Pennsylvania Department of Environmental Protection

Northwest Regional Office
CLEAN WATER PROGRAM

NPDES PERMIT FACT SHEET INDIVIDUAL SEWAGE

Application Type	**Renewal**	Application No.	**PA0239607**
Facility Type	**Non-Municipal**	APS ID	**1151359**
Major / Minor	**Minor**	Authorization ID	**1550702**

Applicant and Facility Information

Applicant Name	**Rocky River Estates Hoa**	Facility Name	**Rocky River Development**
Applicant Address	539 Riverview Drive	Facility Address	T-892 River View Drive
	Parker, PA 16049-3933		Parker, PA 16049
Applicant Contact	Vern Kern	Facility Contact	
Applicant Phone	(724) 422-8123	Facility Phone	
Client ID	396685	Site ID	661862
Ch 94 Load Status	Not Overloaded	Municipality	Perry Township
Connection Status	No Limitations	County	Clarion
Date Application Received	December 1, 2025	EPA Waived?	Yes
Date Application Accepted		If No, Reason	

Purpose of Application: Renewal Application for a Minor Sewage Facility treating three single Residence home

Summary of Review

The permittee is applying for reissuance of Individual Permit No. **PA0239607** which will expire on June 30, 2026. The facility treatment system consists of three (3) 3,500-gallon septic tanks, one (1) 1,500-gallon dosing tank, two (2) 34' x 34' sand filter beds, one (1) chlorine tablet feeder and 1,650-gallon contact tank, one (1) dichlorination tablet feeder and 230-gallon dechlorination tank, one (1) fiberglass weir box, outfall001. Only three (3) homes are currently connected to the system.

This is a discharge into a stream channel – Allegheny River

DMRs were submitted for the past five years.

Act 14 – Notifications were submitted and received.

There are no open violations in WMS for the subject Client ID (**396685**) as of 12/09/25.

Also, note that the NPDES Permit No. **PA0239607** and WQM Permit No. **1606401** is concurrently being transferred along with the renewal application from Rocky River Dev (James Kapp) to Rocky River Estates HOA (Vern Kern).

Sludge use and disposal description and location(s): -

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*,

Approve	Deny	Signatures	Date
x		Adebayo Olude Adebayo Olude / Civil Engineer Trainee	December 9, 2025
X		Adam Olesnanik Adam Olesnanik, P.E. / Environmental Engineer Manager	December 19, 2025

Summary of Review
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.

Discharge, Receiving Waters and Water Supply Information

Outfall No.	001	Design Flow (MGD)	.0052*
Latitude	41º 5' 40.79"	Longitude	-79º 40' 42.54"
Quad Name	Parker	Quad Code	41079A6
Wastewater Description:	Sewage Effluent		

Receiving Waters	Allegheny River (WWF)	Stream Code	42122
NHD Com ID	123851434	RMI	0.3000
Drainage Area	7666	Yield (cfs/mi^2)	0.086
Q_{7-10} Flow (cfs)	661	Q_{7-10} Basis	USGS StreamStats
Elevation (ft)	845	Slope (ft/ft)	-
Watershed No.	17-C	Chapter 93 Class.	WWF
Existing Use		Existing Use Qualifier	
Exceptions to Use	-	Exceptions to Criteria	-
Assessment Status	Attaining Use(s)		
Cause(s) of Impairment			
Source(s) of Impairment			
TMDL Status		Name	

Background/Ambient Data		Data Source
pH (SU)	7	Default - WWF
Temperature (°F)	25	Default
Hardness (mg/L)	100	Default
Other:	-	-

Nearest Downstream Public Water Supply Intake		PA American Water Company - Kittanning District	
PWS Waters	Allegheny River	Flow at Intake (cfs)	987
PWS RMI	45.6	Distance from Outfall (mi)	>5miles

Changes Since Last Permit Issuance: Elevation was revised using Google Earth. Drainage Area and Q_{7-10} Flow were revised using USGS StreamStats.

Other Comments: The design flow is based on multiple residential homes being connected to the treatment system. There are currently only three houses connected to the system. The limits for this renewal are being carried forward as recommended for SFTFs based on the current flow being reported as only 1,000 gpd from the three homes. A Special Condition was included from previous permit to require an NPDES amendment application prior to the flow exceeding the 2,000 gpd limit of a SFTF.

Treatment Facility Summary

Treatment Facility Name: Rocky River Development

WQM Permit No.	Issuance Date
1606401	05/22/2006

Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary	Septic Tank Sand Filter	Hypochlorite	0.0052

Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.0052	29.2	Not Overloaded		

Changes Since Last Permit Issuance: None

Other Comments: None

Compliance History	
Summary of DMRs:	DMRs were submitted for the past five years.
Summary of Inspections:	Only one inspection has been conducted, and it was on 04/29/2020. No violation was noted during the inspection.

