

Folder/File	Description of Content
AQIA_TA-0003-CA.zip	Compressed folder containing facility-wide 1-hour NO2 and annual NO2 AERMOD modeling files, modeling was done in Lakes Environmental AERMOD View interface.
NO2Yr (subfolder contained in the zip folder)	<p>Annual NO2 modeling. Click on the ISC file to open the AERMOD file in Lakes Environmental AERMOD View.</p> <ul style="list-style-type: none"> AERMOD files: The ADI file is the AERMOD input file, ADO file is the AERMOD output file, NO2Yr.sum is the model run log, NO2Yr.err is the error message file. Plot files are in the NO2Yr.AD subfolder. BPIP files: NO2Yr.bpi is the BPIP input file, NO2Yr.pro is the BPIP output file. AERMAP files: The API file is the AERMAP input file, NO2Yr.ast is the AERMAP output file. MET data: The .PFL and .SFC files are AERMOD-ready 2012-2016 MET data downloaded from the SCAQMD's website for the nearest MET station. URL https://www.aqmd.gov/home/air-quality/air-quality-data-studies/meteorological-data/data-for-aermod. O3 data: 2012-2016.dat is the hourly ozone file. Raw data was downloaded from the EPA's Airdata website for the nearby San Bernardino monitoring station.
1Hour (subfolder contained in the zip folder)	<p>1-Hour NO2 modeling. Click on the ISC file to open the AERMOD file in Lakes Environmental AERMOD View.</p> <ul style="list-style-type: none"> AERMOD files: The ADI file is the AERMOD input file, ADO file is the AERMOD output file, 1Hour.sum is the model run log, 1Hour.err is the error message file. Plot files are in the 1Hour.AD subfolder. BPIP files: 1Hour.bpi is the BPIP input file, 1Hour.pro is the BPIP output file. MET data: Same as were used in the annual NO2 model, the same .PFL and .SFC files are AERMOD-ready 2012-2016 MET data downloaded from the SCAQMD's website for the nearest MET station. URL https://www.aqmd.gov/home/air-quality/air-quality-data-studies/meteorological-data/data-for-aermod. O3 data: 2012-2016.dat is the same hourly ozone file contained in the annual NO2 AERMOD folder mentioned above.
usgs_ned_13_n35w118_gridfloat.TIF	USGS NED 1/3 arcsec (USA-10m) NED GeoTIFF Digital Terrain file used in AERMAP. AERMAP was run in the annual NO2 model run (NO2Yr) to generate the elevation and hill height of all receptors, sources and buildings in this AQIA, no separate AERMAP run was needed for the 1-hour NO2 modeling.
NO2 modeling 030119.xlsx	<p>Spreadsheet file containing summary of the source parameters used in AERMOD for each NOx emission source, and the AQIA results summary</p> <ul style="list-style-type: none"> Source Parameters worksheet: This worksheet contains the source parameters obtained from manufacturers and equipment specification sheet; in addition, this worksheet also shows the emission rates used in AERMOD modeling. Note all sources were modeled as continuous sources in AERMOD, i.e., as if operation schedule is 8760 hours/yr. For real continuous sources such as the boilers and water heaters, the peak hour emission rate equals the emission rate at 100% load, for backup generators and other intermittent sources, based on EPA guidance for hourly NO2 compliance demonstration, the hourly emission rate was based on the annual permit limit averaged over 8760 hours (see the AQIA memo for detail). The annual emission rate was based on the permit limit and/or PTE. Model Summary-Final worksheet: This worksheet summarizes the AERMOD model result, processing of the background monitoring data, and then adding the modeled data with the monitoring data for comparison to the NO2 air quality standard.