

2020 Air Quality Work Plan Report

Prepared by the Capital Area Council of Governments

January 5, 2021



1 OVERVIEW

This report describes the activities and results from the 2020 Work Plan that the Capital Area Council of Governments (CAPCOG) performed in calendar year 2020. The 2020 Air Quality Work Plan was approved by the Central Texas Clean Air Coalition (CAC) at their February 12, 2020, meeting.

2 TASK 1: CLEAN AIR COALITION SUPPORT

CAPCOG hosted four CAC and four CAC Advisory Committee (CACAC) meetings in 2020. Due to the COVID-19 shut-downs, the spring CAC and CACAC meetings were held later than planned in June.

- CAC Meetings:
 - Wednesday, February 12, 2020;
 - Wednesday, June 24, 2020;
 - Wednesday, August 12, 2020; and
 - Wednesday, November 4, 2020.
- CACAC Meetings:
 - Thursday, January 30, 2020;
 - Wednesday, June 10, 2020;
 - Thursday, July 30, 2020; and
 - Monday, October 26, 2020.

Issues that the CAC submitted comments on were:

- EPA's Development of New Heavy-Duty Engine Standards (Regulation Identification Number (RIN) 2060-AU41);
- TCEQ's 5-Year Monitoring Network Assessment; and
- EPA's Cross-State Air Pollution Rule Revision (RIN 2060-AU84).

Issues that CAPCOG staff tracked that were of interest to the CAC:

- EPA's 2020 Ozone (O₃) National Ambient Air Quality Standard (NAAQS) Review Proposal (RIN 2060-AU40);
- EPA's 2020 Particulate Matter (PM) NAAQS Review Proposal (RIN 2060-AS50);
- Texas House Interim Charges to the Appropriations Subcommittee on Articles VI, VII, and VIII and the Environmental Regulations Committee; and
- TCEQ's Legislative Appropriation Request (LAR).

Other activities under this task included:

- Development of performance measures and targets in consultation with CACAC;
- Coordination of appointments for 2020-2021 terms;
- Briefing new CAC and CACAC members;
- Distribution of monthly newsletters;
- Preparation of FY 2021 funding requests in Spring 2020;

- Preparation of a work plan for 2021 in October 2020; and
- Recruitment of new CAC members.

3 TASK 2: TECHNICAL ASSISTANCE TO CAC MEMBERS TO IMPLEMENT EMISSION REDUCTION MEASURES

As recommended by the CACAC and approved by the CAC, CAPCOG prioritized activities related to transportation electrification and promoting energy efficiency standards and codes through its technical assistance. Also, CAPCOG provided on-going technical assistance to CAC members for routine requests for assistance, applying for Texas Emissions Reduction Plan (TERP) grants, and applying for Texas Volkswagen Environmental Mitigation Program (TxVEMP) grants. The technical assistance that CAPCOG staff provided in 2020 is listed below:

- Electric Vehicles (EVs) and Transportation Electrification
 - City of Austin Climate Equity Plan
 - Throughout 2020, CAPCOG staff participated in Austin’s Transportation Electrification/EV Advisory Group in order to advise on transportation electrification goals and strategies as Austin developed an updated [Community Climate Plan](#).
 - Lone Star Clean Fuels Alliance’s (LSCFA’s) EV Fleet Webinars
 - LSCFA hosted a four-part webinar series focused on EVs and fleets in partnership with CAPCOG. The webinar series was titled, “The Next Big Thing for Your Fleet – Electric Shuttles and Trucks.” The webinars were held on 4 days over the course of a month with a different topic each day. The dates and topics were:
 - 6/17/2020: EV Shuttle and Truck Technology Overview
 - 6/24/2020: EV Shuttle and Truck Customer Experiences
 - 7/1/2020: Working with Your Utility and Charging Options
 - 7/8/2020: EV Funding Opportunities and Incentives
 - NCTCOG’s Electric School Bus Working Group and Webinars
 - Starting in summer 2020, CAPCOG staff participated in an electric school bus work group hosted by NCTCOG. The work group focused on gathering ISD opinions on electric school buses and collaborating with electric school bus manufacturers on a three-part webinar series. The webinars were geared towards Fleet Managers, Energy & Facility Managers, and Directors of Transportation working for school districts. Two out of three webinars were held in 2020, and the last one will be held in 2021. The dates and topics are listed below:
 - 12/3/2020: IC Bus and Blue Bird Bus Presentation; Working with Your Utility
 - 12/16/2020: Collins Bus and Thomas Built Bus Presentation; Role of Energy Managers in the Successful Deployment of Electric School Buses

