

Application Type Renewal
Facility Type Industrial
Major / Minor Minor

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

Application No. PA0087483
APS ID 550679
Authorization ID 1513838

Applicant and Facility Information

Applicant Name	<u>Elizabethtown Area Water Authority</u>	Facility Name	<u>Elizabethtown Area Water System</u>
Applicant Address	<u>211 W Hummelstown Street</u> <u>Elizabethtown, PA 17022-2079</u>	Facility Address	<u>Off Burd Coleman Road</u> <u>Cornwall, PA 17016</u>
Applicant Contact	<u>Del Becker</u>	Facility Contact	<u>Del Becker</u>
Applicant Phone		Facility Phone	
Client ID	<u>240335</u>	Site ID	<u>262256</u>
SIC Code	<u>4911</u>	Municipality	<u>West Cornwall Township</u>
SIC Description	<u>Trans. & Utilities - Electric Services</u>	County	<u>Lebanon</u>
Date Application Received	<u>January 27, 2025</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u>February 11, 2025</u>	If No, Reason	
Purpose of Application	<u>NPDES permit renewal to discharge industrial waste.</u>		

Summary of Review

1.0 General Discussion:

This factsheet supports the renewal of an existing NPDES permit for discharge of industrial wastewater from Elizabethtown Area Water Authority's Cornwall Quarry. Elizabethtown Area Water Authority diverts water from the Cornwall Quarry to an Unnamed Tributary to Conewago Creek as needed. This provides a supplemental water source, and typically only occurs during periods of drought. Elizabethtown Area Water Authority is permitted to transfer up to 1.5 mgd. The discharge consists of untreated water that is transferred from Cornwall Quarry to the headwaters of Conewago Creek via a pump station and pipeline. Elizabethtown Area Water Authority has a surface water intake on Conewago Creek near Aberdeen, approximately 13 miles downstream of the discharge point, for drinking water purposes. The discharge is intermittent and is needed to maintain flow in Conewago Creek downstream of the Borough's Aberdeen (Lancaster County) water intake at a prescribed minimum level. A point of first use study was conducted by an aquatic biologist for the Department on April 30, 1997. It was determined that the receiving stream is perennial at the discharge point. The existing permit was issued on May 14, 2020 with effective date of June 1, 2020 and expiration date of May 31, 2025. The permittee submitted NPDES permit renewal application to the Department and has been operating under the conditions in the existing permit pending permit renewal. A topographic map showing the discharge location is presented in attachment A

1.1 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*

Approve	Deny	Signatures	Date
X		<i>J. Pascal Kwedza</i> J. Pascal Kwedza, P.E. / Environmental Engineer	December 10, 2025
X		Daniel W. Martin Daniel W. Martin, P.E. / Environmental Engineer Manager	January 14, 2026

Summary of Review

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.

1.2 Discharge, Receiving Waters and Water Supply Information			
Outfall No.	<u>001</u>	Design Flow (MGD)	<u>1.5</u>
Latitude	<u>40° 15' 33.1"</u>	Longitude	<u>76° 27' 37.8"</u>
Quad Name	<u>Lebanon</u>	Quad Code	<u>1634</u>
Wastewater Description: <u>Intermittent Discharge – Quarry Water</u>			
Receiving Waters	<u>Conewago Creek (TSF, MF)</u>	Stream Code	<u>No stream code</u>
NHD Com ID	<u>56400799</u>	RMI	<u>0.1</u>
Drainage Area	<u>0.3 mi²</u>	Yield (cfs/mi ²)	<u>0.04</u>
Q ₇₋₁₀ Flow (cfs)	<u>0.012</u>	Q ₇₋₁₀ Basis	<u>USGS PA StreamStats</u>
Elevation (ft)	<u>708</u>	Slope (ft/ft)	<u></u>
Watershed No.	<u>7-G</u>	Chapter 93 Class.	<u>TSF</u>
Existing Use	<u>N/A</u>	Existing Use Qualifier	<u>N/A</u>
Exceptions to Use	<u>N/A</u>	Exceptions to Criteria	<u>N/A</u>
Assessment Status	<u>Attaining Use(s)</u>		
Cause(s) of Impairment	<u>N/A</u>		
Source(s) of Impairment	<u>N/A</u>		
TMDL Status	<u>Final</u>	Name	<u>Conewago Creek Watershed</u>
Nearest Downstream Public Water Supply Intake	<u>Elizabethtown Borough</u>		
PWS Waters	<u>Conewago Creek</u>	Flow at Intake (cfs)	<u></u>
PWS RMI	<u></u>	Distance from Outfall (mi)	<u>13</u>

Changes Since Last Permit Issuance: None

1.2.1 Public water supply intake

The nearest downstream public water supply intake is for Elizabethtown Borough in Lancaster County, approximately 13 miles downstream of this discharge.

