

MERCURY MINIMIZATION PLAN 2025 ANNUAL REPORT FOR THE TOWN OF ROTTERDAM

1100 Sunrise Boulevard
Rotterdam, NY 12306

TOWN COUNCIL

Mollie A. Collins

Jack Dodson

Teri A. Gallucci

Ron Schlag

Joseph C. Mastroianni

Diane Marco

Supervisor

Deputy Town Supervisor

Town Council

Town Council

Town Council

Town Clerk

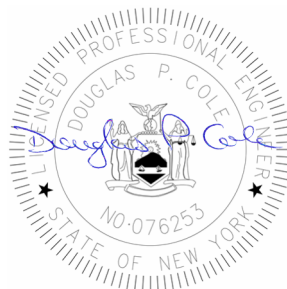
DEPARTMENT OF PUBLIC WORKS

Jim Keith

Brion Dufek

Senior Building Inspector

Wastewater Treatment Plant Operator



PREPARED BY:

KB Engineering and Architecture, P.C.

Project No. 250342-00R

July 2025



**TOWN OF ROTTERDAM
MERCURY MINIMIZATION PLAN
2025 ANNUAL REPORT**

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DDS

July 15, 2025

Mr. Kevin O'Connor, PE
NYSDEC Region 4
1130 N. Westcott Road
Schenectady, NY 12306

**Re: MMP Annual Report for 2024-2025
Town of Rotterdam
SPDES No. NY 0020141
Our Project No. 250342-00R**

Dear Mr. O'Connor,

A Mercury Minimization Plan (MMP) was implemented in July 2021 as a part of the SPDES Permit issued to the Town of Rotterdam (SPDES Permit No. NY0020141). As a part of the MMP, an annual report must be submitted detailing tasks undertaken every year to progress towards reducing mercury in the sewer system.

Last year, the treatment plant continued quarterly influent and effluent sampling for mercury. All the test results were below the regulatory limit of 50 ng/L for the effluent.

This letter along with the exhibit contains the Annual Report documenting the progress made over the past year. Between July 2024 and June 2025, the following tasks were completed:

1. Influent and effluent sampling for mercury was performed at the wastewater treatment plant. Lab reports from the mercury tests conducted are included as Exhibit A.
2. Sampling at the key sampling location identified in the previous year – manhole downstream of Von Roll USA was conducted quarterly.
3. The completed dental BMPs checklist form for the only dental facility in the sewer district was obtained.
4. Routine TCLP tests on the wastewater sludge containing mercury as one of the tests.

Further details regarding the progress made this year, along with the tasks to be completed for the following year, are outlined in the Annual Report.

If you have any questions, please feel free to contact me at your convenience.

Sincerely,

KB Engineering & Architecture, P.C.

Douglas P. Cole, PE
Senior Director of Water and Wastewater

cc: Mollie A. Collins, Supervisor
Jack Dodson, Deputy Supervisor
Brion Dufek, WWTP Operator
Diane Marco, Town Clerk

Town of Rotterdam
2024 – 2025 Mercury Minimization Program Annual Report

This document is submitted to fulfill the requirements as set forth in the SPDES permit requiring the development of a mercury minimization program. The Annual Report serves both as a compliance monitoring tool for the NYSDEC, and as a revising process for the discharger to make necessary revisions to the MMP where problems were discovered and where new areas need investigation.

Date: **July 15, 2025**
Permit Number: NY0020141
Additional Permits covered by this Annual Report: None
Agency Interest Number: 4-4228-00043/00001

Permittee Name: Town of Rotterdam
Facility Name: Rotterdam Sewer District #2
Contact Name: Brion Dufek
Contact Phone: 518-331-0041

1. Was the Mercury Minimization Program Plan as submitted to NYSDEC followed completely during the past year?

Yes No

If no, attach supporting documentation that clearly describes any and all deviations from the program. Include a list of all actions or conditions that lead to the variation as well as any interaction with NYSDEC in relation to the variation.

2. List any confirmed sources of mercury to the treatment system including an average annual loading to the treatment system (may be estimated) and method by which the source was identified.

Influent and effluent samples collected at the WWTP over the past year showed that mercury levels were significantly lower than the regulatory level of 50ng/L. The average influent mercury concentration was found to be 28.58 ng/L, while the average effluent concentration was 5.72 ng/L. There were no *confirmed* mercury sources identified since all the influent and effluent samples tested to be less than 50 ng/L.

The range of influent mercury concentrations and loading to the WWTP is provided below.

3. List any potential sources of mercury to the treatment system including an average annual loading to the treatment system (may be estimated).

Influent and effluent samples collected at the WWTP over the past year showed that mercury levels were significantly lower than the regulatory level of 50ng/L. The average influent mercury concentration was found to be 28.58 ng/L, while the average effluent concentration was 5.72 ng/L. There were no *potential* mercury sources identified since all the influent and effluent samples tested to be less than 50 ng/L.

