

Application Type Renewal
 Facility Type Non-Municipal
 Major / Minor Minor

**NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE**

Application No. PA0033405
 APS ID 990779
 Authorization ID 1268924

Applicant and Facility Information

Applicant Name	<u>HPD Flip LP</u>	Facility Name	<u>Sewickley Pines Manor STP</u>
Applicant Address	<u>720 Fayette Street Suite 500</u> <u>Conshohocken, PA 19428</u>	Facility Address	<u>Sewickley Pines Manor</u> <u>West Newton, PA 15089</u>
Applicant Contact	<u>John Pack</u>	Facility Contact	<u>Emil Bove</u>
Applicant Phone	<u>(484) 904-0121</u>	Facility Phone	<u>724-925-9269</u>
Client ID	<u>349058</u>	Site ID	<u>251051</u>
Ch 94 Load Status	<u>Not Overloaded</u>	Municipality	<u>Sewickley Township</u>
Connection Status	<u>No Limitations</u>	County	<u>Westmoreland</u>
Date Application Received	<u>April 10, 2019</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u>April 12, 2019</u>	If No, Reason	<u></u>
Purpose of Application	<u>Renew and transfer NPDES application.</u>		

Summary of Review

The permittee has applied for a renewal of NPDES Permit No. PA0033405. The application was received by the PA Department of Environmental Protection (DEP) on April 10, 2019. NPDES Permit No. PA0033405 was previously issued to Bryan Berch on January 15, 2014. That permit expired on January 31, 2019. This NPDES permit is being renewed, and transferred, to HPD Flip LP simultaneously. WQM Permit No 6519400 is also being transferred from Mr. Berch to HPD Flip LP and will be issued with the final NPDES permit.

This permit renewal/transfer is approved during the Coronavirus pandemic requiring DEP employees to telework. Electronic signatures are considered appropriate for this NPDES Permit Fact Sheet. An electronic copy of the communication that transmitted approval of the draft permit documents has been saved and is included with the file.

Public Participation

DEP will publish notice of the receipt of the NPDES permit application and a tentative decision to issue the individual NPDES permit in the *Pennsylvania Bulletin* in accordance with 25 Pa. Code § 92a.82. Upon publication in the *Pennsylvania Bulletin*, DEP will accept written comments from interested persons for a 30-day period (which may be extended for one additional 15-day period at DEP's discretion), which will be considered in making a final decision on the application. Any person may request or petition for a public hearing with respect to the application. A public hearing may be held if DEP determines that there is significant public interest in holding a hearing. If a hearing is held, notice of the hearing will be published in the *Pennsylvania Bulletin* at least 30 days prior to the hearing and in at least one newspaper of general circulation within the geographical area of the discharge.

Approve	Deny	Signatures	Date
x		David R. Ponchione David R. Ponchione / Project Manager	May 26, 2020
x		Christopher Kriley Christopher Kriley for Donald J. Leone, P.E. / Environmental Engineer Manager	May 26, 2020

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	<u>001</u>	Design Flow (MGD)	<u>0.015</u>
Latitude	<u>40° 13' 50"</u>	Longitude	<u>-79° 42' 33"</u>
Quad Name	<u>Smithton</u>	Quad Code	<u>1708</u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>UNT of Sewickley Creek (WWF)</u>	Stream Code	<u>37556</u>
NHD Com ID	<u>69913329</u>	RMI	<u>0.568</u>
Drainage Area	<u>0.14</u>	Yield (cfs/mi ²)	<u>0.026</u>
Q ₇₋₁₀ Flow (cfs)	<u>0.00365</u>	Q ₇₋₁₀ Basis	<u>Bulletin #12, Station 03083000</u>
Watershed No.	<u>19-D</u>	Chapter 93 Class.	<u>WWF</u>
Exceptions to Use	<u>None</u>	Exceptions to Criteria	<u>None</u>
Assessment Status	<u>Attaining Use(s)</u>		
TMDL Status	<u>Final, 04/08/2009</u>	Name	<u>Sewickley Creek Watershed</u>

