



Radical Transparency and Natural Gas Development in Pennsylvania

Presentation to the Department of Environmental Protection - Citizens Advisory Council

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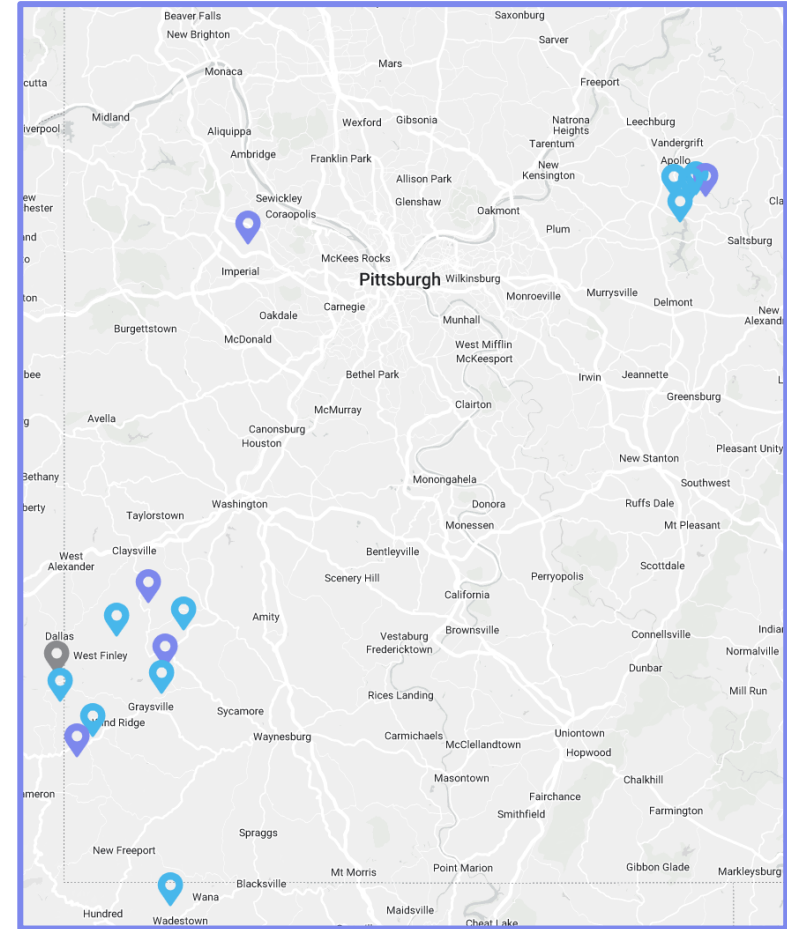
President & CEO, CNX Resources Corp.

The Concept: Radically Transparent

Replacing speculation with facts and data, in close coordination with PA DEP, to help guide public policy decision-making around responsible Pennsylvania natural gas development.

- ✓ **15+** monitoring sites (well pads & compressor stations) across operating footprint
- ✓ Real time air quality data, chemical additive disclosure, enhanced water quality, methane and radiation monitoring disclosures
- ✓ **Hundreds of thousands** of data points collected to date
 - *Data independently collected & reviewed for quality assurance by Clean Air Engineering and **simultaneously provided to PA DEP and CNX***

“If the air is clean and the water is pure (from hydraulic fracturing) and you allow us to have access to that data to see that, that’s good for our communities and good for our economy.” – Governor Josh Shapiro, [Pittsburgh Business Times](#)






- Active Monitoring
- Archived Monitoring
- Coming Soon

The Approach: Collecting Specified, Site-Level Data

Monitors equipped with the latest data collection technology guided by federal and industry criteria. CNX's best management practices taken to the next level to provide the most comprehensive review of operations throughout development phases.

- ✓ **Air:** Facilities use real-time federal equivalent method monitors to measure PM2.5, installed at upwind and downwind fence-line locations. Passive samplers collect BTEX levels. Monitoring follows EPA methods and guidelines
- ✓ **Water:** Pre- and post-activity groundwater monitoring exceeds current guidelines, testing four quarters in advance of and four quarters post activity
 - ✓ **Chemical Additives:** All additives anticipated to be used are disclosed before activity commences and there are no trade secrets
- ✓ **Radiation:** CNX's comprehensive radiation protection plan identifies potential radiation sources and specifies the company's protocol for minimization, proper handling, and disposal

Fenceline Setup

<u>BTEX</u>	<u>PM2.5</u>	<u>Meteorology</u>
		
Modified EPA Method 325 A/B⁵ Sorbent Traps 4 sampling locations 14-day average data	Met One BAM-1022 Beta Attenuation Monitor Federal Equivalent Method 2 sampling locations 1-hour average data	Met One 30.5 or AIO2 1 sampling location Mounted on 30-ft. tower 5-minute average data



Transparency: Methane Disclosures

The Appalachian Basin is the lowest methane emission intense basin in the United States, and CNX is a leader in driving meaningful methane emission reductions. We have made significant reductions in methane emissions since 2020 and have aggressive goals to maintain our low intensity profile—even as we expand our operational footprint.

