

Journal Articles

- Yates E.L., Iraci L.T., Kulawik S.S., Ryoo J.M., Marrero J.E., Parworth C.L., St. Clair J.M., Hanisco T.F., Bui T.P.V., Chang C.S., and Dean-Day J.M. (2023) An extensive database of airborne trace gas and meteorological observations from the Alpha Jet Atmospheric eXperiment (AJAX). *Earth Syst. Sci. Data*, 15(6), 2375-2389, doi: 10.5194/essd-15-2375-2023. Available at <https://essd.copernicus.org/articles/15/2375/2023/>.
- Schill S., McEwan R.S., Moffet R., Marrero J., MacDonald C., and Winegar E. (2022) Real-world application of open-path UV-DOAS, TDL, and FT-IR spectroscopy for air quality monitoring at industrial facilities. *Spectroscopy*, 37(S11), 18–22, (STI-7736), November 1. Available at <https://www.spectroscopyonline.com/view/real-world-application-of-open-path-uv-doas-tdl-and-ft-ir-spectroscopy-for-air-quality-monitoring-at-industrial-facilities>.
- Iraci L.T., Parworth C.L., Yates E.L., Marrero J.E., and Ryoo J.-M. (2022) A collection of airborne measurements and analyses of trace gases emitted from multiple fires in California. *Earth and Space Science*, 9(4), doi: <https://doi.org/10.1029/2021EA002116>.
- Faloona I.C., Chiao S., Eiserloh A.J., Alvarez R.J., Kirgis G., Langford A.O., Marrero J.E., and others (2020) The California Baseline Ozone Transport Study (CABOTS). *Bulletin of the American Meteorological Society*, 101(4), E427-E445, April 1. Available at <https://doi.org/10.1175/BAMS-D-18-0302.1>.
- Ryoo J.-M., Chiao S., Spackman J.R., Iraci L.T., Ralph F.M., Martin A.M., Josette E., and others (2020) Terrain trapped airflows and precipitation variability during an atmospheric river event. *Journal of Hydrometeorology*, 21(2), 355-375, February 1. Available at <https://doi.org/10.1175/JHM-D-19-0040.1>.
- Ryoo J.M., Iraci L.T., Tanaka T., Marrero J.E., Yates E.L., Fung I., Michalak A.M., and others. (2019) Quantification of CO₂ and CH₄ emissions over Sacramento, California, based on divergence theorem using aircraft measurements. *Atmos. Meas. Tech.*, 12(5), 2949-2966, doi: 10.5194/amt-12-2949-2019. Available at <https://amt.copernicus.org/articles/12/2949/2019/>.
- Langford A.O., Alvarez Ii R.J., Kirgis G., Senff C.J., Caputi D., Conley S.A., Marrero J.E., and others (2019) Intercomparison of lidar, aircraft, and surface ozone measurements in the San Joaquin Valley during the California Baseline Ozone Transport Study (CABOTS). *Atmos. Meas. Tech.*, 12(3), 1889-1904, doi: 10.5194/amt-12-1889-2019. Available at <https://amt.copernicus.org/articles/12/1889/2019/>.
- Leifer I., Melton C., Fischer M.L., Fladeland M., Frash J., Gore W., Marrero J.E., and others (2018) Atmospheric characterization through fused mobile airborne and surface in situ surveys: methane emissions quantification from a producing oil field. *Atmos. Meas. Tech.*, 11(3), 1689-1705, doi: 10.5194/amt-11-1689-2018. Available at <https://amt.copernicus.org/articles/11/1689/2018/>.
- St. Clair, J.M., Swanson, A.K., Bailer, S.A., Wolfe, G.M., Marrero, J.E., Iraci, L.T., Hagopian, J.G., and Hanisco, T.F. (2017) A new non-resonant laser-induced fluorescence instrument for the airborne in situ measurement of formaldehyde, *Atmos. Meas. Tech.*, 10, 4833-4844. <https://doi.org/10.5194/amt-10-4833-2017>.
- Yates E.L., Johnson M.S., Iraci L.T., Ryoo J.-M., Pierce R.B., Cullis P.D., Marrero J.E., and others (2017) An assessment of ground level and free tropospheric ozone over California and Nevada. *Journal of*

Geophysical Research: Atmospheres, 122(18), 10,089-010,102. Available at <https://doi.org/10.1002/2016JD026266>.

