# 2021-2023 PERIODIC REVIEW REPORT

Rockland Psychiatric Center Former Laundry Facility Orangeburg, Rockland County, New York

NYSDEC Site Number: 344011 DASNY Project Number: 3043009999

CHA Project Number: 080126.000

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Prepared for: Dormitory Authority of the State of New York 505 Broadway Albany, New York 12207

New York State Office of Mental Health

Administrative Support Services Group Capital Operations, CDPD Unit R 75 New Scotland Avenue Albany, New York 12208

> Prepared by: CHA Consulting, Inc. III Winners Circle Albany, New York 12205 Phone: (518) 453-4500

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## TABLE OF CONTENTS

1.0	SITE C	OVERVIEW	.1
	1.1	Site Location	.1
	1.3	Summary of Site Remedy	.2
2.0	INSTIT	UTIONAL AND ENGINEERING CONTROLS COMPLIANCE REPORT	.3
	2.1	Institutional Controls	.4 1
	2.2	IC/EC Certification	.4 .5
3.0	ΜΟΝΙΤ		5
0.0	3.1	Monitoring Methods	.6
		3.1.1 Sump Sampling Methods	.6
		3.1.2 Groundwater Monitoring Methods	.6
	3.2	Monitoring Results	.7
		3.2.1 Sump and Sluiceway Results	.7
		3.2.2 Groundwater Results	.8
	3.3	Soil Vapor Evaluation	.9
4.0	OPER/	ATIONS & MAINTENANCE PLAN COMPLIANCE	.9
	4.1	Components of the O&M Plan	.9
	4.2	Summary of O&M Completed	.9
	4.3	Evaluation of Remedial Systems	.9
5.0	CONC	LUSIONS & RECOMMENDATIONS	0
	5.1	Recommendations	0

## LIST OF TABLES

Table 1	Summary of Sump Results
Table 2	Summary of Sluiceway Results
Table 3	Summary of Groundwater Monitoring Results
Table 4	Summary of Emerging Contaminants Results
	, , ,

## LIST OF FIGURES

- Figure 1 Site Location Map
- Figure 2 2021 and 2023 Detections Summary Map
- Figure 3 Emerging Contaminants Detections Summary Map
- Figure 4 Shallow Groundwater Contour Map

## LIST OF APPENDICES

Appendix AInspection FormsAppendix BThe Institutional and Engineering Controls Certification FormsAppendix CSump Pump Totalizer Logs



## LIST OF ACRONYMS & ABBREVIATIONS

ASP	Analytical Services Protocol
AWQS	Ambient Water Quality Standard
CHA	CHA Consulting, Inc.
COC	Contaminant of Concern
DASNY	Dormitory Authority of the State of New York
DCE	Dichloroethene
DUSR	Data Usability Summary Report
EC	Engineering Control
ELAP	Environmental Laboratory Approval Program
EPA	Environmental Protection Agency
FS	Feasibility Study
HDPE	High Density Polyethylene
IC	Institutional Control
IRM	Interim Remedial Measure
MS	Matrix Spike
MSD	Matrix Spike Duplicate
MTBE	Methyl Tert-Butyl Ether
MW	Monitoring Well
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
NYSOMH	New York State Office of Mental Health
PCE	Tetrachloroethene
PFAS	Per- and Polyfluoroalkyl Substances
PFOA	Perfluorooctanoic Acid
PFOS	Perfluorooctanesulfonic Acid
POTW	Publicly Owned Treatment Works
PRR	Periodic Review Report
PVC	Polyvinyl Chloride
RI	Remedial Investigation
ROD	Record of Decision
RPC	Rockland Psychiatric Center
SMP	Site Management Plan
TCA	Trichloroethane
TCE	Trichloroethene
TOGS	Technical & Operational Guidance Series
VOC	Volatile Organic Compound
gpm	Gallons per Minute
ng/L	Nanograms per Liter, or parts per trillion

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Micrograms per Liter, or parts per billion

µg/L

## 1.0 SITE OVERVIEW

The Rockland Psychiatric Center (hereinafter referred to as the "Site" or RPC) was remediated in accordance with the New York State Department of Environmental Conservation (NYSDEC) Order on Consent (W3-092-04-01) for Site Number 344011, which was executed in March 1998, and the Record of Decision (ROD) dated January 19, 2007. The New York State Office of Mental Health (NYSOMH) and Dormitory Authority of New York State (DASNY) monitor the Site in accordance with the NYSDEC-approved Site Management Plan (SMP), prepared by URS Corporation (URS) in 2010 and updates approved by the NYSDEC. This Periodic Review Report (PRR), which is a required element of the SMP, has been developed to evaluate the overall effectiveness of the selected remedy to determine if the remedy is properly managed and protective of human health and the environment.

The Site owners provide a periodic certification of institutional and engineering controls, prepared, and submitted by a professional engineer or other expert acceptable to the Department until the Department notifies the property owner in writing that this certification is no longer needed. This submittal will:

- (a) contain a certification that the institutional controls and engineering controls put in place are still in place and are either unchanged from the previous certification or are compliant with Department-approved modification;
- (b) allow the Department access to the Site; and,
- (c) state that nothing has occurred that will impair the ability of the control to protect public health or the environment or constitute a violation or failure to comply with the SMP unless otherwise approved by the Department.

URS conducted the monitoring in calendar years 2021 and 2022 while CHA Consulting, Inc. (CHA) was retained to conduct the monitoring in calendar year 2023. This PRR documents groundwater monitoring and Site-wide inspections completed during the period from January 1, 2021, through December 31, 2023.

## 1.1 Site Location

The RPC Former Laundry Facility, Site Number 344011, is located at 140 Old Orangeburg Road, in the Town of Orangetown, Rockland County, New York. The Site consists of a 20.15-acre portion of the RPC Campus which is a 600-acre multi-service mental health facility. The Site is bounded by the Lake Tappan Reservoir to the west, and commercial facilities to the north, east, and south. Residential properties are present beyond the adjoining RPC Property. Figure 1 identifies the Site location and general vicinity.



## 1.2 Site Investigation History

The following Site background information was obtained from the SMP. Construction of the RPC Campus began in 1927 and operations began in 1931. The RPC Campus maintained an on-site power plant, water supply, sewage treatment facility, laundry services, and patient-operated furniture manufacturing facility and vegetable farm. The impacts to the Site were likely from a laundry facility housed in Building 47. Dry-cleaning operations were one component of the laundry facility until the late 1960s or early 1970s. Reportedly, liquids from the laundry and dry-cleaning operations were discharged to floor drains connected to the on-site sewage treatment facility. Tetrachloroethene, often referred to as perchloroethylene (PCE), was a common dry-cleaning chemical and reportedly discharged to the on-site soils, surface water, and on-site sewer system. The on-site sewage treatment plant utilized aeration beds to the northwest of the treatment plant and is likely the source of PCE contamination to the groundwater at the Site. Remedial investigations performed between 1998 and 2002 found a "source area" of the PCE contamination and its breakdown components were present both in the area of the Sewer Pump House and downgradient toward the Lake Tappan reservoir. In the mid-1970s, the treatment plant was closed, and sewage from the RPC Campus was rerouted to the Town of Orangetown's publicly owned treatment works (POTW).

After the sewage treatment plant closed, a 15-foot-deep recovery well was installed on the south side of the treatment plant. A manually activated submersible pump was utilized to pump groundwater to a nearby stream that discharged to the Lake Tappan Reservoir. In March 1998, a fish kill and the discovery of fish with lesions prompted a surface and subsurface investigation of the RPC Campus and an evaluation of the historical operations at RPC.

An Interim Remedial Measure (IRM) was implemented to reconstruct the recovery well with 25inch diameter high-density polyethylene piping and a float-activated pump and redirect the discharged groundwater to the Town of Orangetown POTW under an industrial wastewater discharge permit.

A Remedial Investigation and Feasibility Study (RI/FS) was conducted in 2005 and 2006 to delineate the contamination plume. Details on this investigation can be found in the Final RIFS Report (AECOM, June 2006). Samples included surface water/sediment, subsurface soil, shallow/deep groundwater, and soil vapor/indoor air which showed that there was no residual soil or sediment contamination. Groundwater contamination was found, with the following contaminants: tetrachloroethene (PCE), trichloroethene (TCE), 1,1,1-trichloroethane (TCA), 1,1-dichloroethene (1,1–DCE), cis-1,2-dichloroethene (cis-1,2-DCE), trans-1,2-dichloroethene (trans-1,2-DCE), and vinyl chloride. Soil vapor intrusion sampling identified low levels beneath Building 68.



On January 19, 2007, the NYSDEC issued a Record of Decision (ROD) which details the selected remedy for the Site. The subsequent remedial investigation and feasibility study indicated the Site no longer poses a significant threat to human health or the environment; therefore the proposed remedy included No Further Action with continued operation of the groundwater extraction system pursuant to the SMP.

## 1.3 Summary of Site Remedy

The major elements of the Site remedy include the groundwater recovery well that collects groundwater into the sump, on-site concrete holding tanks that are part of the former on-site sewage treatment plant to temporarily store the collected water, and pumps that transfer the water from the holding tanks to the Town of Orangetown POTW. An environmental easement (further described in Section 2.1) was placed on the site which includes:

- Limiting the use and development of the property to restricted residential use, which would not preclude commercial or industrial uses;
- Prohibiting the use of groundwater and surface water as a source of potable or process water, without necessary water quality treatment as determined by the New York State Department of Health (NYSDOH);
- Implementation of the SMP including a groundwater monitoring program that specifies which wells are sampled and what analytes the samples are analyzed for;
- During any building development or where a change in use is considered for an existing building on Site, the potential for vapor intrusion must be considered. Mitigation of any impacts identified must be completed; and,
- The property owners must complete and submit to the Department a periodic certification of institutional and engineering controls by a professional engineer every three years. The NYSDEC must have access to the site.

The purpose of the remedial goals stated in the ROD is to eliminate the exposures of volatile organic compounds (VOCs) in soil and groundwater to people and vegetation at the Site and to limit VOC intrusion from soil vapor into the indoor air of Building 68. The remedial work must continue until these goals have been accomplished or are considered not achievable by the NYSDEC. The site cleanup for all of the contaminants of concern (COCs) is 5 micrograms per liter ( $\mu$ g/L) and 2  $\mu$ g/L for the contaminant vinyl chloride.

## 2.0 INSTITUTIONAL AND ENGINEERING CONTROLS COMPLIANCE REPORT

Since remaining contaminated groundwater exists beneath the Site, Institutional Controls and Engineering Controls (IC/ECs) are required to protect human health and the environment. A detailed Institutional and Engineering Control Plan is found in the SMP.

The SMP requires a minimum of one annual inspection to be conducted during each reporting period. A Site inspection was conducted on December 21, 2021 and March 27, 2023, to ascertain the condition of Site ECs and determine if ICs were being adhered to. The inspection forms are included in Appendix A.

The Site wide inspections indicated the following results:

- No additional buildings or change of use of existing buildings is planned.
- No significant cracks or slab penetrations in the foundation slab of Building 68 were observed.
- No development occurred that is outside the deed restrictions or inconsistent with the SMP on the previously purchased 16.42 acres of the Site from NYSOMH.
- The Site O&M Plan was found to have been followed.

The proposed remedy for the Site requires continued operation of the groundwater extraction system to remove contaminants from the groundwater. This plan has been effective by limiting and removing the concentrations of COCs in the groundwater.

## 2.1 Institutional Controls

A series of ICs are required by the ROD and are implemented through an environmental easement that specifies the restrictions on groundwater and land use, the SMP, and the monitoring plan. The ICs include:

- (a) Continuing operation and maintenance of the existing groundwater extraction system, which discharges to the Orangetown POTW;
- (b) Limiting the use and development of the property to restricted residential use, which would not preclude commercial or industrial uses;
- (c) Prohibiting the use of groundwater and surface water as a source of potable or process water, without necessary water quality treatment as determined by NYSDOH;
- (d) Implementation of an SMP, O&M, and a monitoring plan including a site-wide inspection, groundwater sampling, and an inspection of the foundation of Building 68; and,
- (e) Evaluating the potential for vapor intrusion for any building developed or where a change in use is contemplated for the existing building on the Site, including provision for mitigation of any impacts identified.

ICs that are specified in the Environmental Easement may not be discontinued without an amendment to or extinguishment of the Environmental Easement.

