

 Application Type
 Renewal

 Facility Type
 Industrial

 Major / Minor
 Minor

# NPDES PERMIT FACT SHEET INDIVIDUAL INDUSTRIAL WASTE (IW) AND IW STORMWATER

Application No.PA0232963APS ID1092348Authorization ID1446408

#### **Applicant and Facility Information**

Applicant Name	American Truck Plazas, LLC	Facility Name	Penn 80 Milton/Flying J
Applicant Address	1460 N Ridge Road	Facility Address	1460 N Ridge Road
	Milton, PA 17847-7877	_	Milton, PA 17847-7877
Applicant Contact	Jamie Hummel	Facility Contact	Jamie Hummel
Applicant Phone	(570) 772-4912	Facility Phone	(570) 772-4912
Client ID	282180	Site ID	257348
SIC Code	4952	Municipality	Turbot Township
SIC Description	Trans. & Utilities - Sewerage Systems	County	Northumberland
Date Application Recei	ived <u>June 30, 2023</u>	EPA Waived?	Yes
Date Application Accept		If No, Reason	
Purpose of Application	Renewal of a NPDES Permit		

#### Summary of Review

This American Truck Plazas facility is a truck/auto stop including diesel and gasoline fueling, truck maintenance, convenience store, restaurant and truck wash in Turbot Township, Northumberland County. A map indicating the location is attached (Attachment A).

Sludge use and disposal description and location(s): The facility's sludge is sent to other wastewater treatment facilities for further processing.

#### 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		Keith C. Allison / Project Manager	January 18, 2024
X		H. Z. M Nicholas W. Hartranft, P.E. / Environmental Engineer Manager	January 18, 2024

Discharge, Receiving Waters and V	Ater Supply Information	
Outfall No. <u>005</u> Latitude <u>41º 1' 24.68"</u> Quad Name <u>Milton, PA</u> Wastewater Description: <u>Sewag</u>	Design Flow (MGD) Longitude Quad Code e Effluent	0.075 -76º 47' 50.09"
Receiving WatersLimestone RuNHD Com ID66919497Drainage Area8.4 mi²Q7-10 Flow (cfs)1.11Elevation (ft)487Watershed No.10-DExisting UseN/AExceptions to UseNone	n Stream Code RMI Yield (cfs/mi <sup>2</sup> ) Q7-10 Basis Slope (ft/ft) Chapter 93 Class. Existing Use Qualifier Exceptions to Criteria	19094         3.8         0.132         USGS StreamStats         0.00154         WWF, MF         N/A         None
Assessment Status       Impair         Cause(s) of Impairment       SILT.         Source(s) of Impairment       AGR         TMDL Status       Final         Nearest Downstream Public Water         PWS Waters       West Branch Su	ed ATION, PATHOGENS CULTURE Name <u>Limestone R</u> Supply Intake <u>PA American Water Company</u> squehanna River Distance from Outfall (mi)	Run TMDL Milton, PA Approx. 4.5

Changes Since Last Permit Issuance: None. The above stream and drainage characteristics were determined for previous review and remain adequate.

# Other Comments:

In addition to sewage, the treatment plant also receives wastewater from a truck wash.

This discharge is not expected to affect the impairment to Limestone Run at this time with the limitations and monitoring proposed. The Limestone Run TMDL does not list specific point source discharges in the watershed but does include a sediment Wasteload allocation for point sources of 80 pounds per day. This discharge at design flow of 0.075 MGD and the average monthly limit of 30 mg/L TSS would contribute only 0.27 pounds per day to the watershed. Therefore, no more stringent wasteload limit should be included in the permit at this time. In addition, this discharge consistently meets its fecal coliform limits.

No downstream water supply is expected to be affected by this discharge at this time with the requirements, effluent limitations, and monitoring requirements proposed for this NPDES permit.

#### **Stormwater Discharges from Industrial Activities**

Stormwater discharges from the facility have been regulated under requirements of the Pennsylvanian Clean Streams Law and 40 CFR 122.26(a)(9)(i)(D) due to the prior occurrence of polluting discharges from the facility's stormwater system.

Four outfalls have been identified in the application as receiving stormwater runoff, designated as 001, 002, 003 and 004.

The closest applicable Appendix of the PAG-03 General Permit for the Discharge of Stormwater from Industrial Activities would be Appendix L for Petroleum Stations and Terminals. Appendix L currently requires twice per year monitoring of stormwater discharges for Total Nitrogen, Total Phosphorus, Total Suspended Solids (TSS), and Oil and Grease. This monitoring will be applied including the addition of TN and TP monitoring and the reduction in frequency from quarterly to 2/year.

The facility had three oil/water separators (OWSs), one serving the diesel fuel dispenser area, one serving the truck maintenance garage, and one serving the truck wash. The OWS for the truck fueling island discharges to the sedimentation basin that discharges at Outfall 004. The OWS for the maintenance garage has been converted to a storage tank and therefore should not discharge unless it overflows. The truck wash OWS discharges to the Sewage Treatment Plant.

The permittee has conducted periodic spray down or grit wash of the diesel fuel dispenser area. To monitor the potential pollutant impacts of discharges from this operation, monitoring is required at the discharge from the Oil Water Separator (OWS) when discharging for Total Suspended Solids and Oil and Grease.

In addition, to avoid washout of grit or oily substances from the OWS serving the diesel dispenser area and holding tank serving the truck maintenance building, a weekly check of each OWS will be included in the permit. These will be identified in the permit as IMPs 104 and 105, respectively. Monitoring will be of both the grit depth and the oil layer thickness.

All stormwater Outfalls 001-004 ultimately discharge to the Limestone Run (WWF). The Part C condition of this NPDES permit will also include the applicable benchmark values from the PAG-03 (100 mg/L for TSS and 30 mg/L for Oil and Grease).