Marrero J.E., Townsend-Small A., Lyon D.R., Tsai T.R., Meinardi S., and Blake D.R. (2016) Estimating emissions of toxic hydrocarbons from natural gas production sites in the Barnett Shale Region of Northern Texas. *Environ. Sci. Technol.*, 50(19), 10756-10764, October. Available at <https://doi.org/10.1021/acs.est.6b02827>.

Townsend-Small A., Marrero J.E., Lyon D.R., Simpson I.J., Meinardi S., and Blake D.R. (2015) Integrating source apportionment tracers into a bottom-up inventory of methane emissions in the Barnett Shale hydraulic fracturing region. *Environ. Sci. Technol.*, 49(13), 8175-8182, July. Available at <https://doi.org/10.1021/acs.est.5b00057>.

Simpson I.J., Marrero J.E., Batterman S., Meinardi S., Barletta B., and Blake D.R. (2013) Air quality in the Industrial Heartland of Alberta, Canada and potential impacts on human health. *Atmos Environ* (1994), 81, 702-709, doi: 10.1016/j.atmosenv.2013.09.017, December. Available at <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4326008/>.

Donnelly S., Marrero J.E., Cornell T., Fowler K., and Allison J. (2010) Analysis of pigmented inkjet printer inks and printed documents by laser desorption/mass spectrometry. *J Forensic Sci*, 55(1), 129-135, doi: 10.1111/j.1556-4029.2009.01244.x, January. Available at <https://pubmed.ncbi.nlm.nih.gov/20015163/>.

Meeting and Conference Presentations

Schill S., Marrero J., Moffet R., McEwan S., and MacDonald C. (2022) Complementary and emerging techniques for fenceline monitoring. Presentation given at the *Air Sensors International Conference, Pasadena, CA, May 13, 2022*, by Sonoma Technology, Petaluma, CA. STI-7623.

Marrero J.E., Hafner H., and MacDonald C.P. (2022) Community-focused monitoring in California: building bridges between community members and industrial facilities. Presentation given at the *Air Sensors International Conference, May 12, 2022, Pasadena, CA 2022*, By Sonoma Technology, Petaluma, CA. STI-7628.

Moffet R.C., Marrero J.E., McEwan R.S., MacDonald C., and Roberts P.T. (2022) Minimum detection limit calculations for open-path measurements. Presentation given at the *ASTM Workshop on Ambient Air Fenceline Monitoring, Seattle, WA, April 28*, by Sonoma Technology, Petaluma, CA. STI-7716.

Marrero J.E., Schill S.R., and MacDonald C.P. (2022) Lessons learned from two years of refinery fenceline monitoring in California. Presentation given at the *Air & Waste Management Association Measurements Conference, San Diego, CA, March 9*, by Sonoma Technology, Petaluma, CA. STI-7694.

Marrero J.E., Schill S.R., and Roberts P.T. (2022) Tesoro Refining & Marketing Company, LLC (a subsidiary of Marathon Petroleum Corporation) Rule 1180 Fenceline Monitoring Q4 Report: October 2021–December 2021 Final report prepared for Tesoro Refining & Marketing Company, LLC, a subsidiary of Marathon Petroleum Corporation, Los Angeles Refinery, Carson, CA by Sonoma Technology, Petaluma, CA, STI-921012-7, February 28.

Marrero J.E., Schill S.R., Winegar E., and MacDonald C.P. (2021) Facility engagement in community monitoring: building bridges and protecting your future. Presentation given at the *4C*

Health/Safety/Environmental Conference, Austin, TX, August 19, by Sonoma Technology, Petaluma, CA. STI-7560.

MacDonald C.P., Moffet R., Roberts P., Marrero J., and Gibbons R. (2020) Assessment of technology used for refinery air quality Fenceline Monitoring. Presentation given at the *A&WMA's 113th Annual Conference & Exhibition, League City, TX, June 29 - July 2*, by Sonoma Technology, Petaluma, CA. STI-7216.

Marrero J.E., Roberts P.T., Moffet R.C., and MacDonald C.P. (2020) What have we learned from the first year of refinery fenceline monitoring in California? Presentation given at the *A&WMA 113th Annual Conference & Exhibition, League City, TX, June 29 - July 2*, by Sonoma Technology, Petaluma, CA. STI-7215.