Changes Since Last Permit Issuance: None

Treatment Facility Summary				
Treatment Facility Name: Sewickley Pines Manor STP				
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary with NH ₃ -N Reduction	Extended Aeration	Chlorination / De-chlorination	0.007
Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.015	46	Not Overloaded	Aerobic SHT	Landfill

Changes Since Last Permit Issuance: None

Compliance History

DMR Data for Outfall 001 (from April 1, 2019 to March 31, 2020)

Parameter	MAR-20	FEB-20	JAN-20	DEC-19	NOV-19	OCT-19	SEP-19	AUG-19	JUL-19	JUN-19	MAY-19	APR-19
Flow (MGD) Average Monthly	0.014	0.014	0.0093	0.014	0.007	0.007	0.009	0.009	0.010	0.010	0.011	
pH (S.U.) Minimum	7.0	7.1	6.8	7.3	7.0	6.7	6.9	6.7	7.0	6.9	6.9	
pH (S.U.) Maximum	7.4	7.2	7.3	7.4	7.2	6.8	7.1	6.8	7.2	7.1	7.1	
DO (mg/L) Minimum	8.2	8.9	8.1	8.6	8.2	7.1	7.2	6.5	6.8	7.2	7.4	
TRC (mg/L) Average Monthly	0.01	0.01	0.01	0.01	0.01	0.01	0.01	< 0.01	0.02	0.08	0.07	
TRC (mg/L) Instantaneous Maximum	0.01	0.01	0.01	0.01	0.01	0.01	0.01	< 0.01	0.03	0.10	0.10	
CBOD5 (mg/L) Average Monthly	3.5	< 3.0	< 3	< 3.0	< 3.0	< 3.65	< 3	< 3	< 3	< 3	< 3	
CBOD5 (mg/L) Instantaneous Maximum	4.1	< 3.0	< 3	< 3.0	< 3.0	< 4	< 3	< 3	< 3	< 3	< 3	
TSS (mg/L) Average Monthly	5.7	6.6	13	10.1	11.2	12.5	5.7	4.2	4.6	3.2	3.2	
TSS (mg/L) Instantaneous Maximum	6.8	8.4	13.2	11.8	12.4	15.2	8.0	5.6	4.8	4.0	4.0	
Fecal Coliform (CFU/100 ml) Geometric Mean	5.7	< 4.0	< 4	< 4.0	< 4.0	< 4	< 4	11.7	6	2564	57	
Fecal Coliform (CFU/100 ml) Instantaneous Maximum	8	< 4.0	< 4	< 4.0	< 4.0	< 4	< 4	34.4	10	4045	129	
Total Nitrogen (mg/L) Daily Maximum				6.07								
Ammonia (mg/L) Average Monthly	0.7	0.54	0.132	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.5	1.02	1.3	

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Sewickley Pines Manor STP**

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Ammonia (mg/L) Instantaneous Maximum	1.1	1.0	0.164	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	1.0	1.52	1.6	
Total Phosphorus (mg/L) Daily Maximum				0.782								

Compliance History

Effluent Violations for Outfall 001, from: May 1, 2019 To: March 31, 2020

Parameter	Date	SBC	DMR Value	Units	Limit Value	Units
Fecal Coliform	06/30/19	Geo Mean	2564	CFU/100 ml	200	CFU/100 ml
Fecal Coliform	06/30/19	IMAX	4045	CFU/100 ml	1000	CFU/100 ml

