

Petroleum Refinery Fenceline Monitoring Stakeholder Engagement

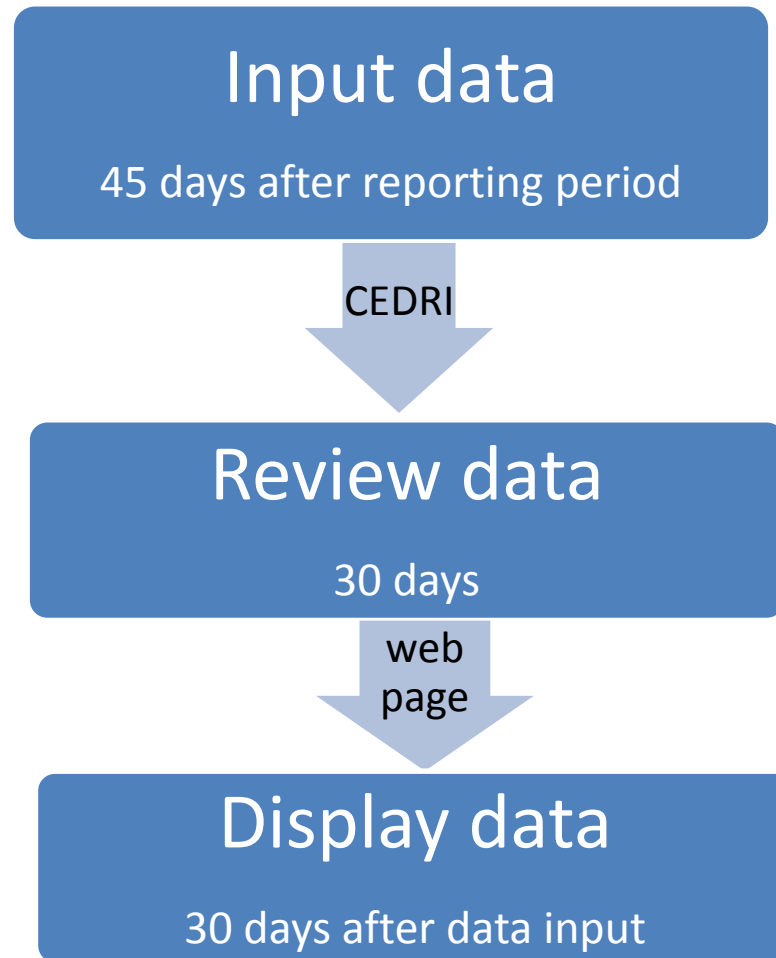
Webinar for Industry

June 21, 2016

Overview

- ▶ Process
- ▶ Schedule
- ▶ CEDRI
- ▶ Public Display of Data - Examples
- ▶ Stakeholder Input
- ▶ Additional Information

Process



Schedule

Milestones	Dates
Refineries install fenceline monitoring systems	Present – January 29, 2018
Refineries begin collecting data <ul style="list-style-type: none">Collect 12 months of data to calculate annual average	January 30, 2018
Refineries report data to EPA's emissions data system <ul style="list-style-type: none">Refineries continue to report data on quarterly basisRefineries compare annual average to 9 micrograms per cubic meter	Spring 2019
EPA public release of benzene data on web page 30 days after quarterly reporting period ends <ul style="list-style-type: none">Data will be refreshed quarterly on EPA's public web page	Summer 2019

CEDRI

- ▶ EPA's Compliance and Emissions Data Reporting Interface

CEDRI – Selecting a Report

← → ↻ 🔍

EPA United States Environmental Protection Agency

MyCEDRI | [My Reports](#) | [CEDRI History](#) | [User Management](#) | [CEDRI Help](#)

Logged in as [Return to CDX](#) | [Logout](#)

Manage Regulations/Create Report(s) [CEDRI Helpdesk Chat](#)

The reports that you recently submitted within CEDRI are listed below. You may add more regulations and reports by selecting options from the 40 CFR Part and Subparts dropdown. To remove an existing regulation from your profile, select the corresponding regulation from the list and click the 'Remove Selected Regulation(s)' button below.

