

**New Jersey Department of Environmental Protection
Reason for Application**

Permit Being Modified

Permit Class: BOP **Number:** 190001

**Description
of Modifications:**

This application is for a modification to emission unit U54 for the following items:

1. Addition of Operating Scenario OS47 to show the odorous air from "new sludge storage tank" (E64) being treated by "wet scrubber #1" (CD11), with "wet scrubber #2" (CD12) as backup.
2. Addition of Operating Scenario OS48 to show the odorous air from "new sludge storage tank" (E64) being treated by "wet scrubber #2" (CD12), with "wet scrubber #1" (CD11) as backup.

Reason for Application: During a permit review PVSC noticed there are only two (2) Operating Scenarios for treating odorous air from the "new sludge storage tank" (Equipment ID E64). The Operating Scenarios, OS45 and OS46, describe odorous air from E64 being treated by Control Devices CD13 and CD14 (Odor Control Scrubbers #1 and #2, respectively). PVSC would like the operational flexibility to use Control Devices CD11 and CD12 (Wet Scrubbers #1 and #2, respectively) to treat the odorous air from E64.

**New Jersey Department of Environmental Protection
Facility Profile (General)**

Facility Name (AIMS): Passaic Valley Sewerage Commission

Facility ID (AIMS): 07349

Street PASSAIC VALLEY SEWERAGE COMMISSION
Address: 600 WILSON AVE
NEWARK, NJ 07105

Mailing PASSAIC VALLEY SEWERAGE COMMISSION
Address: 600 WILSON AVE
NEWARK, NJ 07105

County: Essex
Location Wastewater treatment for Essex County area,
Description: NJ

State Plane Coordinates:	
X-Coordinate:	596,552
Y-Coordinate:	684,568
Units:	Feet
Datum:	NAD83
Source Org.:	xAddress Match
Source Type:	Digital Image

Industry:	
Primary SIC:	4952
Secondary SIC:	
NAICS:	221320

**New Jersey Department of Environmental Protection
Facility Profile (General)**

Contact Type: Air Permit Information Contact**Organization:** Passaic Valley Sewerage Commission**Org. Type:** Auth/Dist/Comm**Name:** Marques Eley**NJ EIN:** 00226002471**Title:** Senior Engineer**Phone:** (973) 466-2969 x**Mailing Address:** Passaic Valley Sewerage Commission**Fax:** (973) 817-5709 x600 Wilson Avenue
Newark, NJ 07105**Other:** () - x**Type:****Email:** meley@pvsc.com

Contact Type: BOP - Operating Permits**Organization:** Passaic Valley Sewerage Commission**Org. Type:** Auth/Dist/Comm**Name:** Marques Eley**NJ EIN:** 00226002471**Title:** Senior Engineer**Phone:** (973) 466-2969 x**Mailing Address:** Passaic Valley Sewerage Commission**Fax:** (973) 817-5709 x600 Wilson Avenue
Newark, NJ 07105**Other:** () - x**Type:****Email:** meley@pvsc.com

Contact Type: Compliance Officer**Organization:** Passaic Valley Sewerage Commission**Org. Type:** Auth/Dist/Comm**Name:** Patricia Lopes**NJ EIN:** 00226002471**Title:** Dir of Process Control Regulatory Compli**Phone:** (973) 817-5983 x**Mailing Address:** Passaic Valley Sewerage Commission**Fax:** (973) 817-5709 x600 Wilson Avenue
Newark, NJ 07105**Other:** () - x**Type:****Email:** plopes@pvsc.com

**New Jersey Department of Environmental Protection
Facility Profile (General)**

Contact Type: Consultant**Organization:** CDM Smith Inc.**Name:** Disha Shah**Title:** Environmental Engineer**Phone:** (860) 808-2257 x**Fax:** (860) 290-7845 x**Other:** () - x**Type:****Email:** shahdc@cdmsmith.com**Org. Type:** Corporation**NJ EIN:****Mailing Address:** CDM Smith
77 Hartland Street
Suite 201
East Hartford, CT 06108

