

Air Monitoring Summary Tables

The tables below summarize monitoring data collected by EPA and KYDEP
All data were collected with a RAE Systems MultiRAE Pro handheld instrument



EMERGENCY RESPONSE TEAM

Project Name: CSX Livingston Derailment

From: 11/25/23 To: 11/25/23
2:53 AM 1:42 PM

SECTION 1 – STATIONS

StationID	Location	Latitude	Longitude	# of Measurements on:		
				11/23	11/24	11/25
STA01	Northern End of Upper Calloway Loop & 25	37.31774	-84.24779	12	7	4
STA02	Southern End of Upper Calloway Loop & 25	37.311	-84.246304	11	7	4
STA03	Sand Hill Road & 25	37.310641	-84.246321	8	0	0
STA04	John Deer Lane above Derailment Site	37.3103306	-84.2387579	3	1	0
STA05	Piney Ridge Road Rail Crossing	37.30803	-84.23183	9	7	0
STA06	Southern End of Lower Calloway Loop & 25	37.30795	-84.24152	11	5	0
STA07	Southend Loop & 25	37.305993	-84.237522	8	0	0
STA08	Livingston Pentecostal Church	37.302208	-84.22195	8	3	4
STA09	Ten Foot Hole Road & 25	37.30099	-84.23569	6	3	4
STA10	Piney Ridge Road at 490	37.29923	-84.213273	6	3	0
STA11	Livingston Fire & Rescue	37.297212	-84.214579	11	7	4
STA12	Ford Hollow Road & 25	37.29363	-84.221101	8	1	0
	Derailment Staging Site	37.314313	-84.241253	0	1	0
	End of Foxglove Hill Road	37.298918	-84.22675	0	1	0
	Int. of Ford Hollow Rd and Snowy Rd (west)	37.2884106	84.24	0	1	0
	Int. of Ford Hollow Rd and Snowy Rd (east)	37.2936149	84.22769	0	1	0
	Red Hill Road & Black Bear Lick Road	37.31495	-84.196789	0	1	0

SECTION 2 – MEASUREMENTS PER STATION

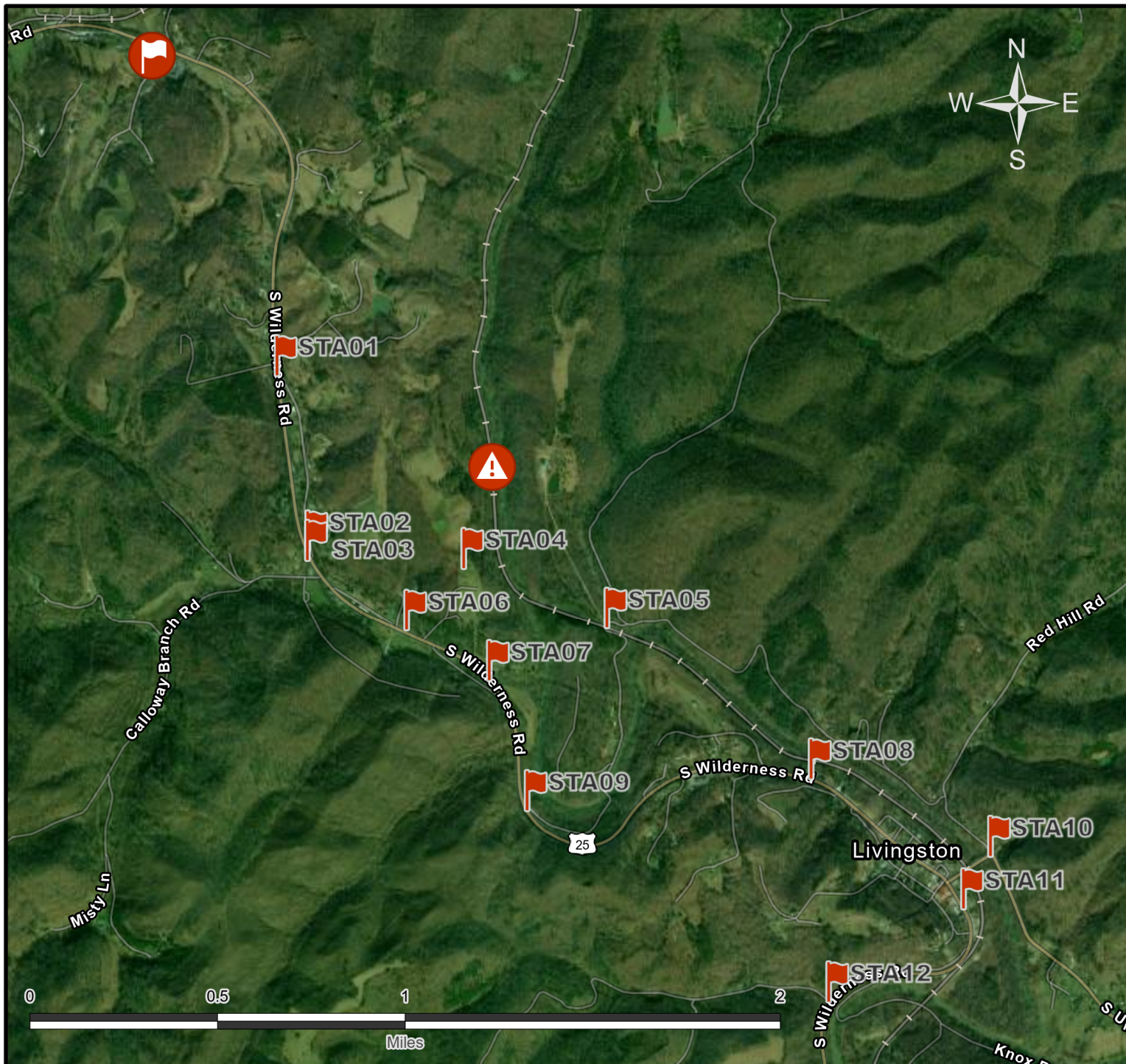
Northern End of Upper Calloway Loop & 25				
Date and Time	SO2 (ppm)	Exceeds Action Level? 0.02 ppm (AEGL-1 8hr)	H2S (ppm)	H2S Action Level 0.33 ppm (AEGL-1 8hr)
11/25 2:53 AM	0	No	0	No
11/25 6:34 AM	0	No	0	No
11/25 9:00 AM	0	No	0	No
11/25 1:30 PM	0	No	0	No
Southern End of Upper Calloway Loop & 25				
11/25 2:55 AM	0	No	0	No
11/25 6:36 AM	0	No	0	No
11/25 9:02 AM	0	No	0	No
11/25 1:33 PM	0	No	0	No
Livingston Pentecostal Church				
11/25 3:01 AM	0	No	0	No
11/25 6:43 AM	0	No	0	No
11/25 9:09 AM	0	No	0	No
11/25 1:20 PM	0	No	0	No
Ten Foot Hole Road & 25				
11/25 3:14 AM	0	No	0	No
11/25 6:59 AM	0	No	0	No
11/25 9:30 AM	0	No	0	No
11/25 1:42 PM	0	No	0	No
Livingston Fire & Rescue				
11/25 3:03 AM	0	No	0	No
11/25 6:45 AM	0	No	0	No
11/25 9:11 AM	0	No	0	No
11/25 1:23 PM	0	No	0	No