Operations Compliance Check Summary Report

Facility: Sewickley Pines MHP STP

NPDES Permit No.: PA0033405

Compliance Review Period: 05/07/2015 – 05/07/2020

Open Violations by Client Summary: None

Inspection Summary

INSP ID	INSPECTED DATE	INSP TYPE	AGENCY	INSPECTION RESULT DESC	# OF VIOLATIONS
2920869	08/14/2019	Complaint Inspection	PA Dept of Environmental Protection	No Violations Noted	0
2846491	01/31/2019	Routine/Partial Inspection	PA Dept of Environmental Protection	No Violations Noted	0
2846435	11/29/2018	Compliance Evaluation	PA Dept of Environmental Protection	Pending	0
2797092	11/01/2018	Administrative/File Review	PA Dept of Environmental Protection	Violation(s) Noted	1
2789823	10/04/2018	Administrative/File Review	PA Dept of Environmental Protection	Violation(s) Noted	1
2751810	07/03/2018	Compliance Evaluation	PA Dept of Environmental Protection	Violation(s) Noted	1
2705363	03/14/2018	Administrative/File Review	PA Dept of Environmental Protection	Violation(s) Noted	1
2674027	12/06/2017	Routine/Partial Inspection	PA Dept of Environmental Protection	Violation(s) Noted	5
2652884	10/26/2017	Administrative/File Review	PA Dept of Environmental Protection	Violation(s) Noted	1
2666595	09/28/2017	Routine/Partial Inspection	PA Dept of Environmental Protection	Violation(s) Noted	1
2666590	09/05/2017	Routine/Partial Inspection	PA Dept of Environmental Protection	Violation(s) Noted	1
2610709	04/11/2017	Administrative/File Review	PA Dept of Environmental Protection	Violation(s) Noted	1

2566836	03/02/2017	Administrative/File Review	PA Dept of Environmental Protection	Violation(s) Noted	1
2533029	11/01/2016	Administrative/File Review	PA Dept of Environmental Protection	Violation(s) Noted	1
2511051	08/16/2016	Complaint Inspection	PA Dept of Environmental Protection	Violation(s) Noted	5
2479057	04/27/2016	Routine/Partial Inspection	PA Dept of Environmental Protection	Violation(s) Noted	2
2454197	03/01/2016	Administrative/File Review	PA Dept of Environmental Protection	Violation(s) Noted	1
2416120	10/16/2015	Administrative/File Review	PA Dept of Environmental Protection	Violation(s) Noted	1
2410890	09/28/2015	Compliance Evaluation	PA Dept of Environmental Protection	Violation(s) Noted	6

Violation Summary

VIOL ID	VIOLATION DATE	VIOLATION TYPE DESC	RESOLVED DATE
832204	11/01/2018	Operator Certification - Failure to submit annual system fee	
830673	10/04/2018	NPDES - Failure to use a format or process required by DEP for self-monitoring results	04/10/2019
822212	07/03/2018	NPDES - Failure to submit monitoring report(s) or properly complete monitoring reports	07/13/2018
810844	03/14/2018	NPDES - Failure to pay annual fee	
804640	12/06/2017	CSL - Failure to comply with a DEP-issued enforcement order	12/21/2017
804641	12/06/2017	NPDES - Failure to submit monitoring report(s) or properly complete monitoring reports	12/21/2017
804642	12/06/2017	Operator Certification - Owner failed to comply with the Act or Chapter 302 regulations	12/21/2017
804643	12/06/2017	NPDES - Failure to properly operate and maintain all facilities which are installed or used by the permittee to achieve compliance	12/21/2017
804644	12/06/2017	NPDES - Discharge contained floating materials, scum, sheet, foam, oil, grease or substances that produced an observable change or resulted in deposits in receiving waters	12/21/2017
800119	10/26/2017	Operator Certification - Failure to submit annual system fee	
803113	09/28/2017	NPDES - Violation of effluent limits in Part A of permit	12/01/2017
803112	09/05/2017	NPDES - Violation of effluent limits in Part A of permit	12/01/2017
789688	04/11/2017	NPDES - Failure to use a format or process required by DEP for self-monitoring results	04/10/2019
779619	03/02/2017	NPDES - Failure to pay annual fee	
771429	11/01/2016	Operator Certification - Failure to submit annual system fee	04/06/2017