## 2.2 Engineering Controls

The NYSDEC has defined an EC as "any physical barrier or method employed to actively or passively contain, stabilize, or monitor contamination, restrict the movement of contamination to



ensure the long-term effectiveness of a remedial program or eliminate potential exposure pathways to contamination. The engineering control at the Site includes the groundwater treatment system consisting of the dewatering sump that transmits extracted groundwater to the Town of Orangetown POTW.

## 2.3 IC/EC Certification

The Institutional and Engineering Controls Certification Forms are included in Appendix B. The engineering control at the Site includes the groundwater treatment system consisting of the dewatering sump that transmits extracted groundwater to the Town of Orangetown POTW.

The institutional controls have been and continue to be effective in preventing exposure of the public to remaining contaminants in groundwater at the Site. The groundwater extraction system has been operating and maintained during this reporting period. The property is utilized and developed as restricted residential use and there has been no change in the use of ground or surface water. No additional buildings or change of use of existing buildings was observed. There were no significant cracks or slab penetrations in the foundation slab of Building 68 observed. The SMP, O&M, and monitoring program are being implemented, and based on this review, the remedy continues to be protective of public health and/or the environment and compliant with the ROD.

At this time, it is recommended that all controls for the Site remain in place.

## 3.0 MONITORING PLAN COMPLIANCE

Until September 2014, the monitoring program consisted of annual sampling and inspection of five groundwater monitoring wells, dewatering sump, and the sluiceway, along with an evaluation of the Sewer Pump House with respect to vapor intrusion potential. In 2014, a request to modify the sampling frequency to once every five quarters was approved by the NYSDEC. The monitoring program was implemented in Q4 2021 and Q1 2023 during the reporting period included in this PRR. The next sampling event is proposed for Q2 2024 and the results of that event will be summarized in a groundwater monitoring certification report and included in the next PRR, due in 2027.

In a letter dated April 8, 2021, the NYSDEC requested sampling of emerging contaminants, including 1,4-dioxane and per- and polyfluoroalkyl substances (PFAS), at a select number of existing monitoring wells. On October 21, 2021, URS responded to the NYSDEC with a letter with an Emerging Contaminant Work Plan proposing to sample one upgradient monitoring well (MW-2S) and three downgradient monitoring wells (MW-1S, MW-1D, and MWSB-8R).



## 3.1 Monitoring Methods

## 3.1.1 Sump Sampling Methods

The purpose of monitoring groundwater from the recovery well and the wastewater sluiceway is to provide additional data to demonstrate the wastewater discharges do not exceed the Town of Orangetown POTW specified discharge limit. Sampling of the recovery well and wastewater sluiceway is part of the long-term monitoring required by the ROD and not a requirement of the discharge permit issued by the Town of Orangetown.

In the Q4 2021 sampling event performed by URS, the recovery well (SUMP) sample and the sluiceway (SLUICEWAY) sample were collected with a dedicated polyethylene bailer. Samples were collected for analysis of VOCs via EPA Method 8260. Following the Q4 2021 sample collection, URS packed the samples into coolers with ice and shipped them via Federal Express to the Chemtech Consulting Group Inc. Mountainside, New Jersey laboratory.

In the Q1 2023 sampling event performed by CHA, the recovery well (SUMP) sample was collected with a disposable polyethylene bailer lowered into the well and the sluiceway (SLUICEWAY) sample was collected with a disposable polyethylene beaker attached to a sample dipper. Samples were collected for analysis of VOCs via EPA Method 8260. Following the Q1 2023 sample collection. CHA packed the samples into coolers with ice and transported them to Eurofins Environment Testing Northeast (Eurofins) Buffalo laboratory certified under the NYSDOH Environmental Laboratory Approval Program (ELAP) Number 10026. Proper chain-of-custody procedures were followed. New York State Analytical Services Protocol (ASP) Category B Deliverables were requested from the laboratory for third-party data validation purposes.

## 3.1.2 Groundwater Monitoring Methods

The purpose of the groundwater monitoring program is to obtain groundwater quality data near the sewage treatment plant (also near the recovery well) and downgradient of the source area. Groundwater samples are collected from four monitoring wells near the sewage treatment plant (monitoring wells BR-1, MW-1S, MW-1D, and MWSB-8S) and downgradient monitoring well MW-3D (see Figure 2).

Before sampling, water levels were gauged in each of the monitoring wells to the nearest 0.01 foot with a water level meter. URS utilized a peristaltic pump with polyethylene tubing and a water quality meter in the Q4 2021 sampling event to purge and sample the wells. CHA utilized a submersible pump with dedicated polyethylene tubing and a water quality meter with a flow-through cell. Both companies purged groundwater to stabilization under low-flow groundwater sampling procedures. Field water quality parameters including depth to water, pH, temperature, turbidity, specific conductance, and oxidation-reduction potential were measured and recorded.



After three consecutive readings within stabilization parameters, one sample was collected from each well utilizing the dedicated tubing.

Samples during both the Q4 2021 and Q1 2023 monitoring events were collected and analyzed for VOCs via EPA Method 8260. Additionally, in accordance with the Emerging Contaminants Work Plan, URS sampled four wells for 1,4-dioxane and per- and polyfluoroalkyl substances on December 21, 2021 (wells MW-1S, MW-1D, MWSB-8S) and January 19, 2022 (well MW-2S).

Sample handling procedures followed the methodology utilized for the SUMP and SLUICEWAY samples. For quality assurance and quality control purposes and in accordance with the SMP, one field duplicate sample (CHA-1) and matrix spike/matrix spike duplicate (MS/MSD) samples were collected and submitted to the laboratory for analysis.

## 3.2 Monitoring Results

## 3.2.1 Sump and Sluiceway Results

Analytical results for the SUMP and SLUICEWAY samples are presented in Table 1 and Table 2, respectively. There were no parameters detected above the Orangetown POTW limits in the SUMP or SLUICEWAY sample taken during the Q4 2021 or Q1 2023 monitoring events.

In the Q4 2021 SUMP sample, the VOC detected at a concentration above the laboratory reporting limits was PCE at a concentration of 35.9 micrograms per liter ( $\mu$ g/L). The VOCs cis-1,2- DCE and TCE were detected at low, estimated (J-qualified) concentrations exceeding the method detection limit, but below the laboratory reporting limit. In the 2023 SUMP sample, the only VOC detected at a concentration above the laboratory reporting limits was PCE at a concentration of 90  $\mu$ g/L. The Q1 2023 analytical result for the SUMP sample was higher than the previous two sampling events, but generally within the historical range of PCE detection since monitoring began in 2014.

In the Q4 2021 SLUICEWAY sample, the VOC chloroform was detected at a concentration of 1.2  $\mu$ g/L. The VOCs acetone, bromodichloromethane, and bromoform were detected at low, estimated (J-qualified) concentrations exceeding the method detection limit, but below the laboratory reporting limit. PCE was not detected. In the Q1 2023 SLUICEWAY sample, the VOCs acetone and PCE were detected above laboratory reporting limits at concentrations of 35  $\mu$ g/L and 5.1  $\mu$ g/L, respectively. The VOCs bromodichloromethane, bromoform, chloroform, and methyl tert-butyl ether (MTBE) were detected at low, estimated (J-qualified) concentrations exceeding the method detection limit, but below the laboratory reporting limit. The Q4 2021 and Q1 2023 analytical results for the SLUICEWAY sample were generally consistent with results observed during previous monitoring events.



## 3.2.2 Groundwater Results

Analytical results for the groundwater samples are presented in Tables 3 and 4 and Figures 2 and 3. Shallow groundwater contours and direction of groundwater flow are presented on Figure 4.

## Fourth Quarter 2021 Results

During the Q4 2021 sampling event performed by URS, PCE was detected at all five monitoring wells. PCE was detected at concentrations exceeding the laboratory reporting limit and NYSDEC's Technical & Operational Guidance Series (TOGS) 1.1.1 ambient water quality standard (AWQS) at monitoring wells MW-1D, MW-1S, MW-3D, and MWSB-8S. TCE was detected at concentrations exceeding the method detection limit at monitoring wells MW-1D, MW-1S, and MW-3D. TCE was detected at a concentration exceeding TOGS 1.1.1 AWQS standard at monitoring well MW-3D. Trans-1,2-dichloroethene was detected at concentrations exceeding the method detection limit at monitoring exceeding the method detected at concentrations exceeding the method detected at concentrations exceeding the method detection limit at monitoring well MW-3D. Trans-1,2-dichloroethene was detected at concentrations exceeding the method detection limit at monitoring well MW-3D. The VOC cis-1,2- DCE was detected at concentrations exceeding the method detection limit at MW-1S and MW-1D. DCE was detected at a concentration exceeding TOGS 1.1.1 AWQS standard at monitoring well MW-3D. No other VOCs were detected at concentrations exceeding the laboratory reporting limits at the monitoring wells sampled during the Q4 2021 monitoring event. The Q4 2021 analytical results for groundwater samples were generally consistent with results observed during previous monitoring events and generally lower than the historical high concentrations detected.

Results from the four monitoring wells sampled for emerging contaminants were compared to the New York State Department of Health Maximum Contaminant Level for drinking water and the NYSDEC guidance value proposed in the *Sampling, Analysis, and Assessment of PFAS Under NYSDEC's Part 375 Remedial Programs* (last updated April 2023). The monitoring wells contained exceedances in perfluorooctanesulfonic acid (PFOS) and perfluorooctanoic acid (PFOA) ranging from 15 to 29 nanograms per liter (ng/L) for PFOS [versus a guidance value of 2.7 ng/L) and ranging from 16 to 22 ng/L for PFOA [versus a guidance value of 6.7 ng/L]. Considering the upgradient monitoring well, MW-2S, was found to have the highest concentrations of PFOS and negligibly different concentrations for PFOA, it is anticipated that PFAS is ubiquitous across the Site.

## First Quarter 2023 Results

Results from the Q1 2023 sampling event performed by CHA identified detections of PCE, TCE, and cis-1,2-DCE parameters at all monitoring wells with some exceedances of the TOGS 1.1.1. AWQS. PCE was detected at concentrations exceeding TOGS 1.1.1 AWQS at monitoring wells MW-1D, MW-1S, MW-3D, and MWSB-8S. TCE and cis-1,2-DCE were detected at concentrations exceeding their respective TOGS 1.1.1 AWQS at monitoring well MW-3D only. The Q1 2023 analytical results for groundwater samples were generally consistent with results observed during previous monitoring events and generally lower than the historical high concentrations detected.



## 3.3 Soil Vapor Evaluation

No soil vapor intrusion monitoring was conducted during the 2021 to 2023 reporting period. There were no changes to the building or Site use. URS contacted the Town of Orangetown personnel in July 2022 to verify that no new development was planned on the site. During the December 21, 2021, and March 27, 2023 site inspections, no significant cracks or slab penetrations in the foundation slab of Building 68 were observed.

## 4.0 OPERATIONS & MAINTENANCE PLAN COMPLIANCE

## 4.1 Components of the O&M Plan

The Site O&M Plan, as detailed in the SMP, covers all aspects of Site operations and maintenance. This includes details on the pump inspection, sump inspection, recommendations, and plans for maintenance of the dewatering system and states the protocols for maintenance reports.

## 4.2 Summary of O&M Completed

Contamination in the Site groundwater is removed through pumping at the recovery well to the on-site treatment plant that pumps to the Orangetown POTW for further treatment before discharge. The recovery well consists of a 24-inch diameter slotted high density polyethylene (HDPE) pipe set approximately 15 feet into the ground. The pipe is backfilled with pea stone gravel from 5 to 15 feet below the ground surface. A 12-inch diameter polyvinyl chloride (PVC) pipe is nested within the 24-inch HDPE pipe and the annulus is filled with gravel. Groundwater is pumped to one of the concrete holding tanks via a 1.5-inch PVC pipe and Grundfos Redi Flo III 0.5-1.85 horsepower submersible pump controlled by a pressure transducer designed to activate the pump water level reaches 11 feet below the top of the PVC pipe.

## 4.3 Evaluation of Remedial Systems

URS reported an average pumping rate from April 2017 to December 2020 of 9.8 gallons per minute (gpm) and indicated the pumping rate was the same in the 2021-2022 Groundwater Monitoring Certification Report. However, in looking more closely at the reported flow totals for the sump, provided by RPC, the average flow rate for the April 2017 to December 2020 period was approximately 3.4 gpm and the flow rate identified in the 2023 Groundwater Certification Report for January 2022 through February 2023 was approximately 1.2 gpm. Although there has been an overall decline in the pumping rate, the sump pump was observed to operate on a float system and turn on intermittently when the groundwater level in the sump reached the appropriate float level. Therefore, the recovery well is functioning as intended. The pump totalizer logs recorded by OMH personnel are included in Appendix C.



