



DYNAMIC MONITORING FINDS OTHER ODOR SOURCES

New-Indy Catawba engaged [Trinity Consultants](#) to collect and analyze data starting in September 2021 to determine whether there is a link between odor complaints and hydrogen sulfide (H₂S) data collected by monitors installed in the region. Trinity, an international environmental expert, also was asked to determine what were the most likely sources of odor. Trinity identified more than 30 possible odor sources and concluded, based on monitoring data and simulations, that New-Indy is not responsible for odor complaints or H₂S readings in the community 79 percent of the time. As a result, and in the public interest, New-Indy decided that additional air monitoring for H₂S should be conducted at the other possible odor sources.

New-Indy Catawba engaged Palmetto Environmental Specialists (PES) to conduct mobile air monitoring at these other odor sources. PES is a South Carolina company founded by Daphne Neel, a long-time (and now former) bureau chief for the South Carolina Department of Health and Environmental Control (DHEC). Using a Honeywell SPM Flex Single Point Monitor Gas Detector and sampling methods consistent with the field techniques Daphne used at DHEC, PES undertakes a monitoring circuit several times a week at these locations. The detector PES uses is the same meter DHEC uses for monitoring at Catawba Express on Highway 5 and is reported on DHEC’s website.

The dynamic monitoring results and atmospheric conditions are recorded in PES’s field logbook and reported to New-Indy on a weekly basis.

The 30-minute exposure limit for H₂S set by the Environmental Protection Agency and the Agency for Toxic Substances and Disease Registry is 600 parts per billion (ppb) and the 14-day exposure limit is 70 ppb.

The dynamic monitoring has recorded H₂S readings in the vicinity of the below locations:

Date	Location	Time	Temp (F)	Weather	Wind Direction (degrees)	Wind Speed (mph)	Reading in ppb
6/30/2023	River Rd – Indian Land (IL), SC in the vicinity of Indian Land WWTF (IL WWTF)	1526	89	Partly Cloudy	SE 137	0-2	44
7/1/2023	River Rd – Indian Land (IL), SC in the vicinity of Indian Land WWTF (IL WWTF)	746	73	Cloudy	-----	0	13
7/15/2023	Kensington Rd - Waxhaw, NC area near 12-Mile WRF & Forest Hill Church	1628	75	Mostly Cloudy	S 184	5	128
7/15/2023	River Rd – Indian Land (IL), SC in the vicinity of Indian Land WWTF (IL WWTF)	1716	82	Cloudy	-----	0	2030
7/19/2023	Reservation Rd – Rock Hill (RH), SC near Shandon Wastewater Treatment	804	75	Sunny	S 163	2	160

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Date	Location	Time	Temp (F)	Weather	Wind Direction (degrees)	Wind Speed (mph)	Reading in ppb
	Facility (WWTF) & Shandon Rd						
7/19/2023	River Rd – Indian Land (IL), SC in the vicinity of Indian Land WWTF (IL WWTF)	843	77	Sunny	S 172	0-3	46
7/27/2023	Kensington Rd - Waxhaw, NC area near 12-Mile Water Reclamation Facility (WRF) & Cureton Town Center	743	74	Sunny	-----	0	10
7/27/2023	Kensington Rd - Waxhaw, NC area near 12-Mile Water Reclamation Facility (WRF) & Cureton Town Center	755	74	Sunny	-----	0	259
7/29/2023	Reservation Rd – Rock Hill (RH), SC near Shandon Wastewater Treatment Facility (WWTF) & Shandon Rd	835	77	Cloudy	-----	0	52
7/31/2023	River Rd – Indian Land (IL), SC in the vicinity of Indian Land WWTF (IL WWTF)	1700	89	Cloudy	E 88	3.8	27
8/11/2023	River Rd – Indian Land (IL), SC in the vicinity of Indian Land WWTF (IL WWTF)	1138	80	Mostly Cloudy	S 159	0-3.7	11
8/14/2023	Reservation Rd – RH, SC in the vicinity of Shandon WWTF & near LDS Church	1518	96	Partly Cloudy	W 248	0-3	10
8/15/2023	Reservation Rd – Rock Hill (RH), SC near Shandon Wastewater Treatment Facility (WWTF) & Shandon Rd	958	86	Mostly Sunny	SE 118	0-5.1	47
8/17/2023	Hwy 521 - IL, SC in the vicinity of IL WWTF & the Food Lion shopping center	1559	88	Mostly Sunny	-----	0	18
9/4/2023	River Rd – Indian Land (IL), SC in the vicinity of Indian Land WWTF (IL WWTF)	1708	92	Sunny	-----	0	9
9/12/2023	River Rd – Indian Land (IL), SC in the vicinity of Indian Land WWTF (IL WWTF)	1535	76	Cloudy	-----	0	8

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9/16/2023	River Rd – Indian Land (IL), SC in the vicinity of Indian Land WWTF (IL WWTF)	1312	80	Sunny	-----	0	4
10/3/2023	Hwy 521 - IL, SC in the vicinity of IL WWTF & the Food Lion shopping center	1556	83	Sunny	NE 67	2.7	68
10/19/2023	River Rd – Indian Land (IL), SC in the vicinity of Indian Land WWTF (IL WWTF)	1111	65	Sunny	S 169	0-2.1	3
10/29/2023	River Rd – Indian Land (IL), SC in the vicinity of Indian Land WWTF (IL WWTF)	1622	81	Sunny	SE 155	0-1.9	7
10/30/2023	River Rd – Indian Land (IL), SC in the vicinity of Indian Land WWTF (IL WWTF)	1151	77	Sunny	SE 133	0-2.0	24
11/08/2023	River Rd – Indian Land (IL), SC in the vicinity of Indian Land WWTF (IL WWTF)	1348	80	Sunny	-----	0	743
11/18/2023	Reservation Rd – Rock Hill (RH), SC near Shandon Wastewater Treatment Facility (WWTF) & Shandon Rd	1237	74	Sunny	-----	0	92
11/20/2023	Little River Rd - in the vicinity of the IL WWTF near the power line easement	1151	77	Partly Sunny	SE 144	2.3	1,557
12/3/23	River Rd – Indian Land (IL), SC in the vicinity of Indian Land WWTF (IL WWTF)	1621	68	Cloudy	SE 146	1.2	3
1/2/24	River Rd – Indian Land (IL), SC in the vicinity of Indian Land WWTF (IL WWTF)	1551	50	Sunny	-----	0	14
1/22/24	River Rd – Indian Land (IL), SC in the vicinity of Indian Land WWTF (IL WWTF)	1338	48	Sunny	SW 220	1.5	10