766121	08/16/2016	Operator Certification - Owner failed to comply with the Act or Chapter 302 regulations	08/17/2016
766122	08/16/2016	NPDES - Failure to submit monitoring report(s) or properly complete monitoring reports	08/17/2016
766123	08/16/2016	NPDES - Failure to properly operate and maintain all facilities which are installed or used by the permittee to achieve compliance	08/17/2016
766124	08/16/2016	NPDES - Discharge contained floating materials, scum, sheet, foam, oil, grease or substances that produced an observable change or resulted in deposits in receiving waters	08/17/2016
766125	08/16/2016	CSL - Failure to comply with a DEP-issued enforcement order	08/17/2016
757967	04/27/2016	Operator Certification - Owner failed to comply with the Act or Chapter 302 regulations	04/28/2016
757968	04/27/2016	NPDES - Failure to submit monitoring report(s) or properly complete monitoring reports	04/28/2016
747574	03/01/2016	NPDES - Failure to pay annual fee	
736926	10/16/2015	Operator Certification - Failure to submit annual system fee	04/06/2017
735632	09/28/2015	Operator Certification - Owner failed to comply with the Act or Chapter 302 regulations	09/29/2015
735633	09/28/2015	Operator Certification - An unauthorized person made process control decisions at a wastewater facility without proper certification	09/29/2015
735634	09/28/2015	NPDES - Violation of effluent limits in Part A of permit	09/29/2015
735635	09/28/2015	NPDES - Failure to submit monitoring report(s) or properly complete monitoring reports	09/29/2015
735636	09/28/2015	NPDES - Failure to provide information or records required by the permit or otherwise needed to determine compliance	09/29/2015
735637	09/28/2015	NPDES - Failure to properly operate and maintain all facilities which are installed or used by the permittee to achieve compliance	09/29/2015

Enforcement Summary

ENF ID	ENF TYPE DESC	EXECUTED DATE	ENF FINALSTATUS	ENF CLOSED DATE
368919	Notice of Violation	11/01/2018		
368256	Notice of Violation	10/04/2018	Comply/Closed	04/10/2019
367263	Administrative Order	08/31/2018		
365549	Notice of Violation	07/13/2018	Superseded	08/31/2018
362899	Administrative Order	04/05/2018		
362332	Notice of Violation	03/14/2018		
360429	Notice of Violation	12/21/2017	Administrative Close Out	08/30/2019
359949	Notice of Violation	12/01/2017	Administrative Close Out	08/30/2019

359948	Notice of Violation	12/01/2017	Administrative Close Out	08/30/2019
358982	Notice of Violation	10/26/2017	Administrative Close Out	08/30/2019
354840	Notice of Violation	04/11/2017	Comply/Closed	04/10/2019
352209	Administrative Order	04/03/2017		
351374	Notice of Violation	03/02/2017		
348308	Notice of Violation	11/01/2016	Comply/Closed	04/06/2017
346169	Notice of Violation	08/17/2016	Administrative Close Out	08/20/2019
344578	Administrative Order	07/05/2016		
342278	Notice of Violation	04/28/2016	Administrative Close Out	08/20/2019
341331	Administrative Order	04/04/2016		
335058	Notice of Violation	03/01/2016		
330522	Notice of Violation	10/16/2015	Administrative Close Out	08/27/2019
329959	Notice of Violation	09/29/2015	Administrative Close Out	08/19/2019

DMR Violation Summary

Current eDMR user.

Effluent limit violation summary 5/7/2018 – 5/7/2020:

MONITORING END DATE	OUTFALL	PARAMETER	SAMPLE VALUE	PERMIT VALUE	UNIT OF MEASURE	STATISTICAL BASE CODE
06/30/2019	001	Fecal Coliform	4045	1000	CFU/100 ml	Instantaneous Maximum
06/30/2019	001	Fecal Coliform	2564	200	CFU/100 ml	Geometric Mean

Compliance Status:

Facility had numerous violations through 2018 due to a variety of reasons. NOVs have been issued and after 2018 facility compliance appeared to stabilize. A single effluent violation was reported as noted above, which has not recurred. Currently, there are no compliance issues.

