

August 9, 2021

Mr. Brian Sadowski  
New York State Department of Environmental Conservation  
270 Michigan Avenue  
Buffalo, NY 14203-2999

**RE: Second Quarter 2021 – Status Report  
Former Stauffer Management Company, LLC  
Lewiston, New York  
Langan Project No.: 130117301**

Dear Mr. Sadowski:

Attached is the status report for the second quarter of 2021 activities at the Stauffer Management Company LLC site in Lewiston, New York. Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. (Langan) has conducted the operation, maintenance, and monitoring activities for the treatment system on behalf of Stauffer Management Company (SMC). No new changes to system operation, monitoring, or reporting are being requested as part of this status report.

Please call me if you need any additional information or if you have comments.

Sincerely,

**Langan Engineering, Environmental, Surveying,  
Landscape Architecture and Geology, D.P.C.**



Matthew Ambrusch, PE, MBA  
Project Manager – Remediation Technology

MW: ma

Enclosure(s): Table 1 – System Extraction and Discharge Flow Rates  
Table 2 – Weekly Mid-Carbon Sampling Results  
Table 3 – Monthly Influent Sampling Results  
Table 4 – Monthly Effluent Sampling Results  
Table 5 – Quarterly Effluent (SPDES) Sampling Results

cc: Kurt Batsel (Dextra Group)  
John-Paul Rossi (SMC)  
Stewart Abrams, PE (Langan)

## **1. Operation and Maintenance Activities**

Between April 1 and June 30, 2021, treatment system operations, consisting of the extraction of groundwater via 11 extraction wells, continued. The chemical feed system has been running continuously since initiating operation on February 11, 2019. The operation of the chemical feed system has proven effective at prolonging bag filter change-outs with no observed decrease in treatment system performance.

Per the New York State Department of Environmental Conservation (NYSDEC) Order of Consent Case No. CO 1-20181004 executed by the NYSDEC on June 12, 2019, wastes generated on site as a result of the operation of the treatment system are managed as U-listed hazardous waste.

### **1.1 Groundwater Extraction Wells**

Groundwater extraction continued at wells EW-1 through EW-6, DPA-202, DPA-203, OW-3, and LR-66. Extraction wells EW-5, EW-6, DPA-202, and LR-66 have been operational at full and continuous capacity throughout the reporting quarter with the exceptions of minor periods of planned downtime due to bag filter change-outs, carbon exchanges, and other general maintenance tasks.

The following extraction wells have been operational at a reduced capacity or have had modifications or repairs performed during this reporting quarter:

- The submersible pump at EW-1 experienced short-circuiting, requiring the pump to be pulled for repairs. This extraction well was inoperable for a period of approximately 8 weeks during the previous quarter. The pump was repaired and brought back online after continuing to be offline for approximately two weeks at the beginning of this reporting period.
- Submersible pumps at EW-2 and EW-3 required electrical repairs following the system upgrades completed in October and November 2020. The electrical issue was corrected; however, a controller issue would not allow the pumps to cease pumping once the maintain-level set-point was reached. As a result, the pumps would remain pumping at full speed until the well went dry. This has been temporarily mitigated by throttling the flow rate via a globe valve on the influent manifold until the controls program can be updated. The pumps at EW-2 and EW-3 were offline for a period of approximately three weeks.
- Pneumatic pumps at EW-4 and DPA-203 continue to experience reduced flow rates due to fouling of pump, piping, and manifold components by suspended solids.
- Extraction rates in OW-3 continue to be reduced due to insufficient groundwater recovery in the well.

The following extraction well did not operate during this reporting quarter:

- DPA-201 remains off-line. This well will continue to be measured periodically for depth to water; the pump will be recommissioned when groundwater levels return to a suitable level for sustained pumping.

Approximately 2,910,000 gallons of water were recovered from the extraction wells during the quarter, resulting in an average flow rate of approximately 22.0 gallons per minute. The total flow rate recorded from well-specific flow meters is more than that measured by the combined effluent flow meter. The cause of this discrepancy (i.e., fouling of the flow meter) is being investigated and will be addressed. A summary of the system totalizer readings is provided as **Table 1**.