To create a new report for a regulation, click the corresponding regulation from the list, select facility(ies), and select the 'Proceed to My Reports' button. If selecting multiple facilities, a separate report will be generated for each facility selected.

Filter Available Reports by Report Type (Optional)

Annual Report Notification Report
 Fenceline Monitoring Report Performance Test Report
 Notice of Compliance Status Relative Accuracy Test Audit (RATA) Data
 Include reports with a bulk upload option

Select From Recently Submitted Reports or Select New Regulation [Edit Facility\(s\)](#)

<input type="checkbox"/> 40 CFR Part	Subpart	Available Report(s)	Select Facility(s)
<input checked="" type="checkbox"/> Part 63 Select 40 CFR Part ▼	Subpart CC-National Emission Standards for Hazardous Air Pollutants From Petroleum Refineries Select a Sub-part	<input checked="" type="checkbox"/> 63.655(h)(8) Fenceline Monitoring Report <input type="checkbox"/> 63.655(h)(9)(i) Results of the Performance Test <input type="checkbox"/> 63.655(h)(9)(ii) Results of the Performance Evaluation	<input checked="" type="checkbox"/>

X Remove Selected Regulation(s) **Proceed to My Reports**

EPA Home | [Privacy and Security Notice](#) | [Accessibility](#) | [CDX Help Desk: 888-896-1995 | \(970\) 494-5500 for International callers](#) | [About CDX](#) | [Frequently Asked Questions](#) | [Terms and Conditions](#) | [Contact Us](#)

CEDRI – Creating a Report

The screenshot displays the CEDRI web application interface. At the top, there is a navigation bar with the EPA logo and the text "United States Environmental Protection Agency". Below this, a secondary navigation bar contains links for "MyCEDRI", "My Reports", "CEDRI History", "User Management", and "CEDRI Help". On the right side of this bar, it indicates the user is "Logged in as" and provides links for "Return to CDX" and "Logout".

The main content area is titled "My Reports" and includes a "CEDRI Helpdesk Chat" button. A paragraph explains that users registered as "Certifiers" can prepare and certify reports for their facilities. It notes that reports not yet started are in the "New Reports" section, reports started but not complete are in the "In Progress Reports" section, and complete reports awaiting certification are in the "Ready for Certification" section. A link to the "CEDRI User Guide" is provided.

A green button labeled "+ Create New Report" is prominently displayed. Below this, the "In Progress Reports" section is shown, featuring a table with two entries:

<input type="checkbox"/> Report Name	Created Date	Facility Name	
<input type="checkbox"/> 63.655 Fenceline Monitoring Report	2016-06-03 11:14:08.784		Continue
<input type="checkbox"/> 63.11225(a)(4)(vi) Notification of Compliance Status	2016-04-03 11:14:08.784		Continue

A red button labeled "Remove Selected" is located below the table. The "Ready for Certification" section is partially visible at the bottom of the screenshot, showing a table header with columns for "Report Name", "Created Date", and "Facility Name".

CEDRI – Creating/Editing a Report

The screenshot shows the EPA CEDRI web application interface. At the top, the EPA logo and "United States Environmental Protection Agency" are displayed. Navigation links include "MyCEDRI", "My Reports", "CEDRI History", "User Management", and "CEDRI Help". A user is logged in, with options for "Return to CDX" and "Logout". A "CEDRI Helpdesk Chat" button is also present.

Create/Edit Report

A progress indicator shows three steps: "Create/Edit Report" (highlighted with a yellow circle), "Notify Certifiers", and "Certify & Submit".

Part 63 - Subpart CC-National Emission Standards for Hazardous Air Pollutants From Petroleum Refineries

Create/Edit Form
Warning: A new application window will open.