Since 1999, detected concentrations of VOCs in the SUMP sample have substantially declined, with periodic fluctuations. During the January 2021 through January 2023 reporting period, the Site remedial systems were found to be in good condition. Outside of routine O&M activity, no major maintenance or changes were required. All inspection forms, maintenance reports, and any other information produced during regular operation are kept on a file on-site.

## 5.0 CONCLUSIONS & RECOMMENDATIONS

The Site was observed to be in overall good condition at the time of the March 2023 inspection. The semiannual monitoring events conducted during the reporting period continue to show that the results for both the SUMP and SLUICEWAY did not exceed the Orangetown POTW limits. The sump is operating as an engineering control to remove contaminated groundwater from the Site. The SMP is being implemented and based on this review, the remedy continues to be protective of public health and/or the environment and compliant with the decision document.

Provided the IC/ECs for the Site remain in place and are maintained, it is expected that the remedy will continue to be effective in the protection of human health and the environment.

## 5.1 Recommendations

It is recommended that the current Site ICs and ECs remain in place, and the ECs continue to be inspected and monitored. No changes to the remedy, and/or monitoring or operation and maintenance plans are recommended at this time.

The next groundwater monitoring, site inspection, and gauging of groundwater monitoring wells is anticipated to occur in the second quarter (April through June) 2024 to comply with the fivequarter rotating sampling frequency.



# TABLES



Table 1 - Summary of Sump Results

#### Rockland Psychiatric Center Former Laundry Facility Orangeburg, New York Site No. 344011

Parameter		O Sump Discharge Sample Concentrations									
	2014	2015	2017	2018	2020	2021	2023	(#9, =)			
VOLATILE ORGANIC COMPOUNDS BY U.S. EPA METHOD 8260											
1,1,1-Trichloroethane	<2.0 U	<5.0 U	<5.0 U	<1 U	<5 U	<1 U	< 2.0	2,759			
Acetone	<100 U	<25 U	<25 U	<10 U	<25 U	<5 UJ	< 20				
Benzene	<2.0 U	<5.0 U	<5.0 U	<1 U	<5 U	<1 U	<2.0				
Bromodichloromethane	<2.0 UJ	<5.0 U	<5.0 U	<1 U	<5 U	<1 U	<2.0				
Bromoform	<5.0 U	<5.0 U	<5.0 U	<1 U	<5 U	<1 U	<2.0				
Chlorodibromomethane	<1.0 U	<5.0 U	<5.0 U	<1 UJ	<5 U	NS	<2.0				
Chloroform	<4.0 U	0.53 J	1.4 J	0.83 J	<5 U	<1 U	<2.0	60			
Cis-1,2-dichloroethene	13	6.2	11.8	6	1.8 J	0.78 J	<2.0				
Ethylbenzene	<2.0 U	<5.0 U	<5.0 U	<1 U	<5 U	<1 U	<2.0	1,659			
Methyl ethyl ketone (MEK) or 2-Butanone	NS	NS	NS	NS	NS	NS	<20				
Methyl tert-butyl Ether	<2.0 U	<5.0 U	<5.0 U	<1 U	<5 U	<1 U	<2.0				
Methylene chloride	<10 U	<5.0 U	<5.0 U	<1 U	<5 U	<1 U	<2.0	4,139			
Tetrachloroethene	87	43.9	73.5	83	23.1	35.9	90	5,000			
Toluene	<2.0 U	<5.0 U	<5.0 U	<1 U	<5 U	<1 U	<2.0	12,000			
Trans-1,2-dichloroethene	<2.0 U	<5.0 U	<5.0 U	<1 U	<5 U	<1 U	<2.0	2,040			
Trichloroethene	2.1 J	1.6 J	1.5 J	1.3	0.55 J	0.51 J	<2.0	26			
Xylene (total)	<6.0 U	<5.0 U	<5.0 U	<2 U	<15 U	<1 U	<4.0	20,000			

Notes:

Results from 2014 through 2021 taken from the URS/AECOM historical reports. Samples analyzed by various laboratories. Results from 2023 for samples collected by CHA Consulting, Inc. and analyzed by Eurofins Environment Testing Northeast.

Only parameters with detectable concentrations or associated discharge limits are presented in the table.

Dashes (---) represent no applicable publicly owned treatment works limit.

Results in micrograms per liter (µg/L).

<# or U - Indidates the reporting limit is listed and the parameter is not detected.

J - Indicates an estimated value detected at a concentration above the method detection limit but below the reporting limit.

UJ - The analyte was not detected above the sample reporting limit; and the reporting limit is approximate.

NS - Parameter not sampled for

BOLD font - Compound was detected above method detection limit.

Table 2 - Summary of Sluiceway Results

#### Rockland Psychiatric Center Former Laundry Facility Orangeburg, New York Site No. 344011

Parameter		Orangetown Publicly Owned Treatment Works Limits						
	2014	2015	2017	2018	2020	2021	2023	(µg/L)
		VOLA	FILE ORGANIC COMPOU	JNDS BY U.S. EPA METH	OD 8260			
1,1,1-Trichloroethane	<1.0 U	<5.0 U	<5.0 U	<1 U	<5 U	<1 U	< 1.0	2,759
Acetone	52 J	14.1 J	<25 U	90	<25 U	19.5 J	35	
Benzene	<1.0 U	<5.0 U	<5.0 U	<1 U	<5 U	<1 U	< 1.0	
Bromodichloromethane	2.7	1.5 J	0.42 J	2.5	2.5 J	0.88 J	0.97 J	
Bromoform	<5.0 U	<5.0 U	0.59 J	1.2	<5 U	0.39 J	0.4 J	
Chlorodibromomethane	0.94	0.92 J	0.67 J	1.7	<5 U	NS	< 1.0	
Chloroform	8.1	2.2 J	0.7 J	5.7	<5 U	1.2	0.98 J	60
Cis-1,2-dichloroethene	<1.0 U	<5.0 U	<5.0 U	<1 U	<5 U	<1 U	< 1.0	
Ethylbenzene	<1.0 U	<5.0 U	<5.0 U	<1 U	<5 U	<1 U	< 1.0	1,659
Methyl ethyl ketone (MEK) or 2-Butanone	NS	NS	NS	NS	NS	NS	1.5 J	
Methyl tert-butyl Ether	<1.0 U	4.8 J	<5.0 U	<1 U	56.1	<1 U	< 1.0	
Methylene chloride	<5.0 U	<5.0 U	<5.0 U	<1 U	<5 U	<1 U	< 1.0	4,139
Tetrachloroethene	<1.0 U	<5.0 U	1.5 J	5.2	<5 U	<1 U	5.1	5,000
Toluene	<1.0 U	<5.0 U	<5.0 U	63	0.36 J	<1 U	< 1.0	12,000
Trans-1,2-dichloroethene	<1.0 U	<5.0 U	<5.0 U	<1 U	<5 U	<1 U	< 1.0	2,040
Trichloroethene	<1.0 UJ	<5.0 U	<5.0 U	<1 U	<5 U	<1 U	< 1.0	26
Xylene (total)	<3.0 U	<5.0 U	<5.0 U	<2 U	<15 U	<1 U	< 2.0	20,000

Notes:

Results from 2014 through 2021 taken from the URS/AECOM historical reports. Samples analyzed by various laboratories. Results from 2023 for samples collected by CHA Consulting, Inc. and analyzed by Eurofins Environment Testing Northeast.

Only parameters with detectable concentrations or associated discharge limits are presented in the table.

Dashes (---) represent no applicable publicly owned treatment works limit.

Results in micrograms per liter (µg/L).

<# or U - Indidates the reporting limit is listed and the parameter is not detected.

J - Indicates an estimated value detected at a concentration above the method detection limit but below the reporting limit.

UJ - The analyte was not detected above the sample reporting limit; and the reporting limit is approximate.

NS - Parameter not sampled for

BOLD font - Compound was detected above method detection limit.

#### Rockland Psychiatric Center Former Laundry Facility Orangeburg, New York Site No. 344011

Sample ID:	NYSDEC					BR-	1				
Date Collected:	AWQS	12/1/2011	9/13/2012	9/26/2013	9/15/2014	12/21/2015	3/8/2017	8/24/2018	8/13/2020	12/21/2021	3/28/2023
VOLATILES											
1,1,1-Trichloroethane	5	<1 U	<1 U	<1 U	<1 U	<5 U	<5 U	<1 U	<5 U	<1 U R	< 1.0
1,1-Dichloroethene	5	<1 U	<1 U	<1 U	<1 U	<5 U	<5 U	<2 U	<5 U	<1 U R	< 1.0
Carbon Disulfide	NA	<5 U	<2 U	<2 U	<4 U	<5 U	<5 U	<1 U	<5 U	1.00 R	< 1.0
cis-1,2-Dichloroethene	5	<1 U	<1 U	<1 U	<1 U	<5 U	<5 U	<1 U	<5 U	<1 U R	< 1.0
MTBE	NA	<1 U	<1 U	<1 U	<1 U	<5 U	<5 U	<1 U	<5 U	<1 U R	< 1.0
Tetrachloroethene	5	4.2	7.1	8.6	5.4	2.3	3 J	1.6	1.3 J	0.73 J	2.5
trans-1,2-Dichloroethene	5	<1 U	<1 U	<1 U	<1 U	<5 U	<5 U	<1 U	<5 U	<1 U R	< 1.0
Trichloroethene	5	<1 U	<1 U	<1 U	<1 UJ	<5 U	<5 U	<1 U	<5 U	<1 U R	< 1.0
Vinyl Chloride	2.0	<2 U	<2 UJ	<2 UJ	<2 U	<5 U	<5 U	<1 U	<5 U	<1 U R	< 1.0
TOTAL VOCS		4.2	7.1	8.6	5.4	2.3	3.0	1.6	1.3	0.7	2.5

Notes:

Results from 1998 and 1999 were provided in historical reports from LMS and EA Engineering.

Results from 2005 through 2021 were provided in the URS/AECOM historical reports. Samples analyzed by various laboratories.

For formatting purposes, the analytical results from 1998 through 2010 are hidden. This data has been submitted previously and is available upon request.

2023 results for samples collected by CHA Consulting, Inc. and analyzed by Eurofins Environment Testing Northeast (ELAP 10026).

Results compared to the Division of Water Technical and Operational Guidance Series (TOGS) (1.1.1) - Ambient Water Quality Standards (AWQS) and Results in micrograms per liter (µg/L).

Data Qualifiers:

U - Indicates the compound was analyzed for but was not detected.

UJ - The analyte was not detected above the sample reporting limit; and the reporting limit is approximate.

E - Value exceeds calibration range.

J - Indicates an estimate value.

R - The sample result is rejected due to serious deficiencies. The presence or absense of the analyte cannot be verified.

BOLD font - Compound was detected above instrument detection limit.

Blue Shading and Italics - Result exceeds the NYSDEC AWQS.

