CITY OF CARMEL-BY-THE-SEA
CLIMATE COMMITTEE

REGULAR MEETING
Thursday, January 16, 2020

4:00 PM

CALL TO ORDER AND ROLL CALL

PUBLIC APPEARANCES

Members of the public are entitled to speak on matters of municipal concern not on the agenda during Public Appearances. Each person’s comments shall be limited to 3 minutes, or as otherwise established by the Committee. Matters not appearing on Committee’s agenda will not receive action at this meeting but may be referred to staff for a future meeting. Persons are not required to give their names, but it is helpful for speakers to state their names so that they may be identified in the minutes of the meeting.

COMMITTEE MEMBER ANNOUNCEMENTS

ORDERS OF BUSINESS

Orders of Business are agenda items that require Committee discussion, debate, direction to staff, and/or action.

1. Review of Climate Change Scenarios and Draft List of Priority Hazards and Sensitive Assets
2. Review of the Draft Work Plan to Develop a Climate Adaptation Plan
3. Presentation on Climate Action Planning Guidance

NEXT MEETING

ADJOURNMENT

This agenda was posted at City Hall located on Monte Verde Street between Ocean and 7th Avenues, Harrison Memorial Library located on the NE corner of Ocean Avenue and Lincoln Street, and the Carmel-by-the-Sea Post Office located on 5th Avenue between Dolores Street and San Carlos Street, and the City’s webpage http://www.ci.carmel.ca.us/carmel/ on in accordance with the applicable legal requirements.
SUPPLEMENTAL MATERIAL RECEIVED AFTER THE POSTING OF THE AGENDA
Any supplemental writings or documents distributed to a majority of the Climate Committee members regarding any item on this agenda, received after the posting of the agenda will be available for public review at the Public Works Department located on the east side of Junipero Street between Fourth and Fifth Avenues during normal business hours.

SPECIAL NOTICES TO PUBLIC
In compliance with the Americans with Disabilities Act, if you need special assistance to participate in this meeting, please contact the City Clerk's Office at 831-620-2007 at least 48 hours prior to the meeting to ensure that reasonable arrangements can be made to provide accessibility to the meeting (28CFR 35.102-35.104 ADA Title II).

CHALLENGING DECISIONS OF CITY ENTITIES The time limit within which to commence any lawsuit or legal challenge to any quasi-adjudicative decision made by the City of Carmel-by-the-Sea is governed by Section 1094.6 of the Code of Civil Procedure, unless a shorter limitation period is specified by any other provision, including without limitation Government Code section 65009 applicable to many land use and zoning decisions, Government Code section 66499.37 applicable to the Subdivision Map Act, and Public Resources Code section 21167 applicable to the California Environmental Quality Act (CEQA). Under Section 1094.6, any lawsuit or legal challenge to any quasi-adjudicative decision made by the City must be filed no later than the 90th day following the date on which such decision becomes final. Any lawsuit or legal challenge, which is not filed within that 90-day period, will be barred. Government Code section 65009 and 66499.37, and Public Resources Code section 21167, impose shorter limitations periods and requirements, including timely service in addition to filing. If a person wishes to challenge the above actions in court, they may be limited to raising only those issues they or someone else raised at the meeting described in this notice, or in written correspondence delivered to the City of Carmel-by-the-Sea, at or prior to the meeting. In addition, judicial challenge may be limited or barred where the interested party has not sought and exhausted all available administrative remedies.
TO: Climate Committee Members

SUBMITTED BY: Jeff Baron, Council member

SUBJECT: Review of Climate Change Scenarios and Draft List of Priority Hazards and Sensitive Assets

RECOMMENDATION:

Review and select climate change scenarios to use in analyses. Review and provide feedback on the draft list of priority hazards and sensitive assets.

BACKGROUND/SUMMARY:

In order to evaluate and understand the effects of climate change on Carmel-by-the-Sea, the committee should establish baseline assumptions for one or more scenarios, where each scenario might include estimates for local climate impacts as well as local/global sea level rise. Attachment 1 provides information on typical time horizons and forecast scenarios utilized by other local municipalities to conduct their vulnerability analyses.

Attachment 1 also provides a draft list of priority hazards and sensitive assets for the committee to review and provide feedback on.

FISCAL IMPACT:

N/A

ATTACHMENTS:

Attachment 1 - Climate Change Scenarios and Draft List of Priority Hazards and Sensitive Assets
Objectives of this agenda item

1. Select climate change scenarios to use in various analyses
2. Identify hazards associated with climate change
3. Identify assets associated with each hazard

Objective #1: Select Scenarios to use in various analyses

In order to evaluate and understand the effects of climate change on Carmel, the committee should establish baseline assumptions for one or more scenarios, where each scenario might include estimates for local climate impacts as well as local/global sea level rise.

