Pennsylvania Department of Environmental Protection

Northwest Regional Office
CLEAN WATER PROGRAM

Application Type	**Renewal**	Application No.	**PA0035521**
Wastewater Type	**Sewage**	APS ID	**1152920**
Facility Type	**SFTF**	Authorization ID	**1553287**

NPDES PERMIT FACT SHEET
INDIVIDUAL SFTF/SRSTP

Applicant, Facility and Project Information

Applicant Name	**PA DOT Maintenance & Operations Bureau**	Facility Name	**PA DOT Crawford County Maintenance Facility**
Applicant Address	400 North Street 6th Floor	Facility Address	Rome Twp Satellite Maint Fac
	Harrisburg, PA 17120		Centerville, PA 16404
Applicant Contact	Nicholaus Sahd	Facility Contact	
Applicant Phone	(717) 886-5395	Facility Phone	
Client ID	189304	Site ID	264140
SIC Code	9621	Municipality	Centerville Borough
SIC Description	Public Admin. - Regulation, Admin. Of Transportation	County	Crawford
Date Application Received	December 23, 2025	WQM Required	N/A
Date Application Accepted	December 30, 2025	WQM App. No.	

Project Description: Renewal for a Single Residence Sewage Treatment Plant

Summary of Review

The permittee is applying for reissuance of Individual Permit **PA0035521** that will expire on June 30, 2026.This is a discharge into stream channel - Trib 54495 To Oil Creek. The average daily flow is projected to be 1000 GPD.

Act 14 notifications were submitted and received.

The existing facility consists of: A 1,600-gallon septic tank, followed by a 1,600-gallon septic/dosing tank w/bypass, which is then pumped to a 1,500 SF sand filter, followed by a 600-gallon chlorine contact tank with chlorine tablets.

AMR was received and appears to operate as designed.

There are 12 open violations in WMS for the subject Client ID (**189304**) as of December 30, 2025. 8 of the 12 violations are from WPC NPDES program while the remaining 4 are from the storage tanks program.

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		Adebayo Olude Adebayo Olude / Civil Engineer Trainee	December 30, 2025
X		Adam Olesnanik Adam Olesnanik, P.E. / Environmental Engineer Manager	February 13, 2026

Discharge and Stream Data – 2 - Receiving Waters and PWS

Discharge, Receiving Waters and Water Supply Information

Outfall No.	001	Design Flow (MGD)	.001
Latitude	41º 43' 35.16"	Longitude	-79º 45' 53.08"
Quad Name	Centerville	Quad Code	41079F7
Wastewater Description:	Sewage Effluent		
Receiving Waters	Unnamed Tributary to Oil Creek (CWF)	Stream Code	54495
NHD Com ID	100470675	RMI	
Drainage Area	0.22	Yield (cfs/mi^2)	0.0392
Q_{7-10} Flow (cfs)	0.00863	Q_{7-10} Basis	USGS StreamStats
Elevation (ft)	1295	Slope (ft/ft)	-
Watershed No.	16-E	Chapter 93 Class.	CWF
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 - CWF
Temperature (°F)	20	Default
Hardness (mg/L)	100	Default
Other:	-	-

Nearest Downstream Public Water Supply Intake		Aqua Pennsylvania, Inc. - Emlenton	
PWS Waters	Allegheny River	Flow at Intake (cfs)	1,376
PWS RMI	90.0	Distance from Outfall (mi)	>15miles

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: This SRSTP was designed where applicable in accordance with the SFTF Manual.

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.