NS = Not Sampled

Sample ID:	NYSDEC					MW	-1D				
Date Collected:	AWQS	12/1/2011	9/13/2012	9/26/2013	9/15/2014	12/21/2015	3/8/2017	8/24/2018	8/13/2020	12/21/2021	3/28/2023
VOLATILES											
1,1,1-Trichloroethane	5	<1 U	<1 U	<1 U	<1 U	<5 U	<5 U	<1 U	<5 U	<1 U	< 1.0
1,1-Dichloroethene	5	<1 U	<1 U	<1 U	<1 U	<5 U	<5 U	<1 U	<5 U	<1 U	< 1.0
Carbon Disulfide	NA	<5 U	<2 U	<2 U	<4 U	<5 U	<5 U	<1 U	<5 U	<1 U	< 1.0
cis-1,2-Dichloroethene	5	17	3.4	11	14 J	4.7 J	7.5	9.6 J	5.1	3.5	4
MTBE	NA	<1 U	<1 U	<1 U	<1 U	<5 U	<5 U	0.26 J	<5 U	<1 U	< 1.0
Tetrachloroethene	5	34	<1 U	38	25 J	12.9	21.6	18 J	14.2	11	22
trans-1,2-Dichloroethene	5	<1 U	<1 U	<1 U	<1 U	<5 U	<5 U	<1 U	<5 U	<1 U	< 1.0
Trichloroethene	5	2.2	<1 U	1.8	1.9 J	1.1 J	1.3 J	1.6 J	1.2 J	0.91 J	1.3
Vinyl Chloride	2.0	<2 U	<2 U	<2 U	<2 U	<5 U	<5 U	<1 U	<5 U	<1 U	< 1.0
TOTAL VOCS		53.2	3.4	50.8	40.9	18.7	30.4	29.5	20.5	15.4	27.3

Sample ID:	NYSDEC					MW	'-1S				
Date Collected:	AWQS	12/1/2011	9/13/2012	9/26/2013	9/15/2014	12/21/2015	3/8/2017	8/24/2018	8/13/2020	12/21/2021	3/28/2023
VOLATILES											
1,1,1-Trichloroethane	5	<1 U	<1 U	<1 U	<1 U	<5 U	<5 U	<1 U	<5 U	<1 U	< 1.0
1,1-Dichloroethene	5	<1 U	<1 U	<1 U	<1 U	<5 U	<5 U	<1 U	<5 U	<1 U	< 1.0
Carbon Disulfide	NA	<5 U	<2 U	<2 U	<4 U	<5 U	<5 U	<1 U	<5 U	<1 U	< 1.0
cis-1,2-Dichloroethene	5	13	7.8	5	6.9	2.1 J	4.7 J	4.8	1.8 J	1.2	2
MTBE	NA	<1 U	<1 U	<1 U	<1 U	<5 U	<5 U	0.19 J	<5 U	<1 U	< 1.0
Tetrachloroethene	5	28	28	27	21	9.8	18.2	15.0	9.7	7.8	17
trans-1,2-Dichloroethene	5	<1 U	<1 U	<1 U	<1 U	<5 U	<5 U	<1 U	<5 U	<1 U	< 1.0
Trichloroethene	5	1.6	1.3	1	<1 UJ	<5 U	0.75 J	0.86 J	0.69 J	0.36 J	0.75 J
Vinyl Chloride	2.0	<2 U	<2 U	<2 U	<2 U	<5 U	<5 U	<1 U	<5 U	<1 U	< 1.0
TOTAL VOCS		42.6	37.1	33.0	27.9	11.9	23.7	20.9	12.2	9.36	19.75

Sample ID:	NYSDEC						MW-3D					
Date Collected:	AWQS	12/1/2011	9/13/2012	9/26/2013	9/15/2014	12/21/2015	3/8/2017	8/24/2018	8/13/2020	12/30/2020	12/21/2021	3/28/2023
VOLATILES												
1,1,1-Trichloroethane	5	<1 U	<1 U	<1 U	<1 U	<5.0 U	<5.0 U	NS	NS	<5.0 U	<1 U	< 1.0
1,1-Dichloroethene	5	1.1	<1 U	<1 U	<1 U	<5.0 U	<5.0 U	NS	NS	<5.0 U	<1 U	< 1.0
Carbon Disulfide	NA	<5 U	<2 U	<2 U	<4 U	<5.0 U	<5.0 U	NS	NS	<5.0 U	<1 U	< 1.0
cis-1,2-Dichloroethene	5	22.0	24.0	20.0	18.0	5.2	4.9 J	NS	NS	13.9	11.7	11.0
MTBE	NA	<1 U	<1 U	<1 U	<1 U	<5 U	<5.0 U	NS	NS	<5.0 U	<1 U	0.16 J
Tetrachloroethene	5	13.0	17.0	15.0	12.0	2.5 J	4.3 J	NS	NS	5.9	5.9	9.6
trans-1,2-Dichloroethene	5	<1 U	<1 U	<1 U	<1 U	<5 U	<5.0 U	NS	NS	0.5 J	0.45 J	< 1.0
Trichloroethene	5	9.6	14.0	9.7	8.6 J	2.9 J	3.2 J	NS	NS	6.2	5.0	6.3
Vinyl Chloride	2.0	<2 U	<2 U	<2 U	<2 U	<5 U	<5.0 U	NS	NS	<5.0 U	<1 U	< 1.0
TOTAL VOCS		45.7	55.0	44.7	38.6	10.6	12.4	NA	NA	26.5	23.28	27.06

Sample ID:	NYSDEC					MWS	B-8S				
Date Collected:	AWQS	12/1/2011	9/13/2012	9/26/2013	9/15/2014	12/21/2015	3/8/2017	8/24/2018	8/13/2020	12/21/2021	3/28/2023
VOLATILES											
1,1,1-Trichloroethane	5	<1 U	<1 U	<1 U	<1 U	<5 U	<5 U	<1 U	<5 U	<1 U	< 1.0
1,1-Dichloroethene	5	<1 U	<1 U	<1 U	<1 U	<5 U	<5 U	<1 U	<5 U	<1 U	< 1.0
Carbon Disulfide	NA	<5 U	<2 U	<2 U	<4 U	<5 U	<5 U	<1 U	<5 U	<1 U	< 1.0
cis-1,2-Dichloroethene	5	<1 U	<1 U	<1 U	<1 U	<5 U	<5 U	<1 U	<5 U	<1 U	< 1.0
MTBE	NA	<1 U	<1 U	<1 U	<1 U	<5 U	<5 U	<2 U	<5 U	<1 U	< 1.0
Tetrachloroethene	5	17.0	18.0	15.0	20.0	6.2	10.5	10.0	7.4	6.3	9.7
trans-1,2-Dichloroethene	5	<1 U	<1 U	<1 U	<1 U	<5 U	<5 U	<1 U	<5 U	<1 U	< 1.0
Trichloroethene	5	<1 U	<1 U	<1 U	<1 UJ	<5 U	<5 U	<1 UJ	<5 U	<1 UJ	< 1.0
Vinyl Chloride	2.0	<2 U	<2 U	<2 U	<2 U	<5 U	<5 U	<1 U	<5 U	<1 U	< 1.0
TOTAL VOCS		17.0	18.0	15.0	20.0	6.2	10.5	10.0	7.4	6.3	9.7

#### Table 4 - Groundwater Monitoring Results Emerging Contaminants

#### Rockland Psychiatric Center Former Laundry Facility Orangeburg, New York Site No. 344011

DEAS Der and Delyflueringted Alkyl Substances (pg/L)		$Proposed NIVEDEC AND CV^2$	MW-1S	DUP-1	MW-1D	MW-2S	MWSB-8S	Field Blank
PPAS - Pel - and Polyndonnaled Aikyr Substances (ng/ L)	IN ISDOH IVICL	Proposed NYSDEC AWQ GV	12/21/2021	12/21/2021	12/21/2021	1/19/2022	12/21/2021	12/21/2021
6:2-Fluorotelomersulfonic acid	-	-	<4.4	<4.4	<4.4	<4.5	<4.4	<4.6
8:2-Fluorotelomersulfonic acid	-	-	<1.8	<1.8	<1.7	<1.8	<1.8	<1.8
NEtFOSAA	-	-	<4.4	<4.4	<4.4	<4.5	<4.4	<4.6
NMeFOSAA	-	-	<4.4	<4.4	<4.4	<4.5	<4.4	<4.6
Perfluorobutanesulfonic acid	-	-	<2.5	<2.5	<2.0	1.8	<2.2	<1.8
Perfluorobutanoic acid	-	-	7.9	8.3	6.9	8.2	8.4	<4.6
Perfluorodecanesulfonic acid	-	-	<1.8	<1.8	<1.7	<1.8	<1.8	<1.8
Perfluorodecanoic acid	-	-	<1.8	<1.8	0.27 J	<1.8	<1.8	<1.8
Perfluorododecanoic acid	-	-	<1.8	<1.8	<1.7	<1.8	<1.8	<1.8
Perfluoroheptanesulfonic acid	-	-	0.39 J	0.48 J	0.44 J	0.77 J	0.34 J	<1.8
Perfluoroheptanoic acid	-	-	4.3	4.3	3.2	3.3	4.8	<1.8
Perfluorohexanesulfonic acid	-	-	7.8	8.1	7.5	8.1	7.8	<1.8
Perfluorohexanoic acid	-	-	5.8	5.9	4.9	4.7	5.4	<1.8
Perfluorononanoic acid	-	-	1.0 J	1.3 J	1.1 J	0.97 J	0.65 J	<1.8
Perfluorooctanesulfonamide	-	-	<1.8	<1.8	<1.7	<1.8	<1.8	<1.8
Perfluorooctanesulfonic acid (PFOS)	10	2.7	17	19	15	29	19	<1.8
Perfluorooctanoic acid (PFOA)	10	6.7	22	22	16	22	19	<1.8
Perfluoropentanoic acid	-	-	5.1	5.1	3.8	4.9	5.0	<1.8
Perfluorotetradecanoic acid	-	-	<1.8	<1.8	<1.7	<1.8	<1.8	<1.8
Perfluorotridecanoic acid	-	-	<1.8	<1.8	<1.7	<1.8	<1.8	<1.8
Perfluoroundecanoic acid	-	-	<1.8	<1.8	<1.7	<1.8	<1.8	<1.8
1 4 Diovane (ug/L)		Broposod NVSDEC ANNOS CV <sup>2</sup>	MW-1S	DUP-1	MW-1D	MW-2S	MWSB-8S	Field Blank
	INTSDUH IVICL	Proposed INTSDEC AVVQS GV	12/21/2021	12/21/2021	12/21/2021	1/19/2022	12/21/2021	12/21/2021
1,4-Dioxane (µg/L)	1	0.35	<08	<0.8	<0.8	<0.8	<0.8	NM

Notes:

Results are compared to the New York State Department of Health (NYSDOH) Maximum Contaminant Level (MCL) for the compound.

Results are compared to the proposed New York State Department of Environmental Conservation (NYSDEC) Ambient Water Quality Guidance Value (AWQ GV) for

the compound.

Results in micrograms per liter (µg/L) and nanogram per liter (ng/L).

J - Indicates an estimate value.

<## - Non-Detect meaning the parameter was not detected above the method detection limit. Reporting limit shown.</p>

BOLD font - Compound was detected above the method detection limit.

Blue shading and bold - Result is above the indicated standards or guidance values shown

NM = Not Measured

\*\* Data provided in historical reports from AECOM

# FIGURES













**Directional arrows indicate** general direction of groundwater flow.



Monitoring Well

Shallow Groundwater Contour

7





## **Engineering Controls Annual Inspection Form**

## **Rockland Psychiatric Center Former Laundry Facility Site** 140 Old Orangeburg Orangeburg, NY 10962

Engineering Control: Sump	<u>Du m</u> D		Inspecti	on Date: 12 - 20 - 21
Item	Yes	No	N/A	Comments
Does the Engineering Control continue to perform as designed?	X			
Does the Engineering Control continue to protect human health and the environment?	X			
Does the Engineering Control comply with requirements established in the SMP and the Deed Restriction/Environmental Easement?	X			
Has remedial performance criteria been achieved or maintained?	Х			
Has sampling and analysis of appropriate media been performed during the monitoring event?	X			
Has the maintenance checklist been completed?	X			
Are site records complete and up-to- date?	Х			
Have there been any modifications made to the remedial or monitoring system?	Ŗ	X		
Does the remedial or monitoring system need to be changed or altered at this time?	/	X		

Note: Upon completion of the form any non-conforming items warranting corrective action should be identified here within.

Name of Inspector: Steve Gray Signature of Inspector:

Inspector's Address: (same as facility address)

## MAINTENANCE CHECKLIST

## Rockland Psychiatric Center Former Laundry Facility Site 140 Old Orangeburg Orangeburg, NY 10962

Maintenance Required:	None	Inspection Date:	12-20-21
		-	

Provide a general description of the maintenance activity conducted:

Item	Yes	No	N/A	Comments
Are there any leaks present? Provide a description, including locations and quantity of discharge.		X		
Was the leak repaired? Provide the date of leak repair.			X	
Were other repairs or adjustments made to the system? Provide details to any repair or adjustment made to the system.		X		

Where appropriate, provide color photographs or sketches showing the approximate location of any problems or incidents noted (included either on the checklist/form or on an attached sheet)

Attach any other documentation related to the repair of the system to this checklist (e.g., invoices for maintenance/repair work, receipts for replacement equipment, etc.)

Company:	AECOY
----------	-------

Name of Inspector: Steve Gray

Position of Inspector:	Technician
Signature of Inspector:	The Dame

Address of Inspector: (same as facility address)

## Engineering Controls Annual Inspection Form

#### Rockland Psychiatric Center Former Laundry Facility Site 140 Old Orangeburg Orangeburg, NY 10962

Item	Yes	No	N/A	Comments
Does the Engineering Control continue to perform as designed?	$\checkmark$			
Does the Engineering Control continue to protect human health and the environment?	$\checkmark$			
Does the Engineering Control comply with requirements established in the SMP and the Deed Restriction/Environmental Easement?				
Has remedial performance criteria been achieved or maintained?				unknum if groundwater meets Standads
Has sampling and analysis of appropriate media been performed during the monitoring event?	$\checkmark$			
Has the maintenance checklist been completed?	~			
Are site records complete and up-to- date?	~			
Have there been any modifications made to the remedial or monitoring system?		~		
Does the remedial or monitoring system need to be changed or altered at this time?		V		

Note: Upon completion of the form any non-conforming items warranting corrective action should be identified here within.