### 1.2 Groundwater Treatment System

Chemical feed delivery system operations continued throughout the quarter. A liquid-phase granular activated carbon (GAC) exchange was completed on May 25, 2021. Disposal of accumulated spent bag filters was completed on June 23, 2021.

General system maintenance of the treatment system and other miscellaneous tasks were also completed during the quarter, as needed, to maintain normal and safe system operations.

### 1.3 Area A Soil Vapor Extraction System

As indicated in the previous quarterly updates, the Area A soil vapor extraction (SVE) system was shut down in early August 2014 and remains shut down, but in a standby operable mode. The NYSDEC indicated that to approve the request to permanently terminate the SVE operations, an Environmental Easement (EE) was required on the property as part of the remedial process. Stauffer Management Company LLC (SMC) prepared the EE documents, which were signed by SMC on April 28, 2015, and by the NYSDEC on August 24, 2015. The final EE was filed with Niagara County on September 4, 2015.

A Site Management Plan (SMP), submitted to the NYSDEC on May 25, 2017, includes provisions for removing the SVE system. Per email correspondence with Brian Sadowski dated September 3, 2019, the SMP required updates to reflect changes in system operation (i.e., addition of chemical feed system) and oversight (i.e., change in project consultants). These revisions were incorporated into a revised SMP that was submitted to the NYSDEC on June 16, 2020. Comments on the revised SMP were received from the NYSDEC on September 21, 2020. The system OM&M Plan was similarly updated and submitted to the NYSDEC as a component of the updated SMP on May 5, 2021. Approval of the updated SMP and OM&M Plan was received from the NYSDEC on June 3, 2021. With this approval, the decommissioning of the Area A SVE system is currently being coordinated and will be completed prior to the end of 2021.

## 2. Sampling

The following sampling events were conducted during the second quarter of 2021:

Weekly Volatile Organic Compound (VOC) Mid-Carbon Sampling: Weekly samples were collected at the midpoint of carbon treatment between the lead and lag treatment vessels. The samples were collected to assess breakthrough of contaminants from the lead carbon vessel. **Table 2** presents the sampling results.

Contaminants were detected in the mid-carbon sampling starting April 6, 2021. However, elevated contaminant concentrations (i.e., total mid-carbon concentration greater than 10%

of the total influent concentration) were not detected until May 11, 2021. Accordingly, a carbon change-out was performed on May 25, 2021. A summary of the mid-carbon constituent detections is provided below.

- Elevated chloroform concentrations (up to 550 micrograms per liter [µg/L]) were detected prior to the start of the reporting period and continued until the May carbon exchange.
- Elevated methylene chloride concentrations (up to 30 µg/L) were detected prior to the start of beginning of the reporting period and continued until the May carbon exchange.
- Elevated carbon tetrachloride concentrations (up to 89 µg/L) were detected prior to the start of the reporting period and continued until the May carbon exchange.
- Elevated carbon disulfide concentrations (up to 7.8 µg/L) were detected starting on April 21, 2021 and continued until the May carbon exchange.

Monthly Influent VOC Sampling: **Table 3** presents the results of the monthly combined influent VOC sampling. Carbon disulfide, carbon tetrachloride, chloroform, methylene chloride, tetrachloroethene, and trichloroethene were all detected above their respective groundwater quality criteria. The highest concentrations were observed during the April 21, 2021 sampling event, with a total site-specific parameter list VOC concentration of 9,497 µg/L.

Monthly Effluent VOC Sampling: **Table 4** presents the results of the monthly effluent VOC sampling. Throughout the quarter, all VOC concentrations were under both their respective daily discharge limit and their respective method detection limits.

