

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

**NPDES PERMIT FACT SHEET  
INDIVIDUAL SEWAGE**

Application No. PA0034061  
APS ID 1080126  
Authorization ID 1425538

**Applicant and Facility Information**

Applicant Name	<u>Vacationland Properties Owner LLC</u>	Facility Name	<u>Goddard Park Vacationland Campground</u>
Applicant Address	<u>760 Osterman Drive Suite 201 Unit 2 Bozeman, MT 59715-7948</u>	Facility Address	<u>867 Georgetown Road Sandy Lake, PA 16145-2525</u>
Applicant Contact	<u>Josh Weissenstein</u>	Facility Contact	<u>Mark and Lavern Bonds</u>
Applicant Phone	<u>(406) 404-6812</u>	Facility Phone	<u>(724) 253-4645</u>
Applicant Email	<u>josh@landleaseamerica.com</u>	Facility Email	<u>vacationland@teamoutsider.com</u>
Client ID	<u>368831</u>	Site ID	<u>637351</u>
Ch 94 Load Status	<u>Not Overloaded</u>	Municipality	<u>Deer Creek Township</u>
Connection Status	<u>No Limitations</u>	County	<u>Mercer</u>
Date Application Received	<u>January 23, 2023</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u>September 29, 2023</u>	If No, Reason	<u></u>
Purpose of Application	<u>Renewal of a NPDES Permit for an Existing Discharge of 0.06</u>		

**Summary of Review**

This is a renewal Sewage Individual NPDES Permit for an Existing Discharge of 0.06 MGD from a non-municipal minor sewage facility.

Treatment permitted under WQM Permit 4371415 consists of: An existing 1,620,000-gallon primary lagoon with two (2) aerators, followed by an existing 626,000-gallon secondary lagoon with a curtain wall and four (4) Bio-Shells. An existing 72 square foot (SF) coarse sand filter and an existing chlorine tablet feeder disinfection system and contact time in an existing chlorine contact tank. A new dechlorination system that will consist of a Norweco Bio-Dynamic LF 4600 tablet feeder and a 2' x 4' precast concrete dechlorination tank.

This permit is also being transferred as part of this renewal. WQM Permit No. 4371415 will be amended and transferred as part of the amendment. *The WQM permit amendment and transfer will be completed independently and prior to the renewal and transfer of the NPDES Permit.*

This facility is currently submitting eDMR reports.

Act 14 – Proof of Notification was submitted and received.

SPECIAL CONDITIONS: NONE

The EPA waiver is in effect.

There are no open violations in WMS for the subject Client ID (368831) as of November 7, 2023 *11/13/2023 CWY*

Approve	Deny	Signatures	Date
X		Aeshah Shameseldin Aeshah Shameseldin / Civil Engineer Trainee	November 14, 2023
X		Chad W. Yurisc Chad W. Yurisc, P.E. / Environmental Engineer Manager	11/14/2023

**Summary of Review**

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.



Treatment Facility Summary				
<b>Treatment Facility Name:</b> Goddard Park Vacationland Campground				
<b>WQM Permit No.</b>		<b>Issuance Date</b>		
4371415 A-2 T-3		In Progress		
4371415 A-1 T-2		January 24, 2018		
<b>Waste Type</b>	<b>Degree of Treatment</b>	<b>Process Type</b>	<b>Disinfection</b>	<b>Avg Annual Flow (MGD)</b>
Sewage	Secondary	Stabilization Lagoon	Hypochlorite	0.06
<b>Hydraulic Capacity (MGD)</b>				
0.06	<b>Organic Capacity (lbs/day)</b>	<b>Load Status</b>	<b>Biosolids Treatment</b>	<b>Biosolids Use/Disposal</b>
	300	Not Overloaded	N/A	Other WWTP

Changes Since Last Permit Issuance: None.

Other Comments: None.