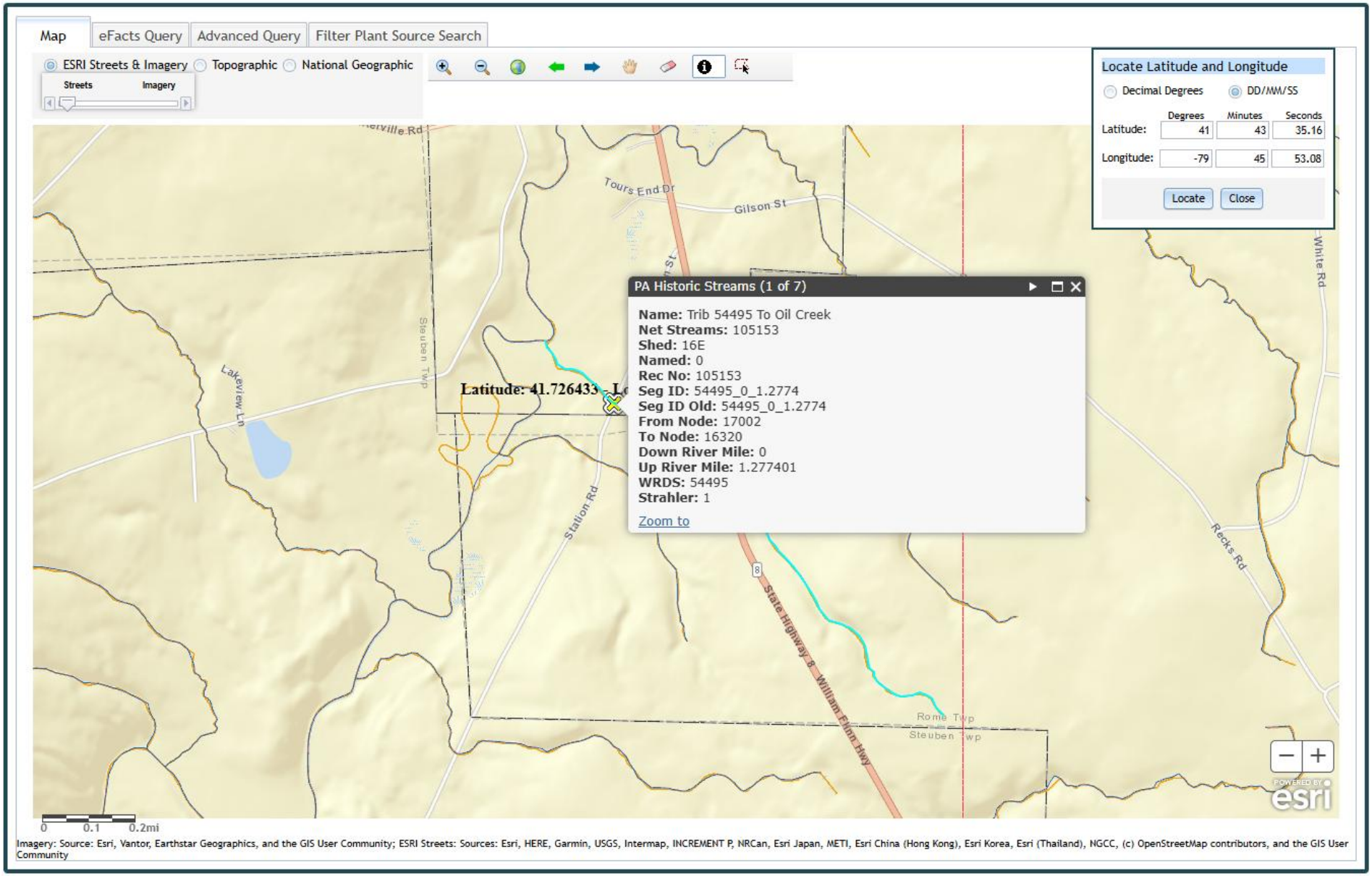
Outfall 001, Effective Period: Permit Effective Date through Permit Expiration Date.