Quarterly Effluent Sampling: The New York State Pollutant Discharge Elimination System (SPDES) equivalent semi-volatile organic compounds, metals, and total recoverable phenolic parameters were collected on May 18, 2021. **Table 5** presents the effluent SPDES equivalent sampling results. Zinc was detected at an estimated concentration of 1.9 µg/L; discharge of zinc was below the pounds-per-day SPDES equivalent discharge limit. The semi-volatile compound naphthalene was detected at an estimated concentration of 0.76 µg/L, which is below the SPDES discharge limit of 10 µg/L. Total recoverable phenolics were non-detect for the quarter. Per the results of this sampling, all compounds in the system effluent were detected below their applicable discharge limits.

With the Area A SVE blower shut down, no influent vapor samples were collected in the second quarter of 2021.

### **3. Request to Modify Sampling Frequency and Included Wells**

SMC requested a reduction in the number of monitoring wells to be sampled as part of the annual groundwater sampling during a June 7, 2016 conference call with the NYSDEC. Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. (Langan) repeated this request, in writing, in the First Quarter 2018 Status Report (June 22, 2018) and provided additional information to the NYSDEC in a June 29, 2018 email to Brian Sadowski. The NYSDEC approved the requested reduction in the number of monitoring wells to be sampled via a phone conversation and follow-up email on March 22, 2021.

Langan also submitted to the NYSDEC a Groundwater Monitoring Program Passive Sampling Work Plan on June 30, 2020, which proposed the completion of a side-by-side analysis of the currently employed typical low-flow sampling methodology and a passive sampling methodology (HydraSleeves™) during the 2020 annual groundwater sampling event, in an effort to evaluate the efficacy of the passive sampling methodology as an alternative sampling approach; this was approved by the NYSDEC on July 14, 2020. This sampling plan was executed during the week of August 24, 2020 and the data was presented in the 2020 Annual OM&M Report. The results indicated that the use of HydraSleeves™ would be appropriate for the site and the NYSDEC approved the use of Hydra-Sleeve™ sampling methodology via a phone conversation and follow-up email on March 22, 2021. This revised sampling methodology will be employed next quarter during the completion of the annual groundwater monitoring event.

#### **4. Deliverables in the Second Quarter**

- March 30, 2021 bag filter disposal event Generator Copy of Hazardous Waste Manifest provided to the NYSDEC and the Michigan Department of Environmental Quality (MIDEQ)
- May 25, 2021 carbon exchange event Generator Copy of Hazardous Waste Manifest provided to the NYSDEC and the Pennsylvania Department of Environmental Protection.
- June 23, 2021 bag filter disposal event Generator Copy of Hazardous Waste Manifest provided to the NYSDEC and the MIDEQ.

#### **5. Third Quarter 2021 Planned Events**

- Treatment system operations will continue through the third quarter of 2021.
- The chemical feed system will continue to operate full-time through the third quarter of 2021; optimizations will be made, as necessary.
- Routine treatment system sampling and maintenance will continue throughout the Third Quarter of 2021.
- A change-out of the lead GAC vessel will be completed.
- Spent bag filters will be disposed of off-site.
- Additional conceptual site model investigation activities will be completed.
- Annual well disinfection event will be performed.
- Annual groundwater monitoring event will be performed.
- SVE decommissioning will commence.

# TABLES

**Table 1**  
**System Extraction and Discharge Flow Rates**  
Former Stauffer Management Company, LLC  
Lewiston, New York  
Langan Project No.: 130117301  
8/9/2021

