

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Remedial Bureau A

625 Broadway, 12th Floor, Albany, NY 12233-7015

P: (518) 402-9625 | F: (518) 402-9627

www.dec.ny.gov

March 12, 2020

Mr. Terry Young
ARCADIS of New York
One Lincoln Center, Suite 300
110 West Fayette Street
Syracuse, New York 13202

Re: SPDES Permit Equivalent Application
Red Hook 3 – NYSDEC Brownfield Site #C224213
68 and 100 Ferris Street/242 and 300 Coffey Street,
Brooklyn, NY 11231

Dear Mr. Young

In response to ARCADIS' January 22nd, 2020 request, enclosed is the New York State Department of Environmental Conservation's SPDES (State Pollutant Discharge Elimination System) permit equivalent for water discharges relating to remedial construction and groundwater treatment at the subject site. If you have any questions, feel free to contact me at 518-402-0163 or at chris.heller@dec.ny.gov.

Sincerely,



Chris Heller
Project manager
Remedial Bureau A
Division of Environmental Remediation

Ecc: C. Geraci, ARCADIS
R. DeCandia, NYSDEC
R. Mustico, NYSDEC
J. O'Connell, NYSDEC Region 2

MEMORANDUM

TO: Chris Heller, DER
THROUGH: Donald Canestrari, DOW
SUBJECT: Red Hook 3 – DER Site No. C224213
DRAINAGE BASIN: 17 (Atlantic Ocean – Long Island Sound)
DATE: 3/12/2020

In response to the request of January 22, 2020 I have attached the renewed of SPDES Permit Equivalent for discharges from the construction discharges project site located at Red Hook 3 Site, DER No. C224213,

The DOW does not have any regulatory authority over a discharge from a State, PRP, or Federal Superfund Site. DER will be responsible for ensuring compliance with the attached effluent limitations and monitoring requirements, and approval of all engineering submissions. Additional Conditions No. 1 identifies the appropriate DER Section Chief as the place to send all effluent results, engineering submissions, and modification requests. The Regional Water Engineer should be kept apprised of the status of this discharge and, in accordance with the attached criteria, receive a copy of the effluent results for informational purposes.

If you have any questions, please call me at contact me at donald.canestrari@dec.ny.gov or 518-402-8138.

Attachment (Effluent Limitations and Monitoring Requirements)

cc: Robert Elburn, Regional Water Engineer (w/attach)

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning March 12th, 2020 and lasting until August 1st, 2020, the discharges from the **Red Hook #3, DER Site No. C224213**, to the wastewater treatment facility outfall at **Latitude 40° 40' 50"**, **Longitude -74° 01' 03"**; to the **Buttermilk Channel, New York City Waters 890-6, Class SB**, shall be limited and monitored by the operator as specified below:

Outfall Number and Parameter	Discharge Limitations	Units	Minimum Monitoring Requirements	
	Daily Max		Measurement Frequency	Sample Type
Outfall 001 - Treated Remediation Discharge				
Flow	288,000	GPD	Continuous	Recorder
pH (range)	6.5 – 8.5	SU	Bi-Weekly	Grab
Individual VOCs ⁹	10	ug/L	Bi-Weekly	Grab
Individual Semi-VOCs ⁹	10	ug/L	Bi-Weekly	Grab
Individual PAHs	10	ug/L	Bi-Weekly	Grab
4,4-DDD	0.02	ug/L	Bi-Weekly	Grab
4,4-DDE	0.01	ug/L	Bi-Weekly	Grab
4,4-DDT	0.05	ug/L	Bi-Weekly	Grab
Arsenic (Dissolved)	63	ug/L	Bi-Weekly	Grab
Cadmium	7.7	ug/L	Bi-Weekly	Grab
Chromium VI	54	ug/L	Bi-Weekly	Grab
Copper	5.6	ug/L	Bi-Weekly	Grab
Lead	8.0	ug/L	Bi-Weekly	Grab
Nickel	8.2	ug/L	Bi-Weekly	Grab
Zinc	66	ug/L	Bi-Weekly	Grab
Perfluorooctanoic acid (PFOA)	See Footnote	ng/L	Bi-Weekly	Grab
Perfluorooctanesulfonic acid (PFOS)	See Footnote	ng/L	Bi-Weekly	Grab