- 1/13/21: Lion Electric Bus Presentation; Funding for Electric School Buses and Innovative Financing
- Energy Efficiency
 - NCTCOG Local Government Energy Reporting Working Group
 - In spring 2020, CAPCOG staff participated in a working group hosted by NCTCOG. The goal of the working group was to identify any barriers preventing local government compliance to the state mandated energy reporting requirements and potential opportunities to improve the effectiveness of the requirement.
 - On December 17, 2020, CAPCOG staff sent an email to the CAC and CACAC with information about the Local Government/State Agency Energy Reporting and the availability of the reporting form for calendar year 2020 on the State Energy Conservation Office's (SECO's) website.
 - South-central Partnership for Energy Efficiency as a Resource (SPEER)
 - CAPCOG participated in SPEER's City Efficiency Leadership Council (CELC) meetings each quarter where CAPCOG staff collaborated with cities, counties, and other state departments within Central Texas on energy efficiency topics.
- Grants
 - CAPCOG staff participated in TERP and TxVEMP webinars throughout the year to stay informed of grant requirements and opportunities.
 - CAPCOG staff notified the CAC, CACAC, and other air quality stakeholders via email about each of the TERP and VW grants that opened throughout the year. Also, every month, CAPCOG staff provided an update as to how much funding was available for each open TERP and TxVEMP grant in its monthly air quality newsletters to the CAC and CACAC.
 - TERP: In July and August 2020, CAPCOG staff assisted Travis County in preparing a grant application for the TERP Rebate Grant Program. Unfortunately, the grant closed within a week of opening, so Travis County was not able to submit an application. In November 2020, CAPCOG staff assisted Travis County in evaluating the eligibility and feasibility of applying for the TERP Emissions Reduction Incentive Grant (ERIG). It was determined that the application would not meet the requirements of the ERIG.
 - TxVEMP: In fall 2020, CAPCOG staff provided guidance to the City of Buda, City of Kyle, and the City of Round Rock for the TxVEMP Grant for Level 2 Charging Equipment for Light-Duty Zero Emission Vehicles.
- Particulate Matter
 - On 5/14/2020, CAPCOG hosted a webinar on Particulate Matter Air Quality Standards and Implications for Central Texas Air Quality. The webinar experienced technical difficulties, so a recording was sent out the CAC and CACAC.
- Other Assistance:
 - 2/13/2020: Sent City of Austin information on ACT Clean Air Ambassador's Program
 - 3/26/2020: Responded to Travis County question about Continuous Air Monitoring Station (CAMS) 3
 - 4/21/2020: Travis County request for the link to the 2019-2023 Regional Air Quality Plan

- 6/12/2020: Texas Parks and Wildlife Department request for Ozone Action Day information and graphics
- 8/10/2020: NAAQS nonattainment infographic for Travis County
- 9/1/2020: Input on potential Ozone Action Day programs and rewards from Travis County
- 9/17/2020: 2015 monitoring data question from City of Austin
- 9/30/2020: Provided City of Smithville (Bastrop Co.) Air Central Texas outreach and education links
- 9/30/2020: Discussion with City of Austin and Travis County about heavy duty vehicle idling
- 10/12/2020: Provided info to City of Austin and Travis Co. about observed haze
- 12/15/2020: Discussion with City of Austin about localized monitoring project
- 12/18/2020: Vehicle data for Airport Carbon Accreditation Program from City of Austin
- 12/19/2020: City of Austin request about I-35 air pollution and area of affect

4 TASK 3: OUTREACH AND EDUCATION ACTIVITIES

This task involved air quality outreach and education activities carried out by CAPCOG. This included:

1. Air Central Texas (ACT) Marketing - ACT is an initiative to reduce exposure to air pollution in Bastrop, Caldwell, Hays, Travis, and Williamson Counties through voluntary actions to reduce emissions and tools for the public to avoid exposure to high pollution levels when they occur. Participants include local governments, regional and state government agencies, non-profit groups and institutions, and businesses.
 - a. No in-person outreach was held because the COVID-19 pandemic cancelled planned and expected in-person outreach events.
 - b. [ACT Website](#) - The ACT website is the main portal for the public to learn about the Air Central Texas program. The site includes news and events, tools to estimate emissions, trends and reports on the region's air quality, and much more.
 - i. The website was updated throughout the year in both English and Spanish with new information, new Air Quality Toolkit graphics, and news.
 - c. ACT Social Media – The ACT social media accounts include [Facebook](#) and [Twitter](#), which staff uses to communicate relevant news and updates to the public.
 - i. 2-3 posts per week are shared on the ACT social media accounts in 2020.
 - d. ACT Newsletter – The ACT newsletter provides subscribers with information about the ACT program and ambient air quality in the region.
 - i. The ACT newsletter was sent out monthly from March – December 2020.
 - e. Paid Advertising – Paid advertising can boost the reach of the ACT program's messaging, allowing the program to reach out to communities that may not normally see ACT messaging through the program's other messaging channels.

- i. CAPCOG contracted with Waterloo Media for \$50,000 to create paid advertising for radio, digital, and social media that ran during Air Quality Awareness Week from May 4 - May 8, 2020 and monthly ads in July – October.
 - ii. The results of the paid advertising are listed in Section 10 of this report.
 2. Targeted Outreach - Targeted outreach to specific groups may help reach key demographics that are vulnerable to the effects of air pollution and/or that may amplify the reach of the program's messaging beyond the typical media channels the CAPCOG staff uses.
 - a. Target schools & youth groups – Children are a vulnerable demographic to air pollution, working with schools and/or youth groups can provide the opportunity to reach this demographic efficiently.
 - i. On February 28, 2020, CAPCOG staff sent an email to the independent school district (ISD) public information officers with information about ozone season, the sensitive groups to ozone, and ACT.
 - ii. COVID-19 affected this task as schools were busy adapting to virtual learning and the pandemic.
 - iii. Beginning in fall 2020, CAPCOG sent letters via email to the major ISDs in the Austin-Round Rock-Georgetown Metropolitan Statistical Area (MSA) requesting that the ISD consider participating in the Regional Air Quality Plan and the Clean Air Coalition.
 - iv. In fall 2020, CAPCOG sent the regional ISD contacts an electric school bus survey and information on a three-part webinar series on electric school buses that was hosted by the North Central Texas Council of Governments (NCTCOG).
 - b. Target health professionals - Healthcare professionals are a group that can help amplify the program's messaging this it is important that this group is well-informed about air quality resources.
 - i. Due to the COVID-19 pandemic, this task was put on hold due to healthcare professional being occupied with the pandemic.
 - c. Media Outreach – Media outlets are an important channel for the program to target since the media plays a majoring role in keeping the public informed on air quality news and messaging.
 - i. Due to the COVID-19 pandemic, the annual Clean Air Force Meteorologist Luncheon for which CAPCOG collaborates was cancelled.
 - ii. Also, due to COVID-19, this task was put on hold due to the media being occupied with the pandemic.
 3. Air Quality Events/Campaigns – Throughout the year it is important to increase air quality outreach efforts to feed into important dates nationally or across the region and to concentrate resources to increase the market penetration of the messaging.
 - a. ACT Awards - The ACT celebrate the activities by organizations and individuals that have made significant contributions to the region's air quality and inspire future action that supports the CAC's ongoing regional air quality planning efforts.
 - i. The CAC presented the 2020 ACT Awards at their meeting on Nov. 4, 2020. The award categories and winners can be viewed on the [ACT Awards page](#).