Craig K., Moffet R., Marrero J., and Roberts P. (2020) Piloting next-generation sensor technology at upstream oil and gas facilities. Presentation given at the *A&WMA 113th Annual Conference and Exhibition (ACE 2020), June 30*, by Sonoma Technology, Petaluma, CA. STI-7212.

Moffet R., Bonanno D., Fraund M., Wong B., Charnawskas J., Wang P., Marrero J., and others (2019) Individual particle characterization of the carbon content of aerosols collected in the eastern north Atlantic. Poster presented at the *2019 Atmospheric Systems Research Annual Meeting, Rockville, Maryland, June 10-13*, by Sonoma Technology Inc., Petaluma, CA; University of the Pacific, Stockton, CA; State University of New York, Stony Brook, NY; Purdue University, West Lafayette, IN; Pacific Northwest National Laboratory, Environmental and Molecular Sciences Laboratory, Richland, WA; Lawrence Berkeley National Laboratory, Berkeley, CA STI-7124.

Moffet R., Bonanno D., Fraund M., Wong B., Tomlin J., Su P., Marrero J., Knopf D., and Laskin A. (2019) Individual particle characterization of the carbon content of aerosols collected in the Eastern North Atlantic. Presented at the *ACE-ENA Workshop (Aerosol and Cloud Experiments in the Eastern North Atlantic), Brookhaven National Laboratory, Upton, NY, January 29*, by Sonoma Technology, Inc., University of the Pacific, State University of New York, and Purdue University. STI-918064-7056.

Craig K., Moffet R., Marrero J., and Roberts P. (2019) Piloting next-generation sensor technology at upstream oil and gas facilities. Webinar presented to the Petroleum Technology Alliance of Canada (PTAC), February 28, by Sonoma Technology, Petaluma, CA. STI-917057-7081.

Marrero, J.E.; Baker, K.R.; Nguyen, T.K.; Parworth, C.L.; Yates, E.L.; St. Clair, J.; Ryoo, J-M; Koplitz, S.; Hanisco, T.F.; Langford, A.O.; Gore, W.; Iraci, L.T. "Airborne Measurements and Air Quality Impacts of the 2016 California Soberanes Wildfire." Presented at the *American Geophysical Union Fall Meeting, December 2018*.

Marrero J.E. and Roberts P.T. (2018) Summary of air quality measurements near the San Rafael Rock Quarry. Presented at the San Rafael Rock Quarry Annual Community Meeting, San Rafael, CA, October 13, by Sonoma Technology, Inc., Petaluma, CA. STI-918019-7002.

Marrero, J.E.; Asher, E.C.; Yates, E.L.; St. Clair, J.; Ryoo, J-M; McNamara, M.; Hanisco, T.F.; Gore, W.; Faloona, I.C.; Iraci, L.T. "Airborne Measurements and Air Quality Impacts of the 2016 California Soberanes Wildfire." Presented at the *American Geophysical Union Fall Meeting, December 2017*.

