Attachment A

I-710 Corridor Project
Data Requirements for Construction Emissions Analysis

Below is a list of construction data needs. ENVIRON is basing the mass emission calculations on a template for Roadway Construction that is available from the Sacramento Air Quality Management District and is Caltrans’ preferred method. We understand that the I-710 improvements will occur in stages and over the course of many years. The way that we would be estimating construction emissions is to look at each known construction stage. Thus, the data requested would be for each known construction stage. The template identifies critical data needs and without that data we could not move forward, there are also non-critical data needs where if they were known and could supplied great, if not available that is fine because a default value would be used instead. Overall, the more detailed information we get the less we have to rely on the default values which tend to the conservative side. The critical and non-critical data needs are noted below:

Critical Data Needs

- Construction Schedule and Activities
  - Start and end years
  - Construction activities planned (choose one or more)
    - Land Clearing
    - Grading/Excavation
    - Drainage/Utilities/Sub-Grade
    - Paving
- Project Type – the planned construction phase could be best characterized by the one of the following
  - New road construction
  - Road widening
  - Bridge overpass construction
- Site Characteristics (only need to select one)
  - Sand gravel
  - Weathered rock/Earth
  - Blasted rock
- Construction Site Dimensions
  - Length
  - Area
  - Maximum area that would be disturbed
- Use of Water Trucks?
  - Yes or no
- Soil Hauling
  - Will soil be exported, if so how many cubic yards per day
  - Will soil be imported, if so how many cubic yards per day
- Construction Activity Duration
  - Per applicable construction activity (Land Clearing, Grading/Excavation, Drainage/Utilities/Sub-Grade, Paving) the duration in months
Non-Critical Data Needs

- Soil Hauling
  - Expected miles per round trip a haul truck is expected to make
  - Number of expected round trips per day
- Worker Commute
  - Expected miles a worker is expected to commute one way
  - Expected number of one way trips per day
  - Number of employees expected per construction activity (Land Clearing, Grading/Excavation, Drainage/Utilities/Sub-Grade, Paving)
- Water Trucks
  - Number of water trucks expected per construction activity (Land Clearing, Grading/Excavation, Drainage/Utilities/Sub-Grade)
  - Expected miles per day traveled (for all trucks)
- Fugitive dust
  - Per construction activity (Land Clearing, Grading/Excavation, Drainage/Utilities/Sub-Grade) the maximum acreage disturbed per day
- Equipment Usage
  - Per construction activity (Land Clearing, Grading/Excavation, Drainage/Utilities/Sub-Grade, Paving) expected equipment to be used and number
    - Equipment horsepower rating