Other Comments: None

Compliance History

DMR Data for Outfall 001 (from November 1, 2024 to October 31, 2025)

Parameter	OCT-25	SEP-25	AUG-25	JUL-25	JUN-25	MAY-25	APR-25	MAR-25	FEB-25	JAN-25	DEC-24	NOV-24
Flow (MGD) Average Monthly	0.0001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
pH (S.U.) Instantaneous Minimum	7.2	7.1	7.1	7.1	7.1	7.1	7.2	7.2	7.1	7.1	7.2	7.2
pH (S.U.) Instantaneous Maximum	7.2	7.1	7.1	7.1	7.1	7.1	7.2	7.2	7.1	7.1	7.2	7.2
TRC (mg/L) Average Monthly	0.32	0.10	0.24	0.17	0.2	0.11	0.1	0.1	0.03	0.09	0.12	0.16
TRC (mg/L) Instantaneous Maximum	0.32	0.10	0.24	0.17	0.15	0.11	0.1	0.05	0.03	0.09	0.12	0.16
BOD5 (mg/L) Average Monthly	< 2.0	< 2.0	< 2.0	3.07	< 2.0	< 2.0	6.45	< 2.0	9.81	3.98	8.5	62.7
BOD5 (mg/L) Instantaneous Maximum	2.0	< 2.0	< 2.0	3.07	< 2.0	< 2.0	6.45	< 2.0	9.81	3.98	8.5	62.7
TSS (mg/L) Average Monthly	< 5.0	< 5.0	9.0	26.0	< 5.0	< 5.0	< 5.0	< 5.0	33.0	7.0	< 5.0	7.0
TSS (mg/L) Instantaneous Maximum	< 5.0	< 5.0	9.0	26.0	< 5.0	< 5.0	< 5.0	< 5.0	33.0	7.0	< 5.0	7.0
Fecal Coliform (No./100 ml) Geometric Mean	< 1.0	2420	< 1	< 1	< 1	< 1	< 1	1	5.0	< 1	< 1.0	< 1
Fecal Coliform (No./100 ml) Instantaneous Maximum	< 1.0	2420	< 1	< 1	< 1	< 1	< 1	1	5.0	< 1	< 1.0	< 1

Anti-Backsliding
The previous limits can be used pursuant to EPA's anti-backsliding regulation, 40 CFR 122.44(l). The previous permit limitations, monitoring requirements, and conditions will be retained

Outfall 001, Continued (from 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	Minimum	Average Monthly	Maximum	Instant. Maximum		
Flow (MGD)	Report	XXX	XXX	XXX	XXX	XXX	1/month	Measured
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/month	Grab
TRC	XXX	XXX	XXX	0.5	XXX	1.2	1/month	Grab
BOD5	XXX	XXX	XXX	10.0	XXX	20.0	1/month	Grab
TSS	XXX	XXX	XXX	10.0	XXX	20.0	1/month	Grab
Fecal Coliform (No./100 ml) Oct 1 - Apr 30	XXX	XXX	XXX	2000 Geo Mean	XXX	10000	1/month	Grab
Fecal Coliform (No./100 ml) May 1 - Sep 30	XXX	XXX	XXX	200 Geo Mean	XXX	1000	1/month	Grab

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.