Date	Duration of Operation Since Last Monitoring Event	Totalizer Readings											
		EW-1		EW-2		EW-3		EW-4/T-4		EW-5/DPA-201		EW-6	
		Totalizer	Calculated Flow Rate	Totalizer	Calculated Flow Rate	Totalizer	Calculated Flow Rate	Totalizer	Calculated Flow Rate	Totalizer	Calculated Flow Rate	Totalizer	Calculated Flow Rate
	Minutes	Gallons	GPM	Gallons	GPM	Gallons	GPM	Gallons	GPM	Gallons	GPM	Gallons	GPM
3/30/2021	11,520	136,433	0.00	916,158	5.59	1,288,753	9.06	23,661	0.20	1,787,230	11.5	753,929	3.94
4/6/2021	10,080	136,433	0.00	972,745	5.61	1,381,726	9.22	25,891	0.22	1,900,332	11.2	814,475	6.01
4/13/2021	10,080	168,078	3.14	1,086,782	11.3	1,429,808	4.77	25,891	0.00	2,018,788	11.8	880,157	6.52
4/21/2021	11,520	214,336	4.02	1,140,777	4.69	1,429,808	0.00	25,891	0.00	2,148,856	11.3	951,749	6.21
4/28/2021	10,080	247,649	3.30	1,141,030	0.03	1,429,808	0.00	25,891	0.00	2,266,356	11.7	1,015,724	6.35
5/4/2021	8,640	267,948	2.35	1,141,034	0.00	1,429,808	0.00	28,453	0.30	2,364,676	11.4	1,069,943	6.28
5/11/2021	10,080	284,713	1.66	1,141,066	0.00	1,429,808	0.00	30,661	0.22	2,479,714	11.4	1,132,009	6.16
5/18/2021	10,080	297,666	1.29	1,226,875	8.51	1,505,174	7.48	32,679	0.20	2,614,901	13.4	1,178,814	4.64
5/25/2021	10,080	316,178	1.84	1,341,002	11.3	1,606,960	10.1	34,623	0.19	2,757,792	14.2	1,212,345	3.33
6/2/2021	11,520	343,744	2.39	1,469,358	11.1	1,721,746	9.96	36,737	0.18	2,917,999	13.9	1,249,016	3.18
6/9/2021	10,080	361,109	1.72	1,580,236	11.0	1,820,061	9.75	38,555	0.18	3,057,222	13.8	1,275,879	2.66
6/15/2021	8,640	375,515	1.67	1,675,347	11.0	1,903,346	9.64	40,047	0.17	3,176,106	13.8	1,295,828	2.31
6/22/2021	10,080	391,775	1.61	1,784,692	10.8	1,997,789	9.37	41,756	0.17	3,314,741	13.8	1,312,467	1.65
6/30/2021	11,520	413,997	1.93	1,928,613	12.5	2,105,125	9.32	43,613	0.16	3,445,043	11.3	1,321,147	0.75
<b>Totals / Averages</b>		<b>277,564</b>	<b>1.92</b>	<b>1,012,455</b>	<b>7.40</b>	<b>816,372</b>	<b>6.33</b>	<b>19,952</b>	<b>0.16</b>	<b>1,657,813</b>	<b>12.45</b>	<b>567,218</b>	<b>4.29</b>

**Notes:**  
GPM - gallons per minute  
1. Grey boxes denote calculated data  
2. Calculated flow rates assume the well was operating at all times within that particular operational timeframe.

**Table 1**  
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Former Stauffer Management Company, LLC  
Lewiston, New York  
Langan Project No.: 130117301  
8/9/2021

Date	Duration of Operation Since Last Monitoring Event	Totalizer Readings									
		DPA-202		DPA-203		OW-3		LR-66		Effluent	
		Totalizer	Calculated Flow Rate	Totalizer	Calculated Flow Rate	Totalizer	Calculated Flow Rate	Totalizer	Calculated Flow Rate	Totalizer	Calculated Flow Rate
		Gallons	GPM	Gallons	GPM	Gallons	GPM	Gallons	GPM	Gallons	GPM
3/30/2021	11,520	4,137	0.03	818	0.00	9,907,013	0.06	689,182	1.09	38,982,353	22.8
4/6/2021	10,080	4,329	0.02	818	0.00	9,907,511	0.05	699,268	1.00	39,218,782	23.5
4/13/2021	10,080	4,435	0.01	818	0.00	9,908,095	0.06	709,775	1.04	39,489,579	26.9
4/21/2021	11,520	4,549	0.01	818	0.00	9,908,457	0.03	721,968	1.06	39,708,369	19.0
4/28/2021	10,080	4,684	0.01	818	0.00	9,908,838	0.04	731,399	0.94	39,863,444	15.4
5/4/2021	8,640	4,840	0.02	818	0.00	9,909,297	0.05	740,394	1.04	39,987,071	14.3
5/11/2021	10,080	5,065	0.02	818	0.00	9,909,615	0.03	749,844	0.94	40,123,557	13.5
5/18/2021	10,080	5,227	0.02	898	0.01	9,912,043	0.24	761,510	1.16	40,356,739	23.1
5/25/2021	10,080	5,434	0.02	898	0.00	9,914,801	0.27	772,433	1.08	40,632,801	27.4
6/2/2021	11,520	5,585	0.01	963	0.01	9,914,809	0.00	783,872	0.99	40,929,860	25.8
6/9/2021	10,080	5,698	0.01	981	0.00	9,916,831	0.20	793,537	0.96	41,179,285	24.7
6/15/2021	8,640	5,776	0.01	1,000	0.00	9,918,723	0.22	801,750	0.95	41,390,176	24.4
6/22/2021	10,080	5,903	0.01	1,024	0.00	9,920,746	0.20	811,847	1.00	41,629,098	23.7
6/30/2021	11,520	6,018	0.01	1,082	0.01	9,923,487	0.24	818,950	0.62	41,891,886	22.8
Totals / Averages		1,881	0.02	264	0.00	16,474	0.12	129,768	0.99	2,909,533	22.0