Contact Type: Emission Statements**Organization:** Passaic Valley Sewerage Commission**Name:** Marques Eley**Title:** Senior Engineer**Phone:** (973) 466-2969 x**Fax:** (973) 817-5709 x**Other:** () - x**Type:****Email:** meley@pvsc.com**Org. Type:** Auth/Dist/Comm**NJ EIN:** 00226002471**Mailing Address:** Passaic Valley Sewerage Commission
600 Wilson Avenue
Newark, NJ 07105

Contact Type: Environmental Officer**Organization:** Passaic Valley Sewerage Commission**Name:** Patricia Lopes**Title:** Dir of Process Control Regulatory Compli**Phone:** (973) 817-5983 x**Fax:** (973) 817-5709 x**Other:** () - x**Type:****Email:** plopes@pvsc.com**Org. Type:** Auth/Dist/Comm**NJ EIN:** 00226002471**Mailing Address:** Passaic Valley Sewerage Commission
600 Wilson Avenue
Newark, NJ 07105

**New Jersey Department of Environmental Protection
Facility Profile (General)**

Contact Type: Fees/Billing Contact**Organization:** Passaic Valley Sewerage Commission**Name:** Prince Wilson**Title:** Chief Financial Officer**Phone:** (973) 817-5726 x**Fax:** (973) 344-4392 x**Other:** () - x**Type:****Email:** pwilson@pvsc.com**Org. Type:** Auth/Dist/Comm**NJ EIN:** 00226002471**Mailing Address:** Passaic Valley Sewerage Commission
600 Wilson Avenue
Newark, NJ 07105

Contact Type: General Contact**Organization:** Passaic Valley Sewerage Commission**Name:** Patricia Lopes**Title:** Dir of Process Control Regulatory Compli**Phone:** (973) 817-5983 x**Fax:** (973) 817-5709 x**Other:** () - x**Type:****Email:** plopes@pvsc.com**Org. Type:** Auth/Dist/Comm**NJ EIN:** 00226002471**Mailing Address:** Passaic Valley Sewerage Commission
600 Wilson Avenue
Newark, NJ 07105

Contact Type: Legal Counsel**Organization:** Passaic Valley Sewerage Commission**Name:** Michael Witt**Title:** General Counsel**Phone:** (973) 817-5944 x**Fax:** (973) 344-7454 x**Other:** () - x**Type:****Email:** mwitt@pvsc.com**Org. Type:** Auth/Dist/Comm**NJ EIN:** 00226002471**Mailing Address:** Passaic Valley Sewerage Commission
600 Wilson Ave.
Newark, NJ 07105

**New Jersey Department of Environmental Protection
Facility Profile (General)**

Contact Type: NOx RACT Annual Adjust. Report Contact**Organization:** Passaic Valley Sewerage Commission**Org. Type:** Auth/Dist/Comm**Name:** Marques Eley**NJ EIN:** 00226002471**Title:** Senior Engineer**Phone:** (973) 466-2969 x**Mailing Address:** Passaic Valley Sewerage Commission
600 Wilson Avenue
Newark, NJ 07105**Fax:** (973) 817-5709 x**Other:** () - x**Type:****Email:** meley@pvsc.com

Contact Type: On-Site Manager**Organization:** Passaic Valley Sewerage Commission**Org. Type:** Auth/Dist/Comm**Name:** Patricia Lopes**NJ EIN:** 00226002471**Title:** Dir of Process Control Regulatory Compli**Phone:** (973) 817-5983 x**Mailing Address:** Passaic Valley Sewerage Commission
600 Wilson Avenue
Newark, NJ 07105**Fax:** (973) 817-5709 x**Other:** () - x**Type:****Email:** plopes@pvsc.com

Contact Type: Operator**Organization:** Passaic Valley Sewerage Commission**Org. Type:** Auth/Dist/Comm**Name:** Craig Spencer**NJ EIN:** 00226002471**Title:** Plant Superintendent**Phone:** (973) 466-2932 x**Mailing Address:** Passaic Valley Sewerage Commission
600 Wilson Avenue
Newark, NJ 07105**Fax:** (973) 817-5709 x**Other:** () - x**Type:****Email:** cspencer@pvsc.com