Compliance History

DMR Data for Outfall 001 (from October 1, 2022 to September 30, 2023)

Parameter	SEP-23	AUG-23	JUL-23	JUN-23	MAY-23	APR-23	MAR-23	FEB-23	JAN-23	DEC-22	NOV-22	OCT-22
Flow (MGD) Average Monthly						0.021				0.038		0.037
pH (S.U.) Daily Minimum						7.4				6.8		6.7
pH (S.U.) Daily Maximum						8.2				8.0		7.1
DO (mg/L) Daily Minimum						6.41				4.87		4.97
TRC (mg/L) Average Monthly						0.39				0.37		0.34
TRC (mg/L) Instantaneous Maximum						0.61				0.61		0.59
CBOD5 (mg/L) Average Monthly						7.98				2.4		2.4
TSS (mg/L) Average Monthly						19.5				4.5		2.5
Fecal Coliform (No./100 ml) Geometric Mean						1				1		2.5
Fecal Coliform (No./100 ml) Instantaneous Maximum						1				1		6.3
Total Nitrogen (mg/L) Average Quarterly				E						1.105		
Ammonia (mg/L) Average Monthly						0.52				4.78		1.65
Total Phosphorus (mg/L) Average Quarterly				E						0.143		

**Development of Effluent Limitations**

<b>Outfall No.</b> <u>001</u>	<b>Design Flow (MGD)</b> <u>.06</u>
<b>Latitude</b> <u>41° 26' 7.18"</u>	<b>Longitude</b> <u>-80° 8' 41.59"</u>
<b>Wastewater Description:</b> <u>Sewage Effluent</u>	

**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 <sub>5</sub>	25	Average Monthly	133.102(a)(4)(i)	92a.47(a)(1)
	40	Average Weekly	133.102(a)(4)(ii)	92a.47(a)(2)
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)
Total Residual Chlorine	0.5	Average Monthly	-	92a.48(b)(2)
E. Coli	Report (No./100 ml)	IMAX	-	§ 92a.61

Comments: Monitoring for E. Coli is placed in the permit in accordance with the Department’s SOP entitled “Establishing Effluent Limitations for Individual Sewage Permits.”

**Water Quality-Based Limitations**

A “Reasonable Potential Analysis” determined the following parameters were candidates for limitations: N/A

CBOD<sub>5</sub>, Ammonia, and DO are evaluated using WQM 7.0 (See Attachment 1 Attachment 2). Nitrogen, phosphorus and E Coli are monitor and report.

The following limitations were determined through water quality modeling (output files attached):

Parameter	Limit (mg/l)	SBC	Model
Dissolved Oxygen	4.0	Daily Min.	WQM 7.0
CBOD <sub>5</sub>	25	Avg. Monthly	WQM 7.0
	50	IMAX	
Ammonia Nitrogen (Nov 1 - Apr 30)	15.9	Average Monthly	WQM 7.0
	31.8	IMAX	
Ammonia Nitrogen (May 1 – Oct 31)	5.3	Average Monthly	WQM 7.0
	10.6	IMAX	

Comments: The TRC spreadsheet calculated a more stringent WQBEL for TRC at perennial conditions using the plant design flow, but the limit was not deemed necessary because (1) The discharge is approximately a third of a mile away from perennial conditions traveling through a vegetated swale, (2) the actual monthly average discharge volume (< 0.006 MGD) does not produce a more stringent WQBEL when placed in the TRC spreadsheet, and (3) the discharge is intermittent, likely primarily occurring in wet weather because wastewater tends to partially evaporate in lagoon-type systems.

A review of the past 3 years of eDMR data indicates that the permittee was able to meet the 5.3 mg/L limit for Ammonia Nitrogen 86% of the time, therefore, a compliance schedule will not be necessary.

**Best Professional Judgment (BPJ) Limitations**

Comments: Monitoring for total nitrogen, total phosphorus and raw sewage influent monitoring for BOD<sub>5</sub> and TSS are placed in the permit in accordance with the Department's SOP entitled "Establishing Effluent Limitations for Individual Sewage Permits."