Outfall Nos <u>00</u> 00	01, 002, 003, & 004 01 – 41º 1' 8.3"	Design Flow (MGD)	<u>0</u> 001 – 76° 47' 32.4"
00	02 – 41º 1' 11.2"		002 – 76º 47' 38.3"
00	03 – 41º 1' 10.7"		003 – 76º 47' 42.1"
Latitude <u>00</u>	04 – 41º 1' 11.7"	Longitude	<u>004 – 76° 48'</u> 1.0"
Wastewater Des	cription: Stormwater for 001, 002 and	003, Stormwater and Industr	ial Wastewater for 004
	Limestone Run		
Receiving Water	s (UNT to Limestone Run for 001)	_ Stream Code	19094
NHD Com ID	66919497	RMI	3.8 – 4.2

	T	reatment Facility Summar	у							
Treatment Facility Name: American Truck Plazas LLC WWTP										
WQM Permit No.	Issuance Date	Perm	nit For:							
4993404	Original-3/1/94Construction and operation of the existing treatmentTransfer – 11/9/09plant.Transfer – 11/8/10Transfer – 11/8/10									
	Degree of			Avg Annual						
Waste Type	Treatment	Process Type	Disinfection	Flow (MGD)						
Sewage	Secondary	Extended Aeration	Sodium Hypochlorite	0.075						
Hydraulic Capacity (MGD)	Organic Capacity (Ibs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal						
0.075	200.16	Not Overloaded	Sludge holding	Other STP						

Changes Since Last Permit Issuance: None

Other Comments: The sewage treatment facility, as permitted under WQM permit No. 4993404-T2, consists of a 25,000-gallon equalization tank, two 37,500-gallon aeration tanks, two clarifiers, liquid hypochlorite disinfection with contact tank, and 25,000-gallon sludge holding tank.

### **Compliance History**

# DMR Data for Outfall 001 (from December 1, 2022 to November 30, 2023)

Parameter	3 <sup>rd</sup> Quarter 2023	2 <sup>nd</sup> Quarter 2023	1 <sup>st</sup> quarter 2023	4 <sup>th</sup> quarter 2022
TSS (mg/L) Daily Maximum	10.0	10.4	22.4	106
Oil and Grease (mg/L) Daily Maximum	< 5.60	< 5.45	< 5.45	< 6.00

### DMR Data for Outfall 002 (from December 1, 2022 to November 30, 2023)

Parameter	3 <sup>rd</sup> Quarter 2023	2 <sup>nd</sup> Quarter 2023	1 <sup>st</sup> quarter 2023	4 <sup>th</sup> quarter 2022
TSS (mg/L) Daily Maximum	9.20	12.4	10.4	54.8
Oil and Grease (mg/L) Daily Maximum	< 5.20	< 5.45	< 5.35	< 6.25

# DMR Data for Outfall 003 (from December 1, 2022 to November 30, 2023)

Parameter	3 <sup>rd</sup> Quarter 2023	2 <sup>nd</sup> Quarter 2023	1 <sup>st</sup> quarter 2023	4 <sup>th</sup> quarter 2022
TSS (mg/L) Daily Maximum	5.20	10.4	18	13.2
Oil and Grease (mg/L) Daily Maximum	< 5.50	< 5.55	< 6.10	< 6.15

#### DMR Data for Outfall 004 (from December 1, 2022 to November 30, 2023)

Parameter	3 <sup>rd</sup> Quarter 2023	2 <sup>nd</sup> Quarter 2023	1 <sup>st</sup> quarter 2023	4 <sup>th</sup> quarter 2022
TSS (mg/L) Daily Maximum	11.6	7 60	14.8	728
Oil and Grease (mg/L)	1110	1.00	1 110	120
Daily Maximum	< 5.25	< 5.15	< 5.45	< 6.15

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DMR Data for Outfall 005 (from December 1, 2022 to November 30, 2023)

Parameter	NOV-23	OCT-23	SEP-23	AUG-23	JUL-23	JUN-23	MAY-23	APR-23	MAR-23	FEB-23	JAN-23	DEC-22
Flow (MGD)												
Average Monthly	0.005	0.005	0.005	0.006	0.006	0.005	0.005	0.005	0.004	0.007	0.004	0.005
pH (S.U.)												
Instantaneous												
Minimum	7.6	7.8	7.3	7.4	7.5	7.5	7.3	7.6	7.8	7.7	7.5	7.3
pH (S.U.)												
Instantaneous												
Maximum	8.2	8.8	8.0	7.8	7.8	8.1	8.0	8.2	8.2	8.2	8.0	7.7
DO (mg/L)												
Instantaneous								= = 4	4.05	. –	0.54	
Minimum	9.8	8.08	6.3	7.0	6.1	7.1	7.5	7.61	1.65	4.7	3.51	5.2
TRC (mg/L)		0.4	0.04	0.05		0.0		0.47	0.00		0.00	
Average Monthly	0.3	0.4	0.31	0.25	0.3	0.3	0.3	0.17	0.29	0.2	0.26	0.3
TRC (mg/L)												
Instantaneous	0.7	0.0	0.67	0.7	1.0	0.0	0.0	0.74	0.54	0.6	0.62	0.0
	0.7	0.9	0.67	0.7	1.0	0.9	0.8	0.74	0.54	0.6	0.63	0.8
CBOD5 (mg/L)	7.0	- 3.00	< 1.0	- 3.00	~ 3.00	- 3.00	< 5.0	3.6	5.9	- 3.00	5.0	10.5
	7.0	< 3.00	< <del>4</del> .0	< 3.00	< 3.00	< 3.00	< 5.0	5.0	5.0	< 3.00	5.0	10.5
Maximum	80	< 3.00	40	< 3.00	< 3.00	< 3.00	7.0	4 23	87	< 3.00	7.0	12.8
TSS (mg/L)	0.0	0.00	1.0	0.00	0.00	0.00	7.0	1.20	0.7	0.00	7.0	12.0
Average Monthly	7.0	6.0	6.0	5.2	8.00	3.00	4.0	10.6	2.8	22.8	20.1	48.1
TSS (mg/L)												
Instantaneous												
Maximum	7.0	8.0	8.0	8.80	8.00	4.00	4.0	10.8	2.8	22.8	28.5	44.2
Total Dissolved Solids												
(mg/L)												
Daily Maximum			1610			1710			2980			1490
Oil and Grease (mg/L)												
Average Quarterly			< 4.9			< 5.00			< 5.0			< 4.80
Oil and Grease (mg/L)												
Instantaneous												
Maximum			< 4.9			< 5.00			< 5.0			< 4.80
Fecal Coliform												
(No./100 ml)												
Geometric Mean	15.0	3.0	5.0	2.28	25.0	< 1.0	2.0	24.9	< 1.0	17.3	22.6	202.8
Fecal Coliform												
(No./100 ml)												
Instantaneous	17.0	7.0	7.0	5.0	405.0			aa 7		47.0		1010.0
Maximum	17.0	7.0	7.0	5.2	125.0	2.0	3.0	32.7	< 1.0	17.3	83.9	1046.2
Ammonia (mg/L)	0.4000	0.4000	0.4000	0.4000	0.4000	0.4000	0.4000	0.4000	0.4000	0.4000	0 77	0.0000
Average Monthly	< 0.1000	< 0.1000	< 0.1000	< 0.1000	< 0.1000	< 0.1000	< 0.1000	< 0.1000	< 0.1000	< 0.1000	0.77	< 0.2000