**Notes:**

GPM - gallons per minute

1. Grey boxes denote calculated data
2. Calculated flow rates assume the well was operating at all times within that particular operational timeframe.

**Table 2**  
**Weekly Mid-Carbon Sampling Results**  
Former Stauffer Management Company, LLC  
Lewiston, New York  
Langan Project No.: 130117301  
8/9/2021

Analyte	CAS Number	Discharge Limit (Daily Maximum)	Location	CBT				CBT				CBT				CBT				CBT				CBT				CBT					
			Sample ID	CBT_040621				CBT_041321				CBT_042121				CBT_042821				CBT_050421				CBT_051121				CBT_051821					
			Sample Date	4/6/2021				4/13/2021				4/21/2021				4/28/2021				5/4/2021				5/11/2021				5/18/2021					
			Lab Sample ID	480-182889-1				480-183324-1				480-183650-2				480-183912-1				480-184159-1				480-184523-1				480-184846-2					
			Unit	Result	Q	RL	MDL	DF	Result	Q	RL	MDL	DF	Result	Q	RL	MDL	DF	Result	Q	RL	MDL	DF	Result	Q	RL	MDL	DF	Result	Q	RL	MDL	DF
Volatile Organic Compounds																																	
Benzene	71-43-2	10	ug/l	0.41	U	1	0.41	1	0.41	U	1	0.41	1	0.41	U	1	0.41	1	0.41	U	1	0.41	1	2.1	U	5	2.1	5	2.1	U	5	2.1	5
Carbon Disulfide	75-15-0	Monitor	ug/l	0.35	J	1	0.19	1	0.59	J	1	0.19	1	1.8		1	0.19	1	4.5		1	0.19	1	6.6		5	0.95	5	7.8		5	0.95	5
Carbon Tetrachloride	56-23-5	10	ug/l	6.3		1	0.27	1	30		1	0.27	1	19		1	0.27	1	32		1	0.27	1	35		5	1.4	5	68		5	1.4	5
Chlorobenzene	108-90-7	10	ug/l	0.75	U	1	0.75	1	0.75	U	1	0.75	1	0.75	U	1	0.75	1	0.75	U	1	0.75	1	3.8	U	5	3.8	5	3.8	U	5	3.8	5
Chloroform	67-66-3	10	ug/l	92		1	0.34	1	200		4	1.4	4	230		5	1.7	5	290		5	1.7	5	360		5	1.7	5	440		5	1.7	5
Methylene Chloride	75-09-2	10	ug/l	16		1	0.44	1	22		1	0.44	1	20		1	0.44	1	16		1	0.44	1	23		5	2.2	5	14		5	2.2	5
Tetrachloroethene (PCE)	127-18-4	10	ug/l	0.36	U	1	0.36	1	0.36	U	1	0.36	1	0.36	U	1	0.36	1	0.36	U	1	0.36	1	1.8	U	5	1.8	5	1.8	U	5	1.8	5
Toluene	108-88-3	10	ug/l	0.51	U	1	0.51	1	0.51	U	1	0.51	1	0.51	U	1	0.51	1	0.51	U	1	0.51	1	2.6	U	5	2.6	5	2.6	U	5	2.6	5
Trichloroethene (TCE)	79-01-6	10	ug/l	0.46	U	1	0.46	1	0.46	U	1	0.46	1	0.46	U	1	0.46	1	0.46	U	1	0.46	1	2.3	U	5	2.3	5	2.3	U	5	2.3	5
Total Concentration	–	–	ug/l	114.7					252.6					270.8					342.5					424.6					529.8				