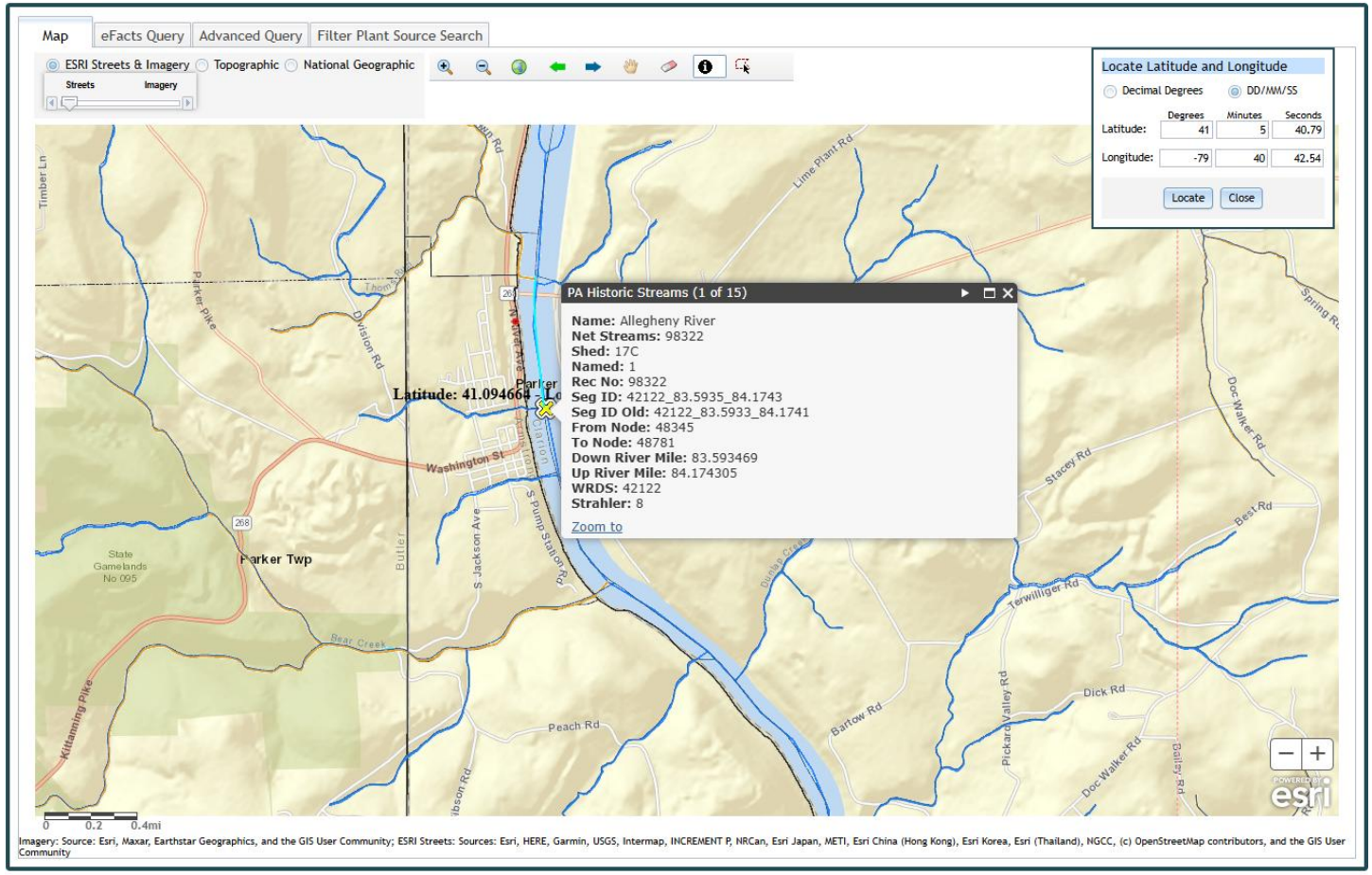
Outfall 001, Effective Period: Permit Effective Date through Permit Expiration Date.

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Average Monthly	Maximum	Instant. Maximum		
Flow (MGD)	Report	XXX	XXX	XXX	XXX	XXX	1/month	Measured
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/month	Grab
TRC	XXX	XXX	XXX	0.5	XXX	1.2	1/month	Grab
BOD5	XXX	XXX	XXX	10.0	XXX	20.0	1/month	Grab
TSS	XXX	XXX	XXX	10.0	XXX	20.0	1/month	Grab
Fecal Coliform (No./100 ml) Oct 1 - Apr 30	XXX	XXX	XXX	2000 Geo Mean	XXX	10000	1/month	Grab
Fecal Coliform (No./100 ml) May 1 - Sep 30	XXX	XXX	XXX	200 Geo Mean	XXX	1000	1/month	Grab