1.3 Existing Effluent Limitations and Monitoring Requirements

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	Daily Average	Maximum	Instant. Maximum		
Flow (MGD)	Report	1.5 Daily Max	XXX	XXX	XXX	XXX	Continuous	Measured
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/day	Grab
Temperature (°F) Jan 1 - 31	XXX	XXX	XXX	40	XXX	XXX	1/week	I-S
Temperature (°F) Feb 1 - 28	XXX	XXX	XXX	40	XXX	XXX	1/week	I-S
Temperature (°F) Mar 1 - 31	XXX	XXX	XXX	46	XXX	XXX	1/week	I-S
Temperature (°F) Apr 1 - 15	XXX	XXX	XXX	52	XXX	XXX	1/week	I-S
Temperature (°F) Apr 16 - 30	XXX	XXX	XXX	58	XXX	XXX	1/week	I-S
Temperature (°F) May 1 - 15	XXX	XXX	XXX	64	XXX	XXX	1/week	I-S
Temperature (°F) May 16 - 31	XXX	XXX	XXX	68	XXX	XXX	1/week	I-S
Temperature (°F) Jun 1 - 15	XXX	XXX	XXX	70	XXX	XXX	1/week	I-S
Temperature (°F) Jun 16 - 30	XXX	XXX	XXX	72	XXX	XXX	1/week	I-S
Temperature (°F) Jul 1 - 31	XXX	XXX	XXX	74	XXX	XXX	1/week	I-S
Temperature (°F) Aug 1 - 15	XXX	XXX	XXX	80	XXX	XXX	1/week	I-S
Temperature (°F) Aug 16 - 31	XXX	XXX	XXX	87	XXX	XXX	1/week	I-S
Temperature (°F) Sep 1 - 15	XXX	XXX	XXX	84	XXX	XXX	1/week	I-S
Temperature (°F) Sep 16 - 30	XXX	XXX	XXX	78	XXX	XXX	1/week	I-S
Temperature (°F) Oct 1 - 15	XXX	XXX	XXX	72	XXX	XXX	1/week	I-S
Temperature (°F) Oct 16 - 31	XXX	XXX	XXX	66	XXX	XXX	1/week	I-S

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	Daily Average	Maximum	Instant. Maximum		
Temperature (°F) Nov 1 - 15	XXX	XXX	XXX	58	XXX	XXX	1/week	I-S
Temperature (°F) Nov 16 - 30	XXX	XXX	XXX	50	XXX	XXX	1/week	I-S
Temperature (°F) Dec 1 - 31	XXX	XXX	XXX	42	XXX	XXX	1/week	I-S

1.4 Compliance History

1.4.1 DMR Data for Outfall 001 (from October 1, 2024 to September 30, 2025)

Parameter	SEP-25	AUG-25	JUL-25	JUN-25	MAY-25	APR-25	MAR-25	FEB-25	JAN-25	DEC-24	NOV-24	OCT-24
Flow (MGD) Average Monthly	0.986										0.876	0.625
Flow (MGD) Daily Maximum	1.500										1.444	1.347
pH (S.U.) Instantaneous Minimum	7.9										7.1	6.9
pH (S.U.) Instantaneous Maximum	8.9										7.7	8.0
Temperature (Day 1 thru 15) (°F) Daily Maximum	70										50.0	65.6
Temperature (Day 16 thru End of Month) (°F) Daily Maximum	68										58.0	73.0

1.4.2 Discharge Monitoring Reports (DMRs)

DMRs review for the facility for the last 12 months of operation presented on the tables 1.4.1 above indicate permit limits have been met consistently. No effluent violations noted during the period reviewed.

1.4.3 Summary of Inspections:

The facility was inspected a couple of times during the past permit cycle. No effluent violations found during plant inspection reports

2.0 Development of Effluent Limitations

Outfall No.	001	Design Flow (MGD)	1.5
Latitude	40° 15' 33.14"	Longitude	-76° 27' 37.83"
Wastewater Description: Intermittent Discharge			

2.1 Basis for Effluent Limitations

In general, the Clean Water Act (CWA) requires that the effluent limits for a particular pollutant be the more stringent of either technology-based limits or water quality-based limits. Technology-based limits are set according to the level of treatment that is achievable using available technology. A water quality-based effluent limit (WQBEL) is designed to ensure that the water quality standards applicable to a waterbody are being met and may be more stringent than technology-based effluent limits.

