

Fractracker

Center for Healthy Environment and Communities



Find



Visualize



Save



Share



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Blog Features

Pages – About Us,
Marcellus Resources,
How FracTracker Works,
DataTool, Events
Calendar

Share It (Twitter, etc)

RSS Feeds – Most recent
datasets from DataTool,
CHEC documentary
project videos, PA DEP
News, Citizens' Photos

Links

Search Button

Archive

Blog Followers &
Contributors

Labels/Tags from Posts



The Blog –

<http://www.fractracker.org>

FRACTRACKER - MARCELLUS SHALE DATA TRACKING
TRACKING THE IMPACTS OF MARCELLUS SHALE GAS EXTRACTION

Blog About Us Marcellus Resources How FracTracker Works DataTool Calendar

TUESDAY, AUGUST 24, 2010

Potential Shale Gas Extraction Air Pollution Impacts

How Organic Compounds Contained in the Shale Layer Can Volatilize Into Air, Become Hazardous Air Pollutants and Cause Ozone Formation

By: Conrad Dan Volz, DrPH, MPH; Drew Michanowicz, MPH, CPH; Charles Christen, DrPH, MEd; Samantha Malone, MPH, CPH; Kyle Ferrer, MPH - Center for Healthy Environments and Communities (CHEC), University of Pittsburgh, GSPH, EOH department

The Center for Healthy Environments and Communities has received numerous requests for information on how Marcellus shale gas extraction operations might contribute to air quality problems throughout the PA-NY-WV region, how air quality problems might develop in other shale plays around the country, and the potential human exposure to specific air contaminants generated in these processes. We are addressing this question in a very thorough academic fashion now by looking at the industrial processes involved from site clearance, to well drilling and hydrofracturing, to gas processing and methane and byproduct transport; we are developing conceptual site models of human exposure to contaminants generated by this very complicated industry with many sub-operations.

A conceptual site model is a written and/or pictorial representation of an environmental system and the biological, physical and chemical processes that determine the transport and fate of contaminants from a source, through environmental media (air, groundwater, surface water, sediment, soils, and food) to environmental receptors (humans, aquatic and terrestrial organisms can all be environmental receptors) and their most likely exposure modes (ASTM, 2008). Again, because there are many sources and types of contaminants to understand and uncover within each gas

WELCOME!
FracTracker's Blog & DataTool, (hosted by the Foundation for PA Watersheds & funded by the Heinz Endowments), provide citizens with a common place to share their Marcellus Shale drilling experiences & data. Both the Blog & DataTool are managed by CHEC.

SHARE IT

Share this on Facebook
Tweet this
This has been viewed 68 times
[Get this by email](#)

MOST RECENT FRACTRACKER DATASETS
Community Impacts of

Register

Splash page (screen shot right)

Free & automated using Rhiza tools (software developer)

Provide name and email address to encourage data accuracy

Can view datasets and take a tour without registering, but cannot upload or download data



DataTool – <http://data.fractracker.org>

The screenshot shows the Fractracker splash page. At the top left is the logo for the Center for Healthy Environments & Communities, University of Pittsburgh Graduate School of Public Health. To the right are navigation links: 'MY HOME', 'IMPORT', and 'EXPLORE'. The main visual is a large image of dark, layered rock with the word 'Fractracker' in bold white text. Below this image are six circular icons representing 'Find', 'Visualize', 'Save', 'Share', 'Trust', and 'Upload'. A large blue button labeled 'TAKE THE TOUR' is centered below the icons. On the right side, a registration form titled 'Welcome to Fractracker' asks the user to 'Please sign up for an account!' with a 'JOIN NOW' button. Below that is a 'LOG IN' section with fields for 'EMAIL ADDRESS' and 'PASSWORD', and a 'LOG IN' button. A link for 'Forgot your password?' is located at the bottom of the registration area.

My Home

Your profile – name, contact info, & a summary of your activity

Library of datasets uploaded, snapshots created

Everything is public.