Leak Detection and Repair (LDAR):



CNX's LDAR program mitigates methane emissions by using technology to find leaks as quickly as possible so that they can be rapidly repaired. **CNX provides transparent monthly data on our website** showing identified leaks, their duration, and even the specific equipment and/or component that was leaking.



Our LDAR program ensures timely repair of leaks, and we strive for earlier and more effective detection of fugitive emissions by utilizing early detection technology, including drones, OGI cameras, and continuous monitoring of ground detection systems.

The Results: Air Quality

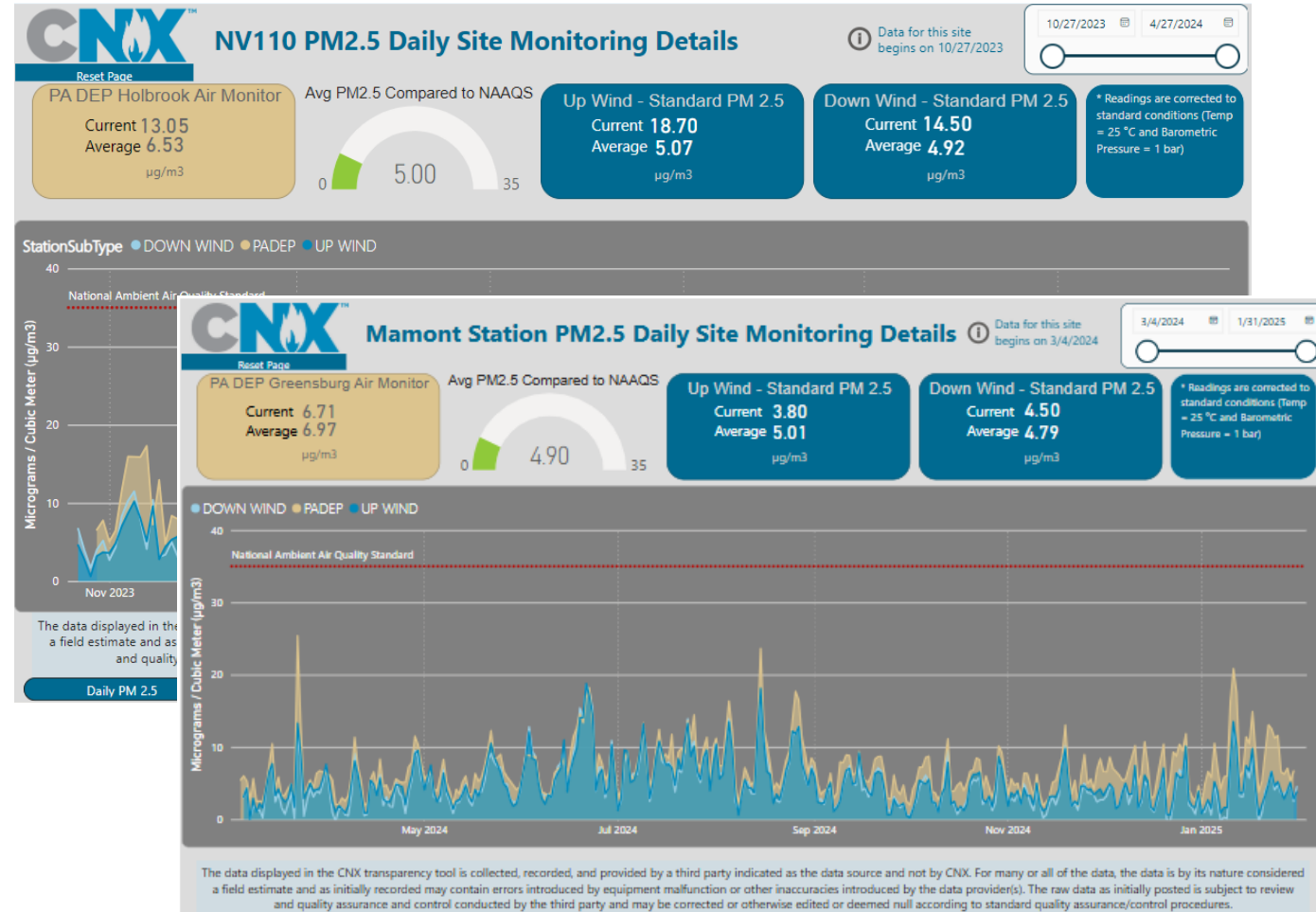
Timely and reliable data is provided through a publicly-available dashboard; “Context Corner” series translates data into digestible information, eliminating speculation.