**New Jersey Department of Environmental Protection
Facility Profile (General)**

Contact Type: Owner (Current Primary)**Organization:** Passaic Valley Sewerage Commission**Org. Type:** Auth/Dist/Comm**Name:** Passaic Valley Sewerage Commission**NJ EIN:** 00226002471**Title:** Owner**Phone:** (973) 466-2915 x**Mailing Address:** Passaic Valley Sewerage Commission
600 Wilson Ave.
Newark, NJ 07105**Fax:** (973) 817-5738 x**Other:** () - x**Type:****Email:** gtramontozzi@pvsc.com

Contact Type: Regulation Officer**Organization:** Passaic Valley Sewerage Commission**Org. Type:** Auth/Dist/Comm**Name:** Patricia Lopes**NJ EIN:** 00226002471**Title:** Dir of Process Control Regulatory Compli**Phone:** (973) 817-5983 x**Mailing Address:** Passaic Valley Sewerage Commission
600 Wilson Avenue
Newark, NJ 07105**Fax:** (973) 817-5709 x**Other:** () - x**Type:****Email:** plopes@pvsc.com

Contact Type: Responsible Official**Organization:** Passaic Valley Sewerage Commission**Org. Type:** Auth/Dist/Comm**Name:** Thomas Laustsen**NJ EIN:** 00226002471**Title:** Chief Operating Officer**Phone:** (973) 817-5980 x**Mailing Address:** Passaic Valley Sewerage Commission
600 Wilson Avenue
Newark, NJ 07105**Fax:** (973) 817-5709 x**Other:** (973) 817-5991 x**Type:** Other Line**Email:** tlaustsen@pvsc.com

**New Jersey Department of Environmental Protection
Facility Profile (General)**

Contact Type: Responsible Party**Organization:** Passaic Valley Sewerage Commission**Org. Type:** Auth/Dist/Comm**Name:** Thomas Laustsen**NJ EIN:** 00226002471**Title:** Chief Operating Officer**Phone:** (973) 817-5980 x**Mailing Address:** Passaic Valley Sewerage Commission
600 Wilson Avenue
Newark, NJ 07105**Fax:** (973) 817-5709 x**Other:** (973) 817-5991 x**Type:** Other Line**Email:** tlaustsen@pvsc.com

Contact Type: Security Contact**Organization:** Passaic Valley Sewerage Commission**Org. Type:** Auth/Dist/Comm**Name:** Christopher O'Shea**NJ EIN:** 00226002471**Title:** Dir of Security and Safety**Phone:** (973) 817-5861 x**Mailing Address:** Passaic Valley Sewerage Commission
600 Wilson Avenue
Newark, NJ 07105**Fax:** () - x**Other:** () - x**Type:****Email:** coshea@pvsc.com

Contact Type: Title V Compliance Certification Contact**Organization:** Passaic Valley Sewerage Commission**Org. Type:** Auth/Dist/Comm**Name:** Marques Eley**NJ EIN:** 00226002471**Title:** Senior Engineer**Phone:** (973) 466-2969 x**Mailing Address:** Passaic Valley Sewerage Commission
600 Wilson Avenue
Newark, NJ 07105**Fax:** (973) 817-5709 x**Other:** () - x**Type:****Email:** meley@pvsc.com

**New Jersey Department of Environmental Protection
Facility Profile (Permitting)**

- | | |
|---|-----|
| 1. Is this facility classified as a small business by the USEPA? | No |
| 2. Is this facility subject to N.J.A.C. 7:27-22? | Yes |
| 3. Are you voluntarily subjecting this facility to the requirements of Subchapter 22? | No |
| 4. Has a copy of this application been sent to the USEPA? | No |
| 5. If not, has the EPA waived the requirement? | No |
| 6. Are you claiming any portion of this application to be confidential? | No |
| 7. Is the facility an existing major facility? | Yes |
| 8. Have you submitted a netting analysis? | No |
| 9. Are emissions of any pollutant above the SOTA threshold? | No |
| 10. Have you submitted a SOTA analysis? | No |
| 11. If you answered "Yes" to Question 9 and "No" to Question 10, explain why a SOTA analysis was not required | |
| | |
| 12. Have you provided, or are you planning to provide air contaminant modeling? | No |