- Marrero, J.E.; St. Clair, J.; Yates, E.L.; Ryoo, J-M; Gore, W.; Swanson, A.K.; Iraci, L.T.; Hanisco, T.F. "Airborne In-Situ Measurements of Formaldehyde over California: One Year of Results from the Compact Formaldehyde Fluorescence Experiment (COFFEE) Instrument." Poster at the *American Geophysical Union Fall Meeting, December 2016*.
- Marrero, J.E.; St. Clair, J.; Yates, E.L.; Gore, W.; Swanson, A.K.; Iraci, L.T.; Hanisco, T.F. "Airborne In-Situ Measurements of Formaldehyde over California: First Results from the COFFEE Instrument." Poster at the *European Geophysical Union General Assembly 2016, April 2016*.
- Marrero, J.E.; St. Clair, J.; Yates, E.L.; Gore, W.; Swanson, A.K.; Iraci, L.T.; Hanisco, T.F. "First Results from the COFFEE Instrument: Airborne In-Situ Measurements of Formaldehyde over California." Poster at the *96th American Meteorological Society Annual Meeting, January 2016*.
- Marrero, J.E.; Townsend-Small, A.; Lyon, D.R.; Tsai, T.R.; Meinardi, S.; Blake, D.R. "Estimating Emissions of Toxic Hydrocarbons from Natural Gas Production Sites in the Barnett Shale Region." Poster at the *American Geophysical Union Fall Meeting, December 2015*.
- Marrero, J.E.; Townsend-Small, A.; Meinardi, S.; Blake, D.R. "Hydrocarbon Emissions and Characterization of Methane Sources in the Barnett Shale." Poster at the *American Geophysical Union Fall Meeting, December 2014*.
- Lebel, E.; Marrero, J.E.; Bertram, T.; Blake, D.R. "Dimethyl Sulfide Emissions from Dairies and Agriculture as a Potential Contributor to Sulfate Aerosols in the California Central Valley." Poster at the *American Geophysical Union Fall Meeting, December 2014*.
- Guo, J.; Marrero, J.E.; Blake, D.R. "Chemical and Trajectory Analysis of an Air Mass Plume from Asia." Poster at the *American Geophysical Union Fall Meeting, December 2014*.
- Simpson, I.J.; Marrero, J.E.; Blake, N.J.; Barletta, B.; Hartt, G.; Meinardi, S.; Schroder, J.; Apel, E.C.; Hornbrook, R.S.; Blake, D.R. "VOC signatures from North American oil and gas sources." *American Geophysical Union Fall Meeting, December 2013*.
- Kirpes, R.; Blake, D.R.; Marrero, J.E. "Investigating high concentrations of three greenhouse gases in the Los Angeles Basin and San Bernardino Valley." Poster at the *American Geophysical Union Fall Meeting, December 2013*.
- Simpson, I.J.; Marrero, J.E.; Meinardi, S.; Barletta, B.; Krough, E.; Blake, D.R. "Volatile Organic Compound observations near oil sands mining, upgrading and refining facilities in Alberta, Canada." *American Geophysical Union Fall Meeting, December 2012*.
- Marrero, J.E.; Simpson, I.J.; Meinardi, S.; Blake, D.R. "Characterization of Volatile Organic Compounds (VOCs) at Sites of Oil Sands Extraction and Upgrading in Northern Alberta." Poster at the *American Geophysical Union Fall Meeting, December 2011*.
- Marrero, J.E.; O'Neill, E.; Cornell, T.; Allison, J.A. "Laser Desorption Mass Spectrometry of Inorganic Compounds of Forensic Interest." Poster at the *American Society of Mass Spectrometry 57th Annual Conference, June 2009*.

Invited Presentations

April 2019 – University of California, Merced. "Airborne Measurements and Air Quality Impacts of California Wildfires."

April 2018 – Stanford University. "Airborne Measurements and Air Quality Impacts of California Wildfires."

March 2018 – University of California, Riverside. "Airborne Measurements and Air Quality Impacts of California Wildfires."

November 2017 - University of Cincinnati. "Airborne Measurements and Air Quality Impacts of California Wildfires."

October 2017 - Merritt College. "Jet-Propelled Science! Using an Airplane to Sample the Atmosphere."

June 2017 - NASA Student Airborne Research Program. "Alpha Jet Atmospheric Experiment."

November 2015 - Merritt College. "Introduction to Atmospheric Chemistry."

March 2015 – NASA Ames Research Center. "Characterization of Volatile Organic Compounds from Oil and Natural Gas Emissions in North America."

May 2014 - UC Irvine, Honors H90. "Introduction to Atmospheric Chemistry."

Formal Reports

Marrero J.E., Schill S.R., and Tai A.Y.-C. (2023) Tesoro Refining & Marketing Company, LLC (A Subsidiary of Marathon Petroleum Corporation) Rule 1180 Fenceline Monitoring Q2 Report: April 2023–June 2023. Quarterly report prepared for Tesoro Refining & Marketing Company, LLC, Los Angeles Refinery, Carson, CA, by Sonoma Technology, Petaluma, CA, STI-7961, August 22.

Marrero J.E., Schill S.R., and King D. (2023) Tesoro Refining & Marketing Company, LLC, Martinez Renewable Fuels Facility Rule 12-15 Fenceline Monitoring Q2 Report: April – June 2023. Quarterly report prepared for Tesoro Refining & Marketing Company, LLC, Martinez Renewable Fuels Facility, Martinez, CA by Sonoma Technology, Petaluma, CA, STI-7965, August 18.

Marrero J.E., Schill S.R., Tai A.Y.-C., and Chaveste M. (2023) Kern Energy Rule 4460 Fenceline Monitoring Q2 Report: April-June 2023. Quarterly report prepared for Kern Energy, Bakersfield, CA by Sonoma Technology, Petaluma, CA, STI-7958, August 11.