Initial Results:

PM2.5 (asthma) concentrations **below NAAQS levels at all sites** and well below levels observed within regional urban environments



BTEX (cancer) concentrations **well below** minimum risk levels at all sites



The Results: Water Quality & Radiation Protection

Expanded water quality monitoring and radiation protection safeguards go beyond regulatory requirements and industry standards.

Robust Water Quality Monitoring & Additive Disclosure Program:

- ✓ Expands water testing for private residential drinking water (within 2,500 feet of a well bore)
- ✓ Increases testing to at least four quarterly samples taken both before and after drilling activity
- ✓ Collaboration with service partners enhances momentum

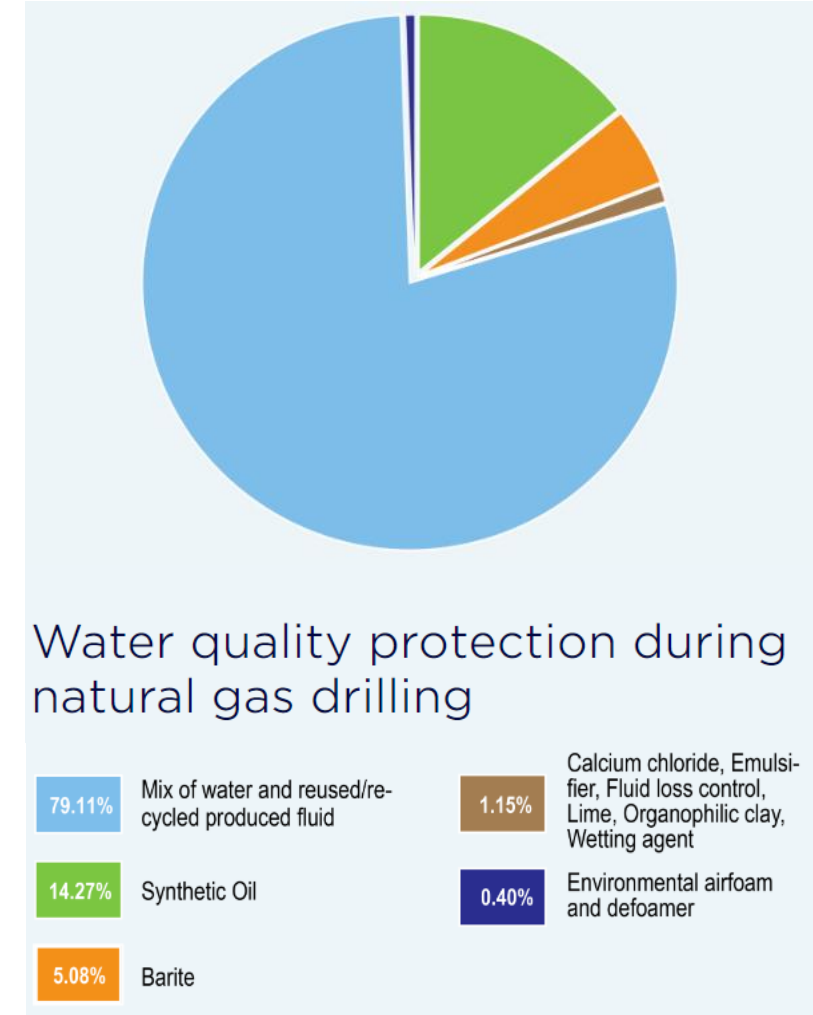


Chemstream Inc. Announces Full Compliance with Historic Radical Transparency Initiative

- ✓ Chemical additives disclosed prior to their use and with no trade secrets

Radiation Program:

- ✓ CNX's comprehensive radiation protection plan is publicly available and has enhanced radiation monitoring and protection protocols



The Next Chapter

RADICAL TRANSPARENCY



Tangible. Impactful. Local.
2023 Corporate Sustainability Report



Expanding number of sites until **Radical Transparency** covers all unconventional CNX operations



CNX will **supplement the scope of data collected and transparently shared** as program matures



Partnering with PA DEP to provide independent monitoring before, during, and after the development of new wells



CNX is providing real-time data to inform future public policy and **ensure transparent and responsible natural gas development**



Thank You