Optional Reporting Utilities
[Access Templates & Schemas](#)

Report	63.655(h)(8) Fenceline Monitoring Report
Report Status	In Progress
Report Created on	Fri Jun 03 09:34:27 EDT 2016

Facility Details	
Facility Name	
EPA Registry ID	


[View More Details](#) | [Edit Facility Details](#)

[Return to My Reports](#) | [Notify Certifiers](#)

At the bottom, there are links for "EPA Home", "Privacy and Security Notice", "Accessibility", "CDX Help Desk: 888-890-1995 | (970) 494-5500 for International callers", "About CDX", "Frequently Asked Questions", "Terms and Conditions", and "Contact Us". The EPA logo is also present in the bottom right corner.

CEDRI – General Information Page

Fenceline Monitoring: Welcome Page

 United States Environmental Protection Agency

[CEDRI](#) [Instructions](#) [CEDRI Helpdesk Chat](#)

General Information

Reporting Requirements

Fill out this form for fenceline monitoring systems subject to §63.658, within 45 calendar days after the end of each reporting period. Each owner or operator shall submit the following information to the EPA's Compliance and Emissions Data Reporting Interface (CEDRI). The owner or operator need not transmit this data prior to obtaining the initial 12 months of data. ([§63.655\(h\)\(8\)](#))

For the first reporting period and whenever a passive sampler is added or moved, the owner or operator shall report the coordinates of all of the passive sampler locations. The owner or operator shall determine the coordinates using an instrument with an accuracy of at least 3 meters. Coordinates shall be in decimal degrees with at least five decimal places. ([§63.655\(h\)\(8\)\(i\)](#))

On the next page, please provide the passive sampler IDs, coordinates, sampler type and their corresponding sampling period for each biweekly sampling period for this reporting period. Also, please provide the individual sample results for each passive monitor for each biweekly sampling period. Ensure your report/data includes all of the required data elements found in the listed citations below.

- i. Provide the biweekly annual average concentration difference (Δc) values for benzene for the reporting period. ([§63.655\(h\)\(8\)\(ii\)](#))
- ii. Provide notation for each biweekly sampling period value that indicates:
 - a. whether background correction was used,
 - b. all measurements in the sampling period were below detection, or
 - c. whether an outlier was removed from the sampling period data set. ([§63.655\(h\)\(8\)\(iii\)*](#))

Template Instructions

You may upload a completed Excel template to submit data for this reporting period. Please click the following link to download the Excel template: <https://www3.epa.gov/ttn/chief/cedri/index.html>. Once you complete your data entry in the Excel template, you may upload the template on the next page by selecting the 'Upload' button and the Excel file will populate the table.

Report Navigation


Use the 'Next Page' and 'Previous Page' buttons to navigate between pages. At any time, you may save your progress and return to the submission package by selecting the 'Save & Close' button.

When the form is complete, please select the 'Mark as Complete' button.

Please proceed to the next page by selecting the 'Next Page' button.

[Next Page](#) [Save](#) [Save & Close](#) [Mark as Complete](#)

CEDRI – Reporting Period and Sampling Data


United States Environmental Protection Agency

CEDRI
Instructions
CEDRI Helpdesk Chat

Reporting Period

What is the year and quarter that you are reporting for?

Please select the reporting year:

Please select the reporting period:

Start Date of reporting period:

End Date of reporting period:

Sampling Data

You may download an Excel template to submit data for this reporting period. Once you complete your data entry in the Excel template, please click the Upload button below to upload the Excel file. The Excel file will populate the table below. After upload, you may edit the populated data within the table below if desired.

[Download Template](#)

If not utilizing a template, please complete the table below for the reporting period.

				<< < Biweek 2 > >>						
Passive Sampler Id	Latitude	Longitude	Type	Start Date of Sampling Period	End Date of Sampling Period	Sample Concentration of Benzene (µg/m ³)	Is Concentration BDL?	Outlier	Background Correction Used?	
<input checked="" type="checkbox"/>	<input type="text" value="PS-1"/>	<input type="text" value="42.879489"/>	<input type="text" value="-78.876205"/>	<input type="text" value="Primary"/>	<input type="text" value="01/01/2016"/>	<input type="text" value="03/31/2016"/>	<input type="text" value="3.159"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="text" value="PS-2"/>	<input type="text" value="43.453459"/>	<input type="text" value="-78.255363"/>	<input type="text" value="Primary"/>	<input type="text" value="01/01/2016"/>	<input type="text" value="03/31/2016"/>	<input type="text" value="3.432"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="text" value="PS-3"/>	<input type="text" value="43.435563"/>	<input type="text" value="-78.235267"/>	<input type="text" value="Primary"/>	<input type="text" value="01/01/2016"/>	<input type="text" value="03/31/2016"/>	<input type="text" value="3.456"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Provide Annual Average Δc

Provide the annual average Δc for all biweeks

Sampling Period Δc for Biweek 2

This value is auto-calculated for each biweek within the reporting period.