**Anti-Backsliding**

No backsliding of limits is being proposed.

**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” (386-0400-001), SOPs and/or BPJ.

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

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) <sup>(1)</sup>		Concentrations (mg/L)				Minimum <sup>(2)</sup> Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Average Monthly	Maximum	Instant. Maximum		
Flow (MGD)	Report	XXX	XXX	XXX	XXX	XXX	1/week	Measured
pH (S.U.)	XXX	XXX	6.0 Daily Min	XXX	9.0 Daily Max	XXX	1/day	Grab
DO	XXX	XXX	4.0 Daily Min	XXX	XXX	XXX	1/day	Grab
TRC	XXX	XXX	XXX	0.5	XXX	1.6	1/day	Grab
CBOD5	XXX	XXX	XXX	25.0	XXX	50	2/month	Grab
TSS	XXX	XXX	XXX	30.0	XXX	60	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
E. Coli (No./100 ml)	XXX	XXX	XXX	XXX	XXX	Report	1/quarter	Grab
Total Nitrogen	XXX	XXX	XXX	Report Avg Qrtly	XXX	XXX	1/quarter	Grab
Ammonia Nov 1 - Apr 30	XXX	XXX	XXX	15.9	XXX	31.8	2/month	Grab
Ammonia May 1 - Oct 31	XXX	XXX	XXX	5.3	XXX	10.6	2/month	Grab
Total Phosphorus	XXX	XXX	XXX	Report Avg Qrtly	XXX	XXX	1/quarter	Grab

Compliance Sampling Location: Outfall 001, after disinfection.

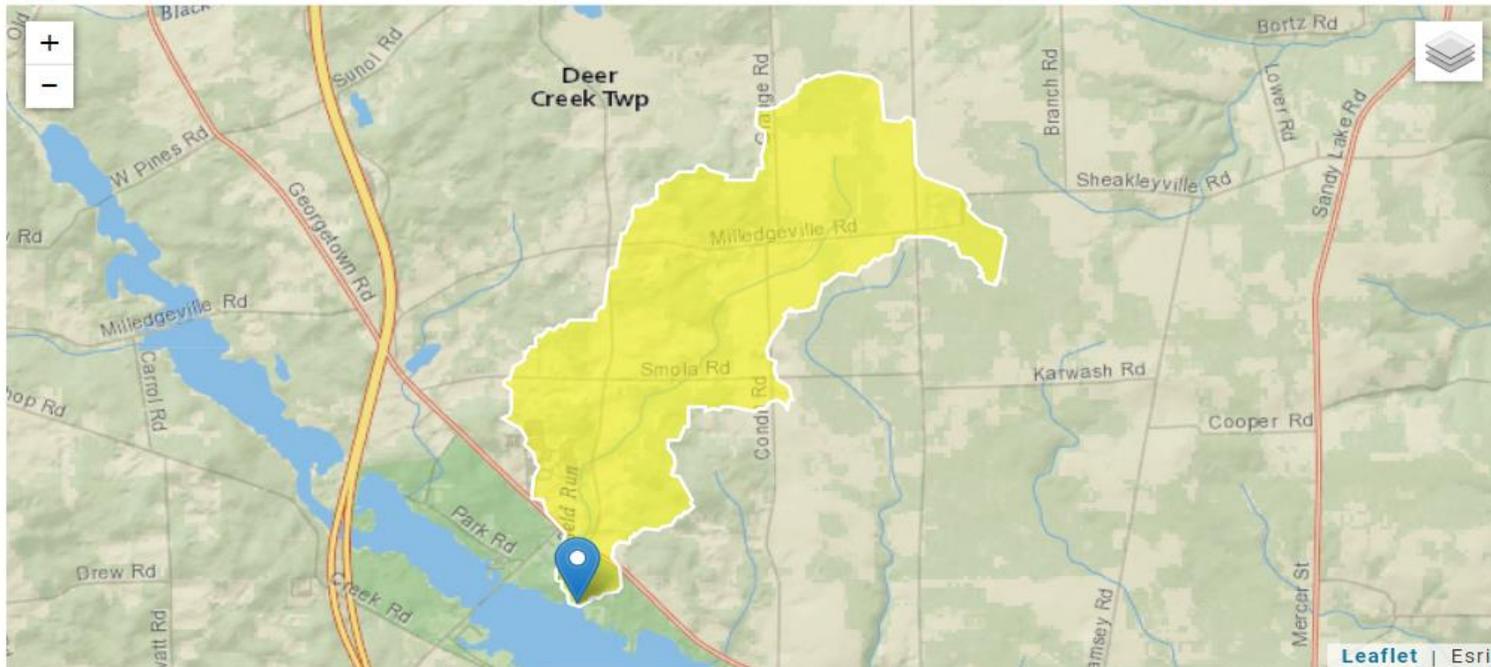
**Outfall Location - eMap with Aerial Imagery**