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Ammonia (mg/L)												
Instantaneous												
Maximum	< 0.1000	< 0.1000	< 0.1000	< 0.1000	< 0.1000	< 0.1000	< 0.1000	< 0.1000	< 0.1000	< 0.1000	1.340	< 0.2000

#### DMR Data for Outfall 104 (from December 1, 2022 to November 30, 2023)

Parameter	NOV-23	OCT-23	SEP-23	AUG-23	JUĹ-23	JUN-23	MAY-23	APR-23	MAR-23	FEB-23	JAN-23	DEC-22
TSS (mg/L) Internal Monitoring												
Point Daily Maximum	GG											
Oil and Grease (mg/L) Internal Monitoring Point Daily Maximum	GG											
Depth to Water Level (In) Internal Monitoring Point Daily Maximum	2	2	2	2	2	2	2	2	2	2	2	2
Depth to Water Level (In) Internal Monitoring Point Daily Maximum	19	19	19	19	15	15	15	15	15	13	13	13

# DMR Data for Outfall 105 (from December 1, 2022 to November 30, 2023)

Parameter	NOV-23	OCT-23	SEP-23	AUG-23	JUL-23	JUN-23	MAY-23	APR-23	MAR-23	FEB-23	JAN-23	DEC-22
Depth to Water Level												
(In)												
Internal Monitoring												
Point Daily Maximum	1	1	1	1	1	1	1	1	1	1	1	1
Depth to Water Level												
(In)												
Internal Monitoring												
Point Daily Maximum	1	1	1	1	1	1	1	1	1	1	1	1

# Compliance History, Cont'd

#### Effluent Violations for Outfall 005, from: December 1, 2022 to: November 30, 2023

Parameter	Date	SBC	DMR Value	Units	Limit Value	Units
TSS	12/31/22	Avg Mo	48.1	mg/L	30	mg/L

Compliance History, Cont'd							
Summary of Inspections:	The facility has been inspected at least annually over the past permit term. The most recent inspection on June 23, 2023 noted a TSS effluent violation but identified no operational violations at the time of inspection.						
Other Comments:	There are no open violations for American Truck Plazas in eFACTS.						

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Existing Effluent Limitations and Monitoring Requirements – Outfall 001, 002, 003, & 004 (Stormwater)								
		Monitoring Requirements						
Baramatar	Mass Units (Ibs/day) <sup>(1)</sup>			Concentra	Minimum <sup>(2)</sup>	Required		
Parameter	Average Monthly	Average Weekly	Minimum	Average Monthly	Daily Maximum	Instant. Maximum	Measurement Frequency	Sample Type
TSS	XXX	XXX	XXX	xxx	Report	XXX	1/quarter	Grab
Oil and Grease	XXX	XXX	XXX	ххх	Report	XXX	1/quarter	Grab

Existing Effluent Limitations and Monitoring Requirements – IMP 104 (Diesel dispenser OWS)									
		Effluent Limitations							
Deremeter	Mass Units	; (lbs/day) <sup>(1)</sup>		Concentrat	Minimum <sup>(2)</sup>	Required			
Falameter	Average Monthly	Daily Maximum	Minimum	Daily Maximum	Maximum	Instant. Maximum	Measurement Frequency	Sample Type	
TSS Internal Monitoring Point	XXX	XXX	XXX	Report	XXX	ХХХ	Daily when Discharging	Grab	
Oil and Grease Internal Monitoring Point	XXX	XXX	XXX	Report	XXX	ХХХ	Daily when Discharging	Grab	
Depth to Water Level (In) Internal Monitoring Point	XXX	Report*	XXX	Report**	XXX	XXX	1/week	Measured	

\* - Report Oil Layer Thickness \*\* - Report Sediment Depth

Proposed Effluent Limitations and Monitoring Requirements – IMP 105 (Truck Maintenance OWS)								
		Monitoring Requirements						
Baramatar	Mass Units (Ibs/day) <sup>(1)</sup>			Concentrat	Minimum <sup>(2)</sup>	Required		
Parameter	Average	Daily		Daily		Instant.	Measurement	Sample
	Monthly	Maximum	Minimum	Maximum	Maximum	Maximum	Frequency	Туре
Depth to Water Level (In)								
Internal Monitoring Point	XXX	Report*	XXX	Report**	XXX	XXX	1/week	Measured