**Time Horizons:** Generally, cities chose 2030/2060/2100 scenarios.

**Climate Change Outlook:** In order to understand predicted weather (rainfall, temperatures, etc.), the California Climate Change Assessment speaks mostly in terms of RCP4.5 and RCP8.5. The committee could standardize on one of these pathways for the selected scenarios, or make an alternative decision:

- RCP 4.5: a mitigation scenario where global CO2 emissions peak by 2040; or
- RCP 8.5: business-as-usual scenario where CO2 emissions continue to rise throughout the 21st century

**Sea Level Rise:** In order to evaluate coastal effects of climate change, the committee could choose to make assumptions about the expected sea level rise associated with the selected scenarios:

- Santa Cruz chose 2030: 4 inches, 2060: 28 inches, 2100: 63 inches
- Pacific Grove chose 2100: 55 inches
- Monterey chose 2030: <1 foot, 2060: ~2 feet, 2100: ~5 feet

Objective #2: Identify hazards associated with climate change

Hazards:

- Climate Change
- Sea Level Rise
- Wildfire Risk
Objective #3: Identify Assets at risk from each hazard

Hazard: Climate Change, including: Temperature and Precipitation changes, Fog pattern alterations, Extreme Storm Events, Extreme Drought Events

- Drainage and localized flooding
- Natural Environment (vegetation and animal life)
  - Mission Trail
  - North Dunes
  - Urbanized Forest
- Water Supply – Drought tolerant?
- Energy supply – availability and reliability
  - Increased reliance on electricity with electric cars?
  - Storm impacts on generation and distribution
  - Temperature impacts on generation and distribution
  - Wildfire impacts on distribution
- Transportation
  - Resiliency of regional transportation infrastructure and effects on local economy
  - Stability of city roads
- Wastewater
- Elderly population
- Second homes

Hazard: Sea Level Rise

- Beach “drowning”
- Cliff retreat
- Sandy slope retreat (8th Avenue, Ocean Avenue, and the areas in between)
- Seawall and revetment Impacts
- (Currently) Buried Infrastructure
  - Gas, electric, sewer
- Physical Plant
  - Scenic Road
  - Restrooms
  - Stairs, seawalls, storm drains
- Private property

Hazard: Wildfire Risk

- Originations within town
- Originations from within Pescadero Canyon
- Originations from within Mission Trail Park
- Originations from external areas (Pebble Beach, etc.) travelling into residential Carmel
TO: Climate Committee Members

SUBMITTED BY: Agnes Martelet, Environmental Compliance Manager

SUBJECT: Review of the Draft Work Plan to Develop a Climate Adaptation Plan

RECOMMENDATION:

Review and provide feedback on the Draft Work Plan to Develop a Climate Adaptation Plan.

BACKGROUND/SUMMARY:

The draft work plan to develop a Climate Adaptation Plan is included in Attachment 1.

FISCAL IMPACT:

N/A

ATTACHMENTS:

Attachment 1: Draft Work Plan to Develop a Climate Adaptation Plan
# Climate Adaptation Plan

**DRAFT WORK PLAN**

January 3, 2020

<table>
<thead>
<tr>
<th>Project Phase</th>
<th>Tasks</th>
<th>Suggested Lead(s)</th>
<th>Due?</th>
<th>Timeline</th>
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<tbody>
<tr>
<td><strong>Phase I - Project Definition and Initiation</strong></td>
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<td>Assemble project team</td>
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<td>Define desired project outcomes (mission)</td>
<td>Committee</td>
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<td>Define priority hazards, assets, and resilience goals</td>
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<td>Identify data source(s) and reliability, and data gaps for priority hazards &amp; assets</td>
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<td>Identify &amp; make contact with community organizations to engage with for information sharing and coordination</td>
<td>Committee</td>
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<td>Identify &amp; make contact with regional partners to engage with for information and coordination</td>
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<td>Identify sources of support &amp; timing of support where applicable (e.g. grants)</td>
<td>Staff*</td>
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<td>Council Update on priority hazards, assets, and partners</td>
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<td><strong>Phase II - Assess Vulnerability</strong></td>
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<td>Describe historical hazard events, impacts, and identified vulnerabilities</td>
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<td>Finalize list of climate effects of most concern</td>
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<td>Finalize list of most sensitive populations and assets</td>
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<td>Evaluate climate change projections for priority effects and impacts of greatest concern</td>
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<td>Adaptive capacity and existing resources: develop needs of existing community resources and policies that provide adaptation capacity</td>
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<td>Develop Vulnerability Scores for potential impacts and adaptive capacity</td>
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<td>Council Update on Vulnerability Scoring</td>
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<td>Engagement and Outreach: workshops to gather feedback on local vulnerabilities and strengths, community priorities</td>
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<td><strong>Phase III - Define Adaptation Strategies</strong></td>
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<td>Confirm project outcomes and resilience goals</td>
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<td>Assemble draft adaptation strategies</td>
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<td>Review and prioritize strategies</td>
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<td>Final Review of Prioritized Strategies</td>
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<td>Engagement and Outreach: workshops to develop and gather feedback on proposed strategies</td>
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<td><strong>Phase IV - Adaptation Plan</strong></td>
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<td>Assemble Climate Adaptation Plan Report</td>
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<td>Review and Finalize Report</td>
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<td>Council Review and Adoption of the Plan</td>
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