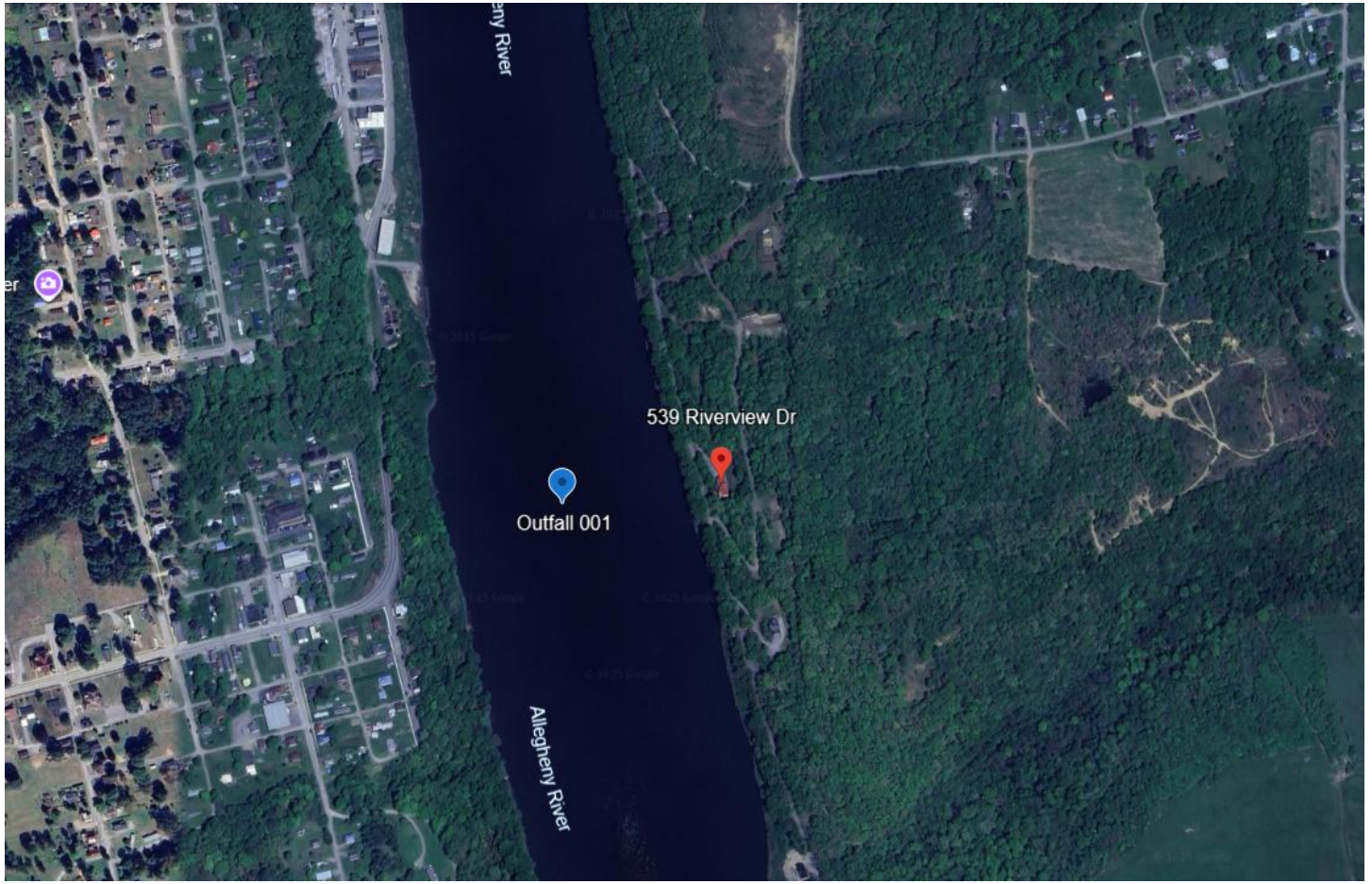
Compliance Sampling Location: Outfall 001, after disinfection.

Other Comments: Flow is monitor only based on Chapter 92a.61. The limits for pH are technology-based on Chapter 93.7. The limits for Total Residual Chlorine (TRC) are technology based on Chapter 92a.47. The limits for BOD_5, Total Suspended Solids, and Fecal Coliforms are technology-based on Chapter 92a.47. The limits in this renewal are being carried forward from previous permit. The Department's TRC model was performed. The model indicated an average monthly limit of 0.5 mg/L and an IMAX limit of 1.635 mg/L. the average monthly limit from the model is the same as the current limit. Therefore, the limits will be retained and no compliance schedule for TRC will be imposed.

