Air Quality

(a) *AEP Appendix G Checklist Question:* Conflict with or obstruct implementation of the applicable air quality plan?

Website Drop-down Title: **Consistency analysis with the SLO County APCD's Clean Air Plan (CAP) for program level environmental review**

1. According to the APCD's Land Use and CEQA website, will this project need to be compared to the APCD's Clean Air Plan?
    a. Yes, because it is a General Plan Update or Amendment, Specific Plan, Area Plan, large residential development or large commercial or industrial development.
    b. No, because it is a relatively small project.

(b) AEP Appendix G Checklist Question: Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?

Website Drop-down Title: **Calculating construction emissions for project level review**

SLO County has a non-attainment status for Ozone (O_3) and Respirable Particulate Matter (PM_{10}) according to California ambient air quality standards and a non-attainment status for Ozone (O_3) in Eastern SLO County according to Federal ambient air quality standards.

CalEEMod is needed to answer questions 2-5 regarding ROG + NOx (precursors to ozone) and fugitive particulate matter (PM_{10}) construction emissions. Daily emission values can be found in the summer and winter reports, however, the APCD relies on winter emission values as this assumes worst case scenario. Quarter emission values can be found or calculated from the annual report.

2. The ROG + NOx daily emission value for this project is _____ lbs/day.

   Tip: The ROG value _____ + NOx value _____ = ROG + NOx total daily emissions _____ lbs/day.

3. The highest quarter amount of ROG + NOx emissions for this project are _____ tons/quarter.

   Tip: CalEEMod tallies the maximum ROG + NOx quarterly values at the end of Section 2.1 in the Annual Report.

4. (Part 1) The average quarter amount of Fugitive Particulate Matter (PM_{10}) emissions for this project is _____tons/quarter.

   Tip: Annual fugitive PM_{10} value _____ / 4 quarters in a year = average PM_{10} per quarter _____ tons/quarter.

   (Part 2) How big is the grading area for this project? _____.

Website Drop-down Title: **Comparing construction emissions to thresholds and applying mitigation**

5. Use your answers from questions 2 – 4 to fill in the tables below to determine if this project exceeds APCD Construction Thresholds:

	Pollutant	Daily Emissions	Daily Threshold	Over Threshold?
Answer from Question 2	ROG + NOx (combined)		137 lbs	

	Pollutant	Max or Average Quarter Emissions	Quarterly Tier 1 Threshold	Over Threshold?	Quarterly Tier 2 Threshold	Over Threshold?
Answer from Question 3	ROG + NOx (combined)		2.5 tons		6.3 tons	
Answer from Question 4	Fugitive Particulate Matter (PM_{10})		2.5 tons			

6. Any project with a grading area greater than 4.0 acres of worked area can exceed the 2.5 ton PM_{10} quarterly threshold, therefore this project _____.
    a. Exceeds the PM_{10} quarterly threshold.
    b. Does not exceed the PM_{10} quarterly threshold.
7. Use the Construction Mitigation Measure Quick Guide and questions 2 through 6 to determine what mitigation measures are needed. List them below.
    a. _____
    b. _____
    c. _____
    d. _____

Website Drop-down Title: **Calculating operational emissions for project level review**

CalEEMod is needed to answer questions 8-12 regarding ROG + NOx (precursors to ozone) and PM_{10} operational emissions. Daily emission values can be found in the summer and winter reports, however, the APCD relies on winter emission values as this assumes worst case scenario. Annual emission values can be found in the annual report.

8. The ROG + NOx daily emission value for this project is _____ lbs/day.

   Tip: The ROG value _____ + NOx value _____ = ROG + NOx total daily emissions _____ lbs/day.

9. The fugitive particulate matter (PM_{10}) daily emissions for this project are _____ lbs/day.

10. The ROG + NOx annual emission value for this project is _____ tons/yr.

    Tip: The ROG value _____ + NOx value _____ = ROG + NOx total daily emissions _____ tons/yr.

11. The fugitive particulate matter (PM_{10}) annual emissions for this project are _____ tons/yr.

Website Drop-down Title: **Comparing operational emissions to thresholds and applying mitigation**

12. Use your answers from questions 8 through 11 to fill in the tables below to determine if this project exceeds APCD Operational Thresholds:

	Pollutant	Daily Emissions	Daily Threshold	Over Threshold?
Answer from question 8	ROG + NOx (combined)		25 lbs	
Answer from question 9	Fugitive Particulate Matter (PM_{10})		25 lbs	

	Pollutant	Annual Emissions	Annual Threshold	Over Threshold?
Answer from question 10	ROG + NOx (combined)		25 tons	
Answer from question 11	Fugitive Particulate Matter (PM_{10})		25 tons	

13. Use the Operational Mitigation Measure Quick Guide and questions 8 through 12 to determine what mitigation measures are needed. List them below.

    a. _____

    b. _____

    c. _____

    d. _____

(c) AEP Appendix G Checklist Question: Expose sensitive receptors to substantial pollutant concentrations?