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Average Monthly	Maximum	Instant. Maximum		
Flow (MGD)	Report	XXX	XXX	XXX	XXX	XXX	1/month	Estimate
pH (S.U.)	XXX	XXX	6.0	XXX	9.0	XXX	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 (CFU/100 ml)	XXX	XXX	XXX	200 Geo Mean	XXX	XXX	1/month	Grab

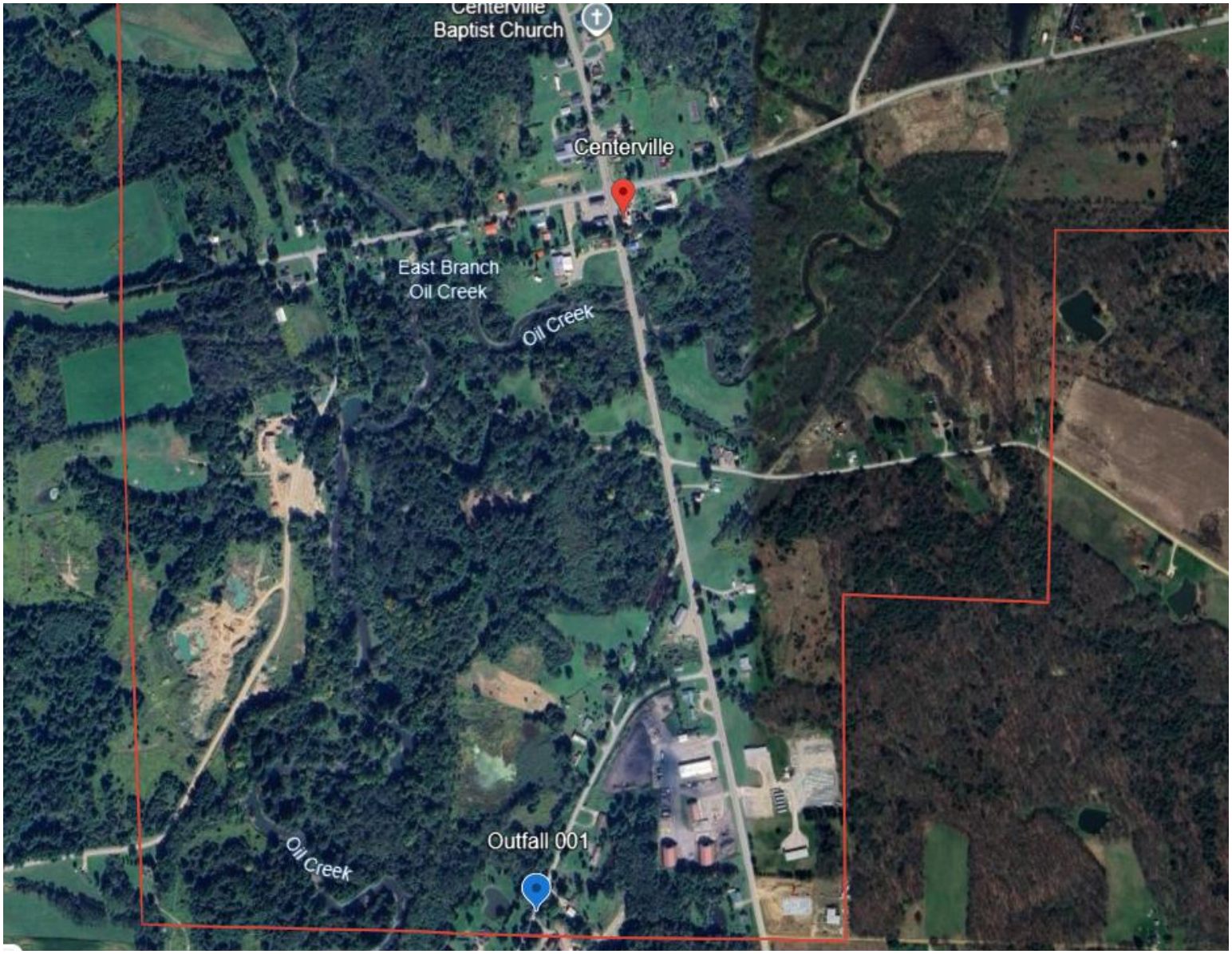
Compliance Sampling Location: Outfall 001, after disinfection

Other Comments: Flow is monitor only based on Chapter 92a.61. The limits for BOD5, Total Suspended Solids, and Fecal Coliforms are technology- based on Chapter 92a.47. The calculated TRC limits of 0.5mg/L as seen in the TRC spreadsheet is the same in the current permit and the instantaneous maximum limit of 1.6mg/L is less stringent than the current permit. Therefore, the limits will be retained.