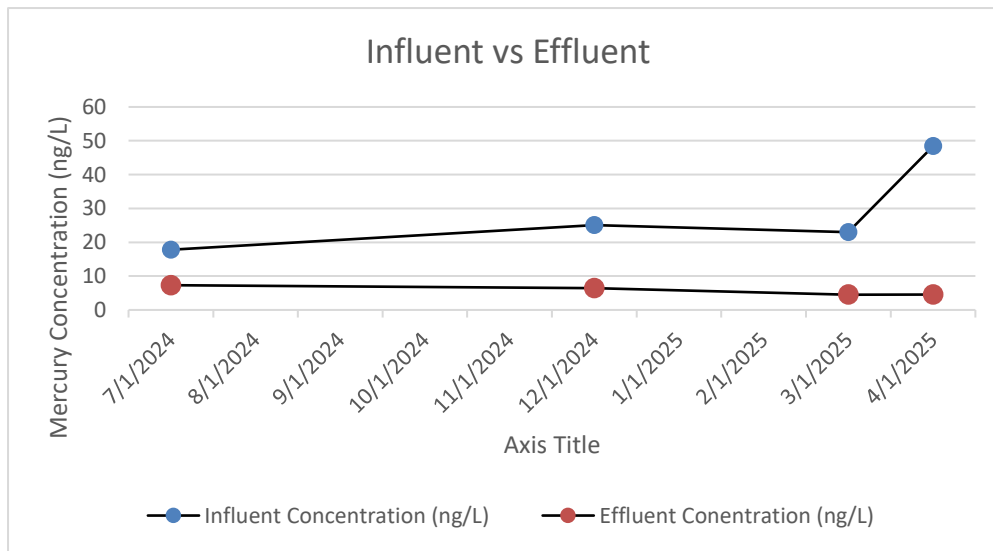
Influent mercury concentration ranged from 17.8 ng/L to 48.4 ng/L. The corresponding mercury mass loading is provided in the table below:

Sample Date	Influent Loading (to WWTP) lbs/day	Effluent Loading (to Mohawk River) lbs/day
07/09/2024	1.36E-04	5.58E-05
12/03/2024	1.81E-04	4.68E-05
03/11/2025	1.69E-04	3.31E-05
04/22/2025	3.60E-04	3.40E-05

4. Attach all analytical results from all monitoring performed during the last year for mercury, including detection/quantification level, method used and location of sample (ex: influent, effluent, sludge, industrial users, etc.)

Influent and effluent samples were collected at the same time at the WWTP to obtain mass removal percentage data which could be used to estimate the quantity of mercury removed by treatment processes at the WWTP. Samples were collected every quarter since the MMP was approved by DEC in June 2021. The test results, presented in the table below, showed that mercury levels were considerably lower than the regulatory limits. The sample method used for testing was the EPA approved method 1631E- Mercury in Water by Oxidation, Purge and Trap, and Cold Vapor Atomic Absorption Fluorescence Spectrometry.

Collection Date	Mercury Concentration				Removal %
	Influent (ng/L)	Typical Influent Range (ng/L)	Effluent (ng/L)	Effluent Limit (ng/L)	
07/09/2024	17.80	50 – 500	7.31	50	58.93%
12/03/2024	25.10	50 – 500	6.48	50	74.18%
03/11/2025	23.00	50 – 500	4.50	50	80.43%
04/22/2025	48.40	50 – 500	4.58	50	90.54%



As seen in the table, all effluent concentrations were below the regulatory limit of 50 ng/L. The highest removal percentage observed was in April 2025.

The manhole downstream of Von Roll was identified as a key sampling location which requires semi-annual sampling. This year, sampling at the key sampling location was conducted quarterly, which exceeds the required semi-annual sampling. The test results from this manhole are shown below.

Von Roll Mercury Test Results	
Sample Date	Mercury Concentration (ng/L)
07/23/2024	0.2
10/15/2024	0.2
02/25/2025	0.2

In addition to the influent and effluent samples taken at the treatment plant, TCLP testing on the sludge showed the mercury concentration to be lower than the method detection limit of 0.001 mg/L.

Lab reports pertaining to the results shown in the table above, the TCLP results and the key sampling location are included as Exhibit A.

- 5. Attach a list of all actions taken to reduce or eliminate sources of mercury from the treatment system. Actions may include treatment, remediation, investigation, operation, management activities, public outreach, distribution of materials, implementation of BMP's, contact with industrial users, inspection of industrial users, etc. If no actions were taken to reduce or eliminate sources of mercury to the treatment system, please explain why.**

Last year the Town contacted the remaining two dental facilities for which a dental BMP checklist was not obtained. Since no response was initially obtained from the facilities, the form was hand delivered to one of the dental facilities and it was determined that the other facility was not connected to sanitary sewer. The completed form which was hand delivered to Shawn Allen DDS is included in Exhibit B.

In an attempt to closely monitor potential mercury discharge from industrial users connected to Sewer District #2, i.e. Von Roll, the Town requires quarterly testing for mercury which is more stringent than the SPDES permit required semi annual testing. Lab reports from the quarterly mercury testing are included in Exhibit A.

- 5. Attach a list of all actions planned to further reduce or eliminate sources of mercury.**

The WWTP shall continue quarterly testing of the influent and effluent at the WWTP. Quarterly requirement of mercury test results from Von Roll shall continue.

In the upcoming year, the Town shall try to obtain the NYSDEC Amalgam Waste Compliance Report from Shawn Allen DDS.

- 7. Provide additional comments or information on the treatment systems progress using the Mercury Minimization Program Plan to proceed toward achievement of the goal to reduce effluent concentrations of mercury.**

Schenectady County Hazardous Household Waste collections events (most recently held on 04/05/2025) provides an opportunity for the residents of Rotterdam to safely dispose of any household mercury containing products.