Attachment 1
eMAP – Receiving stream location and Designation



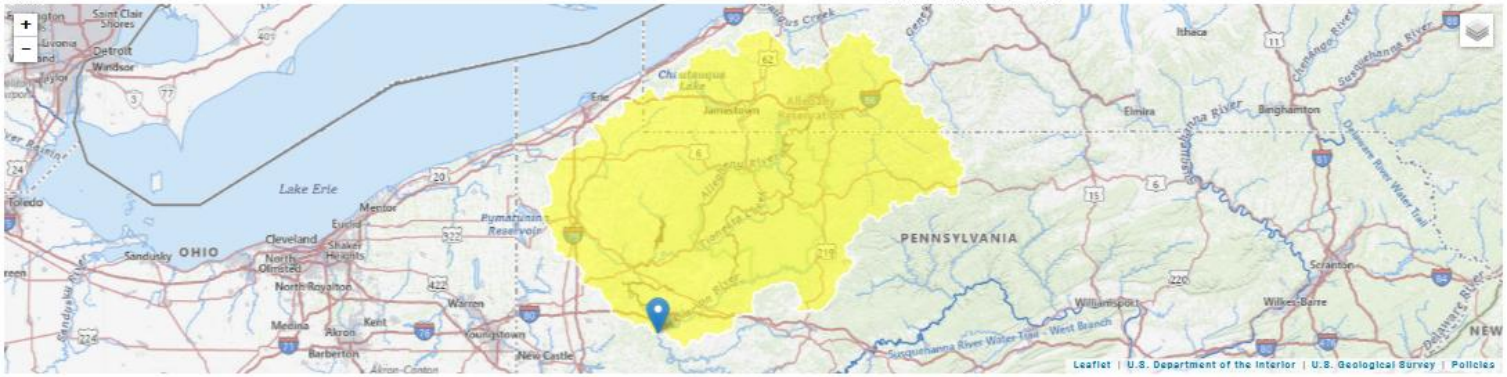
Attachment 2
Google Earth Aerial Site View



Attachment 3

StreamStats Report

Region ID: PA
Clicked Point (Latitude, Longitude): 41.09465, -79.67849
Time: 2025-12-18 08:54:21 -0500



StreamStats Update

Starting with version 4.38.0, the StreamStats application uses services that were redeveloped with open-source software components. Users may observe minor variations in computed results when compared to those from previous versions. These differences are expected and do not reflect errors in the underlying data or analytical methods. Users are advised to consider these potential variations when interpreting or comparing results generated across different versions of StreamStats. Please email streamstats@usgs.gov with any questions or concerns. A full list of changes can be found at: https://www.usgs.gov/streamstats/news/streamstats-data-updates-open-source-code-release .

Collapse All

Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	7666	square miles
ELEV	Mean Basin Elevation	1631.8	feet
PRECIP	Mean Annual Precipitation	44	inches

Low-Flow Statistics

Low-Flow Statistics Parameters [Low Flow Region 3]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	7666	square miles	2.33	1720
ELEV	Mean Basin Elevation	1631.8	feet	898	2700
PRECIP	Mean Annual Precipitation	44	inches	38.7	47.9

TRC_CALC

TRC EVALUATION

Input appropriate values in A3:A9 and D3:D9

661	= Q stream (cfs)	0.5	= CV Daily
0.002	= Q discharge (MGD)	0.5	= CV Hourly
30	= no. samples	1	= AFC_Partial Mix Factor
0.3	= Chlorine Demand of Stream	1	= CFC_Partial Mix Factor
0	= Chlorine Demand of Discharge	15	= AFC_Criteria Compliance Time (min)
0.5	= BAT/BPJ Value	720	= CFC_Criteria Compliance Time (min)
0	= % Factor of Safety (FOS)		=Decay Coefficient (K)

Source	Reference	AFC Calculations	Reference	CFC Calculations
TRC	1.3.2.iii	WLA afc = 68150.956	1.3.2.iii	WLA cfc = ##########
PENTOXSD TRG	5.1a	LTAMULT afc = 0.373	5.1c	LTAMULT cfc = 0.581
PENTOXSD TRG	5.1b	LTA_afc= 25394.672	5.1d	LTA_cfc = ##########

Source		Effluent Limit Calculations	
PENTOXSD TRG	5.1f	AML MULT = 1.231	
PENTOXSD TRG	5.1g	AVG MON LIMIT (mg/l) = 0.500	BAT/BPJ
		INST MAX LIMIT (mg/l) = 1.635	

WLA afc	**(.019/e(-k*AFC_tc)) + [(AFC_Yc*Qs*.019/Qd*e(-k*AFC_tc))...**
	...+ Xd + (AFC_Yc*Qs*Xs/Qd)]*(1-FOS/100)
LTAMULT afc	EXP((0.5*LN(cvh^2+1))-2.326*LN(cvh^2+1)^0.5)
LTA_afc	wla_afc*LTAMULT_afc
WLA_cfc	**(.011/e(-k*CFC_tc) + [(CFC_Yc*Qs*.011/Qd*e(-k*CFC_tc))...**
	...+ Xd + (CFC_Yc*Qs*Xs/Qd)]*(1-FOS/100)
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*LTAMULT_cfc
AML MULT	EXP(2.326*LN((cvd^2/no_samples+1)^0.5)-0.5*LN(cvd^2/no_samples+1))
AVG MON LIMIT	MIN(BAT_BPJ,MIN(LTA_afc,LTA_cfc)*AML_MULT)
INST MAX LIMIT	**1.5*((av_mon_limit/AML_MULT)/LTAMULT_afc)**