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

Parameter	Limit (mg/l)	SBC	Federal Regulation	State Regulation
pH	6.0 – 9.0 S.U.	Min – Max	133.102(c)	95.2(1)

3.0 Water Quality-Based Limitations

3.1 Stream Flow:

According to previous factsheets, the drainage area at the discharge point was determined to be 0.1 mi² via the use of a planimeter. The statewide default Q₇₋₁₀ low flow yield of 0.1 cfs/mi² has been used and will be used for current water quality analysis. This information is used to obtain a Q₇₋₁₀, a chronic or 30 day (Q₃₀₋₁₀), and an acute or 1 day (Q₁₋₁₀) exposure stream flow for the discharge point as follows:

$$Q_{7-10} = 0.1 \text{ cfs/mi}^2 * 0.1 \text{ mi}^2 \approx 0.01 \text{ cfs}$$

$$Q_{30-10} = 1.36 * 0.01 \text{ cfs} \approx 0.0136 \text{ cfs}$$

$$Q_{1-10} = 0.64 * 0.01 \text{ cfs} \approx 0.0064 \text{ cfs}$$

3.2 Effluent Limitations Evaluation:

A water quality analysis of the Cornwall Pit was evaluated for toxics during the initial application in February 1997 concluded that no toxics were present at levels that needs further action. The quality of the quarry water has not changed therefore no further evaluation is necessary. The conclusion in the existing permit requiring no monitoring for conventional pollutants and DO are still valid and will be continued for the current permit renewal. To ensure the pH levels of the mine pool are within the standard 6.0 to 9.0 range, pH monitoring will continue in the permit. The existing flow monitoring will remain in the permit.

3.2 Temperature Limitations

Per the previous fact sheet, in 1997, the Fish Commission expressed concern for thermal shock. Therefore, a reasonable potential (RP) analysis was performed for temperature. Effluent limitations for temperature were calculated using the Case 2 Thermal Worksheet with a wastewater flow of 1.5 mgd, which is listed as the maximum daily discharge rate in the application. A stream Q₇₋₁₀ flow of 0.01 cfs was used in the temperature worksheet. The worksheet provided permit limits for a discharge to TSF is presented in attachment B. The recommended limits are consistent with the limits in the existing permit and will remain in the renewal.

3.3 Anti-Degradation

The effluent limits for this discharge have been developed to ensure that existing instream water uses and the level of water quality necessary to protect the existing uses are maintained and protected. No High Quality Waters are impacted by this discharge. No Exceptional Value Waters are impacted by this discharge.

3.4 303(d) Listed Streams

The discharge is located on a 303(d) listed stream segment which is part of the Conewago Creek Watershed TMDL. The nutrient-related TMDL was completed in 2001 and revised in 2006. Per the previous fact sheet, since this discharge involves a water transfer from a quarry, it was not included in any nutrient allocation.

3.5 Class A Wild Trout Fisheries

No Class A Wild Trout Fisheries are impacted by this discharge.

3.6 Anti-Backsliding

Pursuant to 40 CFR § 122.44(l)(1), all proposed permit requirements addressed in this fact sheet are at least as stringent as the requirements implemented in the existing NPDES permit unless any exceptions addressed by DEP in this fact sheet.

4.0 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	1.5 Daily Max	XXX	XXX	XXX	XXX	Continuous	Measured
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/day	Grab
Temperature (°F) Jan 1 - 31	XXX	XXX	XXX	40 Daily Max	XXX	XXX	1/week	I-S
Temperature (°F) Apr 16 - 30	XXX	XXX	XXX	58 Daily Max	XXX	XXX	1/week	I-S
Temperature (°F) Apr 1 - 15	XXX	XXX	XXX	52 Daily Max	XXX	XXX	1/week	I-S
Temperature (°F) Feb 1 - 28	XXX	XXX	XXX	40 Daily Max	XXX	XXX	1/week	I-S
Temperature (°F) May 1 - 15	XXX	XXX	XXX	64 Daily Max	XXX	XXX	1/week	I-S
Temperature (°F) May 16 - 31	XXX	XXX	XXX	68 Daily Max	XXX	XXX	1/week	I-S
Temperature (°F) Mar 1 - 31	XXX	XXX	XXX	46 Daily Max	XXX	XXX	1/week	I-S
Temperature (°F) Jun 1 - 15	XXX	XXX	XXX	70 Daily Max	XXX	XXX	1/week	I-S
Temperature (°F) Jun 16 - 30	XXX	XXX	XXX	72 Daily Max	XXX	XXX	1/week	I-S
Temperature (°F) Aug 16 - 31	XXX	XXX	XXX	87 Daily Max	XXX	XXX	1/week	I-S
Temperature (°F) Aug 1 - 15	XXX	XXX	XXX	80 Daily Max	XXX	XXX	1/week	I-S
Temperature (°F) Jul 1 - 31	XXX	XXX	XXX	74 Daily Max	XXX	XXX	1/week	I-S