The screenshot displays the eMapPA web application interface. At the top, the Pennsylvania Department of Environmental Protection logo and 'eMapPA' branding are visible. The main map area shows an aerial view of a residential area with a yellow 'X' marker indicating an outfall location. The coordinates for this location are Latitude: 41.435328 and Longitude: -80.144886. The map interface includes a legend on the left side, a top navigation bar with 'Layers', 'Legend', 'Tasks', 'Themes', and 'Links', and a header with the Pennsylvania Department of Environmental Protection logo and 'eMapPA' branding. A 'Locate Latitude and Longitude' dialog box is open on the right side of the map, showing input fields for Latitude (41, 26, 7.18) and Longitude (-80, 8, 41.59) in DD/MM/SS format, along with 'Locate' and 'Close' buttons. The map also features a scale bar at the bottom left and a 'Powered by Esri' logo at the bottom right.

**Drainage Area Location – StreamStats with Aerial Imagery**

StreamStats Report

Region ID: PA  
Workspace ID: PA20231103180848139000  
Clicked Point (Latitude, Longitude): 41.42288, -80.14296  
Time: 2023-11-03 14:09:12 -0400



+

> Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	2.51	square miles

## Attachment 1

### Dry Reach Modeling

#### WQM 7.0 Effluent Limits

<u>SWP Basin</u>		<u>Stream Code</u>		<u>Stream Name</u>			
16G		58643		Trib 58643 to Schofield Run			
RMI	Name	Permit Number	Disc Flow (mgd)	Parameter	Effl. Limit 30-day Ave. (mg/L)	Effl. Limit Maximum (mg/L)	Effl. Limit Minimum (mg/L)
0.960	Goddard Park	PA0034061	0.060	CBOD5	25		
				NH3-N	25	50	
				Dissolved Oxygen			4

**WQM 7.0 D.O.Simulation**

<u>SWP Basin</u>	<u>Stream Code</u>	<u>Stream Name</u>		
16G	58643	Trib 58643 to Schofield Run		
<u>RMI</u>	<u>Total Discharge Flow (mgd)</u>	<u>Analysis Temperature (°C)</u>	<u>Analysis pH</u>	
0.960	0.060	20.000	7.100	
<u>Reach Width (ft)</u>	<u>Reach Depth (ft)</u>	<u>Reach WDRatio</u>	<u>Reach Velocity (fps)</u>	
3.094	0.358	8.640	0.084	
<u>Reach CBOD5 (mg/L)</u>	<u>Reach Kc (1/days)</u>	<u>Reach NH3-N (mg/L)</u>	<u>Reach Kn (1/days)</u>	
24.93	1.500	24.93	0.700	
<u>Reach DO (mg/L)</u>	<u>Reach Kr (1/days)</u>	<u>Kr Equation</u>	<u>Reach DO Goal (mg/L)</u>	
4.011	27.591	Owens	2	
<u>Reach Travel Time (days)</u>	<u>Subreach Results</u>			
0.458	<u>TravTime (days)</u>	<u>CBOD5 (mg/L)</u>	<u>NH3-N (mg/L)</u>	<u>D.O. (mg/L)</u>
	0.046	23.28	24.15	4.27
	0.092	21.73	23.38	4.50
	0.138	20.29	22.64	4.71
	0.183	18.94	21.93	4.92
	0.229	17.68	21.24	5.11
	0.275	16.50	20.57	5.29
	0.321	15.41	19.92	5.46
	0.367	14.38	19.29	5.62
	0.413	13.43	18.68	5.78
	0.458	12.54	18.09	5.93

