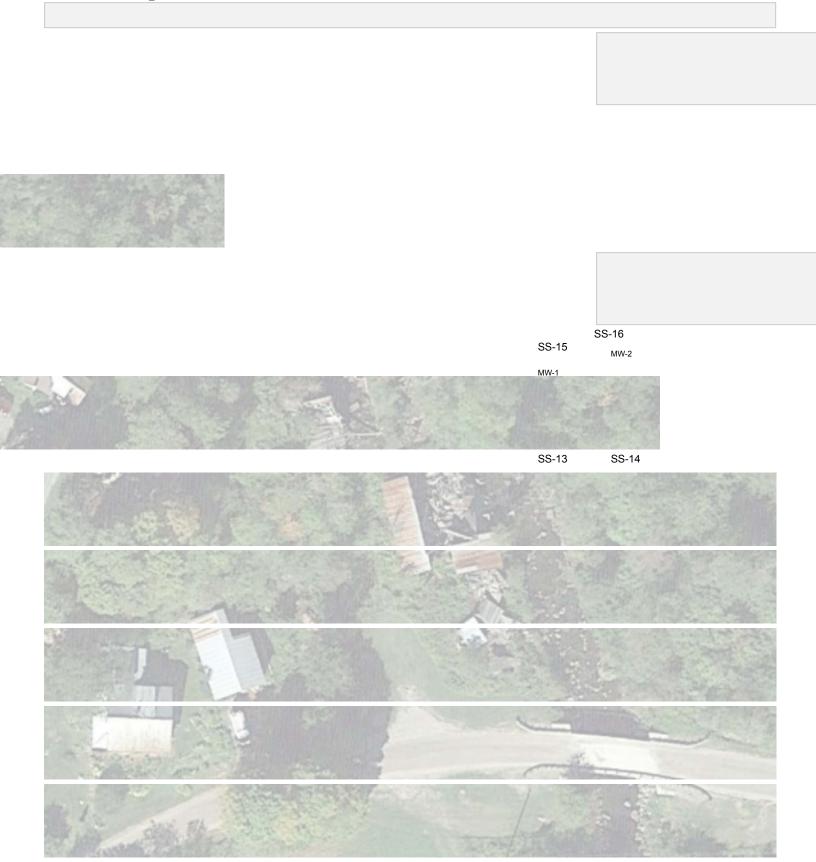
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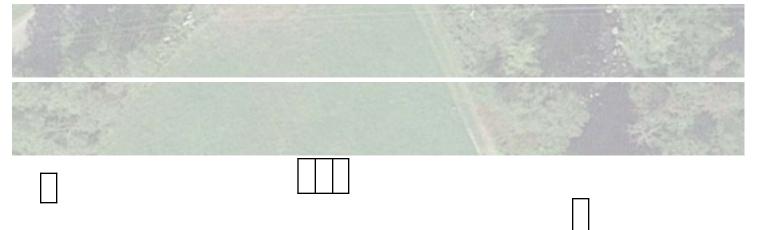
Johanna Palmer Joseph J. Hayes, CPG, PG Geologist Branch Manager

Attachments: Figure 1: Site Plan Table 1: Revised SVOC Results – February 2018 (SI) Table 2: SVOC Results – February & August 2018 (ASI)

cc: Matthew Becker, VT DEC Kevin Geiger, TRORC

cabotsawmill_si-correctionletter.asi







0 $_{\rm 200^{\prime}}$ ASI Soil Sampling Locations ASI Monitoring Wells



<u>Site Plan</u>

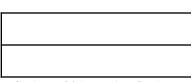


TABLE 1 - REVISED from SI (Nov 2017 EPA RSLs)Soil Quality Results - SVOC/PAHs

Cabot Sawmill

Cabot, Vermont

	Analyte:	Acenaphthene	Acenaphthylene	Anthracene	Benzo (a) anthracene	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo (g,h,i) perylene	Benzo (I fluoranthe
VT Soil Screening Levels:	VT BSC					26/580 TEQ			
Levels.	VT SL R					76			
	VT SL I					1,540			
EPA Regional Screening Levels:	Residential Soil	3,600,000		18,000,000	1,100	110	1,100		11,000
Servening Levels:	Industrial Soil	45,000,000		230,000,000	21,000	2,100	21,000		210,000
Sample ID	Depth (ft bgs)								
SS-1	0-1	ND<44	ND<44	ND<44	ND<44	ND<44	ND<44	ND<44	ND<44
SS-2	0-1	ND<47	ND<47	ND<47	ND<47	21.1 J	38.0 J	24.8 J	ND<47
SS-3	0-1	ND<48	ND<48	ND<48	ND<48	ND<48	ND<48	ND<48	ND<48
SS-4	0-1	ND<56	ND<56	ND<56	ND<56	ND<56	ND<56	ND<56	ND<56
SS-5	0-1	ND<39	25.6 J	ND<39	105	119	135	70.5	53.6
SS-6	0-1	ND<48	ND<48	ND<48	35.4 J	37.4 J	42.5 J	ND<48	ND<48
SS-7	0-1	ND<37	ND<37	ND<37	16.2 J	ND<37	17.8 J	ND<37	ND<37
SS-8	0-1	ND<43	ND<43	ND<43	ND<43	ND<43	ND<43	ND<43	ND<43
SS-9	0-1	ND<52	ND<52	ND<52	62.7	64.8	99.0	51.2 J	38.4 J
SS-10	0-1	27.5 J	171	196	921	932	1,280	605	554

SS-11	0-1	ND<40	ND<40	96.4	401	391	532	250	205
SS-12	0-1	ND<39							
Duplicate (SS-11)	0-1	ND<41	99.3	98.6	407	406	524	261	224
% Difference				2.3	1.5	3.8	1.5	4.3	8.9
Equip. Blank (µg/L)		ND<1.0							

NOTES:

Soil samples collected by ATC on 2/28/2018 and analyzed by SGS Accutest of Dayton, NJ for EPA Method 8270D.