Explore

Dashboard / summary of site's recent activity

Search / sort by datasets, snapshots, users, geographic area



My Home & Explore Pages

The screenshot shows the 'My Home' page for user Samantha Malone. At the top, the logo for the Center for Healthy Environments & Communities (CHEC) at the University of Pittsburgh Graduate School of Public Health is visible. Navigation tabs include 'MY HOME', 'IMPORT', and 'EXPLORE'. The user's profile is shown with a 'PROFILE + LIBRARY' header and an 'ACTIONS' menu. Below this is a section for 'About Samantha Malone' with a table of details:

About Samantha Malone	
NAME	Samantha Malone
EMAIL	slm75 at pitt dot edu
WORKGROUPS	CHEC
Position Title	Communications Specialist
Organization	Center for Healthy Environments & Communities
MEMBER SINCE	19 May 2010
DISCUSSION	0 Comments
CREATED	0 Collections
UPLOADED	2 Datasets
CREATED	10 Snapshots
EMAIL NOTIFICATIONS	ON (Toggle this to turn off email notifications for comments on your items, as well as workgroup membership changes and snapshots created using your datasets.)
RATING	Rate this item (5 stars)
LINKS	Center for Healthy Environments & Communities

Below the profile is a 'Library' section showing 16 items. The first item is 'PA Oil and Gas Wastewater Facilities and Water Areas' by Samantha Malone, created on Aug 14, 2010, with 0 comments. The second item is 'PA Facilities Approved to Receive Oil and Gas Wastewater' by Samantha Malone, also created on Aug 14, 2010, with 0 comments. Each item has an 'ACTIONS' menu.

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Library of datasets uploaded, snapshots created

Everything is public.

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Explore

Dashboard / summary of site's recent activity

Search / sort by datasets, snapshots, users, geographic area



My Home & Explore Pages

A screenshot of the 'Explore' page on the Center for Healthy Environments & Communities website. The page header includes the university logo and name, and navigation tabs for 'MY HOME', 'IMPORT', and 'EXPLORE'. The main content area features two search options: 'Explore A Specific Geography' with a 'SELECT GEOGRAPHIC AREA' button, and 'Explore By Topic Or Keyword' with a 'SUBMIT' button. Below these are filters for 'Show Datasets' and 'Browse', and a list of 80 items sorted by 'Most Recent'. The list includes items like 'Community Impacts of Marcellus Shale Drilling and M... xtraction Documentary Project Interviews (2010-08-24)', 'Asthma and Myocardial Infarction Rates of SW PA Counties in 2007', and 'National Gas Transmission Pipeline Incidents 2010 to Present'. Each item has a star rating, comment count, originator, and upload date.

Visualize = Map the data
This is why latitude and longitude are critical
Define what you want to show on the map
Adjust the screen to zoom in on an area
Learn more about an individual record
Save session for later or create a snapshot



Visualize Data

Visualization Tool ACTIONS

MAP

South Dakota Wisconsin Michigan Maine Nova Scotia Edward Island
Nebraska Iowa Illinois Indiana Ohio Pennsylvania Vermont New Hampshire Massachusetts Rhode Island
Oregon Idaho Wyoming California Nevada Utah Colorado Kansas Missouri Tennessee Alabama Louisiana Texas Mississippi Georgia Florida
Arizona New Mexico

Lat: 41.70573 Lon: -85.69336

National Gas Transmission Pipeline Incidents 2010 to Present

All records

+ all values view

POWERED BY Google

REFRESH MAP

1 Dataset

National Gas Transmission Pipeline Incidents 2010 to Present

SHOW ON MAP:

all records as +

Search for More Datasets

Just like a snapshot you take with a camera, except this one can update automatically!

Provides information on how the snapshot is being used & what datasets were used to create it

Create a new visualization based on the snapshot

Download it

Or share it online (in pop up box to the right)