Completed by: David Roote

Completed date: 5/7/2020

Other Comments by this permit writer: Per 5/7/2020 email from Zachary Flannigin, a DEP inspector familiar with the history of the plant, repairs were recently made at the plant, and Eric Planey is still the operator as far as he knew. He is not sure if the new owner is looking to sell.

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Development of Effluent Limitations

Outfall No.	001	Design Flow (MGD)	.015
Latitude	40° 13' 50.00"	Longitude	-79° 42' 33.00"
Wastewater Description: Sewage Effluent			

Technology-Based Limitations

The following technology-based limitations apply, subject to water quality analysis and BPJ where applicable:

Pollutant	Limit (mg/l)	SBC	Federal Regulation	State Regulation
CBOD ₅	25	Average Monthly	133.102(a)(4)(i)	92a.47(a)(1)
Total Suspended Solids	30	Average Monthly	133.102(b)(1)	92a.47(a)(1)
	45	Average Weekly	133.102(b)(2)	92a.47(a)(2)
pH	6.0 – 9.0 S.U.	Min – Max	133.102(c)	95.2(1)
Fecal Coliform (5/1 – 9/30)	200 / 100 ml	Geo Mean	-	92a.47(a)(4)
Fecal Coliform (5/1 – 9/30)	1,000 / 100 ml	IMAX	-	92a.47(a)(4)
Fecal Coliform (10/1 – 4/30)	2,000 / 100 ml	Geo Mean	-	92a.47(a)(5)
Fecal Coliform (10/1 – 4/30)	10,000 / 100 ml	IMAX	-	92a.47(a)(5)

Comments: The above effluent limitations are consistent with the previous NPDES permit.

Water Quality Based Effluent Limitations

The discharge was previously modeled using WQAM63 to evaluate the CBOD₅, Ammonia Nitrogen and Dissolved Oxygen parameters. Because there have been no changes to the discharge or the receiving stream, the modeling results for those parameters are based on the previously approved pollution report which is attached to this fact sheet. It was unnecessary to remodel those three parameters using the current WQM 7.0 model because the same effluent results would be computed for a single discharge scenario. The modeling results show technology based effluent limitations for CBOD₅ are appropriate. The modeling results also confirm that Ammonia-Nitrogen and Dissolved Oxygen limitations are necessary to meet in-stream water quality criterion.

The following limitations were determined through water quality modeling WQAM63:

Parameter	Limit (mg/l)	SBC	Model
NH ₃ -N (May – Oct)	2.2	Average Monthly	WQAM63
NH ₃ -N (Nov – April)	5.0	Average Monthly	WQAM63
Dissolved Oxygen	Minimum 5.0	At all times	WQAM63
Total Residual Chlorine	0.1	Average Monthly	TRC Calc

Comments: The above effluent limitations are consistent with the previous NPDES permit.

Monitoring Frequency Considerations

Permittee's are expected to monitor pH, DO and Total Residual Chlorine (TRC) daily to be consistent with current policy and Table 6-3 of DEP's Technical Guidance for the Development and Specification of Effluent Limitations. Daily monitoring provides minimum assurance the facility is being operated properly. A review of the previous permit file gives no indication that the permittee was informed to plan accordingly for 1/day monitoring for this renewal cycle.

This renewal permit contains the daily monitoring requirements but is structured to give them until January 1, 2022 to implement. This should provide ample time to make the necessary arrangements and allows the monitoring to be done

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this renewal cycle. Proper attention to the plant is of concern because the plant has had a prior history of having effluent violations, albeit with a previous owner.

Total Dissolved Solids (TDS) and its Major Constituents

The design flow of the sewage treatment plant is less than 0.1 mgd. For this reason, the permittee is not required to report influent and effluent concentrations for various parameters as listed in the NPDES application. Total Dissolved Solids and its major constituents are therefore not a concern at this time.