EXHIBIT A

LAB REPORTS FOR MERCURY SAMPLING AT INFLUENT, EFFLUENT OF
THE WWTP AND KEY SAMPLING LOCATION



SAMPLE INFORMATION

Sample ID JH2405512 **Customer Code** 1802
Federal Water Supply Code NY0020141
Water Supply Town of Rotterdam Sewer District # 2
Address Distribution & Treatment Plant, , Rotterdam , NY , 12306
Sample Location Influent
Date Collected 7/9/2024 **Time Collected** 9:45 AM
Sample Collector Nick K
Date Printed 7/24/2024

RESULTS

ANALYTE	Concentration. ng/L	Method	MCL*/SLOQ	Date Analyzed	Lab ID Number
Mercury	17.8	EPA 1631E		7/23/24	12006
Mercury Duplicate	24.1	EPA 1631E			
Mercury Blank	<0.500	EPA 1631E			

Comments

Notes:

MCL* is the Maximum Contaminant Level; it is the maximum concentration allowed in drinking water for a specific analyte as per NYS Sanitary Code. SLOQ = Sample Limit of Quantitation.

Legend: MG/L = Milligrams per Liter; < = Less Than; > = Greater Than;
mg/L = Parts per million; ug/L = Parts per billion; mg/Kg = milligrams per kilograms NT= Not Tested

The above test procedures meet all the requirements of NELAC and relate only to this sample



SAMPLE INFORMATION

Sample ID JH2405513 Customer Code 1802
Federal Water Supply Code NY0020141
Water Supply Town of Rotterdam Sewer District # 2
Address Distribution & Treatment Plant, , Rotterdam , NY , 12306
Sample Location Effluent
Date Collected 7/9/2024 Time Collected 9:45 AM
Sample Collector Nick K
Date Printed 7/24/2024

RESULTS

ANALYTE	Concentration. ng/L	Method	MCL*/SLOQ	Date Analyzed	Lab ID Number
Mercury	7.31	EPA 1631E		7/23/24	12006
Mercury Duplicate	7.43	EPA 1631E			
Mercury Blank	<0.500	EPA 1631E			

Comments

Notes:

MCL* is the Maximum Contaminant Level; it is the maximum concentration allowed in drinking water for a specific analyte as per NYS Sanitary Code. SLOQ = Sample Limit of Quantitation.

Legend: MG/L = Milligrams per Liter; < = Less Than; > = Greater Than;
mg/L = Parts per million; ug/L = Parts per billion; mg/Kg = milligrams per kilograms NT= Not Tested

The above test procedures meet all the requirements of NELAC and relate only to this sample



SAMPLE INFORMATION

Sample ID JH2410610 **Customer Code** 1802
Federal Water Supply Code NY0020141
Water Supply Town of Rotterdam Sewer District # 2
Address Distribution & Treatment Plant, , Rotterdam , NY , 12306
Sample Location Influent
Date Collected 12/3/2024 **Time Collected** 9:25 AM
Sample Collector Joe Disco
Date Printed 12/17/2024

RESULTS

ANALYTE	Concentration. ng/L	Method	MCL*/SLOQ	Date Analyzed	Lab ID Number
Mercury	25.1	EPA 1631E		12/13/24	12006
Mercury Duplicate	25.4	EPA 1631E			
Mercury Blank	<0.500	EPA 1631E			

Comments

Notes:

MCL* is the Maximum Contaminant Level; it is the maximum concentration allowed in drinking water for a specific analyte as per NYS Sanitary Code. SLOQ = Sample Limit of Quantitation.

Legend: MG/L = Milligrams per Liter; < = Less Than; > = Greater Than;
mg/L = Parts per million; ug/L = Parts per billion; mg/Kg = milligrams per kilograms NT= Not Tested

The above test procedures meet all the requirements of NELAC and relate only to this sample



SAMPLE INFORMATION

Sample ID JH2410611 **Customer Code** 1802
Federal Water Supply Code NY0020141
Water Supply Town of Rotterdam Sewer District # 2
Address Distribution & Treatment Plant, , Rotterdam , NY , 12306
Sample Location Effluent
Date Collected 12/3/2024 **Time Collected** 9:20 AM
Sample Collector Joe Disco
Date Printed 12/17/2024

RESULTS

ANALYTE	Concentration. ng/L	Method	MCL*/SLOQ	Date Analyzed	Lab ID Number
Mercury	6.48	EPA 1631E		12/13/24	12006
Mercury Duplicate	6.25	EPA 1631E			
Mercury Blank	<0.500	EPA 1631E			

Comments

Notes:

MCL* is the Maximum Contaminant Level; it is the maximum concentration allowed in drinking water for a specific analyte as per NYS Sanitary Code. SLOQ = Sample Limit of Quantitation.

Legend: MG/L = Milligrams per Liter; < = Less Than; > = Greater Than;
mg/L = Parts per million; ug/L = Parts per billion; mg/Kg = milligrams per kilograms NT= Not Tested

The above test procedures meet all the requirements of NELAC and relate only to this sample



SAMPLE INFORMATION

Sample ID JH2501724 **Customer Code** 1802
Federal Water Supply Code NY0020141
Water Supply Town of Rotterdam Sewer District # 2
Address Distribution & Treatment Plant, , Rotterdam , NY , 12306
Sample Location Influent
Date Collected 3/11/2025 **Time Collected** 10:30 AM
Sample Collector Joe Disco
Date Printed 3/22/2025

RESULTS

ANALYTE	Concentration. ng/L	Method	MCL*/SLOQ	Date Analyzed	Lab ID Number
Mercury	23.0	EPA 1631E		3/21/25	12006
Mercury Duplicate	14.3	EPA 1631E			
Mercury Blank	<0.500	EPA 1631E			

Comments

Notes:

MCL* is the Maximum Contaminant Level; it is the maximum concentration allowed in drinking water for a specific analyte as per NYS Sanitary Code. SLOQ = Sample Limit of Quantitation.