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		
Temperature (°F) Sep 16 - 30	XXX	XXX	XXX	78 Daily Max	XXX	XXX	1/week	I-S
Temperature (°F) Dec 1 - 31	XXX	XXX	XXX	42 Daily Max	XXX	XXX	1/week	I-S
Temperature (°F) Sep 1 - 15	XXX	XXX	XXX	84 Daily Max	XXX	XXX	1/week	I-S
Temperature (°F) Oct 1 - 15	XXX	XXX	XXX	72 Daily Max	XXX	XXX	1/week	I-S
Temperature (°F) Oct 16 - 31	XXX	XXX	XXX	66 Daily Max	XXX	XXX	1/week	I-S
Temperature (°F) Nov 1 - 15	XXX	XXX	XXX	58 Daily Max	XXX	XXX	1/week	I-S
Temperature (°F) Nov 16 - 30	XXX	XXX	XXX	50 Daily Max	XXX	XXX	1/week	I-S

Compliance Sampling Location: At Outfall 001

5.0 Tools and References Used to Develop Permit	
<input type="checkbox"/>	WQM for Windows Model (see Attachment [redacted])
<input type="checkbox"/>	Toxics Management Spreadsheet (see Attachment [redacted])
<input type="checkbox"/>	TRC Model Spreadsheet (see Attachment [redacted])
<input checked="" type="checkbox"/>	Temperature Model Spreadsheet (see Attachment B)
<input type="checkbox"/>	Water Quality Toxics Management Strategy, 361-0100-003, 4/06.
<input type="checkbox"/>	Technical Guidance for the Development and Specification of Effluent Limitations, 386-0400-001, 10/97.
<input type="checkbox"/>	Policy for Permitting Surface Water Diversions, 386-2000-019, 3/98.
<input type="checkbox"/>	Policy for Conducting Technical Reviews of Minor NPDES Renewal Applications, 386-2000-018, 11/96.
<input type="checkbox"/>	Technology-Based Control Requirements for Water Treatment Plant Wastes, 386-2183-001, 10/97.
<input type="checkbox"/>	Technical Guidance for Development of NPDES Permit Requirements Steam Electric Industry, 386-2183-002, 12/97.
<input type="checkbox"/>	Pennsylvania CSO Policy, 386-2000-002, 9/08.
<input type="checkbox"/>	Water Quality Antidegradation Implementation Guidance, 391-0300-002, 11/03.
<input type="checkbox"/>	Implementation Guidance Evaluation & Process Thermal Discharge (316(a)) Federal Water Pollution Act, 386-2000-008, 4/97.
<input type="checkbox"/>	Determining Water Quality-Based Effluent Limits, 386-2000-004, 12/97.
<input type="checkbox"/>	Implementation Guidance Design Conditions, 386-2000-007, 9/97.
<input type="checkbox"/>	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.
<input type="checkbox"/>	Interim Method for the Sampling and Analysis of Osmotic Pressure on Streams, Brines, and Industrial Discharges, 386-2000-012, 10/1997.
<input type="checkbox"/>	Implementation Guidance for Section 95.6 Management of Point Source Phosphorus Discharges to Lakes, Ponds, and Impoundments, 386-2000-009, 3/99.
<input type="checkbox"/>	Technical Reference Guide (TRG) PENTOXSD for Windows, PA Single Discharge Wasteload Allocation Program for Toxics, Version 2.0, 386-2000-015, 5/2004.
<input type="checkbox"/>	Implementation Guidance for Section 93.7 Ammonia Criteria, 386-2000-022, 11/97.
<input type="checkbox"/>	Policy and Procedure for Evaluating Wastewater Discharges to Intermittent and Ephemeral Streams, Drainage Channels and Swales, and Storm Sewers, 386-2000-013, 4/2008.
<input type="checkbox"/>	Implementation Guidance Total Residual Chlorine (TRC) Regulation, 386-2000-011, 11/1994.
<input type="checkbox"/>	Implementation Guidance for Temperature Criteria, 386-2000-001, 4/09.
<input type="checkbox"/>	Implementation Guidance for Section 95.9 Phosphorus Discharges to Free Flowing Streams, 386-2000-021, 10/97.
<input type="checkbox"/>	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.
<input type="checkbox"/>	Field Data Collection and Evaluation Protocol for Determining Stream and Point Source Discharge Design Hardness, 386-2000-005, 3/99.
<input type="checkbox"/>	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.
<input type="checkbox"/>	Design Stream Flows, 386-2000-003, 9/98.
<input type="checkbox"/>	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.
<input type="checkbox"/>	Evaluations of Phosphorus Discharges to Lakes, Ponds and Impoundments, 386-3200-001, 6/97.
<input type="checkbox"/>	Pennsylvania's Chesapeake Bay Tributary Strategy Implementation Plan for NPDES Permitting, 4/07.
<input type="checkbox"/>	SOP: [redacted]
<input type="checkbox"/>	Other: [redacted]