Footnote:

Monitoring for PFOS and PFOA shall use EPA Method 537, Version 1.1 and shall occur after the first of two granular activated carbon (GAC) filters in series. Upon receipt of analytical results for PFOS or PFOA with detectable levels at or above the Lowest Concentration Minimum Reporting Level (LCMRL), discharge shall cease and the lead GAC filter shall be replaced using the following step-wise procedure:

1. the lead GAC filter shall be removed,
2. the second GAC filter shall become the lead filter,
3. a new GAC filter shall be installed in the lag position.

Once this procedure is completed - treatment, discharge, sampling, and testing may resume as indicated in the table above.

Additional Conditions:

1. Discharge is not authorized until such time as an engineering submission showing the method of treatment is approved by the Department. The discharge rate may not exceed the effective or design treatment system capacity. All monitoring data, engineering submissions and modification requests must be submitted to:

Chris Heller, Division of Environmental Remediation
NYSDEC, 625 Broadway, Albany, New York 12233
Phone: 518-402-0163
Email: chris.heller@dec.ny.gov

With a copy sent to:

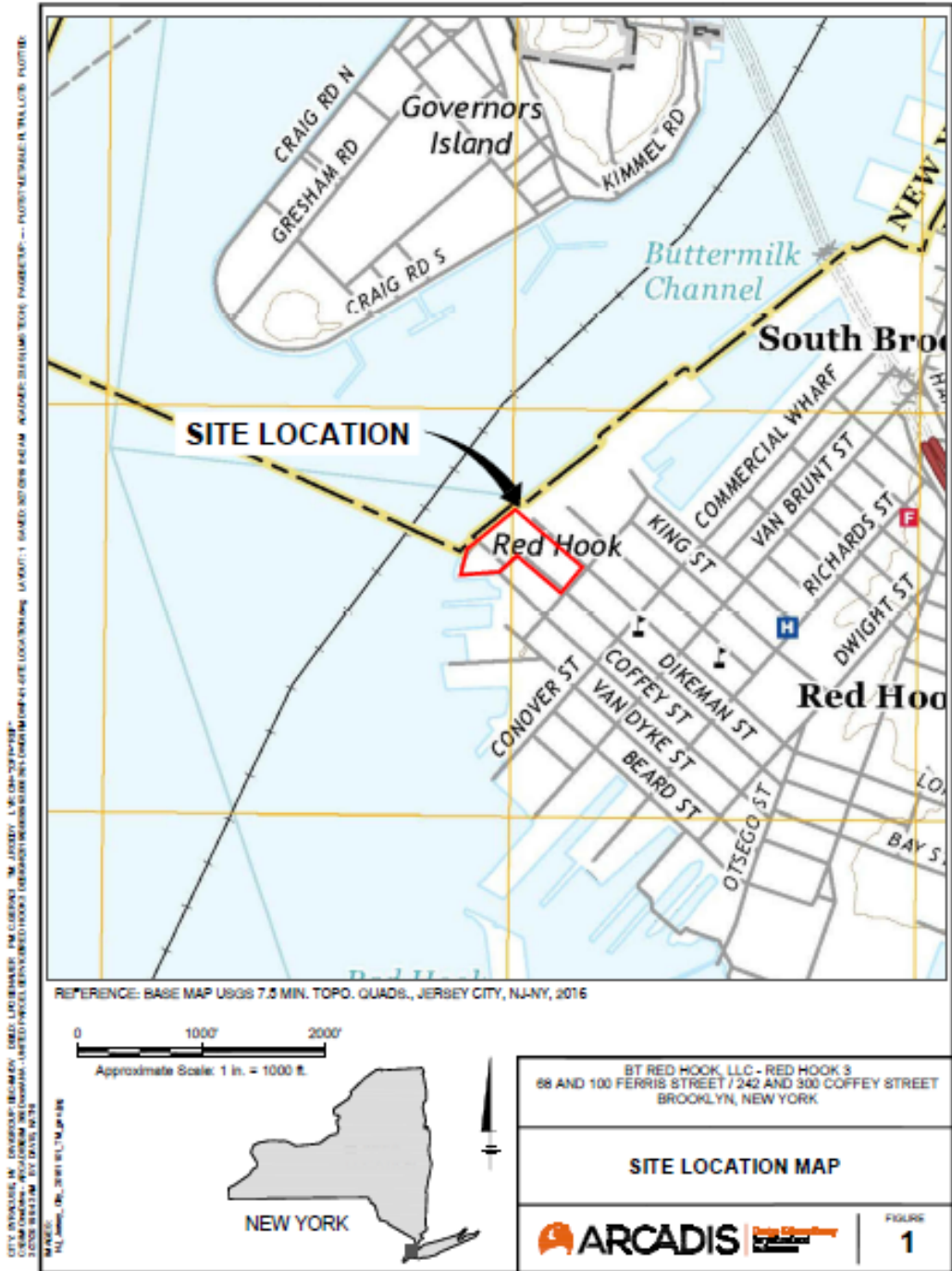
Robert Elburn, Regional Water Engineer, Region 2
1 Hunter's Point Plaza, 47-40 21st Street, Long Island City, NY 11101
Phone: 718-482-4930
Email: robert.elburn@dec.ny.gov