Marrero J., Schill S.R., and Scarborough C. (2023) Tesoro Refining & Marketing Company, LLC (a subsidiary of Marathon Petroleum Corporation) rule 1180 fenceline monitoring Q1 report: January 2023–March 2023. Quarterly report prepared for Tesoro Refining and Marketing Company, LLC, Carson, CA, by Sonoma Technology, Petaluma, CA, STI-7918, May.

Marrero J.E., Schill S.R., and King D. (2023) Tesoro Refining & Marketing Company, LLC Marathon Renewable Fuels Facility rule 12-15 fenceline monitoring Q1 report: January – March 2023. Quarterly report prepared for Tesoro Refining & Marketing Company, LLC, a subsidiary of Marathon Petroleum Corporation, Marathon, CA by Sonoma Technology, Petaluma, CA, STI-923012-7920, May.

- Marrero J.E., Schill S.R., Tai A.Y.C. and Chaveste M. (2023) Kern Energy Rule 4460 Fenceline Monitoring Q1 Report: January – March 2023. Prepared for Kern Oil & Refining Co., Bakersfield, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-923013-7903, May.
- Marrero J.E., Wang N., and Anderson A. (2023) Data summary of 12 months of air quality measurements along the New River in Calexico, CA. Technical memorandum prepared for the Imperial County Air Pollution Control District, El Centro, CA, by Sonoma Technology, Petaluma, CA, STI-921031-7892, March.
- Marrero J.E., Schill S.R., and King D. (2023) Tesoro Refining & Marketing Company, LLC Marathon Renewable Fuels Facility rule 12-15 fenceline monitoring Q4 report: October – December 2022. Quarterly report prepared for Tesoro Refining & Marketing Company, LLC, a subsidiary of Marathon Petroleum Corporation, Marathon, CA by Sonoma Technology, Petaluma, CA, STI-923012-7877, February 28.
- Marrero J.E., Schill S.R., and Chaveste M. (2023) Kern Oil & Refining Co. Rule 4460 Fenceline Monitoring Q4 Report: October – December 2022. Prepared for Kern Oil & Refining Co., Bakersfield, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-923013-7853, February 10.
- Marrero J., Hafner H., and Chaveste M. (2022) Torrance Air final report. Prepared for the South Coast Air Quality Management District Advanced Monitoring Technologies Division by Sonoma Technology, Inc., Petaluma, CA, STI-918029-7824, December.
- Marrero J., Schill S.R., and Scarborough C. (2022) Tesoro Refining & Marketing Company, LLC (a subsidiary of Marathon Petroleum Corporation) rule 1180 fenceline monitoring Q2 report: April 2022–June 2022. Quarterly report prepared for Tesoro Refining and Marketing Company, LLC, Carson, CA, by Sonoma Technology, Petaluma, CA, August 29.
- Marrero J.E., Pavlovic N., and Vijayan A. (2022) Site-wide monitoring technologies for methane emissions. White paper prepared for the Electric Power Research Institute (EPRI), Palo Alto, CA, by Sonoma Technology, Petaluma, CA, STI-7825, December 5.
- Marrero J.E., Schill S.R., and Gostic C. (2022) Tesoro Refining & Marketing Co., LLC Marathon renewable fuels facility rule 12-15 fenceline monitoring Q3 report: July – September 2022. Quarterly report prepared for Tesoro Refining & Marketing Company, LLC, Martinez, CA by Sonoma Technology, Petaluma, CA, STI-921012-7821, November 30.
- Marrero J.E., Schill S.R., Scarborough C., and Coughlin J. (2022) Tesoro Refining & Marketing Company, LLC (a subsidiary of Marathon Petroleum Corporation) rule 1180 fenceline monitoring Q3 report: July 2022–September 2022. Quarterly report prepared for Tesoro Refining & Marketing Company LLC, Martinez, CA by Sonoma Technology, Petaluma, CA, STI-922018-7817, November 21.
- Marrero J.E., Schill S.R., and Chaveste M. (2022) Kern Energy Rule 4460 Fenceline Monitoring Q3 Report: July - September 2022. Quarterly report prepared for Kern Energy, Bakersfield, CA by Sonoma Technology, Petaluma, CA, STI-921070-7808, October.
- Marrero J.E., Wang N., and Anderson A. (2022) Data summary of six months of air quality measurements along the New River in Calexico, CA. Technical memorandum prepared for the Imperial County Air

Pollution Control District, El Centro, CA, by Sonoma Technology, Petaluma, CA, STI-921031-7711, September.