**WQM 7.0 Modeling Specifications**

Parameters	D.O.	Use Inputted Q1-10 and Q30-10 Flows	<input checked="" type="checkbox"/>
WLA Method	EMPR	Use Inputted W/D Ratio	<input type="checkbox"/>
Q1-10/Q7-10 Ratio	0.64	Use Inputted Reach Travel Times	<input type="checkbox"/>
Q30-10/Q7-10 Ratio	1.36	Temperature Adjust Kr	<input checked="" type="checkbox"/>
D.O. Saturation	90.00%	Use Balanced Technology	<input checked="" type="checkbox"/>
D.O. Goal	2		

**Input Data WQM 7.0**

SWP Basin	Stream Code	Stream Name	RMI	Elevation (ft)	Drainage Area (sq mi)	Slope (ft/ft)	PWS Withdrawal (mgd)	Apply FC
16G	58643	Trib 58643 to Schofield Run	0.960	1297.00	0.25	0.00000	0.00	<input checked="" type="checkbox"/>

**Stream Data**

Design Cond.	LFY	Trib Flow	Stream Flow	Rch Trav Time	Rch Velocity	WD Ratio	Rch Width	Rch Depth	Tributary Temp	Tributary pH	Stream Temp	Stream pH
	(cfsm)	(cfs)	(cfs)	(days)	(fps)		(ft)	(ft)	(°C)		(°C)	
Q7-10	0.001	0.00	0.00	0.000	0.000	0.0	0.00	0.00	20.00	7.10	0.00	0.00
Q1-10		0.00	0.00	0.000	0.000							
Q30-10		0.00	0.00	0.000	0.000							

**Discharge Data**

Name	Permit Number	Existing Disc Flow (mgd)	Permitted Disc Flow (mgd)	Design Disc Flow (mgd)	Reserve Factor	Disc Temp (°C)	Disc pH
Goddard Park	PA0034061	0.0600	0.0000	0.0000	0.000	20.00	7.10

**Parameter Data**

Parameter Name	Disc Conc (mg/L)	Trib Conc (mg/L)	Stream Conc (mg/L)	Fate Coef (1/days)
CBOD5	25.00	0.00	0.00	1.50
Dissolved Oxygen	4.00	8.24	0.00	0.00
NH3-N	25.00	0.00	0.00	0.70

**Input Data WQM 7.0**

SWP Basin	Stream Code	Stream Name	RMI	Elevation (ft)	Drainage Area (sq mi)	Slope (ft/ft)	PWS Withdrawal (mgd)	Apply FC
16G	58643	Trib 58643 to Schofield Run	0.330	1236.00	2.41	0.00000	0.00	<input checked="" type="checkbox"/>

**Stream Data**

Design Cond.	LFY	Trib Flow	Stream Flow	Rch Trav Time	Rch Velocity	WD Ratio	Rch Width	Rch Depth	Tributary Temp	Tributary pH	Stream Temp	Stream pH
	(cfsm)	(cfs)	(cfs)	(days)	(fps)		(ft)	(ft)	(°C)		(°C)	
Q7-10	0.001	0.00	0.00	0.000	0.000	0.0	0.00	0.00	20.00	7.10	0.00	0.00
Q1-10		0.00	0.00	0.000	0.000							
Q30-10		0.00	0.00	0.000	0.000							