Legend: MG/L = Milligrams per Liter; < = Less Than; > = Greater Than;
mg/L = Parts per million; ug/L = Parts per billion; mg/Kg = milligrams per kilograms NT= Not Tested

The above test procedures meet all the requirements of NELAC and relate only to this sample



SAMPLE INFORMATION

Sample ID JH2501725 Customer Code 1802
Federal Water Supply Code NY0020141
Water Supply Town of Rotterdam Sewer District # 2
Address Distribution & Treatment Plant, , Rotterdam , NY , 12306
Sample Location Effluent
Date Collected 3/11/2025 Time Collected 10:30 AM
Sample Collector Joe Disco
Date Printed 3/22/2025

RESULTS

ANALYTE	Concentration. ng/L	Method	MCL*/SLOQ	Date Analyzed	Lab ID Number
Mercury	4.50	EPA 1631E		3/21/25	12006
Mercury Duplicate	4.87	EPA 1631E			
Mercury Blank	<0.500	EPA 1631E			

Comments

Notes:

MCL* is the Maximum Contaminant Level; it is the maximum concentration allowed in drinking water for a specific analyte as per NYS Sanitary Code. SLOQ = Sample Limit of Quantitation.

Legend: MG/L = Milligrams per Liter; < = Less Than; > = Greater Than;
mg/L = Parts per million; ug/L = Parts per billion; mg/Kg = milligrams per kilograms NT= Not Tested

The above test procedures meet all the requirements of NELAC and relate only to this sample



SAMPLE INFORMATION

Sample ID JH2502962 Customer Code 1802
Federal Water Supply Code NY0020141
Water Supply Town of Rotterdam Sewer District # 2
Address Distribution & Treatment Plant, , Rotterdam , NY , 12306
Sample Location Influent
Date Collected 4/22/2025 Time Collected 9:40 AM
Sample Collector Shawn Pryba
Date Printed 5/8/2025

RESULTS

ANALYTE	Concentration. ng/L	Method	MCL*/SLOQ	Date Analyzed	Lab ID Number
Mercury	48.4	EPA 1631E		5/5/25	12006
Mercury Duplicate	24.9	EPA 1631E			
Mercury Blank	<0.500	EPA 1631E			

Comments

Notes:

MCL* is the Maximum Contaminant Level; it is the maximum concentration allowed in drinking water for a specific analyte as per NYS Sanitary Code. SLOQ = Sample Limit of Quantitation.

Legend: MG/L = Milligrams per Liter; < = Less Than; > = Greater Than;
mg/L = Parts per million; ug/L = Parts per billion; mg/Kg = milligrams per kilograms NT= Not Tested

The above test procedures meet all the requirements of NELAC and relate only to this sample



SAMPLE INFORMATION

Sample ID JH2502963 Customer Code 1802
Federal Water Supply Code NY0020141
Water Supply Town of Rotterdam Sewer District # 2
Address Distribution & Treatment Plant, , Rotterdam , NY , 12306
Sample Location Effluent
Date Collected 4/22/2025 Time Collected 9:45 AM
Sample Collector Shawn Pryba
Date Printed 5/8/2025

RESULTS

ANALYTE	Concentration. ng/L	Method	MCL*/SLOQ	Date Analyzed	Lab ID Number
Mercury	4.58	EPA 1631E		5/5/25	12006
Mercury Duplicate	4.44	EPA 1631E			
Mercury Blank	<0.500	EPA 1631E			

Comments

Notes:

MCL* is the Maximum Contaminant Level; it is the maximum concentration allowed in drinking water for a specific analyte as per NYS Sanitary Code. SLOQ = Sample Limit of Quantitation.

Legend: MG/L = Milligrams per Liter; < = Less Than; > = Greater Than;
mg/L = Parts per million; ug/L = Parts per billion; mg/Kg = milligrams per kilograms NT= Not Tested

The above test procedures meet all the requirements of NELAC and relate only to this sample



Von Roll USA, Inc.
200 Von Roll Drive
Schenectady, NY 12306
Phone: (518) 344-7100
www.vonroll.com

October 16, 2024

WWTP Operator
Municipal Wastewater Treatment Plant
26 W. Campbell Road
Rotterdam, NY 12306

**Re: Von Roll USA, Inc. – 3Q24 Sanitary Report
Industrial Wastewater Permit No. NY0020141**

Dear WWTP Operator,

Attached is the Quarterly Compliance Monitoring Report submitted for the third quarter of 2024. This report provides a summary of the Von Roll USA, Inc. industrial wastewater test results discharging to the Rotterdam Municipal Wastewater Treatment Plant as sampled on July 23, 2024. The average flow rate for the period was 84,947 gallons per day.

There were no exceptions to the Rotterdam Sewer Ordinance during this reporting period. Based on the sample report information provided by Adirondack Environmental Services, Inc., the Von Roll USA, Inc. Schenectady facility was in full compliance with the terms of the SPDES discharge permit during the second quarter of 2024.

Please feel free to contact at (518) 807-1749 or by email at ana.shimohisa@altana.com if you should have any questions.