**Exceedance Summary:**

- 1 - Result exceeds Criteria
- 1 - MDL or RL greater than the applicable standard

**Notes:**

Q: data qualifier  
MDL: method detection limit  
RL: reporting limit  
DF: dilution factor  
J: result is less than the RL, but greater than or equal to the MDL and the concentration is an approximate value  
U: indicates the analyte was analyzed for, but not detected  
µg/L: microgram per liter

**Table 2**  
**Weekly Mid-Carbon Sampling Results**  
Former Stauffer Management Company, LLC  
Lewiston, New York  
Langan Project No.: 130117301  
8/9/2021

Analyte	CAS Number	Discharge Limit (Daily Maximum)	Location	CBT					CBT					CBT					CBT					CBT									
			Sample ID	CBT_052521					CBT_060221					CBT_060921					CBT_061521					CBT_062221					CBT_063021				
			Sample Date	5/25/2021					6/2/2021					6/9/2021					6/15/2021					6/22/2021					6/30/2021				
			Lab Sample ID	480-185250-1					480-185513-1					480-185814-1					480-186047-2					480-186367-1					480-186676-1				
Unit	Result	Q	RL	MDL	DF	Result	Q	RL	MDL	DF	Result	Q	RL	MDL	DF	Result	Q	RL	MDL	DF	Result	Q	RL	MDL	DF	Result	Q	RL	MDL	DF			
Volatile Organic Compounds																																	
Benzene	71-43-2	10	ug/l	0.41	U	1	0.41	1	0.41	U	1	0.41	1	0.41	U	1	0.41	1	0.41	U	1	0.41	1	0.41	U	1	0.41	1	0.41	U	1	0.41	1
Carbon Disulfide	75-15-0	Monitor	ug/l	0.37	J	1	0.19	1	0.19	U	1	0.19	1	0.19	U	1	0.19	1	0.19	U	1	0.19	1	0.19	U	1	0.19	1	0.19	U	1	0.19	1
Carbon Tetrachloride	56-23-5	10	ug/l	0.27	U	1	0.27	1	0.27	U	1	0.27	1	0.27	U	1	0.27	1	0.27	U	1	0.27	1	0.27	U	1	0.27	1	0.27	U	1	0.27	1
Chlorobenzene	108-90-7	10	ug/l	0.75	U	1	0.75	1	0.75	U	1	0.75	1	0.75	U	1	0.75	1	0.75	U	1	0.75	1	0.75	U	1	0.75	1	0.75	U	1	0.75	1
Chloroform	67-66-3	10	ug/l	0.75	J	1	0.34	1	0.34	U	1	0.34	1	0.34	U	1	0.34	1	0.34	U	1	0.34	1	0.34	U	1	0.34	1	0.34	U	1	0.34	1
Methylene Chloride	75-09-2	10	ug/l	0.44	U	1	0.44	1	0.44	U	1	0.44	1	0.44	U	1	0.44	1	0.44	U	1	0.44	1	0.44	U	1	0.44	1	0.44	U	1	0.44	1
Tetrachloroethene (PCE)	127-18-4	10	ug/l	0.36	U	1	0.36	1	0.36	U	1	0.36	1	0.36	U	1	0.36	1	0.36	U	1	0.36	1	0.36	U	1	0.36	1	0.36	U	1	0.36	1
Toluene	108-88-3	10	ug/l	0.51	U	1	0.51	1	0.51	U	1	0.51	1	0.51	U	1	0.51	1	0.51	U	1	0.51	1	0.51	U	1	0.51	1	0.51	U	1	0.51	1
Trichloroethene (TCE)	79-01-6	10	ug/l	0.46	U	1	0.46	1	0.46	U	1	0.46	1	0.46	U	1	0.46	1	0.46	U	1	0.46	1	0.46	U	1	0.46	1	0.46	U	1	0.46	1
Total Concentration	—	—	ug/l	1.12					ND					ND					ND					ND					ND				