Marrero J.E., Schill S.R., and Kramer S. (2022) Kern Oil & Refining Co. Rule 4460 Fenceline Monitoring Q2 Report: April – June 2022. Prepared for Kern Oil & Refining Co., Bakersfield, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-921070-7757, June 29.

Moffet R.C., Marrero J.E., Schill S.R., and MacDonald C.P. (2022) Fenceline air monitoring plan and quality assurance project plan for BAAQMD Rule 12-15, 2022 update. Prepared for Chevron Refinery, Richmond, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-922008-7170, June 1.

Moffet R.C., Marrero J.E., Schill S.R., and MacDonald C.P. (2022) Martinez Refinery air monitoring plan and quality assurance project plan, 2022 update. Prepared for Tesoro Refining & Marketing Co., Martinez, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-921012-7028, June 1

Moffet R.C., Marrero J.E., Schill S.R., and MacDonald C.P. (2022) Air monitoring plan and quality assurance project plan for the Valero Refinery in Benicia, California, 2022 update. Prepared for Valero Benicia Refinery, Benicia, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-922002-6990, June 1.

Marrero J.E., Schill S.R., and Gostic C. (2022) Tesoro Refining & Marketing Company, LLC (A subsidiary of Marathon Petroleum Corporation) Rule 12-15 Fenceline Monitoring Q1 Report: January-March 2022. Quarterly report Prepared for Tesoro Refining & Marketing Company LLC, Martinez, CA, by Sonoma Technology, Petaluma, CA, STI-921021-7729, May 30.

Marrero J.E., Schill S.R., and Scarborough C. (2022) Tesoro Refining & Marketing Company, LLC (A Subsidiary of Marathon Petroleum Corporation) Rule 1180 Fenceline Monitoring Q1 Report: January 2022–March 2022. Quarterly report Prepared for Tesoro Refining & Marketing Company LLC, Carson, CA, by Sonoma Technology, Petaluma, CA, STI-921021-7728, May 24.

Marrero J.E. and Schill S.R. (2022) Kern Oil & Refining Co. rule 4460 fenceline monitoring Q1 report: January-March 2022 Quarterly report prepared for Kern Oil & Refining Co., Bakersfield, CA, by Sonoma Technology, Petaluma, CA, STI-921070-7718, April 28.

Marrero J.E. and Hafner H.R. (2022) Torrance Air Mid-Term Report. Final report prepared for South Coast Air Quality Management District, Diamond Bar, CA by Sonoma Technology, Petaluma, CA, STI-918029-7702, March 30.

Marrero J.E. (2022) SEP Torrance Quality Assurance and Project Management Plan. Final report prepared for South Coast Air Quality Management District, Diamond Bar, CA by Sonoma Technology, Petaluma, CA, STI-918029-7245-QAPP, March 16.

Marrero J.E. and Schill S.R. (2022) Tesoro Refining & Marketing Co., LLC (A subsidiary of Marathon Petroleum Corporation) Rule 12-15 Fenceline Monitoring Q4 Report: October-December 2021. Final report prepared for Tesoro Refining & Marketing Company LLC, a subsidiary of Marathon Petroleum Corporation Martinez Refinery, Martinez, CA by Sonoma Technology, Petaluma, CA, STI-921012-7680, February 28.

Marrero J.E. and Schill S.R. (2021) Rule 12-15 Fenceline Monitoring quarterly reports. Prepared for Tesoro Refining & Marketing Company, LLC (a subsidiary of Marathon Petroleum Corporation), Martinez

Refinery by Sonoma Technology, Inc., Petaluma, CA, STI-919037-7536, 7593, and 7633, January-March, April-June, and July-September.

Marrero J.E. and Schill S.R. (2021) Standard operating procedure for high-volume polyurethane foam substrate sampling. Standard Operating Procedure prepared for Imperial County Air Pollution Control District, El Centro, CA by Sonoma Technology, Inc., Petaluma, CA, STI-921031-7543, June.

Marrero J.E., Schill S.R., and Roberts P.T. (2021) Rule 1180 Fenceline Monitoring quarterly reports. Prepared for Tesoro Los Angeles Refining & Marketing Company, LLC (a subsidiary of Marathon Petroleum Corporation), Los Angeles Refinery by Sonoma Technology, Inc., Petaluma, CA, STI-919035-7537 and 7594, January-March and April-June.