Name of Inspector: Kann Ehmann Signature of Inspector: Inspector's Address: (same as facility address) 300 S. State Street Suite 600 Syracuse, NY 13202

IMMEDIATELY REPORT ANY FAILURE OR DEFECT TO THE PLANT SUPERINTENDENT AND THE DESIGNATED INDIVIDUAL IN CHARGE OF MAINTAINING THE ENGINEERING CONTROL AT THE FACILITY SO THE COUNTERMEASURE PLAN CAN BE IMPLEMENTED.

## MAINTENANCE CHECKLIST

#### Rockland Psychiatric Center Former Laundry Facility Site 140 Old Orangeburg Orangeburg, NY 10962

Maintenance Required:			Inspectio	on Date:	3-27-2023
Provide a general description of the maintenance	activity	conducte	d:		
Item	Yes	No	N/A	Commen	ts
Are there any leaks present? Provide a description, including locations and quantity of discharge.		V			
Was the leak repaired? Provide the date of leak repair.	12		V		
Were other repairs or adjustments made to the system? Provide details to any repair or adjustment made to the system.		V			

Where appropriate, provide color photographs or sketches showing the approximate location of any problems or incidents noted (included either on the checklist/form or on an attached sheet)

Attach any other documentation related to the repair of the system to this checklist (e.g., invoices for maintenance/repair work, receipts for replacement equipment, etc.)

Company: CHA	1/ -	Position of Inspector: Engineer
Name of Inspector:	Kanthman	Signature of Inspector: The the
Address of Inspector: (san	ne as facility address)	

## APPENDIX B

The Institutional and Engineering Controls Certification Forms





#### Enclosure 2 NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION Site Management Periodic Review Report Notice Institutional and Engineering Controls Certification Form



Sit	e No. 344011	Box 1	
Sit	e Name Rockland Psychiatric Center		
Site Cit Co Site	e Address: Orangeburgh Road Zip Code: 10962 //Town: Orangetown unty: Rockland e Acreage: 19.800		
Re	porting Period: February 12, 2021 to April 16, 2017 January 1, 2021 to December 31, 2023		
		YES	NO
1.	Is the information above correct?		Х
	If NO, include handwritten above or on a separate sheet.		
2.	Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?		X
3.	Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?		X
4.	Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?		X
	If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5.	Is the site currently undergoing development?		Х
		Box 2	
		YES	NO
6.	Is the current site use consistent with the use(s) listed below? Restricted-Residential, Commercial, and Industrial	X	
7.	Are all ICs in place and functioning as designed? X		
	IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below a DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.	ind	
AC	corrective Measures Work Plan must be submitted along with this form to address th	nese issi	ues.
Sig	nature of Owner, Remedial Party or Designated Representative Date		

#### **Description of Institutional Controls**

Parcel	Owner
73.12-1-2.1	NYS Office of Mental Health

Institutional Control

Ground Water Use Restriction Landuse Restriction Monitoring Plan Site Management Plan

1) Continued operation and maintenance of the existing groundwater extraction system, which discharges to the Orangetown POTW;

2) Limit the use and development of the property to restricted residential use as defined in 6 NYCRR Part 375 1.8(g)(2)(ii);

3) Prohibit use of groundwater underlying the property and surface water, without treatment as determined by the New York State Department of Health (NYSDOH);

4) Evaluated the potential for vapor intrusion for any building developed or where a change in use is contemplated for existing building on the site, including provision for mitigation of any impacts identified; 73.12-1-3.1 Town of Orangetown

Ground Water Use Restriction Landuse Restriction Monitoring Plan Site Management Plan O&M Plan

1) Continued operation and maintenance of the existing groundwater extraction system, which discharges to the Orangetown POTW;

2) Limit the use and development of the property to restricted residential use as defined in 6 NYCRR Part 375 1.8(g)(2)(ii);

3) Prohibit use of groundwater underlying the property and surface water, without treatment as determined by the New York State Department of Health (NYSDOH);

4) Evaluated the potential for vapor intrusion for any building developed or where a change in use is contemplated for existing building on the site, including provision for mitigation of any impacts identified;

Box 4

Description of Engineering Conti	rols
Parcel	Engineering Control
73.12-1-2.1	Groundwater Treatment System
73.12-1-3.1	Groundwater Treatment System

Periodic Review Report (PRR) Certification Statements
I certify by checking "YES" below that:
a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the Engineering Control certification;
b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted and program provides and the information procented is accurate and competence.
engineering practices, and the information presented is accurate and compete. YES NO
$X$ $\Box$
For each Engineering control listed in Box 4, I certify by checking "YES" below that all of the following statements are true:
(a) The Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;
(b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;
(c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;
(d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and
(e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.
YES NO
IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.
A Corrective Measures Work Plan must be submitted along with this form to address these issues.

#### IC CERTIFICATIONS SITE NO. 344011

Box 6

#### SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210,45 of the Penal Law.

Marshill Vitale at 75 New Scotland Ave Unit a, Albany, NY 12208 print name print business address owner am certifying as (Owner or Remedial Party)

for the Site named in the Site Details Section of this form,

3/27/24

Signature of Owner, Remedial Party, or Designated Representative Rendering Certification

	EC CERTIFICATIONS
	Box 7 Professional Engineer Signature
I certify that all information in Boxe punishable as a Class "A" misdem	es 4 and 5 are true. I understand that a false statement made herein is eanor, pursuant to Section 210.45 of the Penal Law.
I Scott M. Smith print name	at <u>One Park Place, 300 South State St., Syracuse,</u> ,NY 13 print business address
am certifying as a Professional English List J. Signature of Professional Enginee Remedial Party, Rendering Certific	gineer for the <u>DASNY/New York State Office of Mental Health</u>





PERFORMANCE REPORT FOR THE MONTH OF March 2023

	DISPOSAL PI	LANT MONTHLY VOLU	ME OF SEWAGE	
DATE & TIME	TOTALIZE	DAILY AVERAGE	DAILY SUMP	SIGNATURE
2/28/23	136387297	332145	8550879.9	
2/20/20	100001411			
3/01/23	136635431	248134	8552837.6	S.C.
3/02/22	131897391	261960	8554599.9	JA
2/2/73	137728956	331565	8556453.7	++
24122	1270571127	478476	8558556.3	PF
21002	187873179	2561239	\$560624.5	JA
310103	138127054	213 385	8562490.8	JA
3/7/22	128407046	279 992	8564416.4	NO DE
2-0122	120127575	225529	856634303	pic
3/0/22	128023283	190708	85 6228.6	pp
3/10/23	139173847	200 564	3570151.1	KA-
3/11/23	139336888	113:041	8572070.5	UA
7/11/27	139388658	151770	8574030.3	PR
3/12/23	139443418	54,760	8575941.7	0.4
2/14/23	1395540.34	110.616	8578753.6	0
315123	139623370	69:336	8580172.4	CF
3/16/23	139762980	139,610	8587237.1	26
317123	139857720	94, 740	05044145	00
31823	139910017	52,297	0580 00.1	en.
2/10/23	139 992176	82157	8588064.8	Dn
200/23	140061831	69655	859 00 ZL. T	FIC
217173	140166305	104914	0591599	<u>nn</u>
3/22/23	140217134	50,329	0202781.7	00
32373	140242750	25,66	0575751.1	CD do
3124123	140289110	46,360	8509298.1	TA
20503	40341887	52,711	8012000	150
3126 23	140418919	11.034	060124114	TA
2197 193	140581145	152,226	8603131.6	JA
Olaria	11.00			
		1		
			CUMP DUMP TOTAL	
	MASS DISCHARGE	TOTAL AVERAGE	SUMPPOWPTOTAL	
			FOR THE MONTH	
TOTALS				
	DIV DV # OF DAVS			
	TON BY # OF DATO	READING:		
	FOR END OF MONTH			

PERFORMANCE REPORT FOR THE MONTH OF February 2023

	DISDOSAL	ANT MONTHLY VOLU	JME OF SEWAGE	
DATE & TIME	TOTALIZE	DAILY AVERAGE	DAILY SUMP	SIGNATURE
LIBI 02	179 120 1180	147 079	8495543.0	
12125	10 20 909	112011	alleg ter	
60101122	1002017011	171 095	8497812.3	and
02/01/62	120000000	F71 072	8500026.7	ap
02 02 23	120021851	226,013	8507306.4	CD
02103123	19386610	278,123	OF OULTER 3	TA
02/04/23	124835550	446,140	02011029	PN.
07 5 23	130096112	263366	9500F06.5	CP
0216123	130219650	122 930	0500500:3	NAT:
2/1/23	130502592	506,596	0010999.0	CD
218(23	130 482123	419531	82 11597 1	XD I
29123	3112 145	195644	0514512.07	CP.
210 23	131728820	601015	25105745	7.0
211123	131893700	164 880	8500400 E	JA'
2/12/25	132093836	100,150	057750117	10
21323	132283000	189,164	02/4204-1	140
2/14/23	132547479	76449	8224416.6	7.0
2/15/23	132918195	310,116	8228784.8	05
2/16/23	133223315	305,120	0560321.1	2.0
2117123	133564270	340:955	6530421.3	nd
218123	133852360	288,040	6532293.7	00-
2-19-23	134282800	435449	852607(2	TA
2-20-23	134.547830	266,02	202299934	1 de
7171173	134739757	192,421	650/100.1	70
2122123	135242600	502 843	0539937.1	00
2 73 23	135483880	241280	854 85401	C.F
2124122	135655665	171985	8543643.0	- AD
7175123	135813103	157238	8545422.5	Sto
2/0/22	135965851	152748	869 128.0	10
0 27 23	136 055 152	89,301	85991121	CF
2 70 57	136387297	332,145	8550879.9	-ter
4010-	100000	0001.0		
	MARC DISCHARGE	TOTAL AVERAGE	SUMP PUMP TOTAL	1
	MASS DISCHARGE	83771440	FOR THE MONTH	
TOTALS	8,266,808	00201771	55 326 9	
			05,000.1	
	DIV. BY # OF DAYS	DEADING		
	FOR END OF MONTH	1 707 110 44		
		27/2/7:10		

PERFORMANCE REPORT FOR THE MONTH OF JANUARY

	DISPOSAL PI	ANT MONTHLY VOLU	IME OF SEWAGE	
DATE O TIME	TOTALIZE	DAILY AVERAGE	DAILY SUMP	SIGNATURE
DATE & TIME	10 ALIZE	291. 874	8430370.6	CP
12/2/20	111080500	210,017	UTRU	0-0
101102	110277206	196 706	8432422.6	CP
1010	10 -010 75	220 509	8434521.6	C.P
102 23	11931013	16 2 501	84368733	pp.
1/03/25	119 188317	170 201	9438617.9	CP
1104123	12050011/3	1120 97.3	8440625.7	CP
105/23	20509965	429 252	849266493	PIL
166623	1209 38 113	1/1/29	844471812	PR
117123	-12125646	1286 656	8446778,6	JA
108/23	121343100	315 473	8448971.9	CP
109123	122120000	770477	8450835.7	100 F
1/10/25	122 201291	752.411	8452919.6	Cla
111143	102712666	331,495	8455.020.5	CR
114 63	122977011	264,960	8456953.9	CE
1113123	122160990	183,152	8458886.2	CP
114123	123649284	288-286	8460194.0	pr.
115103	102706320	277 046	8462794.8	CP
116/23	12111355	335,575	8464713.7	1 Ar
117123	124176225	364.370	8466872.2	<u>CF</u>
118 23	124652766	177641	8468664.9	CP
1117163	174.893800	240 534	8470411.8	XA
16163	125125800	232.000	8472902.6	CP
11.21123	125414180	338,330	8476056:3	JA
122123	125618533	154,353	84770867.1	CP
1123 62	125874479	255.946	2479227.1	17
1740	126193120	318641	8481443.5	Cl
125 23	126546180	353.060	8484063-5	CP
1126123	127101875	555.695	8486448.6	CP
1121123	177563400	461, 525	8488874.2	Cf
120122	12.7835832	272432	8491058.4	PIL .
129123	157978410	142578	8493436.9	<u> </u>
1130 23	12817048	142079	8495543.0	tet.
1131 10	100,00,00			
	MASS DISCHARGE	TOTAL AVERAGE	SUMP PUMP TOTAL	
	0039 009	9105081.4	FOR THE MONTH	
TOTALS	- 40 - 1,404	-//05 00101	65177.4	
			- our cont	
	THE PARTY OF DAVE			
	DIV. BY # OF DAYS	H READING:		
	FOR END OF MONT	1293,712,3	0	