**Exceedance Summary:**

- 1 - Result exceeds Criteria  
1 - MDL or RL greater than the applicable standard

**Notes:**

Q: data qualifier  
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J: result is less than the RL, but greater than or equal to the MDL and the concentration is an approximate value  
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**Table 3**  
**Monthly Influent Sampling Results**  
Former Stauffer Management Company, LLC  
Lewiston, New York  
Langan Project No.: 130117301  
8/9/2021

Analyte	CAS Number	NYSDEC Groundwater Criteria	Location	INF					INF					INF					
			Sample ID	INF_042121					INF_051821					INF_061521					
			Sample Date	4/21/2021					5/18/2021					6/15/2021					
			Lab Sample ID	480-183650-1					480-184846-1					480-186047-1					
			Unit	Result	Q	RL	MDL	DF	Result	Q	RL	MDL	DF	Result	Q	RL	MDL	DF	
Volatile Organic Compounds																			
Benzene	71-43-2	0.7	ug/l	16	U	40	16	40	33	U	80	33	80	33	U	80	33	80	
Carbon Disulfide	75-15-0	50	ug/l	3900		80	15	80	2100		80	15	80	2500		80	15	80	
Carbon Tetrachloride	56-23-5	5	ug/l	3200		80	22	80	1900		80	22	80	2600		80	22	80	
Chlorobenzene	108-90-7	5	ug/l	30	U	40	30	40	60	U	80	60	80	60	U	80	60	80	
Chloroform	67-66-3	7	ug/l	2100		40	14	40	1200		80	27	80	1200		80	27	80	
Methylene Chloride	75-09-2	5	ug/l	130		40	18	40	100		80	35	80	35	U	80	35	80	
Tetrachloroethene (PCE)	127-18-4	5	ug/l	110		40	14	40	64	J	80	29	80	77	J	80	29	80	
Toluene	108-88-3	5	ug/l	20	U	40	20	40	41	U	80	41	80	41	U	80	41	80	
Trichloroethene (TCE)	79-01-6	5	ug/l	57		40	18	40	51	J	80	37	80	61	J	80	37	80	
Total Concentration		NA	ug/l	9497					5415					6438					

**Exceedance Summary:**

1 - Result exceeds Criteria

1 - MDL or RL greater than the applicable standard

**Notes:**

Q: data qualifier

MDL: method detection limit

RL: reporting limit

DF: dilution factor

J: result is less than the RL, but greater than or equal to the MDL and the concentration is an approximate value

U: indicates the analyte was analyzed for, but not detected

µg/L: microgram per liter

**Table 4**  
**Monthly Effluent Sampling Results**  
Former Stauffer Management Company, LLC  
Lewiston, New York  
Langan Project No.: 130117301  
8/9/2021