Marrero J.E. and Schill S.R. (2020) Rule 12-15 Fenceline Monitoring quarterly reports. Prepared for Tesoro Refining & Marketing Company, LLC (a subsidiary of Marathon Petroleum Corporation), Martinez Refinery by Sonoma Technology, Inc., Petaluma, CA, STI-919037-7448, 7450, 7476, and 7512, January-March, April-June, July-September, and October-December.

Marrero J.E., Schill S.R., and Roberts P.T. (2020) Rule 1180 Fenceline Monitoring quarterly reports. Prepared for Tesoro Los Angeles Refining & Marketing Company, LLC (a subsidiary of Marathon Petroleum Corporation), Los Angeles Refinery by Sonoma Technology, Inc., Petaluma, CA, STI-919035-7436, 7467, and 7509, April-June, July-September, October-December.

Moffet R., Marrero J., Schill S., and Roberts P. (2020) Fenceline Monitoring plan and Quality Assurance Project Plan for BAAQMD Rule 12-15. Prepared for Chevron Refinery, Richmond, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-919042-7170, October 29.

Roberts P. and Marrero J. (2020) Quality assurance project plan: fenceline monitoring for the Tesoro Refinery in Carson and Wilmington, California. Prepared for South Coast Air Quality Management District, Diamond Bar, CA by Sonoma Technology, Petaluma, CA, STI-919035-7037-QAPP, version 2, October 13.

Marrero J.E., Kramer S.J., and Roberts P.T. (2020) Summary of air quality measurements during two years of monitoring near the San Rafael Rock Quarry. Technical memorandum prepared for the Marin County Department of Public Works, San Rafael, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-918019-7444, September 25.

Marrero J.E. (2020) Data report for the Marathon Martinez Refinery for August 01, 2019 – March 31, 2020. Technical memorandum prepared for the Marathon Martinez Refinery by Sonoma Technology, Inc., Petaluma, CA, STI-919037-7403, July 10.

Marrero J.E. and Roberts P.T. (2020) Summary of air quality measurements at the San Rafael Rock Quarry during the second year of reclamation monitoring. Technical memorandum prepared for the Marin County Department of Public Works, San Rafael, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-918019-7261, February 28.

Marrero J.E., Moffet R.C., MacDonald C.P., Hafner H.R., and Roberts P.T. (2020) Martinez Refinery Quality Assurance Project Plan. Prepared for Tesoro Refining & Marketing Co., Martinez, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-918010-7028, January.

- Marrero J.E., Ryder O.S., and Roberts P.T. (2019) Summary of air quality measurements at the San Rafael Rock Quarry during the first year of air quality monitoring. Technical memorandum prepared for the Marin County Department of Public Works by Sonoma Technology, Inc., Petaluma, CA, STI-918019-7150, July 31.
- Marrero J. and Roberts P. (2019) Standard operating procedure for filter-based measurements of PM₁₀ crystalline silica and metals near the San Rafael Rock Quarry using the Thermo Scientific Partisol™ 2025i sequential air sampler. Prepared for the County of Marin, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-918019-6334, January 31.
- Marrero J.E. and Roberts P.T. (2018) Summary of air quality measurements at the San Rafael Rock Quarry during the reclamation monitoring period. Technical memorandum prepared for the Marin County Department of Public Works by Sonoma Technology, Inc., Petaluma, CA, STI-918019-7045-TM, December 21.
- Moffet R.C., MacDonald C.P., Hafner H.R., Marrero J.E., and Roberts P.T. (2018) Quality Assurance Project Plan. Prepared for refinery fence line monitoring by Sonoma Technology, Inc., Petaluma, CA, STI-918010-7028, December 7.
- Marrero J.E. and Roberts P.T. (2018) Summary of air quality measurements at the San Rafael Rock Quarry during the background monitoring period. Interim report prepared for the Marin County Department of Public Works, San Rafael, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-918019-6975-TM, September 11.
- Marrero J.E. and Eisinger D.S. (2018) The Fresno TREES project: Tree planting along Roads to help Eliminate pollution Exposure and Sequester carbon. Initial study plan and corridor assessment prepared for the California Air Resources Board, Sacramento, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-917401-6974, August 31.