- b. Start of O₃ Season – The start of ozone season is March 1, 2020, and it is a key time to make sure that people know to be aware about air quality condition and take steps to avoid unnecessary air pollution.
 - i. On February 28, 2020, CAPCOG staff sent an email to the CAC, CACAC, and regional public information officers with information about ozone season, the sensitive groups to ozone, and ACT.
 - ii. CAPCOG included information about the ozone season start in the March ACT newsletters and posted frequently on social media with information and tips.
- c. Air Quality Awareness Week (AQAW) – Air Quality Awareness Week is a national event organization by the EPA to promote air quality across the country, and it was held on May 4 – May 8, 2020.
 - i. The featured topics for the week were:
 - 1. Wildfires & Smoke
 - 2. Asthma and Your Health
 - 3. Where's your AQI Coming From?
 - 4. Air Quality Around the World
 - 5. Air Quality Educational Resources for Family and Kids
 - ii. CAPCOG updated the ACT webpage with the [new AQAW topics and educational information](#).
 - iii. Every day during AQAW, CAPCOG staff sent an email about that day's theme the CAC, CACAC, and other air quality stakeholders.
 - iv. CAPCOG posted relevant information about the daily theme on social media each day.
 - v. CAPCOG contracted with Waterloo Media to run radio, digital, and social advertising during AQAW.
- 4. CACAC Outreach and Education (O&E) Subcommittee
 - a. CAPCOG staff convened the O&E Subcommittee in 2020 to discuss O&E activities because of cancelled in-person events due to COVID-19 and recruitment of new CAC members. The O&E Subcommittee met on:
 - i. 7/9/2020; and
 - ii. 9/8/2020.

5 TASK 4: ANNUAL AIR QUALITY REPORT

CAPCOG collected emission reduction measure information for 2019 from CAC members in May - July 2020. CAPCOG completed a draft of the 2019 Air Quality Report for the MSA on July 29, 2020, and CAPCOG staff sent the report to the CAC and CACAC for comment. Recommendations for the report were listed as an agenda item for the July 30, 2020, CACAC meeting. CAPCOG staff finalized the report on July 31, 2020. [The report is posted on CAPCOG's website](#). CAPCOG presented a summary of the report during the August 12, 2020, CAC Meeting.

6 TASK 5: OZONE MONITORING

CAPCOG operated eight O₃ monitors in the region in accordance with its 2019-2023 monitoring plan. There are a few notable updates:

- CAMS 6602 in Hutto was decommissioned in November 2020, and CAPCOG's new Round Rock monitoring station will be commissioned in February 2021;
- CAPCOG implemented a new data management system in order to report monitoring data digitally via File Transfer Protocol (FTP) to TCEQ's LEADS and EPA's AirNow; and
- CAPCOG began reporting data to EPA's AirNow for public access in June 2020.

Please see the 2020 Air Quality Monitoring Report for detailed ambient air quality monitoring activities and information from 2020. This report will be posted on [CAPCOG's website](#) in January 2021.

7 TASK 6: MONITORING DATA ANALYSIS

Following TCEQ's certification of its 2019 monitoring data on May 1, 2020, CAPCOG prepared the 2019 Air Monitoring Data Analysis for the MSA. This report is a single-year data analysis report comparing 2019 data to data from 2010-2018. CAPCOG completed a draft of this report on July 29, 2020, and CAPCOG staff sent the report to the CAC and CACAC for comment. Recommendations for the report were listed as an agenda item for the July 30, 2020, CACAC meeting. CAPCOG staff finalized the report on July 31, 2020. [The report is posted on CAPCOG's website.](#) CAPCOG presented a summary of the report during the August 12, 2020, CAC Meeting.

8 TASK 7: EMISSIONS, CONTROL STRATEGY, AND AIR QUALITY MODELING ANALYSIS

CAPCOG reviewed and analyzed new reports and data that were released in 2020 related to emissions inventories, control strategies, and air quality modeling. These included:

- 2020 Texas fuel sampling data;
 - CAPCOG staff analyzed the data and presented the regional results at the CAC meeting on Nov. 4, 2020;
- [EPA's Emissions & Generation Resource Integrated Database \(eGRID\)](#);
 - CAPCOG staff reviewed the updated database and fine particulate matter (PM_{2.5}) data;
- EPA's 2028 Regional Haze Modeling;
 - CAPCOG staff analyzed and mapped the modeled PM_{2.5} concentrations for the CAPCOG region;
- TCEQ's 2018 point source emissions inventory data;
- EPA's 2019 power plant emissions inventory data;

- EPA's 2017 National Emissions Inventory (NEI), expected to be released in April 2020;
- Photochemical modeling data in support of the 2020 O₃ NAAQS review and related emissions inventory data;
- 2019 fuel sulfur data reported to EPA.

9 TASK 8: OTHER STUDIES AND PLANNING ACTIVITIES

In 2020, CAPCOG performed additional studies and planning activities that were not specifically outlined in the work plan. An explanation of these studies and activities is provided below.