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PERFORMANCE REPORT FOR THE MONTH OF December 2022

	DISPOSAL	PLANT MONTHLY VOL	UME OF SEWAGE	
DATE & TIME	TOTALIZE	DAILY AVERAGE	DAILY SUMP	SIGNATURE
11/30/22	16225775	56 417	8367601.9	CP
stri are jam	10000000			
12/01/22	116297008	56738	8369555.6	CP
12102122	116345910	63.902	8371418.6	CP
12/03/22	116398345	57,435	8373163.8	100
12/04/22	16455027	56 682	8375031.8	JA
12/05/22	116503695	48168	\$2769,8,8	on
12 6 77	116560463	56768	8378714.9	A
1217172	116616 720	56 257	8380944.1	CP
1210 22	116684084	67.364	8383009.5	CP
1219122	116754215	70:131	8384884.6	CD
12/10/22	116831755	77.540	8386832.1	CD
12/11/22	116893810	62.055	8388739.9	C D
12/12/22	116920334	26.524	8390571.9	TA
17 13 77-	117189110	768776	8397433.6	NA.
12114122	117302535	113:425	8394441,2	CP
12/15/22	117383485	80,950	8396353.6	CP
12+16122	117494949	111.464	8398497.2	CP
12117122	117648840	153.891	8400989.6	CP
12/18/22	117702113	53 273	8402882.4	UA
12/19/22	117728427	26:314	8404978.7	CP
12/20/22	117859533	131106	840687913	RIL.
12/21/22	117891980	32,447	8408930.8	CP
2 22 22	117962092	70,112	8410926.5	CP
12/23/22	118127805	165,713	8413291.7	CD
12/24/22	115050010	120/112	8111021-	del
12 25 22	18258218	130 413	8419311.5	SE
12/26/22	118329070	70,052	8420403.1	SP
12-20-22	118 386594	57524	8421993.8	RA
12 28 22	118 > 44 720	120,120	842424.0	Sh
12 29 22	110632105	100,063	012020011	<u>CP</u>
12/30/22	18183106	120,921	0420203.4	Th
23122	119080580	296, 814	0120210.6	CP
		1		
	MASS DISCHARGE	TOTAL AVERAGE	SUMP PUMP TOTAL	
TOTALS	2798 572	2855 310	FOR THE MONTH	
			6085	
	DIV. BY # OF DAYS			
	FOR END OF MONTH	READING:		
		42,106.77		

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PERFORMANCE REPORT FOR THE MONTH OF October

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	DISDOGAL DI	ANT MONTHLY VOLU	IME OF SEWAGE	
DATE & TIME	TOTALIZE	DAILY AVERAGE	DAILY SUMP	SIGNATURE
DATE & TIME	1127/2052	64 927	0272453.9	CP
9120100	112163856	67,636	BLILISSA	
101122	112077555	50 703	8773979.6	CP
10/1/22	12070735		8275460.1	CP
10 2 66	112012133	50,100	82768202	PR
10/3/100	113966881	30156	87724(90	A
1014 20	14004010	57945	9277320	CP
1015122	14001302	07 502	82,77760	CP
10/6/14	1141214618	601.03	8784274.6	CP
1812125	119 219000	27978	8286070.4	CP
10/0/22	111250122	16'690	8787784.9	CP
1017126	1465 22	141.48	8289389.5	pn
10110100	114302076	78 795	8791108.3	KE
10112122	114350750	56.674	8292897.7	CP
10112127	1100747.90	65.540	8294620.9	CP
10/10/22	114481607	57.317	8296461.9	CP
10119100	119510755	20.648	8298170,5	pre.
20-16-22	114536150	25895	8799498=9	pn
10-17-22	114545974	. 9824	829973910	pn
10/18/77	114573762	27,788	8299739.0	Net
10/19/22	114618335	44'573	8299739.0	<u>ce</u>
10/20122	114678030	59,695	8299739.0	CP
10/21/22	114713322	35,292	8244 134.0	CR
10/22/22	114730262	16,440	8300060.4	56
10:23:72	114739222	8,960	8301364.4	<u>C</u> P
10/24/22	114748534	9312	8303086.4	Pre
10/25/27	114764842	16,308	83048050	the state
10126122	114782247	1,405	0306/10.6	CP
10127122	114802960	70,713	0308461.6	St
10/28/22	114845325	42,365	8310100.0	88
10/29/22	14882200	26,755	0712//12	An I
10/30/22	114928405	46,145	0313661.3	Sv1
10.31-22	114978736	50 551	821222111	pre
		1		
	MASS DISCHARGE	TOTAL AVERAGE	SUMP PUMP TOTAL	
	115(-191	17.14884	FOR THE MONTH	
TOTALS	1130101	1-1-001	41.252.1	
	DIV BY # OF DAYS			
	FOR END OF MONTH	READING:		and the second s
		34,184,81		

PERFORMANCE REPORT FOR THE MONTH OF \_\_\_\_ 1

	DISPOSAL	PLANT MONTHLY VOL	UME OF SEWAGE	
DATE & TIME	TOTALIZE	DAILY AVERAGE	DAILY SUMP	SIGNATURE
DATEQTIVE	111/07072/		8315731.7	
10/3/77	117710126	2	0010001	
1.1.1.27	115071777	57 Sill	8316944.7	A
LILLCO	112021411	FALALS	82 86652	CP
11222	115084342	23,000	030362.0	CP
1/3/22	115115/72	31,730	0202177 4	00
11422	115142802	1,030	02038028	00
115122	115158329	13:165	07255137	26
11622	115172687	14,120	02233032	TA
11/7/22	115183407	10:720	822 8848 4	TA
11/8/22	115215203	31,196	8720073.1	JA
11/09/22	115269644	54 441	03505344	TA
11/10/22	115316 026	48,382	0022800 0	TA
11/11/22	115 339 682	15,636	8122077.8	0.0
111222	115375565	35,08,2	02275/02.1	26
11/13/22	11541164	55,514	0 22 1266.2	TA
11/14/22	115 455091	43,421	8,301,484,5	JA
11/15/22	115 48 877	26, 186	7,408,415.5	TA
11/16/22	115522595	40,718	8,440,743.2	450
11/17/22	115568255	45,660	D.244,104.6	75
1118 22	11560632	38,066	0.346.400.0	EA
11/19/22	115628219	21, 898	8,5 8,586.0	0-00
11/20/22	115651822	23663	8349561.6	0.0
1/21/22	115694433	42611	032101216	PYL
55 25111	115760373	65 940	5222561.0	TA
11/23/22	115839604	79:236	025(0750	UA
11/24/22	115913218	13,669	0356915.9	CP
11/25/72	115973246	59,968	0750691-0	
11/26/22	16028875	55,629	8360453.0	JA
11/27/22	116070441	41566	8362216.5	Pri-
1128 22	116112857	4=2416	8363996.1	pn
11/29/22	11616885.3	5,099.6	0365161.7	tot _
11136722	116225270	56,417	8361601.7	CP
	MASS DISCHARGE	TOTAL AVERAGE	SUMP PUMP TOTAL	
TOTALS	1193993	246534	FOR THE MONTH	
IOTALO			50.657.2	
	DIV. BY # OF DAYS	DEADING:		
	FOR END OF MONTH	TH SEL 12		

PERFORMANCE REPORT FOR THE MONTH OF September

	DISPOSAL	PLANT MONTHLY VOL	UME OF SEWAGE	
DATE & TIME	TOTALIZE	DAILY AVERAGE	DAILY SUMP	SIGNATURE
8 31 22	11210130	82, 298	8224991.3	CD
01211-5	1-110 30	ULJ LIU	02011110	
911/22	1127 15678	105548	8226401.9	CP
912/22	112 296414	79736	8227793.8	DK
11-1	ried is 114	111.20		
9/4/77	117412046	58316	82306183	PR.
4 4 1 2 2	112048039	37 993	0-2320458	PN
9 6 52	117513476	68 437	8733515.4	Not.
917122	117565103	51627	8235378.5	CP
918122	112612815	47,712	8236972.3	CP
919127	112731920	119.105	8738553.6	05
9110122	112823285	91:365	8240079.7	CD
9/11/22	112909712	86.427	896 108-59	CP
9/12/22	112,982 895	73183	8243262,9	PR
9/13/27	113020329	37.434	18244964.8	KA .
9114 22	113091680	71,351	8246702.6	H.
9115122	113197815	106 135	8248433.1	Cl
9/16/22	113263367	65,552	8250027.2	CP
9117/22	113284237	20,870	825 678.1	CP
9118/22	113305228	20,991	8253299.9	CP
9-19-22	113327272	22644	8264827.1	pn.
9/20/22	113:350376	25,104	8756409.7	HT.
92122	113371105	20,129	8258095.4	<u></u>
9/22/22	113396800	23695	8259642,1	pn
9/23/22	113:429151	32350	8261280.1	pn
9/24/22	113444094	14944	DCGCBCS.G	A
9-25-22	113460872	29778	0464399.4	PIL
9/26-22	113504002	55150	8266009.4	FYL
9/27/22	11000190	92'000	0769792 7	15
92822	113632230	67370	927092277	CD
9/29/22	1130 11020	64 232	02724520	CÓ
4/30/22	113103000	0 19 200	0612021	CP
		1		
	MASS DISCHARGE	TOTAL AVERAGE	SUMP PUMP TOTAL	
TOTALS	1548174	1653722	FOR THE MONTH	
			46052	
	DIV. BY # OF DAYS			
	FOR END OF MONTH	READING:		
		55 174 07		

PERFORMANCE REPORT FOR THE MONTH OF

2925T2022 4

	DISPOSAL P	LANT MONTHLY VOLU	JME OF SEWAGE	
DATE & TIME	TOTALIZE	DAILY AVERAGE	DAILY SUMP	SIGNATURE
DATE & TIME	110/11204	52694	8178588,3	7.1
9-31-66	110614 551	71821	81800425	pn.
8-1-12	110646105	34 031	BIB1617.8	10th
87727	1060000	610108	8183259,2	por
83120	110799349	7,094	878 4819.9	pn.
814/22	110816513	1171	8186391.7	2
85177_	11091664	100,109	8187971.7	7,
8/6/22	110966609	6226	e1895062	pn.
8/2122	110991240	15034	6,90998,0	PR
819122	111009124	12481	of le clean	
	LILLO COOA		\$ 94078.9	CP
01022	11106660	EGRUT	819 5600.5	CP
8/11/22	11100524	51016	8197050.2	CP
8/12/22	1121108	10.600	8198566.8	CP
813124	11266865	111 727	8200030.4	CD
8/14/22	11201591	24,134	0221517.3	Pray.
81/15/22	11 340073	38 4 6	8707953.9	Not '
8/16/22	111416886	16.000	9204483.4	Pa
8/17/22	111493619	16 001	82655356	PR
8/18/22	111536604	469072	82074781	S.C.
8119/22	111603610	1.1 Jogi	8208879.4	00
8/2022	11 366 261	1.92230	821034.5	TO .
8/21/22	11.1958 805	754413	8211833.0	SC.
8/22/22	11 112218	69 853	8713759.3	100
8 23 22	1171301	14/299	8214817.4	CP
8124122	111/0/359	17 241	8216282.6	CP
8 25 22	11007100	40/654	8217745.2	Ce
8/26/22	110503.00	100 284	8219177.3	CP
8/27/22	11900100	6969	87.20601.8	CP
8/28/22	11965101	JA 153	8222051.2	CP
8/29/22	11200 1060	10977	8773457.9	A
8/30/27	112110120	87,298	8224991.3	CP
8 31 22	112110130			1
		TOTAL AVERAGE	SUMP PUMP TOTAL	
	MASS DISCHARGE	1495746	FOR THE MONTH	
TOTALS	1463,425	112110	46,403	
	/ *		10,105	
	DIV. BY # OF DAYS			
	FOR END OF MONTH	READING:		
		49,000.2		

