

# RESEARCH AND DEVELOPMENT PROJECT SCOPE *STATE/LOCAL/TRIBAL (SLT), NATIONAL EMISSION INVENTORY (NEI), TOXIC RELEASE INVENTORY (TRI) MAPPING*

January 31, 2017

## OVERVIEW

### 1. Participants (\*indicates team lead)

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### 2. Project Funding - \$5K

Funding for this project will be used to:

- assistance on crafting survey for state/locals/tribes
- assist with data presentation materials

### 3. How project fits within the larger Combined Air Emissions Reporting (CAER) “future state”?

This project will develop a uniform procedure for the mapping of pollutant codes across programs for use in a common emission reporting system as part of CAER’s future state.

### 4. Project Description

Research consistency and possible workflows for sharing of emissions data between TRI, SLTs and NEI. This will include creating a crosswalk for pollutants between programs, figuring out how to handle each program’s terminology (e.g. facility, unit) and emission sources covered by reporting, identifying where guidance needs to be harmonized, among other things.

### 5. Project Steps

1. Conduct a survey in SLTs to find out the use of TRI data. If yes

- a. When TRI data are incorporated to SLT data, before submitting to NEI or after?
  - b. What TRI facilities are included, only those in the SLT point sources or all TRI?
  - c. What TRI pollutants are included, only HAPs or more?
  - d. Which methods used to incorporate TRI data, only use TRI data for missing pollutants, for certain processes...?
  - e. How to determine process SCCs for TRI data?
  - f. How to determine release characteristics for TRI emissions if TRI processes are not included in SLT point sources?
2. Identify Issues on harmonizing pollutant codes between NEI and TRI.
    - a. Create a cross walk for pollutants between NEI and TRI.
    - b. Identify any states that collect information on pollutants different from the federal programs.
  3. Address how to handle and share data between the programs for pollutants.
    - a. Identify what information needs to go to each program.
    - b. Develop a conversion protocol for emissions from TRI to NEI, pollutant by pollutant.
    - c. Develop a conversion protocol for emissions from NEI to TRI, pollutant by pollutant.
  4. Identify differences in terminology used to define reporting requirements in each program, e.g. the definition of a facility, unit, or another sub-facility element.
  5. Identify differences in coverage for the same facility, and propose a way to resolve the issue. The processes covered in NEI usually are permitted processes, while the processes covered in TRI could be all including those that are not permitted, such as insignificant activities. This is an issue that may need coordination with the facility team to address.
  6. Identify any differences in reporting guidance between TRI and NEI, and propose possible solutions for how to make them congruent.

## 6. Prior Work

Madeleine created two pollutant-related excel workbooks: 1) converting emissions specific compounds to allowable NEI pollutant codes 2) cross walk with NEI pollutant codes and TRI pollutant codes:

[R&D Project 03\\_SLT-NEI-TRI Sharing \(Phase 1\)](#)

EPA methodology incorporating TRI data to NEI, see Section 3.1.5 of the 2014NEIv1 [TSD](#).

Other existing references available:

1. [TRI Reporting Guidance](#)
2. [The Consolidated List of Chemicals Subject to EPCRA, CERCLA, and Section 112\(r\) of the CAA.](#)

## 7. Deliverables

1. A cross walk for chemicals between TRI and NEI, and vice versa, including assumptions made for chemicals that are not one-to-one, and identification of chemicals that cannot be related to one another, with an explanation
2. A document identifying:
  - a. differences in terminology between programs, particularly key terminologies that relate to reporting requirements/guidance, such as: emission sources (facility/unit/process), release characteristics (stack/fugitive) and potential solutions for unifying terminology
  - b. differences in reporting requirements including data flows, reporting thresholds, sectors covered, and coverage of sources within a facility

Summarize and document results of a survey asking states, tribes and local municipalities about if they incorporate TRI data into their Emissions Inventory data.

## 8. Expected Workload

This R & D team will meet once a week and have about 2-3 hours of work per week, per person with some fluctuation during the 6-month period.

## 9. Deliverables

Deliverable & Mile Stones	Expected Completion Date
Survey states, tribes and local municipalities to see if they incorporate TRI data into their Emissions Inventory data.	Early February, 2017
Pollutant x-walks	February 28, 2017
Follow up with the states, tribes and local municipalities who use TRI data for the Emissions Inventory data with more detailed questions about how the data are used.	March 1, 2017
Document - terminology	March 20, 2017
Deadline for survey results	April 1, 2017
Document – reporting requirements	April 20, 2017
Summarize results of the survey	June 1, 2017

## Phase II Deliverables

A protocol for taking TRI data to NEI besides the cross walk of chemicals. The protocol could be used by SLTs in taking TRI data to their corresponding EIs.