Discharge Data							
Name	Permit Number	Existing Disc Flow (mgd)	Permitted Disc Flow (mgd)	Design Disc Flow (mgd)	Reserve Factor	Disc Temp (°C)	Disc pH
		0.0000	0.0000	0.0000	0.000	25.00	7.00

Parameter Data				
Parameter Name	Disc Conc (mg/L)	Trib Conc (mg/L)	Stream Conc (mg/L)	Fate Coef (1/days)
CBOD5	25.00	2.00	0.00	1.50
Dissolved Oxygen	3.00	8.24	0.00	0.00
NH3-N	25.00	0.00	0.00	0.70

**WQM 7.0 Wasteload Allocations**

<u>SWP Basin</u>	<u>Stream Code</u>	<u>Stream Name</u>
16G	58643	Trib 58643 to Schofield Run

**Dissolved Oxygen Allocations**

RMI	Discharge Name	<u>CBOD5</u>		<u>NH3-N</u>		<u>Dissolved Oxygen</u>		Critical Reach	Percent Reduction
		Baseline (mg/L)	Multiple (mg/L)	Baseline (mg/L)	Multiple (mg/L)	Baseline (mg/L)	Multiple (mg/L)		
0.96	Goddard Park	25	25	25	25	4	4	0	0

**WQM 7.0 Hydrodynamic Outputs**

<u>SWP Basin</u>		<u>Stream Code</u>		<u>Stream Name</u>								
16G		58643		Trib 58643 to Schofield Run								
RMI	Stream Flow (cfs)	PWS With (cfs)	Net Stream Flow (cfs)	Disc Analysis Flow (cfs)	Reach Slope (ft/ft)	Depth (ft)	Width (ft)	W/D Ratio	Velocity (fps)	Reach Trav Time (days)	Analysis Temp (°C)	Analysis pH
<b>Q7-10 Flow</b>												
0.960	0.00	0.00	0.00	.0928	0.01834	.358	3.09	8.64	0.08	0.458	20.00	7.10
<b>Q1-10 Flow</b>												
0.960	0.00	0.00	0.00	.0928	0.01834	NA	NA	NA	0.00	0.000	0.00	0.00
<b>Q30-10 Flow</b>												
0.960	0.00	0.00	0.00	.0928	0.01834	NA	NA	NA	0.00	0.000	0.00	0.00

**Attachment 2**

**Perennial Reach Modeling**

For Ammonia Nitrogen, result is less than the input indicating ammonia is still recovering. Therefore, for determining the initial protective ammonia limit:

$$C_T = C_0 e^{-kt}$$

$$C_0 = C_T e^{kt}$$

$$C_0 = 3.88 e^{0.7 \times 0.458} = 5.3 \text{ mg/L}$$

**WQM 7.0 Effluent Limits**

<u>SWP Basin</u>		<u>Stream Code</u>		<u>Stream Name</u>			
16G		58643		Trib 58643 to Schofield Run			
RMI	Name	Permit Number	Disc Flow (mgd)	Parameter	Effl. Limit 30-day Ave. (mg/L)	Effl. Limit Maximum (mg/L)	Effl. Limit Minimum (mg/L)
0.330	Goddard Park	PA0034061	0.060	CBOD5	12.54		
				NH3-N	3.88	7.76	
				Dissolved Oxygen			5.93