Additional Information


Please enter any additional information.

Attach a ZIP file if submitting multiple files or a PDF file if submitting a single file for any other additional information needed to be submitted. If you elect to use a ZIP file, the ZIP file may contain individual files in any file format (e.g. xlsx, docx, PDF).

Click upload to attach any additional information.

You have reached the end of the report. To continue, please click the 'Mark as Complete' button.

CEDRI – Defining a Reporting Period

 United States Environmental Protection Agency

CEDRI Instructions CEDRI Helpdesk Chat

Reporting Period

What is the year and quarter that you are reporting for?

Please select the reporting year:

Please select the reporting period:

Start Date of reporting period:

End Date of reporting period:

Sampling Data

You may download an Excel template to submit data for this reporting period. Once you complete your data entry in the Excel template, please click the Upload button below to upload the Excel file. The Excel file will populate the table below. After upload, you may edit the populated data within the table below if desired.

[Download Template](#)

If not utilizing a template, please complete the table below for the reporting period.

<< < Biweek 2 > >>										
	Passive Sampler Id	Latitude	Longitude	Type	Start Date of Sampling Period	End Date of Sampling Period	Sample Concentration of Benzene (µg/m3)	Is Concentration BDL?	Outlier	Background Correction Used?
✘	PS-1	42.879489	-78.876205	Primary	01/01/2016	03/31/2016	3.59	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

CEDRI – Providing Sampling Data

Sampling Data

You may download an Excel template to submit data for this reporting period. Once you complete your data entry in the Excel template, please click the Upload button below to upload the Excel file. The Excel file will populate the table below. After upload, you may edit the populated data within the table below if desired.

[Download Template](#)

Upload

If not utilizing a template, please complete the table below for the reporting period.

Export

<<< Biweek 2 >>>

	Passive Sampler Id	Latitude	Longitude	Type	Start Date of Sampling Period	End Date of Sampling Period	Sample Concentration of Benzene ($\mu\text{g}/\text{m}^3$)	Is Concentration BDL?	Outlier	Background Correction Used?
✘	PS-1	42.879489	-78.876205	Primary	01/01/2016	03/31/2016	3.159	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
✘	PS-2	43.453459	-78.255363	Primary	01/01/2016	03/31/2016	3.432	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
✘	PS-3	43.435563	-78.235267	Primary	01/01/2016	03/31/2016	3.456	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Add Row

Provide Annual Average Δc

Provide the annual average Δc for all biweeks.

Sampling Period Δc for Biweek 2

This value is auto-calculated for each biweek within the reporting period.

3.233

CEDRI – Additional Information

	PS-2	43.453459	-78.255363	Primary	01/01/2016	03/31/2016	3.432	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	PS-3	43.435563	-78.235267	Primary	01/01/2016	03/31/2016	3.456	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Add Row

Provide Annual Average Δc

Provide the annual average Δc for all biweeks.

Sampling Period Δc for Biweek 2

This value is auto-calculated for each biweek within the reporting period.

3.233

Additional Information

Please enter any additional information.

Attach a ZIP file if submitting multiple files or a PDF file if submitting a single file for any other additional information needed to be submitted. If you elect to use a ZIP file, the ZIP file may contain individual files in any file format (e.g. xlsx, .docx, PDF).

Click upload to attach any additional information.

Upload

You have reached the end of the report. To continue, please click the 'Mark as Complete' button.