Soil quality results provided in ug/kg = micrograms per kilogram or parts per billion (ppb).

TEQ - Toxic Equivilancy Quotient for PAH subset.

ND< value = Not detected at or above stated laboratory reporting limit.

Standards include Soil Screening Values set forth in VT DEC Investigation and Remediation of Contaminated Properties (Irule, July 2017), including:

- VT BSC - Vermont Dept. of Environmenal Conservation Background Soil Concentrations (rural/urban);

- VT SL R/I = VT Screening Level, Residential/Industrial;

- Residential and Industrial Soils = most current EPA Regional Screening Levels (RSL) for Residential and Industrial Soils (November 2017).

Bold values indicate detection above laboratory detection limit.

Shaded values exceed color-corresponding standard.

-- = No standard available or not calculable.

J = reported value is above the method detection limit but below laboratory reporting limit, and is therefore an estimated value.

ATC 280EM00128 TABLE 2 Soil Quality Results - SVOC/PAHs February & August 2018 Sampling

Cabot Sawmill

Cabot, Vermont

	Analyte:	Acenaphthene	Acenaphthylene	Anthracen e	Benzo (a) anthracene	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo (g,h,i) perylene	Ba fluo
VT Soil Scr	VT BSC					26/580 TEQ			
een ing Lev	VT SL R					76			

els:	VT SL I						1,540			
EPA Regional Residential Soil		3,600,000		18,000,000	1,100	110	1,100			
Screening Levels:	Industr	rial Soil	45,000,000		230,000,00 0	21,000	2,100	00 21,000		2
Sample ID	Sampling Date	Depth (ft bgs)		-						-
SS-1	2/28/2018	0.0-1.0	ND<44	ND<44	ND<44	ND<44	ND<44	ND<44	ND<44	
SS-2	2/28/2018	0.0-1.0	ND<47	ND<47	ND<47	ND<47	21.1 J	38.0 J	24.8 J	
SS-2-D	8/29/2018	3.0-5.5								
SS-3	2/28/2018	0.0-1.0	ND<48	ND<48	ND<48	ND<48	ND<48	ND<48	ND<48	
SS-4	2/28/2018	0.0-1.0	ND<56	ND<56	ND<56	ND<56	ND<56	ND<56	ND<56	
SS-5	2/28/2018	0.0-1.0	ND<39	25.6 J	ND<39	105	119	135	70.5	
SS-6	2/28/2018	0.0-1.0	ND<48	ND<48	ND<48	35.4 J	37.4 J	42.5 J	ND<48	
SS-7	2/28/2018	0.0-1.0	ND<37	ND<37	ND<37	16.2 J	ND<37	17.8 J	ND<37	
SS-8	2/28/2018	0.0-1.0	ND<43	ND<43	ND<43	ND<43	ND<43	ND<43	ND<43	
SS-9	2/28/2018	0.0-1.0	ND<52	ND<52	ND<52	62.7	64.8	99.0	51.2 J	
SS-10	2/28/2018	0.0-1.0	27.5 J	171	196	921	932	1,280	605	
SS-11	2/28/2018	0.0-1.0	ND<40	ND<40	96.4	401	391	532	250	
SS-12	2/28/2018	0.0-1.0	ND<39	ND<39	ND<39	ND<39	ND<39	ND<39	ND<39	
SS-13-S	8/29/2018	0.0-2.0								
SS-14-S	8/29/2018	0.0-2.0								
SS-15-S	8/29/2018	0.0-2.0								
SS-16-S	8/29/2018	0.0-2.0								
Duplicate (SS-11)	2/28/2018	0.0-1.0	ND<41	99.3	98.6	407	406	524	261	
% Difference					2.3	1.5	3.8	1.5	4.3	
Duplicate (SS-14-S)	8/29/2018	0.0-2.0								
% Difference										1
Equip. Blank (µg/L)	2/28/2018		ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	

NOTES:

Soil samples collected by ATC and analyzed by SGS Accutest of Dayton, NJ for EPA Method 8270D.

Soil quality results provided in ug/kg = micrograms per kilogram or parts per billion (ppb).

TEQ - Toxic Equivilancy Quotient for PAH subset.

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- VT SL R/I = VT Screening Level, Residential/Industrial;

- Residential and Industrial Soils = most current EPA Regional Screening Levels (RSL) for Residential and Industrial Soils (May 2018).

Bold values indicate detection above laboratory detection limit.

Shaded values exceed color-corresponding standard.

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ATC 280EM00250