**New Jersey Department of Environmental Protection
Equipment Inventory**

Equip. NJID	Facility's Designation	Equipment Description	Equipment Type	Certificate Number	Install Date	Grand- Fathered	Last Mod. (Since 1968)	Equip. Set ID
E64	SludgeTank	Sludge Storage Tank	Other Equipment					
E79	TC-1	Thickening Centrifuge #1	Other Equipment	PCP020001	8/1/2001	No		
E80	TC-2	Thickening Centrifuge #2	Other Equipment	PCP020001	8/1/2001	No		
E81	TC-3	Thickening Centrifuge #3	Other Equipment	PCP020001	8/1/2001	No		
E82	TC-4	Thickening Centrifuge #4	Other Equipment	PCP020001	8/1/2001	No		
E83	TC-5	Thickening Centrifuge #5	Other Equipment	PCP020001	8/1/2001	No		
E84	TSW-1	Thickener Sludge Wetwell #1	Other Equipment					
E85	TSW-2	Thickener Sludge Wetwell #2	Other Equipment					
E86	TSW-3	Thickener Sludge Wetwell #3	Other Equipment					
E87	TSW-4	Thickener Sludge Wetwell #4	Other Equipment					
E88	TSW-5	Thickener Sludge Wetwell #5	Other Equipment					
E89	TSW-6	Thickener Sludge Wetwell #6	Other Equipment					

**New Jersey Department of Environmental Protection
Control Device Inventory**

CD NJID	Facility's Designation	Description	CD Type	Install Date	Grand-Fathered	Last Mod. (Since 1968)	CD Set ID
CD11	NJS 045	Packed Tower Scrubber	Scrubber (Packed Tower)		No		
CD12	NJS 045	Packed Tower Scrubber	Scrubber (Packed Tower)		No		
CD13		Odor Control Scubber	Scrubber (Multi-Stage)		No		
CD14		Odor Control Scubber	Scrubber (Multi-Stage)		No		
CD15		Bioscrubber	Biofilter		No		

**New Jersey Department of Environmental Protection
Emission Points Inventory**

PT NJID	Facility's Designation	Description	Config.	Equiv. Diam. (in.)	Height (ft.)	Dist. to Prop. Line (ft)	Exhaust Temp. (deg. F)			Exhaust Vol. (acfm)			Discharge Direction	PT Set ID
							Avg.	Min.	Max.	Avg.	Min.	Max.		
PT62	NJS045	Scrubber Stack - 1	Round	24	78	200	60.0	50.0	70.0	5,200.0	3,300.0	6,050.0	Up	
PT63	NJS046	Scrubber Stack - 2	Round	24	78	200	60.0	50.0	70.0	5,200.0	3,300.0	6,050.0	Up	
PT64		Odor Control Scrubber	Round	36	56	375	63.0	20.0	106.0	14,100.0	11,500.0	16,200.0	Up	
PT65		Odor Control Scrubber	Round	36	56	375	63.0	20.0	106.0	14,100.0	11,500.0	16,200.0	Up	

**New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory**

U 54

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS47	SludgeTank	Sludge Storage Tank - Wet Scrubber #1 online, Wet Scrubber #2 for backup	Normal - Steady State	E64	CD11 (P)	PT62	3-12-999-99 5-01-007-01	0.0	8,760.0		3,300.0	6,050.0	50.0	70.0
OS48	SludgeTank	Sludge Storage Tank - Wet Scrubber #2 online, Wet Scrubber #1 for backup	Normal - Steady State	E64	CD12 (P)	PT63	3-12-999-99 5-01-007-01	0.0	8,760.0		3,300.0	6,050.0	50.0	70.0

07349 Passaic Valley Sewerage Commission BOP000000 U54 OS47 (Other Equipment)
Print Date: 12/8/2023

Volume of Gas Discharged
from this Source (acfm):