Sincerely,

Ana Shimohisa

Ana Shimohisa
EHS Specialist
Operational EHS SC

Enclosure: 3 Q24 Compliance Monitoring Report

cc: Department of Public Works
Town of Rotterdam
1100 Sunrise Blvd
Rotterdam, NY 12306



Quarterly Compliance Monitoring Report
3rd Quarter 2024

Parameter	Limit	Results	Units	Sample Date
pH	5.5 to 9.5	7.6	SU	7/23/2024
Flow	100,000	84,947	GPD	7/1/2024 – 9/30/24
Oil and Grease	200	ND	mg/l	7/23/2024
TOC	160	8.6	mg/l	7/23/2024
COD	500	45	mg/l	7/23/2024
Arsenic	0.2	ND (< 0.05)	mg/l	7/23/2024
Barium	4.0	0.036	mg/l	7/23/2024
Lead	0.2	ND (< 0.005)	mg/l	7/23/2024
Mercury	0.05	ND (<0.0002)	mg/l	7/23/2024

"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 my 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 fines and imprisonment for knowing violations."

Signature: Ana Shimohisa

Date: 10/16/2024

Ana Shimohisa
EHS Specialist
Von Roll USA, Inc.
200 Von Roll
Drive Schenectady, NY 12306



Von Roll USA, Inc.
200 Von Roll Drive
Schenectady, NY 12306
Phone: (518) 344-7100
www.vonroll.com

January 13, 2025

WWTP Operator
Municipal Wastewater Treatment Plant
26 W. Campbell Road
Rotterdam, NY 12306

**Re: Von Roll USA, Inc. – 4Q24 Sanitary Report
Industrial Wastewater Permit No. NY0020141**

Dear WWTP Operator,

Attached is the Quarterly Compliance Monitoring Report submitted for the third quarter of 2024. This report provides a summary of the Von Roll USA, Inc. industrial wastewater test results discharging to the Rotterdam Municipal Wastewater Treatment Plant as sampled on October 15, 2024. The average flow rate for the period was 85,341 gallons per day.

There were no exceptions to the Rotterdam Sewer Ordinance during this reporting period. Based on the sample report information provided by Adirondack Environmental Services, Inc., the Von Roll USA, Inc. Schenectady facility was in full compliance with the terms of the SPDES discharge permit during the second quarter of 2024.

Please feel free to contact at (518) 807-1749 or by email at ana.shimohisa@altana.com if you should have any questions.

Sincerely,

Ana Shimohisa
EHS Specialist
Operational EHS SC

Enclosure: 4 Q24 Compliance Monitoring Report

cc: Department of Public Works
Town of Rotterdam
1100 Sunrise Blvd
Rotterdam, NY 12306



Quarterly Compliance Monitoring Report
4th Quarter 2024

Parameter	Limit	Results	Units	Sample Date
pH	5.5 to 9.5	7.7	SU	
Flow	100,000	85,341	GPD	10/1/2024 – 12/31/24
Oil and Grease	200	ND	mg/l	
TOC	160	4.2	mg/l	
COD	500	39	mg/l	
Arsenic	0.2	ND	mg/l	
Barium	4.0	0.040	mg/l	
Lead	0.2	ND	mg/l	
Mercury	0.05	ND	mg/l	

"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 my 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 fines and imprisonment for knowing violations."

Signature: Ana Shimohisa

Date: 01/13/25

Ana Shimohisa
EHS Specialist
Von Roll USA, Inc.
200 Von Roll
Drive Schenectady, NY 12306



Von Roll USA, Inc.
200 Von Roll Drive
Schenectady, NY 12306
Phone: (518) 344-7140
Fax: (518) 344-7372
www.vonroll.com

April 15, 2025

WWTP Operator
Municipal Wastewater Treatment Plant
26 W. Campbell Road
Rotterdam, NY 12306

**Re: Von Roll USA, Inc. – 1Q25 Sanitary Report
Industrial Wastewater Permit No. NY0020141**

Dear WWTP Operator,

Attached is the Quarterly Compliance Monitoring Report submitted for the first quarter of 2024. This report provides a summary of the Von Roll USA, Inc. industrial wastewater test results discharging to the Rotterdam Municipal Wastewater Treatment Plant as sampled on February 25 2025. The average flow rate for the period was 69,076 gallons per day.

There were no exceptions to the Rotterdam Sewer Ordinance during this reporting period. Based on the sample report information provided by Adirondack Environmental Services, Inc., the Von Roll USA, Inc. Schenectady facility was in full compliance with the terms of the SPDES discharge permit during the first quarter of 2024.

Please feel free to contact at (518) 807-1749 or by email at ana.shimohisa@altana.com if you should have any questions.

Sincerely,

Ana Shimohisa
EHS Specialist
Operational EHS SC

Enclosure: 1Q25 Compliance Monitoring Report

cc: Department of Public Works
Town of Rotterdam
1100 Sunrise Blvd
Rotterdam, NY 12306



Quarterly Compliance Monitoring Report
1st Quarter 2025

Parameter	Limit	Results	Units	Sample Date
pH	5.5 to 9.5	7.9	SU	2/25/2025
Flow	100,000	69,076	GPD	1/1/2025 – 3/31/25
Oil and Grease	200	ND	mg/l	2/25/2025
TOC	160	6.1	mg/l	2/25/2025
COD	500	32	mg/l	2/25/2025
Arsenic	0.2	ND (< 0.05)	mg/l	2/25/2025
Barium	4.0	0.030	mg/l	2/25/2025
Lead	0.2	ND (< 0.005)	mg/l	2/25/2025
Mercury	0.05	ND (<0.0002)	mg/l	2/25/2025

"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 my 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 fines and imprisonment for knowing violations."