The following modifications have been made to be consistent with current DEP policy:

- Effluent limitations for pH and DO are to be reported as "Instantaneous Minimum" in lieu of "Minimum".
- The units for Fecal Coliform are now "No./100 ml" in lieu of "CFU/100 ml".

Additional Considerations

- A once per year Monitor and Report requirement for Total N and Total P was incorporated into the previous permit as per Chapter 92.a.61 and will be continued.
- Mass loading limits and influent monitoring are not applicable for non-publicly owned treatment works.

Proposed Effluent Limitations and Monitoring Requirements

The limitations and monitoring requirements specified below are proposed for the draft permit, and reflect the most stringent limitations amongst technology, water quality and BPJ. Instantaneous Maximum (IMAX) limits are determined using multipliers of 2 (conventional pollutants) or 2.5 (toxic pollutants). Sample frequencies and types are derived from the “NPDES Permit Writer’s Manual” (362-0400-001), SOPs and/or BPJ.

Outfall 001, Effective Period: January 1, 2022 through Permit Expiration Date.

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L)				Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Average Monthly	Maximum	Instant. Maximum		
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/day	Grab
DO	XXX	XXX	5.0 Inst Min	XXX	XXX	XXX	1/day	Grab
TRC	XXX	XXX	0.1 Avg Mo	XXX	XXX	0.22	1/day	Grab

Compliance Sampling Location: Outfall 001

Proposed Effluent Limitations and Monitoring Requirements

The limitations and monitoring requirements specified below are proposed for the draft permit, and reflect the most stringent limitations amongst technology, water quality and BPJ. Instantaneous Maximum (IMAX) limits are determined using multipliers of 2 (conventional pollutants) or 2.5 (toxic pollutants). Sample frequencies and types are derived from the “NPDES Permit Writer’s Manual” (362-0400-001), SOPs and/or BPJ.

Outfall 001, Effective Period: Permit Effective Date through December 30, 2021.

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L)				Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Average Monthly	Maximum	Instant. Maximum		
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	2/month	Grab
DO	XXX	XXX	5.0 Inst Min	XXX	XXX	XXX	2/month	Grab
TRC	XXX	XXX	0.1 Avg Mo	XXX	XXX	0.22	1/week	Grab

Compliance Sampling Location: Outfall 001

Proposed Effluent Limitations and Monitoring Requirements

The limitations and monitoring requirements specified below are proposed for the draft permit, and reflect the most stringent limitations amongst technology, water quality and BPJ. Instantaneous Maximum (IMAX) limits are determined using multipliers of 2 (conventional pollutants) or 2.5 (toxic pollutants). Sample frequencies and types are derived from the "NPDES Permit Writer's Manual" (362-0400-001), SOPs and/or BPJ.

Outfall 001, Effective Period: Permit Effective Date through Permit Expiration Date.

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L)				Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Average Monthly	Average Monthly	Maximum	Instant. Maximum		
Flow (MGD)	0.015	XXX	XXX	XXX	XXX	XXX	2/month	Measured
CBOD5	XXX	XXX	25.0	XXX	XXX	50.0	2/month	Grab
TSS	XXX	XXX	30.0	XXX	XXX	60.0	2/month	Grab
Fecal Coliform (No./100 ml) Oct 1 - Apr 30	XXX	XXX	XXX	2000 Geo Mean	XXX	10000	2/month	Grab
Fecal Coliform (No./100 ml) May 1 - Sep 30	XXX	XXX	XXX	200 Geo Mean	XXX	1000	2/month	Grab
Total Nitrogen	XXX	XXX	XXX	Report Daily Max	XXX	XXX	1/year	Grab
Ammonia Nov 1 - Apr 30	XXX	XXX	5.0	XXX	XXX	10.0	2/month	Grab
Ammonia May 1 - Oct 31	XXX	XXX	2.2	XXX	XXX	4.4	2/month	Grab
Total Phosphorus	XXX	XXX	XXX	Report Daily Max	XXX	XXX	1/year	Grab

Compliance Sampling Location: Outfall 001