2. For compliance purposes, if one or more individual constituents of VOCs, Semi-VOCs, or PAHs exceeds the permitted level for a sampling event, it will constitute one permit limit exceedance.
3. For PAH analysis, when more than one method is approved under 40 C.F.R. Part 136, the method selected must be sufficiently sensitive. A sufficiently sensitive method will provide practical quantitation limits and analysis ranges to measure monitored constituents at or below water quality criteria and permit limits.
4. Only site generated wastewater is authorized for treatment and discharge.
5. Authorization to discharge is valid only for the period noted above but may be renewed if appropriate. A request for renewal must be received 6 months prior to the expiration date to allow for a review of monitoring data and reassessment of monitoring requirements.
6. Both concentration (mg/l or µg/l) and mass loadings (lbs/day) must be reported to the Department for all parameters except flow and pH.
7. Any use of corrosion/scale inhibitors, biocidal-type compounds, or other water treatment chemicals used in the treatment process must be approved by the department prior to use.
8. This discharge and administration of this discharge must comply with the substantive requirements of 6 NYCRR Part 750.

9. The individual volatile organic compounds (VOCs and semi-volatile (SVOCs), as listed below, are subject to the effluent limitation of 10 ug/l; or are otherwise to be reported, if present at or above the Lowest Concentration Minimum Reporting Limit (LCMRL), or 'RL'.

Volatile Organic Compounds, Test Method 624.1			Semi-Volatile Organic Compounds		
Parameter	Limit, µg/l	Other	Parameter	Limit, µg/l	Other
1,2,4-Trimethylbenzene	10	RL	1,1-Biphenyl	10	RL
1,3,5 Trimethylbenzene	10	RL	1-Methylnaphthalene	10	RL
Acetone	10	RL	2,4-Dimethylphenol	10	RL
Benzene	10	RL	2-Methylnaphthalene	10	RL
Carbon Disulfide	10	RL	2-Methylphenol	10	RL
Chloroform	10	RL	4-Methylphenol	10	RL
cis-1,2-Dichloroethene	10	RL	Acenaphthene	10	RL
Cyclohexane	10	RL	Acenaphthylene	10	RL
Cymene (p-isopropyltoluene)	10	RL	Anthracene	10	RL
Ethylbenzene	10	RL	Benz(a)anthracene	10	RL
Isopropylbenzene	10	RL	Benzo(a)pyrene	10	RL
m&p-Xylenes	10	RL	Benzo(b)fluoranthene	10	RL
Methylcyclohexane	10	RL	Benzo(g,h,i)perylene	10	RL
Methyl-tert-butyl ether	10	RL	Benzo(k)fluoranthene	10	RL
n-Propylbenzene	10	RL	bis(2-Ethylhexyl) phthalate	10	RL
o-Xylene	10	RL	Carbazole	10	RL
sec-Butylbenzene	10	RL	Chrysene	10	RL
Styrene (Monomer)	10	RL	Dibenz(a,h) anthracene	10	RL
tert-Butyl Alcohol	10	RL	Dibenzofuran	10	RL
Toluene	10	RL	Di-n-butyl phthalate	10	RL
Xylenes, Total	10	RL	Di-n-octyl phthalate	10	RL
			Fluoranthene	10	RL
			Fluorene	10	RL
			Indeno(1,2,3-cd) pyrene	10	RL
			Naphthalene	10	RL
			Phenanthrene	10	RL
			Phenol	10	RL
			Pyrene	10	RL