Website Drop-down Title: **Calculating construction emissions for project level review**

CalEEMod is needed to answer questions 14-16 regarding $DPM_{2.5}$ (toxic air containment) construction emissions. Daily emission values can be found in the summer and winter reports, however, the APCD relies on winter emission values as this assumes worst case scenario. Quarter emission values can be calculated from the annual report.

14. The diesel ($DPM_{2.5}$) daily emissions for this project are _____ lbs/day.

    Tip: DPM2.5 is displayed in CalEEMod as "Exhaust PM2.5"

15. The average quarter amount of diesel ($DPM_{2.5}$) emissions for this project is _____ tons/quarter.

    Tip: Annual $DPM_{2.5}$ value_____ / 4 quarters in a year = average $DPM_{2.5}$ per quarter _____ tons/quarter.

Website Drop-down Title: **Comparing Construction Emissions to Thresholds and Applying Mitigation**

16. Use your answers from question 14 and 15 to fill in the tables below to determine if this project exceeds APCD Construction Thresholds:

	Pollutant	Daily Emissions	Daily Threshold	Over Threshold?
Answer from Question 14	Diesel Particulate Matter ($DPM_{2.5}$)		7 lbs	

	Pollutant	Average Quarter Emissions	Quarterly Tier 1 Threshold	Over Threshold?	Quarterly Tier 2 Threshold	Over Threshold?
Answer from Question 15	Diesel Particulate Matter ($DPM_{2.5}$)		0.13 tons		0.32 tons	

Tip: The Construction Mitigation Measure Quick Guide is required to answer questions 17-20.

17. Will this project be demolishing or remodeling?
    a. Yes, therefore this project needs the Proper Abatement of Asbestos-Containing Material (ACM) mitigation measure and the APCD Compliance Division will be contacted.
    b. No, this project will not be demolishing or remodeling.
18. Will this project be demolishing, remodeling, sandblasting, or removing paint with a heat gun?
    a. Yes, therefore this project needs the Proper Abatement of Lead-Based Coated Structures mitigation measure and the and the APCD Compliance Division will be contacted.
    b. No, this project will not be demolishing, remodeling, sandblasting, or removing paint with a heat gun.
19. Is this project site within 1 mile of a known serpentine deposit?
    a. Yes, therefore this project needs the Naturally Occurring Asbestos on Site mitigation measure.
    b. No, this project is not within 1 mile of a known serpentine deposit.
20. Use the Construction Mitigation Measure Quick Guide and questions 14 through 19 to determine what mitigation measures are needed. List them below.
    a. _____
    b. _____
    c. _____
    d. _____

Website Drop-down Title: Calculating operational emissions for project level review

CalEEMod is needed to answer question 21 and 22 regarding $DPM_{2.5}$ (toxic air contaminant) operational emissions. Daily emission values can be found in the summer and winter reports, however, the APCD relies on winter emission values as this assumes worst case scenario. Annual emission values can be found in the annual report.

21. The diesel ($DPM_{2.5}$) daily emissions for this project are _____ lbs/day.

    Tip: DPM2.5 is displayed in CalEEMod as "Exhaust PM2.5"

Website Drop-down Title: Comparing Operational Emissions to Thresholds and Applying Mitigation

22. Fill in the table below to determine if this project exceeds APCD Operational Thresholds:

	Pollutant	Daily Emissions	Daily Threshold	Over Threshold?
Answer from question 21	Diesel Particulate Matter ($DPM_{2.5}$)		1.25 lbs	

Tip: The Operational Mitigation Measure Quick Guide is required to answer questions 23-25.

23. Will diesel-powered equipment be used during the operational phase of this project and are there sensitive receptors within 1,000 feet of this project?
    a. Yes, therefore this project needs the limits of idling during operational phase mitigation measure.
    b. No, this project will not be using diesel-powered equipment during the operational phase and is not within 1,000 feet of sensitive receptors.
24. Will this project emit toxic or hazardous air pollutants during its operational phase? Projects that may emit toxic or hazardous air pollutants include loading docks, gasoline stations, distribution facilities or asphalt batch plants.
    a. Yes, therefore this project may need a health risk assessment. The APCD should be contacted.
    b. No, this project will not emit toxic or hazardous air pollutants.
25. Use the Operational Mitigation Measure Quick Guide and questions 21 through 24 to determine what mitigation measures are needed. List them below.
    a. _____
    b. _____
    c. _____
    d. _____

(d) AEP Appendix G Checklist Question: Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?