- CAPCOG Analysis of Potential Impacts of COVID-19 Crisis on Regional Air Quality
 - On April 24, 2020, CAPCOG staff released a [memo](#) to the CAC and CACAC in regards to many inquiries that CAPCOG received about the impact of COVID-19 and associated changes in behavior on air quality. The memo provided a brief analysis of the potential effects on regional air quality from the Stay-at-Home Orders.
 - Since the release of the memo, CAPCOG has contracted with the City of Austin to perform a more in-depth analysis of this topic in 2021. The regional analysis will include detailed air quality data analyses, on-road emissions inventories, and photochemical modeling.
- EPA Travel Efficiency Assessment Method (TEAM) Case Study
 - In 2019 and January 2020, CAPCOG staff worked with the EPA on a case study to analyze potential emission reductions from travel efficiency strategies. On July 29, 2020, the EPA finalized and posted the case study — Applying TEAM in Regional Sketch Planning: A Case Study in Austin, Texas — on [EPA's Estimating Emission Reductions from Travel Efficiency Strategies webpage](#).
- CAPCOG participated in the Texas Clean Air Working Group (TCAWG), including chairing a subcommittee tasked with developing proposed criteria for an area to be considered "near-nonattainment" for O₃;
- State of Texas Air Quality Research Program (AQRP)
 - In January 2020, St. Edward's University (SEU) in collaboration with CAPCOG submitted a research grant application to the AQRP for an Austin 2020 Air Quality Field Study. On May 1, 2020, SEU notified CAPCOG that the project was not selected for funding.
- NCTCOG Smoking Vehicle Program
 - Met with NCTCOG staff to explore the possibility of participating in a smoking vehicle program that they administer now that TCEQ has suspended the statewide program;
- EPA's Particulate Matter (PM) Advance Program
 - In 2019, EPA's comments on the region's annual air quality report included a suggestion that the region consider participating in EPA's Particulate Matter (PM) Advance Program due to increases in the region's PM_{2.5} design value in recent years.

- At the June 24, 2020, CAC Meeting, CAPCOG staff reviewed a presentation on the EPA Reviews of Particulate Matter and Ozone National Ambient Air Quality Standards. The presentation concluded that while the region's air pollution levels continue to be much closer to exceeding the O₃ NAAQS than any of the PM NAAQS, the region's PM air pollution levels appear to pose a much more significant public health threat than the region's O₃ levels.
- At the July 30, 2020, CACAC meeting, the CACAC voted unanimously to recommend participation in PM Advance to the CAC with the understanding that this was not a recommendation for spending or raising any additional funding specific to PM Advance at this time. As CAPCOG staff explained to the CACAC members, this would only mean that CAPCOG would incorporate some work specific to PM into its ongoing activities, which would not require any additional funding.
- Therefore, at the August 12, 2020, CAC Meeting, CAPCOG staff presented a memo and action item for the CAC to consider participation in EPA's PM Advance Program. The CAC voted unanimously in favor of participation in EPA's PM Advance Program.
 - As a result, CAPCOG submitted a "sign-up letter" signed by the chair of the CAC to the EPA indicating that the MSA wished to participate in EPA's PM Advance Program on August 18, 2020.
- After the letter was submitted to EPA, CAPCOG staff recruited CACAC members to serve on a PM Advance Subcommittee in order to review available PM data and emission reduction strategies and to guide CAPCOG staff in updating the Regional Air Quality Plan for PM.
 - The PM Advance Subcommittee met on the following dates in 2020:
 - 9/8/2020;
 - 10/8/2020;
 - 11/13/2020; and
 - 12/15/2020.
- In January 2021, the PM Advance Subcommittee plans to finalize the list of PM emission reduction measures and actions to recommend to the CACAC and CAC for consideration. These measures include:
 - Working to ensure prescribed burning activities do not coincide with projected high PM days, if possible;
 - Reducing open burning;
 - Reduce road dust emissions;
 - Reduce emissions from commercial cooking/charbroiling, possibly through some kind of grant program;
 - Reduce emissions from construction and demolition activities;
 - Reduce emissions from mining and quarrying activities;
 - Encourage installation of additional PM_{2.5} monitors/sensors within the region;
 - Promote awareness of health effects of PM air pollution; and
 - Encourage consideration of co-benefits of PM air pollution reductions from other actions/measures that could impact regional PM concentrations but may

not be implemented specifically because of PM (for example, replacement of older diesel vehicles to reduce NOX also reduces PM_{2.5}).