SITE LOCATION MAP – RED HOOK #3 REMEDIATION PROJECT C-224214



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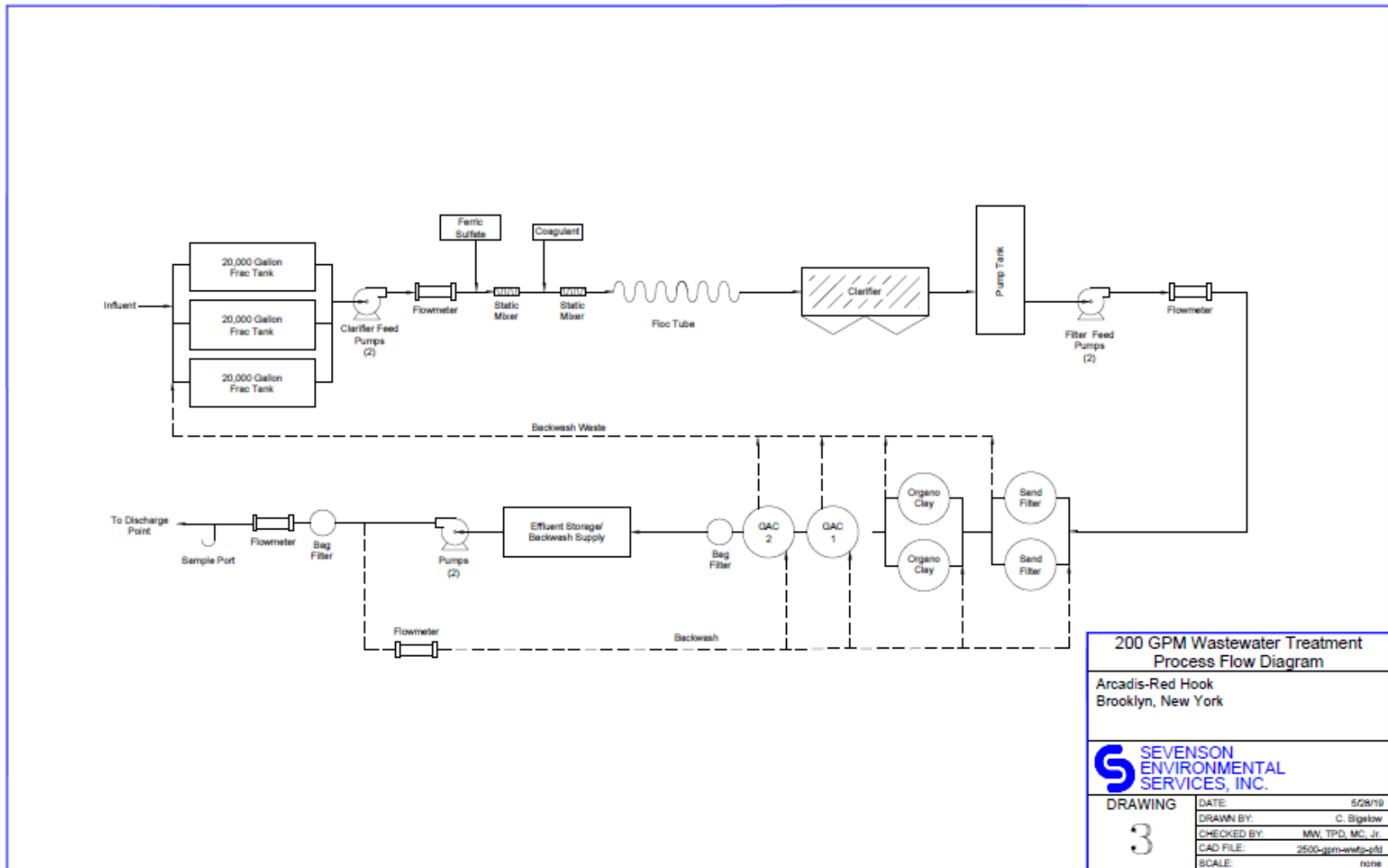
Division of Water, Bureau of Permits