Previous Page

Save

Save & Close

Mark as Complete

CEDRI – Template

	A	I	J	K	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA
	Passive Sampler ID*	Latitude of Passive Sampler*	Longitude of Passive Sampler*	Passive Sampler Type	Biweek Sampling Period 1: Start Date of Sampling Period	Biweek Sampling Period 1: End Date of Sampling Period	Biweek Sampling Period 1: Sample Concentration of Benzene (µg/m3)	Biweek Sampling Period 1: <Value Provided in Column <P> BDL?	Biweek Sampling Period 1: Outlier Removed?	Biweek Sampling Period 1: Background Correction Used?	Biweek Sampling Period 2: Start Date of Sampling Period	Biweek Sampling Period 2: End Date of Sampling Period	Biweek Sampling Period 2: Sample Concentration of Benzene (µg/m3)	Biweek Sampling Period 2: <Value Provided in Column <V> BDL?	Biweek Sampling Period 2: Outlier Removed?	Biweek Sampling Period 2: Background Correction Used?	Biweek Sampling Period 3: Start Date of Sampling Period	Biweek Sampling Period 3: End Date of Sampling Period
1																		
2	PS-1	42.87949	-78.87621	Primary	1/1/2016	3/31/2016	3.153	Yes	No	Yes	1/1/2016	3/31/2016	3.159	Yes	No	Yes	1/1/2016	3/31/2016
3	PS-2	43.45346	-78.25536	Primary	1/1/2016	3/31/2016	3.062	Yes	No	Yes	1/1/2016	3/31/2016	3.432	Yes	Yes	Yes	1/1/2016	3/31/2016
4	PS-3	43.43556	--78.23527	Primary	1/1/2016	3/31/2016	3.213	Yes	No	Yes	1/1/2016	3/31/2016	3.456	Yes	No	Yes	1/1/2016	3/31/2016
5																		
6																		
7																		
8																		
9																		
10																		

Public Display of Data – Examples

- ▶ Public display of data
 - ▶ EPA is designing a web page to display fenceline refinery data
 - ▶ Web page will be managed by EPA
 - ▶ Design will incorporate stakeholder ideas
 - ▶ Available to public in Summer 2019

Web Page Example

The screenshot shows the EPA website's navigation bar with the EPA logo and the text 'US Environmental Protection Agency'. Language options include Español, 中文: 繁體版, 中文: 简体版, Tiếng Việt, and 한국어. A 'Log out' link is also present. Below the navigation bar are tabs for 'Learn the Issues', 'Science & Technology', 'Laws & Regulations', and 'About EPA'. A search bar contains the text 'Search EPA.gov'. The main heading is 'Fenceline Monitoring for Petroleum Refineries'. The introductory text states that on December 1, 2015, the EPA issued a final rule to control toxic air emissions from petroleum refineries. The page is divided into four sections: 'Refinery Information' with an image of a refinery and a list of questions; 'Health Information' with an image of a stethoscope and a list of questions; 'Access Monitoring Data' with an image of a tablet displaying charts; and 'In Your Community' with an image of a playground and a list of resources.

EPA US Environmental Protection Agency

Español | 中文: 繁體版 | 中文: 简体版 | Tiếng Việt | 한국어 | Log out


Learn the Issues | Science & Technology | Laws & Regulations | About EPA

Search EPA.gov

Fenceline Monitoring for Petroleum Refineries


On December 1, 2015, the Environmental Protection Agency (EPA) issued a final rule that will further control toxic air emissions from petroleum refineries and provide important information about refinery emissions to the public and neighboring communities. This site offers more about that regulatory action, the health effects of benzene, and offers several options for viewing data from refinery fenceline monitors.

Refinery Information




- What are refineries?
- How does EPA regulate refineries?

Health Information




- What are health effects of benzene?