10 TASK, DELIVERABLE, AND PERFORMANCE METRIC SUMMARY

The following table identifies the deliverables, due dates, performance metrics, and performance targets for each task.

Table 1. Work Plan Task and Deliverable Summary

Task	Deliverable	Due Date	Preliminary Performance Metric	Preliminary Performance Target	Achievement
Task 1: Clean Air Coalition Support	Clean Air Coalition Meeting Minutes	30 days after meetings	Number of CAC Meetings	4	4
	Clean Air Coalition Advisory Committee Minutes	30 days after meetings	Number of CACAC Meetings	4	4
	Monthly Air Quality Newsletters	By the end of each month	Number of newsletters	12	12
Task 2: Technical Assistance to CAC Members to Implement Emission Reduction Measures	Quarterly Staff Activity Reports	Within 30 days of the end of each quarter	Quarterly Activity Reports	4	1 Report Covering All 4 Quarters
Task 3: Outreach and Education Activities	Quarterly Reports on Outreach on Activities Completed	Within 30 days of the end of each quarter	Air Central Texas Website Unique Visits	10,000	10,000 ¹
			Air Central Texas Social Media Posts	56	130

¹ CAPCOG staff is unable to access the account for which the website analytics are available as of 12/21/2020. Since the performance target was based off past data, it can be assumed that the target was reached in 2020. Achievement will be updated once access is restored to the account.

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Task	Deliverable	Due Date	Preliminary Performance Metric	Preliminary Performance Target	Achievement
			Air Central Texas Social Media Posts During AQ Awareness Week	5	5
			Social Media Gross Impressions	20,000	408,792
			Social Media Engagements	3,500	3,658
			Community Events Staffed	8	0 – Due to the COVID-19 pandemic, no in-person events were held.
			Community Events Staffed In Each County	1	0 – Due to the COVID-19 pandemic, no in-person events were held.
			Gross Impressions from Paid Advertising	3,000,000	4,483,290
			Spanish-Language Gross Impressions from Paid Advertising	300,000	462,000
			Counties with Electronic Advertising Gross Impressions	5	5
			ZIP Codes with Electronic Advertising Gross Impressions	>60%	100%

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Task	Deliverable	Due Date	Preliminary Performance Metric	Preliminary Performance Target	Achievement
			Health Care Professionals Contacted	5	0 – Due to the COVID-19 pandemic, health care professionals were pre-occupied with the pandemic.
			Health Care Professionals Engaged	2	0 – Due to the COVID-19 pandemic, health care professionals were pre-occupied with the pandemic.
			Media Members Contacted	5	0 – Media focus on COVID-19 pandemic.
			Media Members Engaged	2	0 – Media focus on COVID-19 pandemic.
			Schools/Youth Groups Contacted	5	21
			Schools/Youth Groups Engaged	2	3
			Air Central Texas Newsletter Subscribers	210	144
Task 4: Annual Air Quality Report	2019 Annual Air Quality Report Air	7/31/2020	Days After 7/31/2020 Completed	0	0
Task 5: Ozone Monitoring	2020 Air Monitoring Report	12/31/2020	Days After 12/31/2020 Completed	0	0
Task 6: Monitoring Data Analysis	2019 Air Monitoring Data Analysis Report	7/31/2020	Days After 7/31/2020 Completed	0	0

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Task	Deliverable	Due Date	Preliminary Performance Metric	Preliminary Performance Target	Achievement
Task 7: Emissions, Control Strategy, and Air Quality Modeling Analysis	Quarterly Staff Activities Reports	Within 30 days of the end of each quarter	Quarterly Activity Reports	4	1 Report Covering All 4 Quarters
	Any reports prepared by CAPCOG staff	Upon completion	Completed reports	1	1 - Analysis of Potential Impacts of COVID-19 Crisis on Regional Air Quality
Task 8: Other Studies and Planning Activities	Quarterly Staff Activities Reports	Within 30 days of the end of each quarter	Quarterly Activity Reports	4	1 Report Covering All 4 Quarters