Signature: Ana Shimohisa

Date: 04/15/2025

Ana Shimohisa
EHS Specialist
Von Roll USA, Inc.
200 Von Roll
Drive Schenectady, NY 12306



JH CONSULTING GROUP, INC

15 Lynnwood Drive
Loudonville, NY 12211
(518) 785-9839

PO BOX 705
NEWTONVILLE, NY 12128
(518) 785-9839

Federal Water Supply Code 1802

Sample I.D. **JH24 08597**

Water Supply Town of Rotterdam Sewer District # 2

Sample Location Belt Press Sludge **FEB Full TCLP reduced to 1 @ yr**

SAMPLE INFORMATION

SAMPLE TYPE RAW LIQUID DRYING BED WASTEWATER

DATE COLLECTED 9/23/24 TIME COLLECTED 10:30 AM

SAMPLER Joe Disco TEMPERATURE, °C _____

FREE CHLORINE, MGL _____

ANALYSES REQUIRED

JV
RECEIVED SEP 24 2024

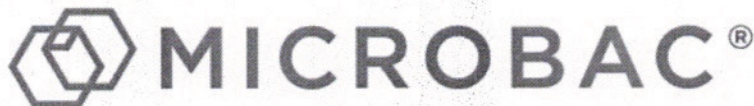
The analytes below are subcontracted to approved New York State Laboratories for analysis

SLUDGE (8) Full TCLP NYS 6NYCRR Part 360 Regulation

- Metals SW 61010C 3 16 oz jars
- Volatiles SW846 Method 8260
- Semi Volatiles SW846 Method 8270
- Organo-Chlorine Pesticides SW 846 Method 8081
- Hydrocarbons TPH Method 1664 / or Total Petroleum Method 5015B
- Corrosivity, Flash Point, Reactivity

Date Received _____

Shipment
US Mail UPS Fed X Hand



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J4J0239

Project Description

JH24 08597 Rotterdam

For:

Suzanne & Jack Halstuch

JH Consulting

PO Box 705

Newtonville, NY 12128

Customer Relationship Coordinator

Shannon Weeks

Monday, October 28, 2024

Please find enclosed the analytical results for the samples you submitted to Microbac Laboratories. Review and compilation of your report was completed by Microbac Laboratories, Inc., New York Division. If you have any questions, comments, or require further assistance regarding this report, please contact your service representative listed above.

I certify that all test results meet all of the requirements of the accrediting authority listed within this report. Analytical results are reported on a 'as received' basis unless specified otherwise. Analytical results for solids with units ending in (dry) are reported on a dry weight basis. A statement of uncertainty for each analysis is available upon request. This laboratory report shall not be reproduced, except in full, without the written approval of Microbac Laboratories. The reported results are related only to the samples analyzed as received.

Microbac Laboratories, Inc.

3821 Buck Dr. | Cortland, NY 13045 | 607-753-3403 p | www.microbac.com



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J4J0239

JH Consulting

Suzanne & Jack Halstuch
PO Box 705
Newtonville, NY 12128

Project Name: JH24 08597 Rotterdam

Project / PO Number: JH24 08597 Rotterdam
Received: 09/26/2024
Reported: 10/28/2024

Sample Summary Report

{TQC_Sample Summary{TQC}}

<u>Sample Name</u>	<u>Laboratory ID</u>	<u>Client Matrix</u>	<u>Sample Type</u>	<u>Sample Begin</u>	<u>Sample Taken</u>	<u>Lab Received</u>
JH24 08597 Sludge	J4J0239-01	Solid	Grab		09/23/24 10:30	09/26/24 15:22



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J4J0239

Analytical Testing Parameters

Client Sample ID: JH24 08597 Sludge	Collected By: J.H- Client
Sample Matrix: Solid	Collection Date: 09/23/2024 10:30
Lab Sample ID: J4J0239-01	