Attachments

A. Topographical Map



B. Temperature Calculations



Instructions **Inputs**

Facility: Elizabethtown Area Water Authority (Cormwall Qu Permit No.: PA0087483
 Stream Name: UNT Conewago Creek Analyst/Engineer: Pascal Kwedza
 Stream Q7-10 (cfs)*: 0.0 Outfall No.: 001 Analysis Type*: TSF

Facility Flows

Semi-Monthly Increment	Intake (Stream) (MGD)*	Intake (External) (MGD)*	Consumptive Loss (MGD)*	Discharge Flow (MGD)
Jan 1-31		1.5		1.5
Feb 1-29		1.5		1.5
Mar 1-31		1.5		1.5
Apr 1-15		1.5		1.5
Apr 16-30		1.5		1.5
May 1-15		1.5		1.5
May 16-31		1.5		1.5
Jun 1-15		1.5		1.5
Jun 16-30		1.5		1.5
Jul 1-31		1.5		1.5
Aug 1-15		1.5		1.5
Aug 16-31		1.5		1.5
Sep 1-15		1.5		1.5
Sep 16-30		1.5		1.5
Oct 1-15		1.5		1.5
Oct 16-31		1.5		1.5
Nov 1-15		1.5		1.5
Nov 16-30		1.5		1.5
Dec 1-31		1.5		1.5

Stream Flows

Q7-10 Multipliers (Default Shown)	PMF	Seasonal Stream Flow (cfs)	Downstream Stream Flow (cfs)
3.2	1.00	0.03	2.35
3.5	1.00	0.04	2.36
7	1.00	0.07	2.39
9.3	1.00	0.09	2.41
9.3	1.00	0.09	2.41
5.1	1.00	0.05	2.37
5.1	1.00	0.05	2.37
3	1.00	0.03	2.35
3	1.00	0.03	2.35
1.7	1.00	0.02	2.34
1.4	1.00	0.01	2.33
1.4	1.00	0.01	2.33
1.1	1.00	0.01	2.33
1.1	1.00	0.01	2.33
1.2	1.00	0.01	2.33
1.2	1.00	0.01	2.33
1.6	1.00	0.02	2.34
1.6	1.00	0.02	2.34
2.4	1.00	0.02	2.34



Instructions

TSF Results

Recommended Limits for Case 1 or Case 2

Semi-Monthly Increment	TSF Target Maximum Stream Temp. (°F)	Case 1 Daily WLA (Million BTUs/day)	Case 2 Daily WLA (°F)
Jan 1-31	40	N/A -- Case 2	40.1
Feb 1-29	40	N/A -- Case 2	40.1
Mar 1-31	46	N/A -- Case 2	46.2
Apr 1-15	52	N/A -- Case 2	52.2
Apr 16-30	58	N/A -- Case 2	58.2
May 1-15	64	N/A -- Case 2	64.2
May 16-31	68	N/A -- Case 2	68.2
Jun 1-15	70	N/A -- Case 2	70.1
Jun 16-30	72	N/A -- Case 2	72.0
Jul 1-31	74	N/A -- Case 2	74.0
Aug 1-15	80	N/A -- Case 2	80.0
Aug 16-31	87	N/A -- Case 2	87.1
Sep 1-15	84	N/A -- Case 2	84.1
Sep 16-30	78	N/A -- Case 2	78.1
Oct 1-15	72	N/A -- Case 2	72.1
Oct 16-31	66	N/A -- Case 2	66.1
Nov 1-15	58	N/A -- Case 2	58.1
Nov 16-30	50	N/A -- Case 2	50.1
Dec 1-31	42	N/A -- Case 2	42.1