Website Drop-Down Title: **Determining Odor Significance**

26. Does the project include any of the proposed operations as detailed in Table 3-3 and is within the screening level distances to sensitive receptors or other areas where people may congregate?
    a. Yes, and therefore the SLO County Compliance Division should be contacted for information regarding potential odor problems and possible mitigation.
    b. No, this project is not within the screening level distances to sensitive receptors or other areas where people may congregate.

Greenhouse Gases

(a) AEP Appendix G Checklist Question: Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?

Website Drop-down Title: **Calculating Greenhouse Gas Emissions for Project Level Review**

CalEEMod is needed to answer the following questions regarding annual GHG emissions. Emission values can be found in the annual report.

27. The total construction CO_2e value for this project is _____ MT.

Tip:

2023	
2024	
Total	

28. The construction annual CO_2e value amortized over the life of the project is _____ MT/yr.

Tip: Total construction GHG emissions should be amortized over the life of the plan/project. Residential and mixed-use projects have a lifetime of 30 years. Commercial projects have a lifetime of 25 years.

Total construction CO_2e _____ *MT / 30 years =* _____ *MT/yr of project life.*

29. The total construction and operational annual CO_2e value is _____ MT/yr.

Tip: Amortized construction CO_2e value should be added to annual operational GHG emissions

Amortized Construction CO_2e per year	
Total operational CO_2e per year (area, energy, mobile, waste, and water combined)	
*Total construction and operational CO_2e per year**	

**Total project emissions should be mitigated over the life of the project.*

Website Drop-down title: **Comparing Greenhouse Gas Emissions to Thresholds and Applying Mitigation and Analyzing Project Consistency with GHG Reducing Plans, Policies, or Regulations**

The SLO County APCD's 2021 Interim CEQA GHG Guidance document should be used to answer the following questions. Note, the SLO County APCD's bright-line threshold of 1,150 MT CO2e /yr and the efficiency threshold of 4.9 MT CO2e /yr per service population are AB 32 based and project horizons are now beyond 2020, the SLO County APCD does not recommend the use of these thresholds in CEQA evaluations.

30. Which of the following GHG threshold is applicable to this project?
    a. Consistency with a qualified climate action plan
    b. No-net increase
    c. Lead Agency adopted defensible CEQA GHG thresholds

31. Arrange the following mitigation hierarchy options into the recommended order of use according to the APCD.

    - International Generated Offsets
    - California Generated Offsets
    - On-site GHG Mitigation Measures
    - SLO County on-site, off-site, and offset GHG mitigation measures within SLO County
    - North American Generated Offsets

    1. _____
    2. _____
    3. _____
    4. _____
    5. _____

32. What resources are available for on-site mitigation measures?
    a. Table 3-5: Mitigation Measures in the 2017 SLO County APCD Handbook Clarification Memo.
    b. 2010 CAPCOA Quantifying Greenhouse Gas Mitigation Measures document and the future update to this document that is currently being managed by Sacramento Air Quality Management District under a SB1 Adaptation Planning Grant.
    c. 2017 Scoping Plan Appendix B includes examples of on-site project design features, mitigation measures, and direct regional investments that may be feasible to minimize GHG impacts from projects.
    d. VMT measures found in the 2018 Office of Planning and Research (OPR) Technical Advisory on Evaluating Transportation Impacts in CEQA.
    e. All of the above

(b) AEP Appendix G Checklist Question: Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?

Website Drop-down Title: **Comparing Greenhouse Gas Emissions to Thresholds and Applying Mitigation and Analyzing Project Consistency with GHG Reducing Plans, Policies, or Regulations**

33. Does this project conflict with any locally adopted Climate Action Plans, Sustainability Plans, Adaptation Plans, General Plans, or other plans, policies and regulations designed to reduce GHG emissions?

    a. Yes, therefore mitigation should be incorporated.

    b. No, therefore no mitigation is needed.

34. Does this project conflict with the land use and transportation policies, goals, action strategies, and preferred growth scenario identified in the San Luis Obispo Council of Governments Regional Transportation Plan/Sustainable Community Strategies (RTP/SCS)?

    Tip: In the fall, SLOCOG will be updating the action strategies for the 2023 RTP and a consistency check list will be created. Until then, it is best to work with SLOCOG early in the project development process to understand if projects are consistent with the information in the 2019 RTP.

    a. Yes, therefore mitigation should be incorporated.

    b. No, therefore no mitigation is needed.

35. Does this project conflict with any components within California's 2017 Climate Change Scoping Plan?

    a. Yes, therefore mitigation should be incorporated.

    b. No, therefore no mitigation is needed.