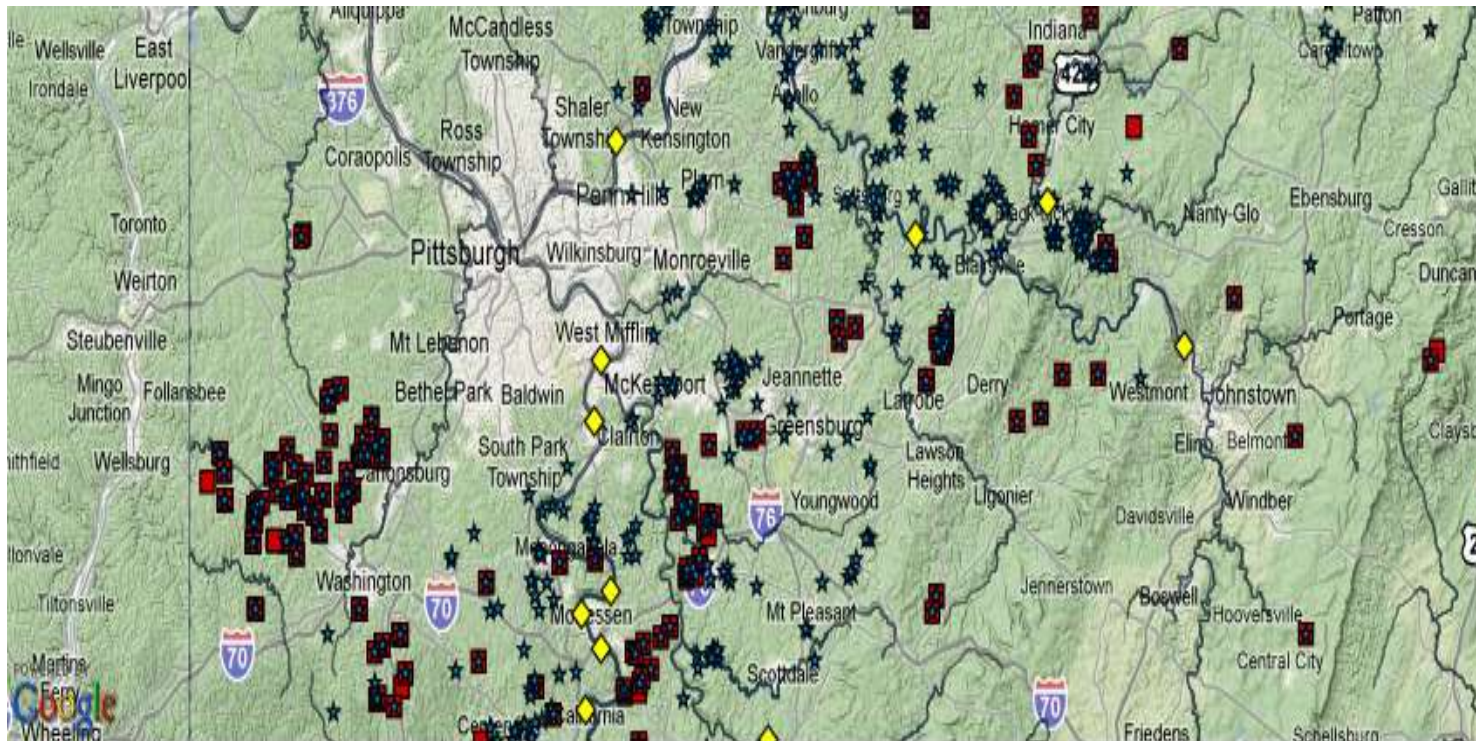


Snapshots

The screenshot shows a web interface with a 'Share this Snapshot' dialog box overlaid on a map of the United States. The dialog box contains the following text: 'Below are direct references to this snapshot, which you can copy and paste into other applications or web sites. The embed code will place a live, clickable version of the visualization on your web page. The thumbnail is a static image of the snapshot, and can be used with or without the legend.' It includes fields for LINK, EMBED, THUMBNAIL, and KML, each with a corresponding URL. There are also radio buttons for 'Include name & legend (large)' (selected) and 'Just the visualization (small)'. The map below shows the United States with numerous red markers. A table on the right side of the interface provides metadata for the snapshot.

CREATED	Aug 25, 2010
DISCUSSION	0 Comments
SAVED IN	1 Collection
BASIS OF	0 Snapshots
RATING	Rate this item

Activity Related to the Marcellus Shale Development



- Wastewater Treatment Facilities Acce...
All records
- ◆
- Pennsylvania Rivers
All records
-
- NY_PA_WW Post 2008 Permit Wells
All records
- ★
- Marcellus Shale Drilled Wells in PA 20...
All records
-

Marcellus Shale Well Permits from 2007 through June 2010