**WQM 7.0 D.O.Simulation**

<u>SWP Basin</u>	<u>Stream Code</u>	<u>Stream Name</u>		
16G	58643	Trib 58643 to Schofield Run		
<u>RMI</u>	<u>Total Discharge Flow (mgd)</u>	<u>Analysis Temperature (°C)</u>	<u>Analysis pH</u>	
0.330	0.060	23.273	7.399	
<u>Reach Width (ft)</u>	<u>Reach Depth (ft)</u>	<u>Reach WDRatio</u>	<u>Reach Velocity (fps)</u>	
6.803	0.418	16.279	0.095	
<u>Reach CBOD5 (mg/L)</u>	<u>Reach Kc (1/days)</u>	<u>Reach NH3-N (mg/L)</u>	<u>Reach Kn (1/days)</u>	
5.64	1.099	1.41	0.901	
<u>Reach DO (mg/L)</u>	<u>Reach Kr (1/days)</u>	<u>Kr Equation</u>	<u>Reach DO Goal (mg/L)</u>	
6.984	24.260	Owens	5	
<u>Reach Travel Time (days)</u>	<b>Subreach Results</b>			
0.213	<u>TravTime (days)</u>	<u>CBOD5 (mg/L)</u>	<u>NH3-N (mg/L)</u>	<u>D.O. (mg/L)</u>
	0.021	5.49	1.38	7.38
	0.043	5.34	1.35	7.54
	0.064	5.20	1.33	7.54
	0.085	5.06	1.30	7.54
	0.106	4.92	1.28	7.54
	0.128	4.79	1.25	7.54
	0.149	4.66	1.23	7.54
	0.170	4.54	1.21	7.54
	0.191	4.42	1.18	7.54
	0.213	4.30	1.16	7.54

**WQM 7.0 Modeling Specifications**

Parameters	Both	Use Inputted Q1-10 and Q30-10 Flows	<input checked="" type="checkbox"/>
WLA Method	EMPR	Use Inputted W/D Ratio	<input type="checkbox"/>
Q1-10/Q7-10 Ratio	0.64	Use Inputted Reach Travel Times	<input type="checkbox"/>
Q30-10/Q7-10 Ratio	1.36	Temperature Adjust Kr	<input checked="" type="checkbox"/>
D.O. Saturation	90.00%	Use Balanced Technology	<input checked="" type="checkbox"/>
D.O. Goal	5		

**Input Data WQM 7.0**

SWP Basin	Stream Code	Stream Name	RMI	Elevation (ft)	Drainage Area (sq mi)	Slope (ft/ft)	PWS Withdrawal (mgd)	Apply FC
16G	58643	Trib 58643 to Schofield Run	0.330	1236.00	2.41	0.00000	0.00	<input checked="" type="checkbox"/>

**Stream Data**

Design Cond.	LFY	Trib Flow	Stream Flow	Rch Trav Time	Rch Velocity	WD Ratio	Rch Width	Rch Depth	Tributary Temp	Tributary pH	Stream Temp	Stream pH
	(cfsm)	(cfs)	(cfs)	(days)	(fps)		(ft)	(ft)	(°C)		(°C)	
Q7-10	0.073	0.00	0.00	0.000	0.000	0.0	0.00	0.00	25.00	7.72	0.00	0.00
Q1-10		0.00	0.00	0.000	0.000							
Q30-10		0.00	0.00	0.000	0.000							

**Discharge Data**

Name	Permit Number	Existing Disc Flow (mgd)	Permitted Disc Flow (mgd)	Design Disc Flow (mgd)	Reserve Factor	Disc Temp (°C)	Disc pH
Goddard Park	PA0034061	0.0600	0.0000	0.0000	0.000	20.00	7.10

**Parameter Data**

Parameter Name	Disc Conc (mg/L)	Trib Conc (mg/L)	Stream Conc (mg/L)	Fate Coef (1/days)
CBOD5	12.54	2.00	0.00	1.50
Dissolved Oxygen	5.93	7.54	0.00	0.00
NH3-N	18.09	0.10	0.00	0.70