\* - Report Oil Layer Thickness \*\* - Report Sediment Depth

# NPDES Permit No. PA0232963

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	Existing Effluent Limitations and Monitoring Requirements – Outfall 005 (WWTP)								
			Effluent L	imitations			Monitoring Red	quirements	
Parameter	Mass Units	Mass Units (Ibs/day) <sup>(1)</sup>		Concentrat	Minimum <sup>(2)</sup>	Required			
Farameter	Average Monthly	Average Weekly	Minimum	Average Monthly	Maximum	Instant. Maximum	Measurement Frequency	Sample Type	
Flow (MGD)	Report	XXX	XXX	XXX	XXX	XXX	Continuous	Metered	
рН (S.U.)	XXX	xxx	6.0 Inst Min	XXX	XXX	9.0	1/day	Grab	
DO	xxx	xxx	Report Inst Min	xxx	xxx	xxx	1/day	Grab	
TRC	XXX	ХХХ	ХХХ	0.5	xxx	1.6	1/day	Grab	
CBOD5	XXX	XXX	xxx	25	XXX	50	2/month	Grab	
TSS	XXX	XXX	XXX	30	XXX	60	2/month	Grab	
Total Dissolved Solids	xxx	xxx	xxx	Report Daily Max	xxx	xxx	1/quarter	Grab	
Oil and Grease	xxx	XXX	xxx	15 Avg Qrtly	xxx	30	1/quarter	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	Report Annl Avg	Report Daily Max	xxx	Report Daily Max	xxx	xxx	1/year	Grab	
Ammonia	XXX	XXX	xxx	Report	XXX	Report	2/month	Grab	
Total Phosphorus	Report Annl Avg	Report Daily Max	XXX	Report Daily Max	XXX	xxx	1/year	Grab	

#### **Development of Effluent Limitations**

Outfall No.	005		Design Flow (MGD)	0.075
Latitude	41º 1' 12.00"		Longitude	-76º 48' 1.00"
Wastewater De	escription:	Sewage Effluent	-	

#### **Technology-Based Limitations**

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

Parameter	Limit (mg/l)	SBC	Federal Regulation	State Regulation
CROD	25	Average Monthly	133.102(a)(4)(i)	92a.47(a)(1)
CBOD5	40	Average Weekly	133.102(a)(4)(ii)	92a.47(a)(2)
Total Suspended	30	Average Monthly	133.102(b)(1)	92a.47(a)(1)
Solids	45	Average Weekly	133.102(b)(2)	92a.47(a)(2)
рН	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)

Comments: The above limits are applicable and included in the existing permit.

#### Water Quality-Based Limitations

#### DO, CBOD5 and NH3-N

The WQM7.0 model allows the Department to evaluate point source discharges of dissolved oxygen (DO), carbonaceous BOD (CBOD<sub>5</sub>), and ammonia-nitrogen (NH<sub>3</sub>-N) into free-flowing streams and rivers. To accomplish this, the model simulates two basic processes: the mixing and degradation of NH<sub>3</sub>-N in the stream and the mixing and consumption of DO in the stream due to the degradation of CBOD<sub>5</sub> and NH<sub>3</sub>-N. WQM7.0 modeling was performed for the previous review for this discharge to the Limestone Run (see Attachment B) and showed that no limitations are necessary for these parameters beyond the technology-based secondary treatment limits listed above.

#### <u>TRC</u>

The above-listed BAT Total Residual Chlorine limit from 92a.48(b)(2) is applicable to the facility. The Department uses a modeling spreadsheet to determine necessary WQBELs for TRC toxicity based on instream dilution. The attached modeling results (See Attachment C) show that the BAT limit of 0.5 mg/l is adequate to protect the receiving stream.

#### **Toxics Management**

No additional "Reasonable Potential Analysis" was performed to determine additional toxic parameters as candidates for limitations for this STP discharge. However, see below under BPJ Limitations for requirements for Total Dissolved Solids and Oil and Grease.

#### **Chesapeake Bay Requirements**

A portion of the Chesapeake Bay and many of its tidal tributaries have been listed as impaired under Section 303(d) of the Water Pollution Control Act, 33 U.S.C. §1313(d). Total Nitrogen and Total Phosphorus cap loads have been established for significant dischargers in Pennsylvania to reduce the total nutrient load to the Bay and meet State of Maryland Water Quality Standards. This treatment plant is considered an existing Phase 5, insignificant Chesapeake Bay discharger per the Phase III Watershed Implementation Plan (WIP) and thus has not received Cap Loads. Annual monitoring under the current has resulted in an average TN concentration of 14 mg/L and an average TP concentration of 8.0 mg/L. Because adequate monitoring has been performed for the current permit term no additional monitoring for total nitrogen and total phosphorus will be required at this time.

# Best Professional Judgment (BPJ) Limitations

Comments: Pursuant to BPJ and due to discharge from the car wash and other potential sources quarterly monitoring of the STP discharge for Total Dissolved Solids (TDS) and Oils and Grease (O&G) has been included in the permit. These parameters have the potential to result from the truck wash operation and would typically pass through the aerobic treatment process with minimal removal. The limitations for Oil and Grease of 15 mg/L and 30 mg/L for Monthly Average and Instantaneous Maximum, respectively, from 25 Pa. Code 95.2(2)(ii) are included.

#### E. Coli

Quarterly E. coli monitoring will be required at this time due to recent changes to Chapter 93 of the Departments regulations and Department policy.

#### Anti-Backsliding

No proposed limitations in this proposed draft permit were made less stringent consistent with the anti-backsliding requirements of 40 CFR 122.44(I).

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.