Attachment 1
eMAP – Receiving Streams Information



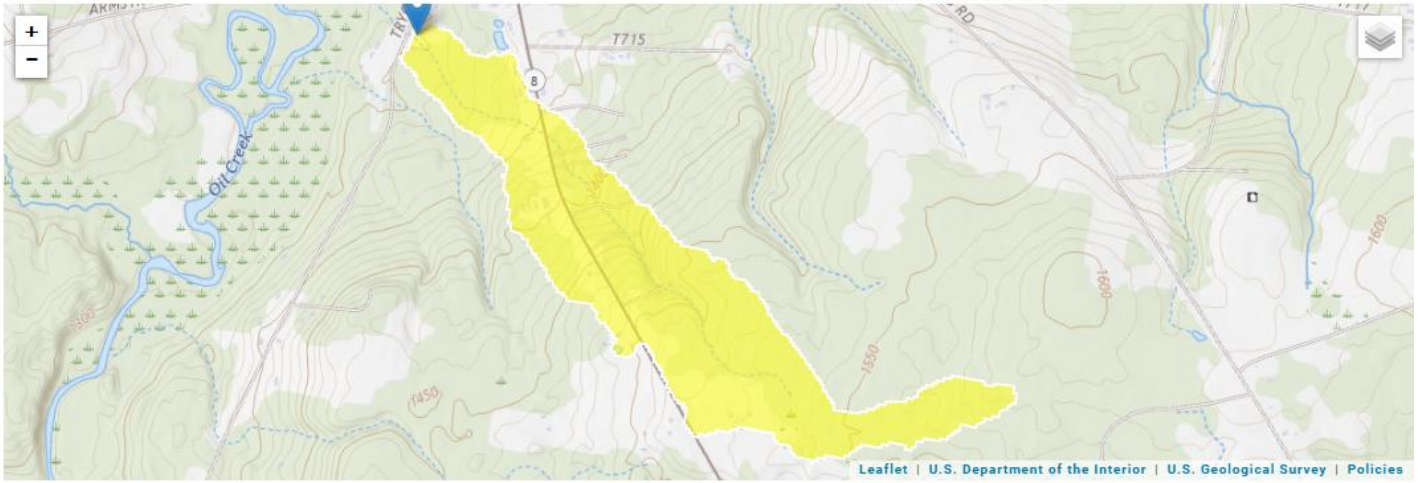
Attachment 2
Google Earth – Site Imagery



Attachment 3
StreamStats

StreamStats Report

Region ID: PA
Clicked Point (Latitude, Longitude): 41.72631, -79.76450
Time: 2025-12-30 10:45:23 -0500



StreamStats Update

Starting with version 4.30.0, 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	0.22	square miles
ELEV	Mean Basin Elevation	1461.9	feet
PRECIP	Mean Annual Precipitation	45	inches

TRC_CALC

TRC EVALUATION

Input appropriate values in A3:A9 and D3:D9

0.00863	= Q stream (cfs)	0.5	= CV Daily
0.001	= 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 = 1.799	1.3.2.iii	WLA cfc = 1.746
PENTOXSD TRG	5.1a	LTAMULT afc = 0.373	5.1c	LTAMULT cfc = 0.581
PENTOXSD TRG	5.1b	LTA_afc= 0.670	5.1d	LTA_cfc = 1.015

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)**