PERFORMANCE REPORT FOR THE MONTH OF

July 2022

	DISPOSAL F	PLANT MONTHLY VOL	UME OF SEWAGE	
DATE & TIME	TOTALIZE	DAILY AVERAGE	DAILY SUMP	SIGNATURE
6 30 22	108736202	50 522	8126433.9	CP
711127	102200825	64.623	8128253.8	C.P
712172	108 867330	61.505	8130045.1	CP
7/3/22	108 917 12	9 49,799	RI3 178710	PR
7/4/22	108950445	38316	813 352/0.5	pn
715122	108986995	36.550	8135257.6	
76722	09055095	68,100	8137023.8	CP
717122	109127465	72,370	8 38728.6	CP
7872	109714864	87,399	8140405.7	CL
79122	109288450	73,586	8142091.6	CP
7/10/22	109323072	34,622	8143797.7	CP
7/11/22	109355462	22390	814541415	Pn
7/12/22	109405836	58,374	8147032.3	1 F
71322	104468066	62,130	8148745-8	Cf
7114/22	109530328	62.702	0150341.6	Ch
112126	109514960	64632	0122/272	ab
-119155	10901061	183,619	01536514	C D
11166	109102595	82628	81/18/14	Dat
7/10/22	109978051	10966	2152777.0	P.G.
7120122	110050710	77,159	8160567.7	CP
12122	110132540	\$2:330	8162228.1	Cl
122/22	110184065	51,525	816 3932.5	CP
7123 72	110274171	90,106	8165536,3	1
7 24122	110315262	41:091	8167310.6	CP
7/25/22	110339672	24410	5168909.9	pn
7/26/22	11038588.2	46210	8170521.4	tes
7 27/22	11040 1103	21,821	8172206.3	CP
7128/22	110 4 28985	1782	01752020	Cit
712122	110511690	63,00	81720752	N.H.
130122	110211204	83,240	0178500.3	0.b
131166	110 101901	24,017	0110300.3	CP
	MASS DISCHARGE	TOTAL AVERAGE	SUMP PUMP TOTAL	
TOTALS	1878182	60 586	FOR THE MONTH	
IUTALO	1919100	00,000	52 1549	
	DIV BY # OF DAVE			
	FOR END OF MONTH	READING:		
	I OIL LID OF MORTH			

DISPOSAL READINGS.XLS

PERFORMANCE REPORT FOR THE MONTH OF June, 2022

DISPOSAL PLANT MONTHLY VOLUME OF SEWAGE DATE & TIME DAILY AVERAGE DAILY SUMP SIGNATURE TOTALIZE 5/31/27 06803179 93,190 80669012.8 14,975 106,879 106,537 79,925 83,102 22 1 P B071178.5 21 07024433 6 Ô 3 22 107130965 8073535.8 6 8075585. 9 41 22 7 07210890 (O 151 107293992 8077645. Ý 22 6-22 80796479 DN 70780 107 364772 8081677.5 8083676.5 8085427,1 7/27 107425945 61,173 54,955 64,217 . P sc 8/22 107545117 1 70471 110/22 107615588 808 7770.8 n 8089687,8 80916724 -11-22 107685600 n Ø n -12.22 3982 107749583 6 64170 56784 70,127 44,983 31,804 D 13-22 107818753 809 3741.4 n 8097841.3 8097841.3 8099839.8 07875537 14/77 15/22 0 107990647 16/22 CP det 8101844. 171 22 08022451 08065874 9 61 8103955. 8105754. 8107683. 618127 12, 815 815 19122 08108689 CP 40.982 0 1 6 8 1 49 671 108 21 20 20 108 27 4 5 37 108 32 3 4 39 109 37 16 35 20/22 PR 6 62,399 6/21/27 8109604 811364.8 8113436.4 8115325. 8117211-8 6 22 22 T 3 D 48,196 24/22 V 6 67.396 25 22 108416704 ā 6 8 08484100 122 811 9119 10 127 22 28 22 29 22 8120908. 8122768. 8124625. 8126433 108537029 108617568 108685680 108736202 929 539 52 D 68. G 0 527 30/22 50 TOTAL AVERAGE MASS DISCHARGE SUMP PUMP TOTAL 1933,073 818 598 20 1. FOR THE MONTH TOTALS 57,421.1 DIV. BY # OF DAYS FOR END OF MONTH READING: 64 435.17

PERFORMANCE REPORT FOR THE MONTH OF

THE MONTH OF May 2022

	DISPOSAL PLANT MONTHLY VOLUME OF SEWAGE				
DATE & TIME	TOTALIZE	DAILY AVERAGE	DAILY SUMP	SIGNATURE	
4 30 22	102337500	93855	8006407.3	CP	
5122	102398260	60760	8008283.9	CP	
5/2/22	102462707	64447	8010208:3	pn	
5 3 77	102532808	70101	8012181.3	A	
5/4/22	102-613370	60562	8014090.2	Piz-	
5 5 22	102680458	67088	8015969.3	A	
5622	102773555	93.097	8017966-5	CP	
57122	102886862	113307	8020038-1	CP	
518/22	102998220	111358	8022195.7	CP :	
5/9/22	103079031	80811	8024145,0	PR.	
5/10/72	103179224	71293	2026060.Z	A	
2111122	103267458	88234	8028036.7	Cl	
5112122	103328344	60891	8024489.8	Ch	
5113122	103387207	58,858	8031908.9	CP	
2114/22	103401332	14,145	8033764.3	CP	
5115 22	103521604	60:332	8035629.3	CP	
5/16/22	103580125	58461	8037537.9	Ph	
FURIOR	103660515		2039454.C	- tet	
210122	102 808/112	12.845	0041404.1	CE	
P19166	10 2000042	01/70	8043/60.9	- CP	
5121/22	103900312	41,010	8043281.2	Gr	
21000	I PUOLUZZE	77541	24714.6 Sin 160 50 0	20	
2 102 122	104 27 2846	257671	80509711	PIL	
4173177	104403885	81 829	80578749	The.	
5125122	104537470	1331595	8754798 7	00	
5126177	105299900	762.430	8056694.7	- AD	
507107	105 891870	591970	ONCR 499 4	10	
3 7 9 55	106 460440	268.570	8060598.0	65	
5170122	106614534	154 094	8062885 8	00	
5120192	106709939	95 405	8064960 5	65	
5171172	106803179	93190	80669567		
- Aprile	- 100 cm - 10-1	14.00	- Contraction		
	MASS DISCHARGE	TOTAL AVERAGE	SUMP PUMP TOTAL		
TOTALO	In the Dieder atom		FOR THE MONTH		
TOTALS			TOR THE MONTH		
1	DIV. BY # OF DAYS				
	FOR END OF MONTH	READING:			

Y

PERFORMANCE REPORT FOR THE MONTH OF April 2022

	DISPOSAL PI	ANT MONTHLY VOLU	ME OF SEWAGE	
DATE & TIME	TOTALIZE	DAILY AVERAGE	DAILY SUMP	SIGNATURE
3/31/22	99327155	106 210	7942627.4	C.Q
	102 100	100/610	1110001.1	- OF
4122	99417479	90.374	7945531.8	C.P
412 72	99516500	99021	7947475.1	VA :
413/22	99594875	78375	79493394	PR
4-4-22	99671300	76428	795,100,0	BN
4/5/22	99759222	87.977	79530477	1 th
416122	99851582	92 360	7954962.8	CP
417122	99951812	100,230	1956980.6	CP
418 72	100 210392	258,580	7959752.9	CP
419122	100318860	108,468	7962170.3	Cl
4/10/22	100414320	95,460	796:4479.6	CP
4-11-22	100 901411	87091	7966721,7	P.O.
4/12/22	100594926	93.515	7968874.2	12
4/13/22	100 696750	101,824	7971097.4	CP
4/14/22	100 791453	94,703	7973204.1	CP
4115122	100883422	91,969	7975311.9	C.P.
4/16/22	100968176	84,754	7977342.4	CP
4/17/22	101051638	\$3462	7979349,9	pri.
4118122	101130472	78834	7981398.3	pn.
4-19-22	101271436	140964	7983708.7	pn.
4 20 22	101.392380	120,944	7986040.5	CP.
42122	101441080	98,700	7988218.8	$C\mathcal{P}$
4122122	101 588983	97,903	7990341.8	CP
4 23 22	101 086950	97.961	7992353.2	CP
4124122	101770400	83,450	7994515,8	CP
4125 22	101842509	72109	7996482.4	PR
4/26/22	101948875	106,366	7998454.0	HR.
427/22	102050080	101,205	8000516.3	NA
4 28 22	102148000	97,920	8002476.2	CP
4129122	102243645	95.645	8004392.3	CP
4 30 22	192337500	93:855	800 6407.3	CO
				-(
		1		
	MASS DISCHARGE	TOTAL AVERAGE	SUMP PUMP TOTAL	
OTALS 30	2920 021	3010345	FOR THE MONTH	1
		1	60.875.5	
	DIV. BY # OF DAYS	*		
	FOR END OF MONTH	READING:		
		100, 344.83		

PERFORMANCE REPORT FOR THE MONTH OF MARCH 2022

	DISPOSAL	PLANT MONTHLY VO	LUME OF SEWAGE	
DATE & TIME	TOTALIZE	DAILY AVERAGE	DAILY SUMP	SIGNATURE
2178/22	96584467	62,234	7886879.6	
211				
3/1/22	96665778	8.31	7888705.7	2.0
3222	76161768	95,990	7890605.8	CB
3322	16854360	92:592	1892437.0	CP
-314/22	96949615	95315	1894255.9	CP
2/5/22	97042597	42,922	789 6024.9	A.D.
316122	9711533	2. 12736	7897822.8	PR
JIIda	91186593	11260	1899631.4	1.0, 1
5077	97781807	95714	1901414.2	No house
31112	91300110	90,363	1903221.6	CP
310122	97503	104,222	1905 131.8	20
312102	1124401	104,011	406180.4	26
2112/22	9160406	00,400	1908621.2	an
3/14/22	025117/14	66,000	110143.1	en :
316127	9793891	3 91 2415	791264	FIL
2116122	99022777	02761	70162402	CO
2117122	98122500	001772	1918 069.1	<u>c</u> b
3118122	98213620	91,120	79199 27.0	60
3 19122	98293109	19.489	7921708.8	60
3120/22	98365961	77,852	7923690.3	100
3121122	98433955	67:994	7925345.2	PR
3177127	98520006	86.051	7977137.6	A
3123122	98608135	88,129	7928892.7	CP
3124122	98697010	88,875	7930725.8	CP.
3125122	98796157	99,147	7932636.9	CP .
3126122	98885960	89,803	7934490-7	CP
3127122	98965336	79,376	7936338.6	CP
3/28/22	99 035488	70152	7938151.6	pn
3 29/22	99126408.	90,920	7939925.6	-
330 22	49220945	94,537	7941752.8	CP
3 31/22	99321155	106,210	1993627.9	CP
		)		1
	MASS DISCHARGE	TOTAL AVERAGE	SUMP PUMP TOTAL	
TOTALS 3	2661.377	2742,688	FOR THE MONTH	
	-jest je i	1. 1.	54,921.7	
	DIV. BY # OF DAYS	4		
	FOR END OF MONTH	READING:		
		800 4 15.8		