		Effluent Limitations							
Paramotor	Mass Units	(lbs/day) <sup>(1)</sup>		Concentra	Minimum <sup>(2)</sup>	Required			
Falameter	Average Monthly	Average Weekly	Minimum	Average Monthly	Daily Maximum	Instant. Maximum	Measurement Frequency	Sample Type	
TSS	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab	
Oil and Grease	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab	
Total Nitrogen	xxx	XXX	xxx	ххх	Report	ххх	1/6 months	Calculation	
Total Phosphorus	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab	

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

Compliance Sampling Location: Outfall 001

Other Comments: Monitoring for Total Nitrogen and Total Phosphorus is new and the measurement frequency has been reduced from 1/quarter to 1/6 months

#### Outfall 002, Effective Period: Permit Effective Date through Permit Expiration Date.

		Monitoring Requirements						
Baramatar	Mass Units (Ibs/day) <sup>(1)</sup>			Concentra	Minimum <sup>(2)</sup>	Required		
Farallieter	Average Monthly	Average Weekly	Minimum	Average Monthly	Daily Maximum	Instant. Maximum	Measurement Frequency	Sample Type
TSS	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Oil and Grease	XXX	XXX	xxx	XXX	Report	XXX	1/6 months	Grab
Total Nitrogen	XXX	XXX	xxx	XXX	Report	XXX	1/6 months	Calculation
Total Phosphorus	XXX	XXX	xxx	XXX	Report	XXX	1/6 months	Grab

Compliance Sampling Location: Outfall 002

Other Comments: Monitoring for Total Nitrogen and Total Phosphorus is new and the measurement frequency has been reduced from 1/quarter to 1/6 months

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 003, Effective Period: Pe	ermit Effective Date through Permit Ex	piration Date.

			Effluent L	imitations.			Monitoring Requirements		
Baramatar	Mass Units	(lbs/day) <sup>(1)</sup>		Concentra	Minimum <sup>(2)</sup>	Required			
Farameter	Average Monthly	Average Weekly	Minimum	Average Monthly	Daily Maximum	Instant. Maximum	Measurement Frequency	Sample Type	
TSS	ХХХ	XXX	XXX	xxx	Report	XXX	1/6 months	Grab	
Oil and Grease	XXX	xxx	XXX	xxx	Report	xxx	1/6 months	Grab	
Total Nitrogen	XXX	ххх	xxx	ххх	Report	ххх	1/6 months	Calculation	
Total Phosphorus	XXX	XXX	XXX	xxx	Report	XXX	1/6 months	Grab	

Compliance Sampling Location: Outfall 003

Other Comments: Monitoring for Total Nitrogen and Total Phosphorus is new and the measurement frequency has been reduced from 1/quarter to 1/6 months

#### Outfall 004, Effective Period: Permit Effective Date through Permit Expiration Date.

			Effluent L	imitations			Monitoring Requirements		
Parameter	Mass Units	(lbs/day) <sup>(1)</sup>		Concentrat	Minimum <sup>(2)</sup>	Required			
Falameter	Average Monthly	Average Weekly	Minimum	Average Monthly	Daily Maximum	Instant. Maximum	Measurement Frequency	Sample Type	
TSS	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab	
Oil and Grease	XXX	XXX	xxx	XXX	Report	XXX	1/6 months	Grab	
Total Nitrogen	XXX	XXX	xxx	XXX	Report	XXX	1/6 months	Calculation	
Total Phosphorus	XXX	XXX	xxx	XXX	Report	XXX	1/6 months	Grab	

Compliance Sampling Location: Outfall 004

Other Comments: Monitoring for Total Nitrogen and Total Phosphorus is new and the measurement frequency has been reduced from 1/quarter to 1/6 months.

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.

			Effluent L	imitations			Monitoring Requirements		
Paramotor	Mass Units	(lbs/day) <sup>(1)</sup>		Concentrat	ions (mg/L)		Minimum <sup>(2)</sup>	Required	
Farameter	Average Monthly	Average Weekly	Minimum	Average Monthly	Maximum	Instant. Maximum	Monitoring Re Minimum <sup>(2)</sup> Measurement Frequency Continuous 1/day 1/day 2/month 2/month 1/quarter 1/quarter 2/month 2/month 2/month 1/quarter	Sample Type	
Flow (MGD)	Report	ххх	XXX	xxx	xxx	ХХХ	Continuous	Metered	
pH (S.U.)	xxx	ххх	6.0 Inst Min	xxx	XXX	9.0	1/day	Grab	
DO	XXX	XXX	Report Inst Min	XXX	XXX	ХХХ	1/day	Grab	
TRC	ХХХ	ХХХ	ХХХ	0.5	XXX	1.6	1/day	Grab	
CBOD5	XXX	ХХХ	ХХХ	25	XXX	50	2/month	Grab	
TSS	XXX	ХХХ	ХХХ	30	XXX	60	2/month	Grab	
Total Dissolved Solids	XXX	XXX	XXX	Report Daily Max	XXX	XXX	1/quarter	Grab	
Oil and Grease	XXX	xxx	XXX	15 Avg Qrtly	XXX	30	1/quarter	Grab	
Fecal Coliform (No./100 ml) Oct 1 - Apr 30	ххх	ххх	xxx	2000 Geo Mean	XXX	10000	2/month	Grab	
Fecal Coliform (No./100 ml) May 1 - Sep 30	ххх	xxx	ххх	200 Geo Mean	XXX	1000	2/month	Grab	
Ammonia	ХХХ	ХХХ	ХХХ	Report	XXX	Report	2/month	Grab	
E. Coli (No./100 ml)	XXX	XXX	XXX	XXX	Report Daily Max	10000	1/quarter	Grab	

## Outfall 005, Effective Period: Permit Effective Date through Permit Expiration Date.

Compliance Sampling Location: Outfall 005 (STP Discharge)

Other Comments: Total Nitrogen and Total Phosphorus have been removed as noted above. E. Coli monitoring is new as noted above.