Analyses Performed by: Microbac Laboratories Inc., - Marietta, OH

Sample Preparation by TCLP	Result	MDL	RL	Units	DF	Note	Prepared	Analyzed	Analyst
Method: EPA 1311									
Total Solids (TS)	100			%	1	Y	10/17/24 1523	10/18/24 0730	JG
Inorganics Total									
Method: EPA 7.3.3.2									
Reactive Cyanide	<9.84	9.84	9.84	mg/kg	1	Y1	10/14/24 0848	10/15/24 1715	APH
Method: EPA 7.3.4.2									
Reactive Sulfide	<100	100	100	mg/kg	1	Y1	10/14/24 0846	10/14/24 1357	ARF
Method: EPA 9071B									
Oil & Grease (HEM)	56900	451	902	mg/kg dry	2		10/11/24 1108	10/15/24 1629	JSH
General Parameters									
Method: ASTM D2216-10									
Percent Solids	22.9	0.500	1.00	% (by wt.)	1	Y	10/15/24 0152	10/17/24 1040	LJM
Method: EPA 1010A									
Flash Point	Did not flash.			°C	1			10/21/24 1335	JSH
Metals TCLP by AA									
Method: EPA 7470A									
Mercury	<0.00100	0.00100	0.00200	mg/L	1		10/21/24 0913	10/21/24 1430	TMM
Metals TCLP by ICP									
Method: EPA 6010C									
Arsenic	<0.200	0.100	0.200	mg/L	1		10/21/24 0601	10/21/24 1402	JDH
Barium	0.122	0.0500	0.100	mg/L	1		10/21/24 0601	10/21/24 1402	JDH
Cadmium	<0.0200	0.0100	0.0200	mg/L	1		10/21/24 0601	10/21/24 1402	JDH
Chromium	<0.0500	0.0250	0.0500	mg/L	1		10/21/24 0601	10/21/24 1402	JDH
Lead	<0.200	0.100	0.200	mg/L	1		10/21/24 0601	10/21/24 1402	JDH
Selenium	<0.350	0.175	0.350	mg/L	1		10/21/24 0601	10/22/24 1230	JDH
Silver	<0.100	0.0500	0.100	mg/L	1		10/21/24 0601	10/21/24 1402	JDH
Volatile Organic Compounds									
TCLP by GCMS									
Method: EPA 8260D									
Benzene	<0.00125	0.00125	0.0500	mg/L	10			10/23/24 1412	CCC



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Client Sample ID: JH24 08597 Sludge	Collected By: J.H- Client
Sample Matrix: Solid	Collection Date: 09/23/2024 10:30
Lab Sample ID: J4J0239-01	

Volatile Organic Compounds TCLP by GCMS	Result	MDL	RL	Units	DF	Note	Prepared	Analyzed	Analyst
2-Butanone	0.0626	0.0250	0.100	mg/L	10	J		10/23/24 1412	CCC
Carbon tetrachloride	<0.00250	0.00250	0.0500	mg/L	10			10/23/24 1412	CCC
Chlorobenzene	<0.00125	0.00125	0.0500	mg/L	10			10/23/24 1412	CCC
Chloroform	<0.00125	0.00125	0.0500	mg/L	10			10/23/24 1412	CCC
1,4-Dichlorobenzene	<0.00125	0.00125	0.0100	mg/L	10			10/23/24 1412	CCC
1,2-Dichloroethane	<0.00250	0.00250	0.0500	mg/L	10			10/23/24 1412	CCC
1,1-Dichloroethene	<0.00500	0.00500	0.0500	mg/L	10			10/23/24 1412	CCC
Tetrachloroethylene	<0.00250	0.00250	0.0500	mg/L	10			10/23/24 1412	CCC
Trichloroethene	<0.00250	0.00250	0.0500	mg/L	10			10/23/24 1412	CCC
Vinyl chloride	<0.00250	0.00250	0.100	mg/L	10			10/23/24 1412	CCC
Surrogate: 4-Bromofluorobenzene	128	Limit: 86-115	% Rec	10	S1			10/23/24 1412	CCC
Surrogate: Dibromofluoromethane	102	Limit: 86-118	% Rec	10				10/23/24 1412	CCC
Surrogate: 1,2-Dichloroethane-d4	106	Limit: 80-120	% Rec	10				10/23/24 1412	CCC
Surrogate: Toluene-d8	101	Limit: 88-110	% Rec	10				10/23/24 1412	CCC

Herbicides TCLP by GC/ECD	Result	MDL	RL	Units	DF	Note	Prepared	Analyzed	Analyst
Method: EPA 8151A									
2,4,5-TP [2C]	<0.500	0.500	2.00	ug/L	1		10/18/24 1630	10/22/24 1300	ECL
2,4-D [2C]	<5.00	5.00	20.0	ug/L	1		10/18/24 1630	10/22/24 1300	ECL
Surrogate: 2,4-Dichlorophenylacetic acid [2C]	39.6	Limit: 20-144	% Rec	1			10/18/24 1630	10/22/24 1300	ECL

Pesticides TCLP by GC/ECD	Result	MDL	RL	Units	DF	Note	Prepared	Analyzed	Analyst
Method: EPA 8081B									
alpha-Chlordane	<0.500	0.100	0.500	ug/L	1		10/21/24 0930	10/24/24 0620	ECL
Endrin	<0.500	0.100	0.500	ug/L	1		10/21/24 0930	10/24/24 0620	ECL
gamma-Chlordane	<0.500	0.100	0.500	ug/L	1		10/21/24 0930	10/24/24 0620	ECL
gamma-BHC	<0.500	0.100	0.500	ug/L	1		10/21/24 0930	10/24/24 0620	ECL
Heptachlor	<0.500	0.100	0.500	ug/L	1		10/21/24 0930	10/24/24 0620	ECL
Heptachlor epoxide	<0.500	0.100	0.500	ug/L	1		10/21/24 0930	10/24/24 0620	ECL
Methoxychlor	<0.500	0.100	0.500	ug/L	1		10/21/24 0930	10/24/24 0620	ECL
Toxaphene	<10.0	3.00	10.0	ug/L	1		10/21/24 0930	10/24/24 0620	ECL
Surrogate: Tetrachloro-m-xylene	78.8	Limit: 20-130	% Rec	1			10/21/24 0930	10/24/24 0620	ECL
Surrogate: Decachlorobiphenyl	57.0	Limit: 25-140	% Rec	1			10/21/24 0930	10/24/24 0620	ECL