625 Broadway, Albany, New York 12233-3505

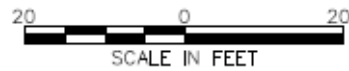
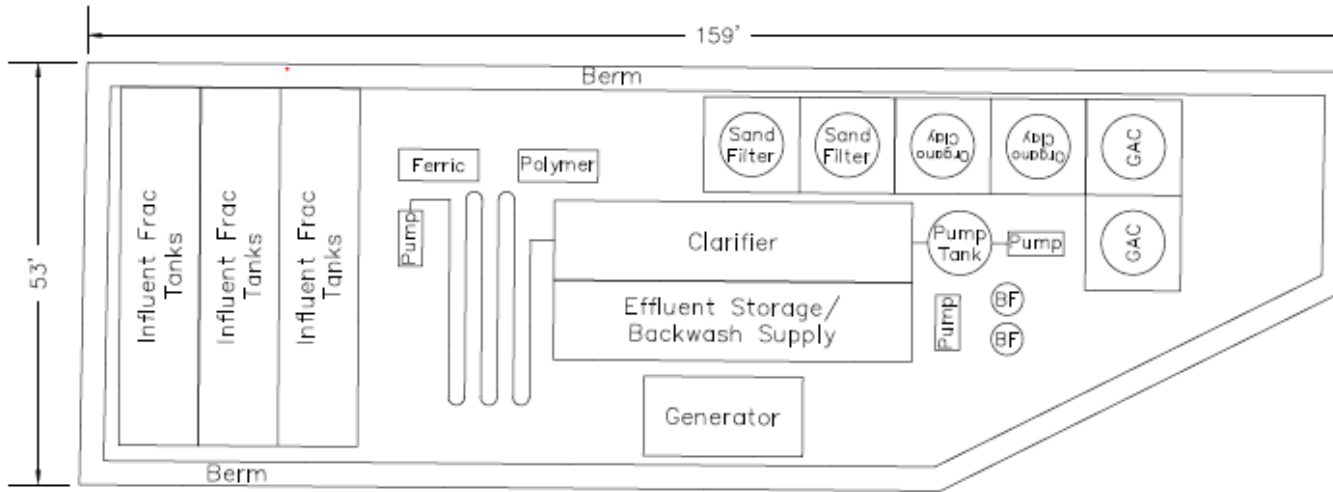
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WASTEWATER TREATMENT SYSTEM – FLOW DIAGRAM



WASTEWATER TREATMENT PLANT LAYOUT – RED HOOK #3 REMEDIATION SITE



200 GPM	
Waste Water Treatment Plant Layout	
Arcadis-Red Hook Brooklyn, New York	
 SEVENSON ENVIRONMENTAL SERVICES, INC.	
DRAWING	DATE: 6/4/19
4	DRAWN BY: C. Blizew
	CHECKED BY: M. Walker
	CAD FILE: 200 WWT-Layout
	SCALE: As Shown

SITE EXCAVATION PLAN – RED HOOK #3 – SITE REMEDIATION NO. C224214