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.

<b>Outfall 104, Effective Period</b>	: Permit Effective Date through	gh Permit Expiration Date.
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			Effluent L	imitations.			Monitoring Requirements		
Parameter	Mass Units	(lbs/day) <sup>(1)</sup>		Concentrat	Minimum <sup>(2)</sup>	Required			
Falancici	Average Monthly	je Daily Daily Ny Maximum Maximum Maxim		Maximum	Instant. Maximum	Measurement	Sample		
	wonuny	Waximum	winning	Waxiniuni	Waxiniuni	Maximum	Trequency	туре	
TSS							Daily when		
Internal Monitoring Point	XXX	XXX	XXX	Report	XXX	XXX	Discharging	Grab	
Oil and Grease							Daily when		
Internal Monitoring Point	XXX	XXX	XXX	Report	XXX	XXX	Discharging	Grab	
Depth to Water Level (In)									
Internal Monitoring Point	XXX	Report*	XXX	Report**	XXX	XXX	1/week	Measured	

\* - Report Oil Layer Thickness

\*\* - Report Sediment Depth

Compliance Sampling Location: at Outfall 104 – Diesel Fuel Dispenser Area Oil/Water Separator discharge for TSS and Oil and Grease from performing grit washing and Levels in the OWS for depth levels

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 105, Effective Period: Permit Effective Date through Permit Expiration Date.

			Effluent L	imitations			Monitoring Requirements		
Parameter	Mass Units	(lbs/day) <sup>(1)</sup>		Concentrat	Minimum <sup>(2)</sup>	Required			
Parameter	Average Monthly	Daily Maximum	Minimum	Daily Maximum	Maximum	Instant. Maximum	Measurement Frequency	Sample Type	
Depth to Water Level (In) Internal Monitoring Point	XXX	Report	XXX	Report	XXX	XXX	1/week	Measured	

\* - Report Oil Layer Thickness

\*\* - Report Sediment Depth

Compliance Sampling Location: Outfall 105 – Levels in Truck Maintenance Building Oil/Water Separator

	Tools and References Used to Develop Permit
	WQM for Windows Model (see Attachment )
	Toxics Management Spreadsheet (see Attachment )
	TRC Model Spreadsheet (see Attachment )
	Temperature Model Spreadsheet (see Attachment )
	Water Quality Toxics Management Strategy, 361-0100-003, 4/06.
$\times$	Technical Guidance for the Development and Specification of Effluent Limitations, 386-0400-001, 10/97.
	Policy for Permitting Surface Water Diversions, 386-2000-019, 3/98.
$\boxtimes$	Policy for Conducting Technical Reviews of Minor NPDES Renewal Applications, 386-2000-018, 11/96.
	Technology-Based Control Requirements for Water Treatment Plant Wastes, 386-2183-001, 10/97.
	Technical Guidance for Development of NPDES Permit Requirements Steam Electric Industry, 386-2183-002, 12/97.
	Pennsylvania CSO Policy, 386-2000-002, 9/08.
	Water Quality Antidegradation Implementation Guidance, 391-0300-002, 11/03.
	Implementation Guidance Evaluation & Process Thermal Discharge (316(a)) Federal Water Pollution Act, 386-2000-008, 4/97.
$\times$	Determining Water Quality-Based Effluent Limits, 386-2000-004, 12/97.
$\times$	Implementation Guidance Design Conditions, 386-2000-007, 9/97.
$\boxtimes$	Technical Reference Guide (TRG) WQM 7.0 for Windows, Wasteload Allocation Program for Dissolved Oxygen
	and Ammonia Nitrogen, Version 1.0, 386-2000-016, 6/2004.
	386-2000-012, 10/1997.
	Implementation Guidance for Section 95.6 Management of Point Source Phosphorus Discharges to Lakes, Ponds, and Impoundments, 386-2000-009, 3/99.
	Technical Reference Guide (TRG) PENTOXSD for Windows, PA Single Discharge Wasteload Allocation Program for Toxics, Version 2.0, 386-2000-015, 5/2004.
$\times$	Implementation Guidance for Section 93.7 Ammonia Criteria, 386-2000-022, 11/97.
	Policy and Procedure for Evaluating Wastewater Discharges to Intermittent and Ephemeral Streams, Drainage Channels and Swales, and Storm Sewers, 386-2000-013, 4/2008.
$\times$	Implementation Guidance Total Residual Chlorine (TRC) Regulation, 386-2000-011, 11/1994.
	Implementation Guidance for Temperature Criteria, 386-2000-001, 4/09.
	Implementation Guidance for Section 95.9 Phosphorus Discharges to Free Flowing Streams, 386-2000-021, 10/97.
	Implementation Guidance for Application of Section 93.5(e) for Potable Water Supply Protection Total Dissolved Solids, Nitrite-Nitrate, Non-Priority Pollutant Phenolics and Fluorides, 386-2000-020, 10/97.
	Field Data Collection and Evaluation Protocol for Determining Stream and Point Source Discharge Design Hardness, 386-2000-005, 3/99.
	Implementation Guidance for the Determination and Use of Background/Ambient Water Quality in the Determination of Wasteload Allocations and NPDES Effluent Limitations for Toxic Substances, 386-2000-010, 3/1999.
$\times$	Design Stream Flows, 386-2000-003, 9/98.
	Field Data Collection and Evaluation Protocol for Deriving Daily and Hourly Discharge Coefficients of Variation (CV) and Other Discharge Characteristics, 386-2000-006, 10/98.
	Evaluations of Phosphorus Discharges to Lakes, Ponds and Impoundments, 386-3200-001, 6/97.
$\times$	Pennsylvania's Chesapeake Bay Tributary Strategy Implementation Plan for NPDES Permitting, 4/07.
$\boxtimes$	SOP: Establishing Effluent Limitations for Individual Sewage Permits, 03/21, Establishing Effluent Limitations for Individual Industrial Permits, 9/10/13
	Other:

Attachments: A. Discharge Location Map B. WQM7.0 Model

C. TRC Model

Outfall 004 SW

'n

Google Earth

Outfall 002 SW

Oufall 003 SW

80

Outfall 001 SW

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(254)

N Ridge Rd

# Input Data WQM 7.0

	SWF <b>Basi</b>	<b>Strea</b> n Coo	am le	Stre	eam Name		RMI	Elev (	ration ft)	<b>Drainage</b> Area (sq mi)	Slope (fl/ft)	PWS Withdrawal (mgd)	Apply FC
	10D	190	094 LIMES	STONE RU	JN		3.80	D	487.00	8.40	0.00000	0.00	
					S	Stream Da	ita						
Design	LFY	Trib Flow	Stream Flow	Reh Trav Timo	Reh Velocity	WO <b>Ratio</b>	Reh Width	Reh Depth	Tem	<mark>Tributa!Y</mark> p pH	Tem	<mark>Stream</mark> np pH	
Cona.	(cfsm)	(cfs)	(els)	(days)	(fps)		(ft)	(ft)	('C)	)	('C	)	
Q?-10	0.132	0.00	0.00	0.000	0.000	0.0	0.00	0.00	) 20	0.00 7.0	00	0.00 0.00	)
Q1-10 Q30-10		0.00 0.00	0.00 0.00	0.000 0.000	0.000 0.000								

	Dis	scharge D	ata							
Name	Permit Number	Existi_ng Disc Flow	Perm Di Flo	itted sc ow	Desi Dis Flo	ign ic Re iow Fa	serve actor	Disc Temp	Disc pH	
		(mgu)	(m	ga)	(mg	ju)		(0)		
ATP	PA0232963-	0.0750	0.0	0000	0.0	000	0.000	25.00	7.00	
Parameter Data										
	Decemptor Name	Dis Co	ic one	Trik Cor	o 1e	Stream Cone	Fate Coef			
		(mg	g/L)	(mg/	Ľ)	(mg/L)	(1/days	s)		
CBOD5		2	25.00	2	2.00	0.00	) 1.	50		
Dissolve	ed Oxygen		3.00	ε	3.24	0.0	0.0	00		
NH3-N		2	25.00	C	0.00	0.00	0.7	70		

# Input Data WQM 7.0

	SWP <b>Bas</b> i	Stream in Cod	m le	Stro	eam Name		RM	l Ele	evation (ft)	Drainage Area (sq mi)	Slope (fl/ft)	PW3 <b>Withd</b> (mg	S <b>rawal</b> d)	Apply FC
	10D	190	94 LIMES	TONE RL	JN		0.4	80	460.00	10.00	0.0000	0	0.00	
					St	ream Dat	a							
Design	LFY	Trib Flow	<b>Stream</b> Flow	Reh Trav Time	Reh <b>Velocity</b>	WD <b>Ratio</b>	Reh Width	Reh Depth	n Tem	<b>Tributai:y</b> pppH	Te	<u>Stream</u> emp	рН	
Cond.	(cfsm)	(els)	(els)	(days)	(fps)		(ft)	(ft)	('C	)	('	C)		
Q7-10 Q1-10 Q30-10	0.132	0.00 0.00 0.00	0.00 0.00 0.00	0.000 0.000 0.000	0.000 0.000 0.000	0.0	0.00	0.0	00 20	0.00 7.0	00	0.00	0.00	
			Name	Per	Di mit Numbe	scharge Existin Disc r Flow (mgd)	Data g Pern Dise Flor (mge	nitted E c Di w Fle d) (me	Design sc Res ow Fa gd)	Dis erve Tem ctor ('C	ic I np )	Disc pH		
						0.000	0 0.00	00 0.	0000	0.000 2	25.00	7.00		
					Pa	arameter D C	Data isc one	Trib Cone	Stream Cone	Fate Coef				
		Parameter Name			(n	ng/L)	(mg/L)	(mg/L)	(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				

	SW	'P Basin	Strea	m Code				Stream	Name	-		
	100 19094 LIMES							MESTO	NE RUN			
RMI	Stream Flow	PWS With	Net <b>Stream</b> Flow	Disc Analysis Flow	Reach Slope	Depth	Width	W/O <b>Ratio</b>	Velocity	Reach Trav Time	Analysis Temp	Analysis pH
	(cfs)	(cfs)	(cfs)	(cfs)	(fl/fl)	(fl)	(fl)		(fps)	(days)	("C)	
Q7-1	0 Flow											
3.800	1.11	0.00	1.11	.116	0.00154	.542	16.91	31.2	0.13	1.518	20.47	7.00
Q1-1	0 Flow											
3.800	0.71	0.00	0.71	.116	0.00154	NA	NA	NA	0.11	1.893	20.70	7.00
Q30-	10 Flow											
3.800	1.51	0.00	1.51	.116	0.00154	NA	NA	NA	0.16	1.296	20.36	7.00

# WQM 7.0 H)Idrod)Inamic Out uts

# WQM 7.0 Modeling Specifications

Parameters	Both	Use Inputted 01-10 and 030-10 Flows	
WLA Method	EMPR	Use Inputted W/0 Ratio	
01-10/07-10 Ratio	0.64	Use Inputted Reach Travel Times	
030-10/07-10 Ratio	1.36	Temperature Adjust Kr	
0.0. Saturation	90.00%	Use Balanced Technology	
D. O. Goal	5		