Semivolatile Organic Compounds TCLP by GCMS	Result	MDL	RL	Units	DF	Note	Prepared	Analyzed	Analyst
Method: EPA 8270D									
2,4-Dinitrotoluene (2,4-DNT)	<0.0250	0.0250	0.0500	mg/L	1		10/18/24 1030	10/23/24 0017	SCB
Hexachlorobenzene	<0.0250	0.0250	0.0500	mg/L	1		10/18/24 1030	10/23/24 0017	SCB
Hexachlorobutadiene	<0.0250	0.0250	0.0500	mg/L	1	Q7	10/18/24 1030	10/23/24 0017	SCB



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Sample Matrix: Solid	Collection Date: 09/23/2024 10:30
Lab Sample ID: J4J0239-01	

Semivolatile Organic Compounds TCLP by GCMS	Result	MDL	RL	Units	DF	Note	Prepared	Analyzed	Analyst
Hexachloroethane	<0.0250	0.0250	0.0500	mg/L	1		10/18/24 1030	10/23/24 0017	SCB
2-Methylphenol (o-Cresol)	<0.0250	0.0250	0.0500	mg/L	1		10/18/24 1030	10/23/24 0017	SCB
3&4-Methylphenol	0.0570	0.0250	0.0500	mg/L	1		10/18/24 1030	10/23/24 0017	SCB
Nitrobenzene	<0.0250	0.0250	0.0500	mg/L	1		10/18/24 1030	10/23/24 0017	SCB
Pentachlorophenol	<0.125	0.125	0.250	mg/L	1	Q3, Q7	10/18/24 1030	10/23/24 0017	SCB
Pyridine	<0.125	0.125	0.250	mg/L	1		10/18/24 1030	10/23/24 0017	SCB
2,4,6-Trichlorophenol	<0.0250	0.0250	0.0500	mg/L	1	Q7	10/18/24 1030	10/23/24 0017	SCB
2,4,5-Trichlorophenol	<0.0250	0.0250	0.0500	mg/L	1	Q2, Q7	10/18/24 1030	10/23/24 0017	SCB
Surrogate: 2-Fluorobiphenyl	51.8		Limit: 43-116	% Rec	1		10/18/24 1030	10/23/24 0017	SCB
Surrogate: 2-Fluorophenol	26.2		Limit: 19-119	% Rec	1		10/18/24 1030	10/23/24 0017	SCB
Surrogate: Nitrobenzene-d5	50.8		Limit: 35-114	% Rec	1		10/18/24 1030	10/23/24 0017	SCB
Surrogate: Phenol-d5	19.2		Limit: 10-120	% Rec	1		10/18/24 1030	10/23/24 0017	SCB
Surrogate: p-Terphenyl-d14	90.0		Limit: 10-130	% Rec	1		10/18/24 1030	10/23/24 0017	SCB
Surrogate: 2,4,6-Tribromophenol	88.8		Limit: 22-142	% Rec	1		10/18/24 1030	10/23/24 0017	SCB

Definitions

- %:** Percent
- % (by wt.):** Percent by Weight
- °C:** Degrees Celsius
- J:** Estimated value. The analyte concentration is less than the reporting/quantitation limit.
- MDL:** Minimum Detection Limit
- mg/kg:** Milligrams per Kilogram
- mg/L:** Milligrams per Liter
- Q2:** LCS recovery is above acceptance limits.
- Q3:** LCS recovery is below acceptance limits. The reported value is estimated.
- Q7:** CCV recovery is above acceptance limits.
- RL:** Reporting Limit
- S1:** Surrogate recovery is above acceptance limits.
- ug/L:** Micrograms per Liter
- ug/mL:** Micrograms per Milliliter
- Y:** This analyte is not on the laboratory's current scope of accreditation.
- Y1:** Accreditation is not offered by the accrediting body for this analyte.

Cooler Receipt Log

Cooler ID: Default Cooler **Temp:** 6.2°C



Microbac Laboratories, Inc., New York Division

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J4J0239

Cooler Inspection Checklist

Ice Present or not required?	Yes	Shipping containers sealed or not required?	Yes
Custody seals intact or not required?	Yes	Chain of Custody (COC) Present?	Yes
COC includes customer information?	Yes	Relinquished and received signature on COC?	Yes
Sample collector identified on COC?	Yes	Sample type identified on COC?	Yes
Correct type of Containers Received	Yes	Correct number of containers listed on COC?	Yes
Containers Intact?	Yes	COC includes requested analyses?	Yes
Enough sample volume for indicated tests received?	Yes	Sample labels match COC (Name, Date & Time?)	Yes
Samples arrived within hold time?	Yes	Correct preservatives on COC or not required?	Yes
Chemical preservations checked or not required?	Yes	Preservation checks meet method requirements?	Yes
VOA vials have zero headspace, or not recd.?	Yes		

Project Requested Certification(s)

Microbac Laboratories Inc., - Marietta, OH 10861	NY State Department of Health
Microbac Laboratories, Inc., New York Division NY Lab ID No.: 10795	New York State Department of Health

Report Comments

Samples were received in proper condition and the reported results conform to applicable accreditation standard unless otherwise noted.

The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included. The services were provided under and subject to Microbac's standard terms and conditions which can be located and reviewed at <https://www.microbac.com/standard-terms-conditions>.

Reviewed and Approved By:

Shannon Weeks

Shannon Weeks
Customer Relationship Coordinator
Reported: 10/28/2024 14:19



EXHIBIT B

COMPLETED BMP CHECKLIST FOR MEDICAL FACILITIES – SHAWN
ALLEN DDS