6,050.00

Liquid Recirculation Method:	<div>Recirculated</div>
Liquid Being Used for Absorption:	
Chemical Additive in Scrubbing Medium:	
Minimum Concentration of Chemical Additive (%):	
Maximum Concentration of Chemical Additive (%):	
How is the activity of the Scrubbing Medium Maintained?	
Maximum pH:	
Minimum pH:	
Maximum Oxidation Reduction Potential (mV):	
Minimum Oxidation Reduction Potential (mV):	

07349 Passaic Valley Sewerage Commission BOP000000 U54 OS47 (Efficiency Table - CD11)
Print Date: 12/8/2023

Pollutant Category	Capture Efficiency (%)	Removal Efficiency (%)	Overall Efficiency (%)
CO			
HAP (Total)			
NOx			
Other (Total)			
Pb			
PM-10			
PM-2.5			
SO2			
TSP			
VOC (Total)			

07349 Passaic Valley Sewerage Commission BOP000000 U54 OS48 (Other Equipment)
Print Date: 12/8/2023

Volume of Gas Discharged
from this Source (acfm):

6,050.00

07349 Passaic Valley Sewerage Commission BOP000000 U54 OS48 (Efficiency Table - CD12)
Print Date: 12/8/2023

Pollutant Category		Capture Efficiency (%)	Removal Efficiency (%)	Overall Efficiency (%)
CO	▼			
HAP (Total)	▼			
NOx	▼			
Other (Total)	▼			
Pb	▼			
PM-10	▼			
PM-2.5	▼			
SO2	▼			
TSP	▼			
VOC (Total)	▼			

Liquid Recirculation Method:	<div>Recirculated</div>
Liquid Being Used for Absorption:	
Chemical Additive in Scrubbing Medium:	
Minimum Concentration of Chemical Additive (%):	
Maximum Concentration of Chemical Additive (%):	
How is the activity of the Scrubbing Medium Maintained?	
Maximum pH:	
Minimum pH:	
Maximum Oxidation Reduction Potential (mV):	
Minimum Oxidation Reduction Potential (mV):	

BOP190001

**New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory**

U 54 Centruge 1-5 Sludge Thickening Centrifuges #1 through #5, Thickener Sludge Wetwells #1 thru #6 , new sludge storage tank (CD11, CD12, CD13, CD14, and CD15)

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS46	Sludg StorT2	Sludge Storage Tank - Odor Control Scrubber #2 On-Line; Odor Scrubber #1 for Backup	Normal - Steady State	E64	CD14 (P)	PT64	5-01-007-01	0.0	8,760.0		11,500.0	16,200.0	20.0	106.0

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS47	Sludg StorT2	Sludge Storage Tank - Wet Scrubber #1 On- Line; Wet Scrubber #2 for Backup	Normal - Steady State	E64	CD11 (P)	PT62	3-12-999-99 5-01-007-01	0.0	8,760.0		3,300.0	6,050.0	50.0	70.0

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS48	Sludg StorT2	Sludge Storage Tank - Wet Scrubber #2 On- Line; Wet Scrubber #1 for Backup	Normal - Steady State	E64	CD12 (P)	PT63	3-12-999-99 5-01-007-01	0.0	8,760.0		3,300.0	6,050.0	50.0	70.0

CERTIFICATION

Facility ID: 07349
Facility Name: Passaic Valley Sewerage Commission

Responsible Official:

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attached documents and, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate and complete. I am aware that there are significant civil and criminal penalties, including the possibility of fine or imprisonment or both, for submitting false, inaccurate or incomplete information.

Name: Tom Laustsen Signature: *TL* Date: 12 18 2023

Individuals with Direct Knowledge:

I certify under penalty of law that I believe the information provided in this document is true, accurate and complete. I am aware that there are significant civil and criminal penalties, including the possibility of fine or imprisonment or both, for submitting false, inaccurate or incomplete information.

Name: Marques Eley Signature: *Marques Eley* Date: 12 18 2023

Section Being Certified: _____

Name: _____ Signature: _____ Date: / /

Section Being Certified: _____

Name: _____ Signature: _____ Date: / /

Section Being Certified: _____

Name: _____ Signature: _____ Date: / /

Section Being Certified: _____