	SWP Basin Stream Code					St	ream Nam	e	-		
	10D 19		9094	94 LIMESTONE RUN							
H3-N	Acute Alloc	ation	s								
RMI	Discharge	Name	Baseline Criterion (mg/L)	Baseline WLA (mg/L)	e	Multiple Criterion (mg/L)	Multiple WLA (mg/L)	€ )	Critical Reach	Percent Reduction	
3.8	00ATP		9.19		50	9.19		50	0	0	
H3-N	Chronic All	ocati	ons								
RMI	Discharge N	ame	Baseline Criterion (mg/L)	Baseline WLA (mg/L)		Multiple Criterion (mg/L)	Multiple WLA (mg/L)		Critical Reach	Percent Reduction	
3.8	00 ATP		1.87		25	1.87		25	0	0	

RMI	Discharge Name	Baseline (mg/L)	Multiple (mg/L)	Baseline (mg/L)	Multiple (mg/L)	Baseline (mg/L)	Multiple (mg/L)	Critical Reach	Percent Reduction
3.80A	TP	25	25	25	25	3	3	0	0

### Monday, October 22, 2018

<u>SWP Basin</u>	Stream Code			Stream Name			
10D	19094		L	IMESTONE RUN			
RMI Total Discha		e Flow (mgd)	) <u>Ana</u>	Ivsis Temperature (°C)	Analysis pH		
3.800	0.Q/	5		20.474	7.000		
Reach Width (ft)	Reach De	epth (ft)		Reach Velocity (fps)			
16.909	0.54	2 31.197			0.134		
<u>Reach CBOD5 {mg/L}</u>	<u>Reach Kc</u>	: (1/days) Reach NH3-N {mg/U		<u>leach NH3-N {mg/U</u>	<u>Reach Kn (1/days)</u>		
4.18	0.46	2		2.37	0.726		
Reach DO (mg/L)	Reach Kr (	<u>1/days</u> )		Kr Eduation	Reach DO Goai (md/L)		
7.746	1.97	8		Isivoglou	5		
Reach Travel Time (days	<u>s</u> )	Subreach	Results				
1.518	TravTime	CBOD5	NH3-N	D.O.			
	(days)	(mg/L)	(mg/L)	(mg/L)			
	0.152	3.89	2.12	6.75			
	0.304	3.62	1.90	6.13			
	0.455	3.37	1.70	5.79			
	0.607	3.14	1.52	5.64			
	0.759	2.92	1.36	5.63			
	0.911	2.72	1.22	5.70			
	1.063	2.53	1.09	5.83			
	1.214	2.36	0.98	6.00			
	1.366	2.19	0.88	6.18			
	1.518	2.04	0.79	6.38			

# WQM 7.0 D.O.Simulation

	SWP Basin 100	Stream Code 19094		Stream Name	N		
RMI	Name	Permit Number	Disc Flow (mgd)	Parameter	Effl. Limit 30-day Ave. (mg/L)	Ettl. Limit <b>Maximum</b> (mg/L)	Ettl. Limit <b>Minimum</b> (mg/L)
3.800	ATP	PA0232963-	0.075	CBOD5	25		
				NH3-N	25	50	
				Dissolved Oxygen			3

# WQM 7.0 Effluent Limits

TRC EVALUA	TION								
Input appropria	te values in <i>l</i>	A3:A9 and D3:D9							
1.11	= Q stream (	cfs)	0.5	= CV Daily					
0.075	= Q discharg	je (MGD)	0.5	= CV Hourly					
30	= no. sample	s	1	= AFC_Partial Mix Factor					
0.3	= Chlorine D	emand of Stream	1	= CFC_Partial Mix Factor					
0	= Chlorine D	emand of Discharge	15	= AFC_Criteria Compliance Time (min)					
0.5	= BAT/BPJ V	alue	720	= CFC_Criteria Compliance Time (min)					
0	= % Factor of	of Safety (FOS)		=Decay Coefficient (K)					
Source	Reference	AFC Calculations		Reference	CFC Calculations				
TRC	1.3.2.iii	WLA afc =	3.071	1.3.2.iii	WLA cfc = 2.986				
PENTOXSD TRG	5.1a	LTAMULT afc =	0.373	5.1c	LTAMULT cfc = 0.581				
PENTOXSD TRG	5.1b	LTA_afc=	1.144	5.1d	LTA_cfc = 1.736				
Source		Effluer	nt Limit Calcul	ations					
PENTOXSD TRG 5.1f AML MULT = 1.231									
PENTOXSD TRG	5.1g	AVG MON I	0.500	BAT/BPJ					
		INST MAX I	LIMIT (mg/l) =	1.635					
WLA afc	(.019/e(-k*A	FC_tc)) + [(AFC_Yc*Qs*.019	)/Qd*e(-k*AFC	_tc))					
	+ Xd + (AF	-C_YC^Qs^Xs/Qd)]^(1-FOS/10	U) () () ()						
		I(CVN^2+1))-2.326°LN(CVN^2+	(1)^0.5)						
LIA_afc	wia_atc^LIA	MULI_atc							
WLA_cfc (.011/e(-k*CFC_tc) + [(CFC_Yc*Qs*.( + Xd + (CFC_Yc*Qs*Xs/Qd)]*(1-FOs			Qd*e(-k*CFC_ 0)	<u>t</u> c) )					
LTAMULT_cfc EXP((0.5*LN(cvd^2/no_samples+1))-2.326*LN(cvd^2/no_				_samples+1)^0.	5)				
LTA_cfc	wla_cfc*LTA	MULT_cfc							
AML MULT	EXP(2.326*L	N((cvd^2/no_samples+1)^0.	5)-0.5*LN(cvd4	^2/no_samples+	1))				
AVG MON LIMIT	MIN(BAT_BP	J,MIN(LTA_afc,LTA_cfc)*AM	L_MULT)						
INST MAX LIMIT	INST MAX LIMIT 1.5*((av_mon_limit/AML_MULT)/LTAMULT_afc)								