SECTION 3 – MEASUREMENTS IN SEQUENCE

Date and Time	Location	SO2 (ppm)	H2S (ppm)
11/25 2:53 AM	Northern End of Upper Calloway Loop & 25	0	No
11/25 2:55 AM	Southern End of Upper Calloway Loop & 25	0	No
11/25 3:01 AM	Livingston Pentecostal Church	0	No
11/25 3:03 AM	Livingston Fire & Rescue	0	No
11/25 3:09 AM	Piney Branch Road & 490	0	No
11/25 3:11 AM	Piney Branch Road Rail Crossing	0	No
11/25 3:14 AM	Ten Foot Hole Road & 25	0	No
11/25 6:34 AM	Northern End of Upper Calloway Loop & 25	0	No
11/25 6:36 AM	Southern End of Upper Calloway Loop & 25	0	No
11/25 6:43 AM	Livingston Pentecostal Church	0	No
11/25 6:45 AM	Livingston Fire & Rescue	0	No
11/25 6:52 AM	Piney Branch Road & 490	0	No
11/25 6:55 AM	Piney Branch Road Rail Crossing	0	No
11/25 6:59 AM	Ten Foot Hole Road & 25	0	No
11/25 9:00 AM	Northern End of Upper Calloway Loop & 25	0	No
11/25 9:02 AM	Southern End of Upper Calloway Loop & 25	0	No
11/25 9:09 AM	Livingston Pentecostal Church	0	No
11/25 9:11 AM	Livingston Fire & Rescue	0	No
11/25 9:19 AM	Piney Branch Road & 490	0	No
11/25 9:25 AM	Piney Branch Road Rail Crossing	0	No
11/25 9:30 AM	Ten Foot Hole Road & 25	0	No
11/25 1:30 PM	Northern End of Upper Calloway Loop & 25	0	No
11/25 1:33 PM	Southern End of Upper Calloway Loop & 25	0	No
11/25 1:20 PM	Livingston Pentecostal Church	0	No
11/25 1:23 PM	Livingston Fire & Rescue	0	No
11/25 1:30 PM	Piney Branch Road & 490	0	No
11/25 1:38 PM	Piney Branch Road Rail Crossing	0	No
11/25 1:42 PM	Ten Foot Hole Road & 25	0	No

DEFINITIONS

AEGL	Acute Exposure Guideline Levels (see https://www.epa.gov/aegl for more information)
EPA	U.S. Environmental Protection Agency
H2S	Hydrogen Sulfide (see https://www.atsdr.cdc.gov/toxfaqs/tfacts114.pdf for more information)
KYDEP	Kentucky Department of Environmental Protection
ppm	Parts per million
SO2	Sulfur Dioxide (see https://www.atsdr.cdc.gov/toxfaqs/tfacts116.pdf for more information)



-  Monitoring Locations
-  Derailment
-  ICP



 United States
Environmental Protection Agency
Region 4

CSX Livingston EPA and KYDEP Air Monitoring Locations

City: Livingston County: Rockcastle State: Kentucky