PERFORMANCE REPORT FOR THE MONTH OF FEBRUARY 2022

$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	IE OF SEWAGE	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	JRE	
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02       07       72.2       94       05       07       784       737.6       CP         02       08       7.2       94       17642       119       739       784       785 </td <td></td>		
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2/16/22       95703025       90,475       7868047.8       CP         2/19/22       95796922       93,897       1870061.6       CP         2/20/22       95880340       63,418       7871917.1       CP         2/20/22       95880340       63,418       7875522       Ph         2/20/22       95880340       63,418       7875522       Ph         2/20/22       9595207       74967       79738.2       Ph         2/21/22       96135942       101,222       795542.1       EF         2/23/22       96135942       101,222       7875542.1       EF         2/23/22       96135942       101,222       78739.2       Ph         2/25/22       964329069       97,17       7879349.4       CP         2/25/22       96452593       123,524       7883150.8       CP         2/26/22       96452593       123,524       78830.8       CP         2/26/22       964522593       123,524       7885031.8       CP         2/26/22       964522733       64,640       7885031.8       CP         2/27/22       96584467       640       7885031.8       CP         2/28/303       96584467       643,234 <td>-i</td>	-i	
2119122       95796922       93,897       1870061.6       CP         2120122       95880340       93,418       1871917.1       CP         2-2122       95880340       93,418       1871917.1       CP         2-2122       95880340       93,418       1871917.1       CP         2-2122       96034726       79,513       1875542.1       44         2123122       96135942       101,222       787786.3       CP         2123122       96231359       95,417       7879349.4       CP         212522       96231359       95,417       7883150.8       CP         212522       96329069       97,710       7883150.8       CP         212522       96452593       123,524       7883150.8       CP         212522       96452293       123,524       7883150.8       CP         212622       96452293       123,524       7883150.8       CP         21212       96524467       640       7885031.8       CP         2124       92       96524467       63,334       7886579.6       P         2138       92       96584467       63,334       7886879.6       P         2138       92		
2120122       95880340       83,418       7871917.1       CP         2-2122       95227       74967       3738.2       Ph         2122/22       96034726       79513       7875542.1       Mag         2123/22       96135942       101/222       78775542.1       Mag         2123/22       96135942       101/222       7877349.4       CP         2123/22       96231359       95,417       7879349.4       CP         2125       92       96329069       97,710       7879349.4       CP         2125       92       96329069       97,710       7883150.8       CP         2125       92       96522233       6964640       7883150.8       CP         2172122       96522233       6964640       7885031.8       CP         2172122       96522233       6964640       7885031.8       CP         2128       32       96584467       637342       78868791.6       MAS         2138       32       96584467       637342       78868791.6       MA         2138       32       96584467       637342       78868791.6       MA         2138       32       96584467       637342       7866		
1       1		
1/22/22       96034726       79513       1875342.1       147         2/23/22       96135942       101/222       7877486.3       CP         2/24/22       96231359       95,417       7879349.4       CP         2/25/22       96231359       95,417       7879349.4       CP         2/25/22       96231359       95,417       7879349.4       CP         2/25/22       96452593       123,524       7883150.8       CP         2/26/22       964522733       69,640       7885031.8       CP         2/26/22       964522733       69,640       7885031.8       CP         2/26/22       96524467       63,324       7885031.8       CP         2/26/22       96524467       63,324       7885031.8       CP         2/28/23       96584467       63,334       7885031.8       CP         2/28/23       96584467       63,334       7886879.6       MASS0879.6       MASS0879.6         MASS DISCHARGE       TOTAL AVERAGE       SUMP PUMP TOTAL		
2 23 22       46/35442       101,222       7817486.3       CF         2 24 22       96231359       95,417       7879349.4       CP         2 25 22       96329069       97,710       788150.8       CP         2 26 22       96452593       123,524       7883150.8       CP         2 26 22       96452593       123,524       7883150.8       CP         2 26 22       964522233       69,640       7895031.8       CP         2 28 22       96584467       62,233       69,640       7895031.8       CP         2 28 22       96584467       62,334       7885031.8       CP         2 29       96584467       62,334       78868791.6       N+         2       96584467       62,324       78668791.6       N+         2       96,5844.57	_	
2       24       22       96       23       354       95       917       187       344.9       CF         2       22       96       329069       97       710       7883150.8       CP         2       122       96       95       92       7883150.8       CP         2       122       96       95       92       7883150.8       CP         2       122       96       95       92       7883150.8       CP         2       122       96	_	
2175       22       96324064       91,710       1881211.8       CP         2126       22       96452593       123,524       7883150.8       CP         2171       965222.33       64,640       7895031.8       CP         2138       99       96584467       63,334       7886879.6       DP         2138       99       99       99       0       0       0       0         2138       99       99       99       0       0       0       0       0         2138       99       99       99       99       0       0       0       0       0         2139       99 <t< td=""><td>+</td></t<>	+	
2126122       G6952593       123,529       7683150,8       CP         212122       965222233       6964640       7885031.8       CP         2128122       96584467       62,234       7886879.6       NP         212812       96584167       62,234       7886879.6       NP         212812       96584167       62,234       7886879.6       NP         21281       96584167       96767       96767       NP         21281       97677       92,291       FOR THE MONTH       NP		
2127122 965222433 109,840 1885031.0 CF 2128133 93 96584467 62,234 7886879.6 か A 28133 93 96584467 62,234 7886879.6 か MASS DISCHARGE TOTAL AVERAGE SUMP PUMP TOTAL TOTALS 2,584.157 92,291 FOR THE MONTH	1	
Alagias       46584461       68.834       185651416       104         MASS DISCHARGE       TOTAL AVERAGE       SUMP PUMP TOTAL	-1	
MASS DISCHARGE TOTAL AVERAGE SUMP PUMP TOTAL TOTALS 2,584,157 92,291 FOR THE MONTH	_	
MASS DISCHARGE TOTAL AVERAGE SUMP PUMP TOTAL TOTALS 2,584,157 92,29) FOR THE MONTH		
MASS DISCHARGE     TOTAL AVERAGE     SUMP PUMP TOTAL       TOTALS     2,584,157     92,291     FOR THE MONTH	-	
MASS DISCHARGE     TOTAL AVERAGE     SUMP PUMP TOTAL       TOTALS     2,584,157     92,29)     FOR THE MONTH	1	
MASS DISCHARGE     TOTAL AVERAGE     SUMP PUMP TOTAL       TOTALS     2,584,157     92,291     FOR THE MONTH	1	
MASS DISCHARGE     TOTAL AVERAGE     SUMP PUMP TOTAL       TOTALS     2,584,157     92,291     FOR THE MONTH		
MASS DISCHARGE     TOTAL AVERAGE     SUMP PUMP TOTAL       TOTALS     2,584,157     92,291     FOR THE MONTH	1	
TOTALS 2,584,157 92,291 FOR THE MONTH	1	
TOTALS	i	
61.135.11		



## PERFORMANCE REPORT FOR THE MONTH OF JANUARY 2022

4	DISPOSAL P	LANT MONTHLY VOL	UME OF SEWAGE	
DATE & TIME	TOTALIZE	DAILY AVERAGE	DAILY SUMP	SIGNATURE
1/1/22	91394457	65,764	7781312,8	Hen Au
1/2/22	91465875	71.418,	7852730,8	D. Hayen
1/3/22	91519453	53.578	7784881.3	101
114122	91611668	92,215	7786585.2	10p
115122	91697852	86.184	7788279.5	10P
16122.	91790762	92,910	7789989.3	jQP
17122	91872438	81.676	7791679.6	D.P
118/22	91954429	81991	7793369,8	pr.
1 7/22	92025017	70588	779502.40	fr.
1/10/22	92094482	69.465	7796,749,9	DP
1/11/22	92186748	92,266	7798438.9	9.0
1112122	92280043	93,295	7800113.8	<u>A</u> QA
113122	92374045	94.002	780176017	NP
114122	92481635	107.590	7803445.0	10p
1115122	92555679	74044	780508519	PR
1/16/22	92619666	639871	7806754.9	PN.
1117/22	92728406	108 740	7808665.1	PP
1/18/72	928 0955	82,549	7891714.	Et.
119122	92401130	40,115	7812436.0	00
130133	92989214	88.084	1814340.8	10P
12122	93083230	94,016	1816280.1	CP
122 22	93174354	91124	1818161.8	Not 1
1/23/22	93242555	68001	18199161	AD
1124122	93320415	18060	70225011	65
125/22	93411580	91165	18235961	00
12622	93503590	92010	707715115	Co
12726	12291001	60925	18/00007	CP AP
1/28/22	736000-44	87861	7820692 (	<u>Cr</u>
1/24/22	93110613	11801	7837770 0	RO
130/02	02005000	2/9/2	7834000.3	C.P
1/31/66		50199	100 1000-2	
		,		
	MASS DISCHARGE	TOTAL AVERAGE	SUMP PUMP TOTAL	10-70-1
TOTALS	2.501,042	80,679	FOR THE MONTH	52,715,5
	DIV. BY # OF DAYS		•	
	FOR END OF MONTH	READING:		

PERFORMANCE REPORT FOR THE MONTH OF

Dec 1-2021

	DISPOSAL PLANT MONTHLY VOLUME OF SEWAGE			
DATE & TIME	TOTALIZE	DAILY AVERAGE	DAILY SUMP	SIGNATURE
12-1-21	891213002	74254	772.7782.05	pn
12-2-21	89 194298	72996	77290573.2	pu.
12-3-21	89263811	69513	7731383.9	DK
12421	89 3319,27	68 116	773317.8	JD
12/5/21	89355820	23893	7734987,6	pn.
12/6/21	89455881	100 061	7736775,9	pR.
12-7-21	89522420	66539	7738596,7	PR.
12-8-21	89612926	90506	77403511	pa
12-9-21	89/94817	81891	7742148,3	pa
12/10/21	\$9790193	95276	774.3926,7	50
12/11/21	89876692	86 499	7745683.9	AD.
12/12/21	89930716	54024	1147439,1	SC.
12/13/21	89990691	59975	21 217 4753 13	Por-
12/14/21	9006504	75813	77508504	PAC
12/15/21	90164055	91551	776/603.3	PIL
12/16/21	90240314	16259	77510150	SC
12/1/2/	90301306	27/172	775-777.0	<u>A'A</u>
12/18/21	90322,185	22,979	7769112/1	TO.
12/19/21	40 348, 515	19,810	73/436.1	- AN
12/20/2021	90399,909	40.87	1012122	
13/21/2021	90459000	15 119	1600013	a) A
12/22/2021	90090250	8,5001	77667953	104
10/00/1000	900 345,2	00775	7767961.7	DP
12/27/2021	00848343	91/3/6	76695986	CC
12/25/2	90936019	87676	77713087	50
12/20/21	Q1022521	91511	17730775	D.P.
Jona doa	610991.01	101-151	274641.2	11/10/
12 28 2021	9101102002	02 Up/	77762549	TU
12/20/2021	4/102001	38 156	1118/210,4	100
121212021	41278693	58,450	17779662.7	00
101.5 12021		20100		
				į.
	MASS DISCHARGE	10 AL AVERAGE	FOR THE MONTH	
TOTALS	0,001.541	11006	FOR THE WONTH	
			51,880,2	
	DIV. BY # OF DAYS			
	FOR END OF MONTH	READING:		

## PERFORMANCE REPORT FOR THE MONTH OF NOV. - 2021

	PROPAGAL DI ANT MONTHE VIOLUNE OF AFRICAS			
	DISPOSAL PL	ANT MONTHLY VOLU	WE OF SEWAGE	NONATURE
DATE & TIME	TOTALIZE	DAILY AVERAGE	DAILY SUMP	SIGNATURE
11/1/21	87178597	96972:	16704264	PVL
11/2121	\$7.299.593	120 950.	7672619.2	pn
11/3/21	87,393,150	93,557	f, 674, 538-5	al.
11/4/21	87,495,000	101,856	7,676,545.4	el.
11/5/21	87,603,675	108,675 .	7,678, 545.1	ee.
11/6/21	87,729,275	125,600 .	7,680,512,1	DU.
11/7/21	87,789,000	59,725 .	7,682,562.2	e e
118/21	87848750	59750 .	7684476,7	pn.
1119/21	87896513	47763 .	7686405,0	pr.
1/10/21	87948278	51765 .	7688303.2	pn
11/11/21	88034934	86656 .	7690186.9	DK
11/12/21	88143339	108405	7692011.7	O.A.
11/13/21	88 182 690	39.351 .	769 4076.0	TD
11/14/21	88221113	38423 .	7:69 6078,6	p.R.
11/15/21	88244 806	23693 .	769 8017,8	pr.
11/16/22	88285020	40214 .	76999234	PR
11/17/21	81357830	72810 .	7701800.8	pn
11/18/21	88428092	70262 .	7703710,3	Pn
11119/21	88481285	53193 .	7705577.3	pn.
11/20121	88 542 582	61297.	7707462.6	pri
112121	88 574729	32147.	770955900	Pn
11/22/21	88.625943	51214	7711256.0	. 22
1123/21	88639257	13314 .	7713081.5	on
11/24/2.	88 6971 753	58496.	771489514	Pn.
11/25/21	88766788	69035.	7716754.2	pn
1126121	88836538	697570.	7718598,7	Pn
11/27/21	88925999	89461 .	7720505.9	(30)
1128/21	88943057	17058	77723342	PR.
11/20/21	88989108	46051	7724140,1	Pn
11/20/24	89 047048	5-940	77.59751	Ph-
	MASS DISCHARGE	TOTAL AVERAGE	SUMP PUMP TOTAL	
TOTALS	1868451	65513.	FOR THE MONTH	
	1		55553.7	
	DIV. BY # OF DAYS			
	FOR END OF MONTH	READING:		

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