Access Monitoring Data

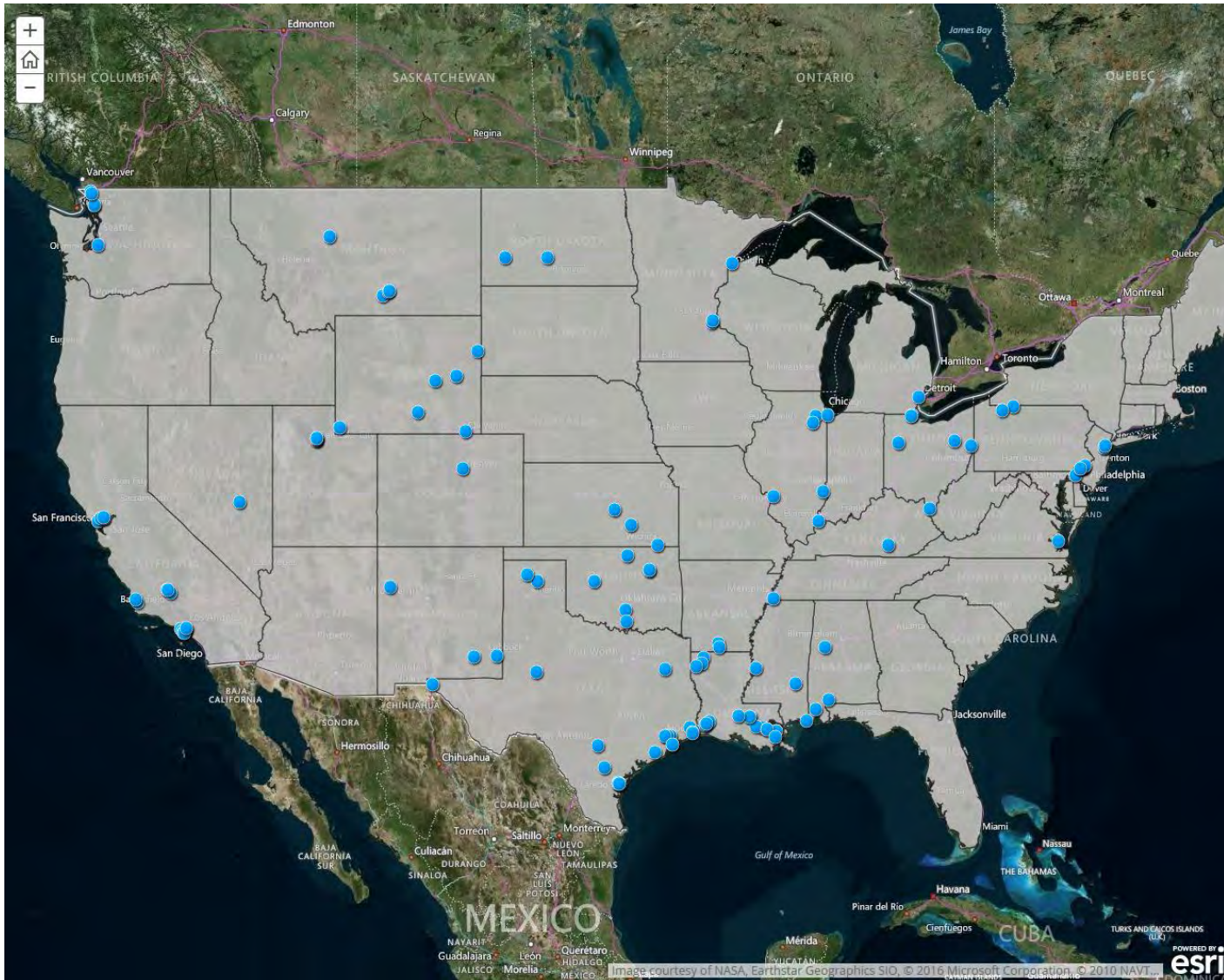


In Your Community

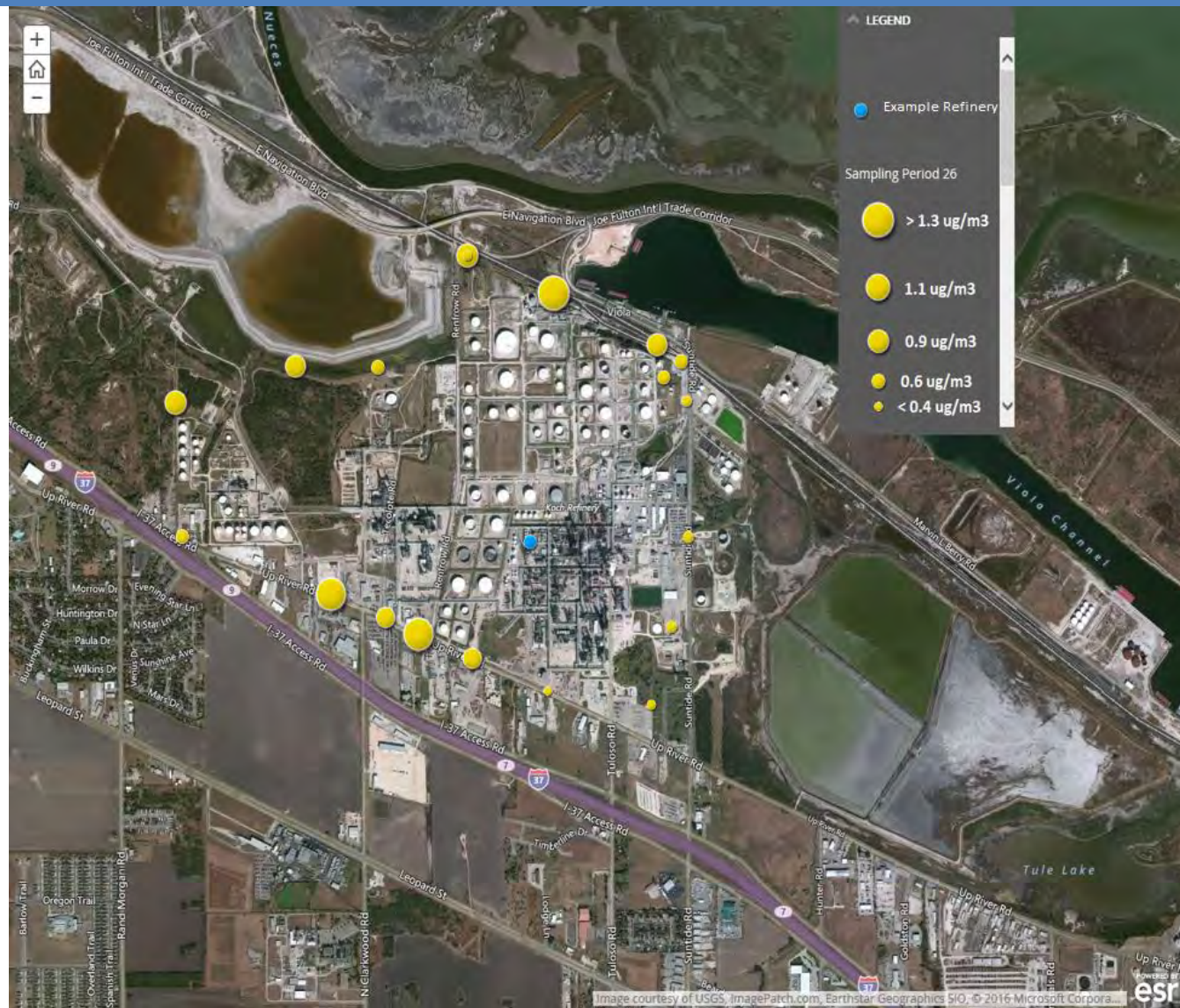


- Envirofacts

Story Map – Home Page

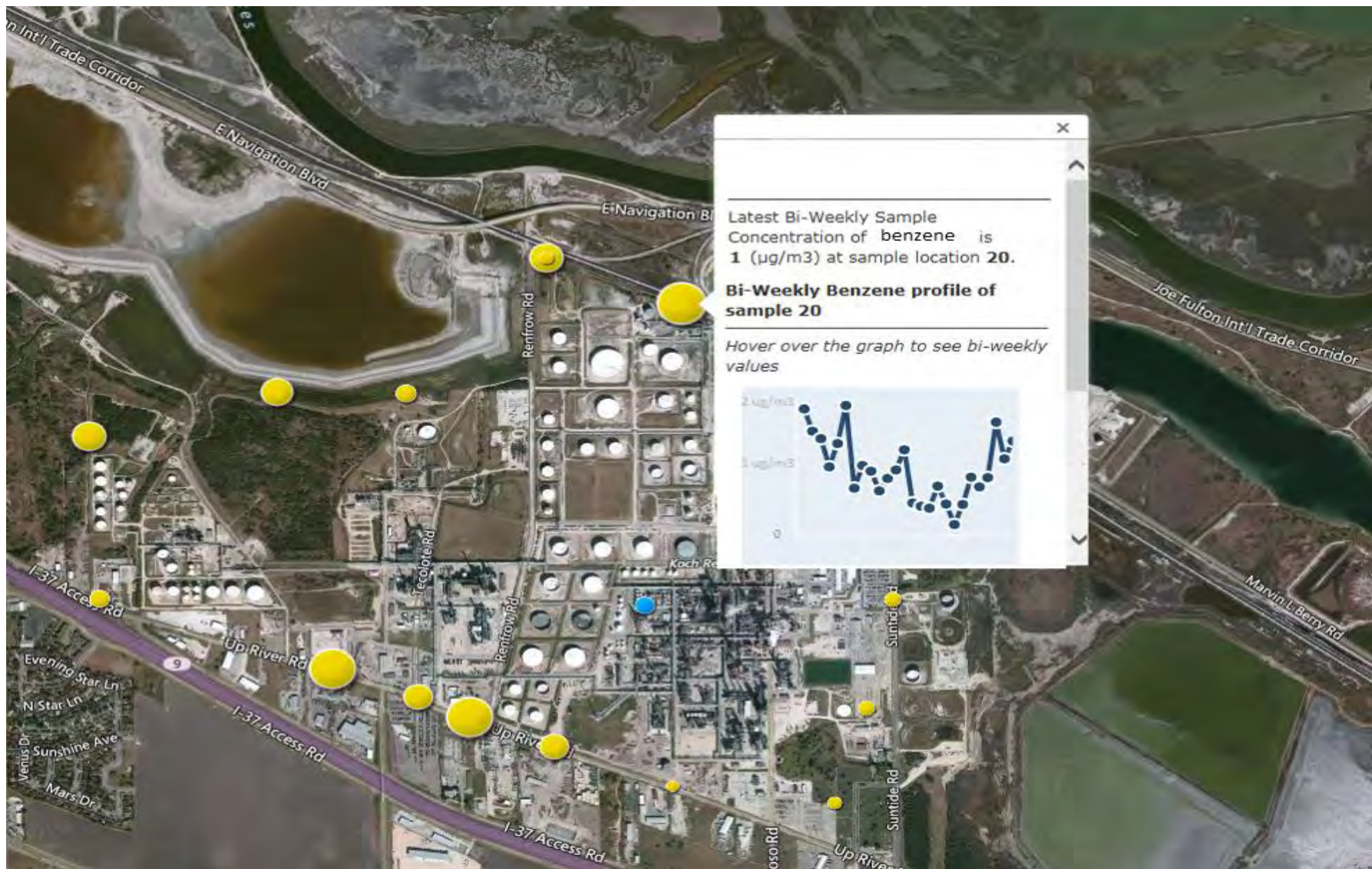


Facility: Fenceline Monitors



data are for demonstration purposes only

Facility: Individual Fenceline Monitor Pop-up



data are for demonstration purposes only

Facility: Facility Wide Pop-up



data are for demonstration purposes only

Stakeholder Input

▶ How to provide your input

- ▶ Email: fencelineteam@epa.gov
 - Please send input by July 31, 2016

▶ Questions for stakeholders to consider

- ▶ What information needs to be included on a web page to understand the data?
- ▶ What information and data on benzene do you want to see on the web page?
- ▶ What other information would be helpful for you?
- ▶ Is there other training or support that might be helpful?

Additional Information

For updates and additional information:
<https://www3.epa.gov/ttn/atw/petref.html>