**Input Data WQM 7.0**

SWP Basin	Stream Code	Stream Name	RMI	Elevation (ft)	Drainage Area (sq mi)	Slope (ft/ft)	PWS Withdrawal (mgd)	Apply FC
16G	58643	Trib 58643 to Schofield Run	0.001	1194.00	2.51	0.00000	0.00	<input checked="" type="checkbox"/>

**Stream Data**

Design Cond.	LFY	Trib Flow	Stream Flow	Rch Trav Time	Rch Velocity	WD Ratio	Rch Width	Rch Depth	Tributary Temp	pH	Stream Temp	pH
	(cfsm)	(cfs)	(cfs)	(days)	(fps)		(ft)	(ft)	(°C)		(°C)	
Q7-10	0.073	0.00	0.00	0.000	0.000	0.0	0.00	0.00	25.00	7.72	0.00	0.00
Q1-10		0.00	0.00	0.000	0.000							
Q30-10		0.00	0.00	0.000	0.000							

Discharge Data							
Name	Permit Number	Existing Disc Flow (mgd)	Permitted Disc Flow (mgd)	Design Disc Flow (mgd)	Reserve Factor	Disc Temp (°C)	Disc pH
		0.0000	0.0000	0.0000	0.000	25.00	7.00

Parameter Data				
Parameter Name	Disc Conc (mg/L)	Trib Conc (mg/L)	Stream Conc (mg/L)	Fate Coef (1/days)
CBOD5	25.00	2.00	0.00	1.50
Dissolved Oxygen	3.00	8.24	0.00	0.00
NH3-N	25.00	0.00	0.00	0.70

**WQM 7.0 Wasteload Allocations**

SWP Basin      Stream Code                      Stream Name  
 16G                      58643                                      Trib 58643 to Schofield Run

**NH3-N Acute Allocations**

RMI	Discharge Name	Baseline Criterion (mg/L)	Baseline WLA (mg/L)	Multiple Criterion (mg/L)	Multiple WLA (mg/L)	Critical Reach	Percent Reduction
0.330	Goddard Park	9.29	20.43	9.29	20.43	0	0

**NH3-N Chronic Allocations**

RMI	Discharge Name	Baseline Criterion (mg/L)	Baseline WLA (mg/L)	Multiple Criterion (mg/L)	Multiple WLA (mg/L)	Critical Reach	Percent Reduction
0.330	Goddard Park	1.16	3.88	1.16	3.88	0	0

**Dissolved Oxygen Allocations**

RMI	Discharge Name	<u>CBOD5</u>		<u>NH3-N</u>		<u>Dissolved Oxygen</u>		Critical Reach	Percent Reduction
		Baseline (mg/L)	Multiple (mg/L)	Baseline (mg/L)	Multiple (mg/L)	Baseline (mg/L)	Multiple (mg/L)		
0.33	Goddard Park	12.54	12.54	3.88	3.88	5.93	5.93	0	0

**WQM 7.0 Hydrodynamic Outputs**

<u>SWP Basin</u>		<u>Stream Code</u>				<u>Stream Name</u>						
16G		58643				Trib 58643 to Schofield Run						
RMI	Stream Flow (cfs)	PWS With (cfs)	Net Stream Flow (cfs)	Disc Analysis Flow (cfs)	Reach Slope (ft/ft)	Depth (ft)	Width (ft)	W/D Ratio	Velocity (fps)	Reach Trav Time (days)	Analysis Temp (°C)	Analysis pH
<b>Q7-10 Flow</b>												
0.330	0.18	0.00	0.18	.0928	0.02418	.418	6.8	16.28	0.09	0.213	23.27	7.40
<b>Q1-10 Flow</b>												
0.330	0.11	0.00	0.11	.0928	0.02418	NA	NA	NA	0.08	0.247	22.74	7.33
<b>Q30-10 Flow</b>												
0.330	0.24	0.00	0.24	.0928	0.02418	NA	NA	NA	0.11	0.189	23.60	7.44