Analyte	CAS Number	Discharge Limit (Daily Maximum)	Location	EFF					EFF					EFF					
			Sample ID	EFF_042121					EFF_051821					EFF_061521					
			Sample Date	4/21/2021					5/18/2021					6/15/2021					
			Lab Sample ID	480-183650-3					480-184846-3					480-186047-3					
			Unit	Result	Q	RL	MDL	DF	Result	Q	RL	MDL	DF	Result	Q	RL	MDL	DF	
Volatile Organic Compounds																			
Benzene	71-43-2	10	ug/l	0.41	U	1	0.41	1	0.41	U	1	0.41	1	0.41	U	1	0.41	1	
Carbon Disulfide	75-15-0	Monitor	ug/l	0.19	U	1	0.19	1	0.19	U	1	0.19	1	0.19	U	1	0.19	1	
Carbon Tetrachloride	56-23-5	10	ug/l	0.27	U	1	0.27	1	0.27	U	1	0.27	1	0.27	U	1	0.27	1	
Chlorobenzene	108-90-7	10	ug/l	0.75	U	1	0.75	1	0.75	U	1	0.75	1	0.75	U	1	0.75	1	
Chloroform	67-66-3	10	ug/l	0.34	U	1	0.34	1	0.34	U	1	0.34	1	0.34	U	1	0.34	1	
Methylene Chloride	75-09-2	10	ug/l	0.44	U	1	0.44	1	0.44	U	1	0.44	1	0.44	U	1	0.44	1	
Tetrachloroethene (PCE)	127-18-4	10	ug/l	0.36	U	1	0.36	1	0.36	U	1	0.36	1	0.36	U	1	0.36	1	
Toluene	108-88-3	10	ug/l	0.51	U	1	0.51	1	0.51	U	1	0.51	1	0.51	U	1	0.51	1	
Trichloroethene (TCE)	79-01-6	10	ug/l	0.46	U	1	0.46	1	0.46	U	1	0.46	1	0.46	U	1	0.46	1	
Total Concentration	--	--	ug/l	ND					ND					ND					

**Exceedance Summary:**

**1** - Result exceeds Criteria

**1** - MDL or RL greater than the applicable standard

**Notes:**

Q: data qualifier

MDL: method detection limit

RL: reporting limit

DF: dilution factor

J: result is less than the RL, but greater than or equal to the MDL and the concentration is an approximate value

U: indicates the analyte was analyzed for, but not detected

µg/L: microgram per liter

**Table 5**  
**Quarterly Effluent (SPDES) Sampling Results**  
Former Stauffer Management Company, LLC  
Lewiston, New York  
Langan Project No.: 130117301  
8/9/2021

Analyte	CAS Number	Discharge Limit (Daily Maximum)	Location	EFF						Discharge Rate
			Sample ID	EFF_051821						
			Sample Date	5/18/2021						
			Lab Sample ID	480-184846-3						
			Unit	Result	Q	RL	MDL	DF	lbs/day	
Semi-Volatile Organic Compounds										
2,4-Dichlorophenol	120-83-2	10	ug/l	0.51	U	5	0.51	1	NA	
Hexachloroethane	67-72-1	10	ug/l	0.59	U	5	0.59	1	NA	
Naphthalene	91-20-3	10	ug/l	0.76	J	5	0.76	1	NA	
Metals										
Arsenic	7440-38-2	0.036*	ug/l	5.6	U	15	5.6	1	0.0012	
Chromium, Total	7440-47-3	0.072*	ug/l	1	U	4	1	1	0.0002	
Copper	7440-50-8	0.1*	ug/l	1.6	U	10	1.6	1	0.0003	
Lead	7439-92-1	0.16*	ug/l	3	U	10	3	1	0.0006	
Nickel	7440-02-0	0.072*	ug/l	1.3	U	10	1.3	1	0.0003	
Selenium	7782-49-2	0.48*	ug/l	8.7	U	25	8.7	1	0.0018	
Zinc	7440-66-6	0.86*	ug/l	1.9	J	10	1.5	1	0.0004	
General Chemistry										
Phenolics, Total Recoverable	TOTPHEN	10	ug/l	3.5	U	10	3.5	1	NA	

**Exceedance Summary:**

- 1 - Result exceeds Criteria  
1 - MDL or RL greater than the applicable standard

**Notes:**

SPDES - State Pollutant Discharge Elimination System

Q: data qualifier

MDL: method detection limit

RL: reporting limit

DF: dilution factor

J: result is less than the RL, but greater than or equal to the MDL and the concentration is an approximate value

U: indicates the analyte was analyzed for, but not detected

µg/L: microgram per liter

lbs/day: pounds per day (at assumed average of 35 gallons per minute)

NA: not applicable

\* discharge limits for metals are in lbs/day