

CITY OF LA HABRA ANNEX

The City of La Habra (La Habra) is a participant (Member Agency [MA]) in the Orange County Water and Wastewater Multi-Jurisdictional Hazard Mitigation Plan (HMP or Plan). As a participant MA, La Habra representatives were part of the HMP Planning Process and served on the Planning Team responsible for the Plan Update; refer to Section 2 of the Plan. The primary Plan, including the hazard mitigation plan procedural requirements and planning process apply to La Habra.

This Annex supplements information contained in the primary Plan and describes how La Habra’s risks vary from the planning area. The Risk Assessment (Section 3) summarizes the hazards and risks that pose a threat to Orange County. The primary Plan treats the entire County as the planning area and identifies which MAs are subject to a profiled hazard. The purpose of this Annex is to provide additional information specific to La Habra with a focus on the risk assessment and mitigation strategy.

HAZARD MITIGATION PLAN POINT OF CONTACT AND DEVELOPMENT TEAM

The following representatives attended the Planning Team meetings on behalf of La Habra and coordinated the hazard mitigation planning efforts with La Habra staff:

Primary Point of Contact

Brian Jones
Water and Sewer Manager
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562-383-4170

Alternate Point of Contact

Elias Saykali
Director of Public Works
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In addition to participating on the Planning Team, an internal team was also formed to support Planning Team representatives and provide information for the Plan update. The following staff served as La Habra’s internal hazard mitigation planning development team.

Representative	Title	How Participated
Brian Jones	Water and Sewer Manager	Review process/Update

JURISDICTION PROFILE (Service Population: 63,118)

La Habra was incorporated under general law on January 20, 1925, with a population of 3,000. Today, La Habra is a bedroom community located in northern Orange County with a population of nearly 63,118 residents in 7.3 square miles. La Habra operates under a five-member Council/Manager form of government who also act as the board of the Water/Sewer Division.

La Habra possesses 125 miles of all gravity sewer pipelines with a replacement cost of \$145,000,000 and 143 miles of water pipeline with a replacement cost of \$110,000,000. There are three water storage tanks, three water wells, five booster stations, 57 pressure reducing valves and 19 pressure zones. La Habra receives water from Metropolitan through MWDOC and from California Domestic Water Company from the San Gabriel Groundwater Basin.

HAZARDS

Detailed hazard profiles for the planning area are provided in Section 3. La Habra is located inland and therefore is not subject to coastal hazards, such as coastal storms/erosion and tsunamis. However, the City is subject to most of the other hazards identified for the planning area. Many of these hazards are dispersed and may affect the entire region, including climate change, drought, ground shaking from earthquakes, geologic hazards, and high wind. The City contains small areas in the high or very high fire hazard severity zones. Small areas of the City are located in the 100-year and the 500-year flood zones. The City also contains hills that are susceptible to landslides. Human-caused hazards and power outages are also hazards that could impact the City. There are no dams within the City and the City is not located within an inundation area of any dams. There are no hazards that are unique to La Habra.

Based on the risk assessment, the La Habra development team identified the following hazards that affect La Habra and summarized their geographic extent, probability of future occurrence, magnitude/severity and significance; refer to Table H-1.

**Table H-1
La Habra Hazard Identification**

Hazard	Geographic Extent	Probability of Future Occurrences	Magnitude/Severity	Significance
Climate Change	Extensive	Likely	Limited	Medium
Contamination/ Salt Water Intrusion	Limited	Unlikely	Limited	Low
Drought	Significant	Likely	Limited	Medium
Earthquake Fault Rupture & Seismic Hazards	Extensive	Likely	Catastrophic	High
Flood	Limited	Occasional	Limited	Low
Geologic Hazards	Significant	Unlikely	Limited	Low
High Winds/Santa Ana Winds	Extensive	Highly Likely	Limited	Medium
Landslide/Mudflow	Limited	Unlikely	Negligible	Low
Wildland/Urban Fire	Significant	Likely	Critical	High
Human-Caused Hazards	Limited	Unlikely	Negligible	Medium
Power Outage	Extensive	Highly Likely	Critical	High
Geographic Extent Limited: Less than 10% of planning area Significant: 10-50% of planning area Extensive: 50-100% of planning area Probability of Future Occurrences Highly Likely: Near 100% chance of occurrence in next year, or happens every year. Likely: Between 10 and 100% chance of occurrence in next year, or has a recurrence interval of 10 years or less. Occasional: Between 1 and 10% chance of occurrence in the next year, or has a recurrence interval of 11 to 100 years. Unlikely: Less than 1% chance of occurrence in next 100 years, or has a recurrence interval of greater than every 100 years.		Magnitude/Severity Catastrophic—More than 50 percent of property severely damaged; shutdown of facilities for more than 30 days; and/or multiple deaths. Critical—25-50 percent of property severely damaged; shutdown of facilities for at least two weeks; and/or injuries and/or illnesses result in permanent disability. Limited—10-25 percent of property severely damaged; shutdown of facilities for more than a week; and/or injuries/illnesses treatable do not result in permanent disability. Negligible—Less than 10 percent of property severely damaged, shutdown of facilities and services for less than 24 hours; and/or injuries/illnesses treatable with first aid. Significance Low: Minimal potential impact Medium: Moderate potential impact High: Widespread potential impact		

The identification of hazards provided in Table H-1 is highly dependent on the location of facilities within each agencies jurisdiction and takes into consideration the history of the hazard and associated damage (if any), information provided by agencies specializing in a specific hazard (e.g., FEMA, California Geological Survey), and relies upon each agencies' expertise and knowledge.

Hazard Maps

The following maps show the location of hazard zones within the jurisdiction relative to either potable water or wastewater systems, as applicable.

VULNERABILITY AND RISK ASSESSMENT

Assets Susceptible to Hazard Events

Table H-2, La Habra Infrastructure and Exposure to Hazards, identifies La Habra’s water and wastewater infrastructure assets that are located within the mapped hazard zones, identified above.

**Table H-2
La Habra Infrastructure and Exposure to Hazards**

Hazard		Infrastructure Type					
		Interties (#)	Pump Stations (#)	Reservoirs (#)	Wells (#)	Potable Pipeline (miles)	Wastewater Pipeline (miles)
Fire Hazard Zone	Moderate	0	0	0	0	0.4	0
	High	0	0	0	0	0.4	0
	Very High	0	2	3	0	0.4	0
FEMA Flood Zone	100-Year	1	0	0	0	0.2	1.0
	500-Year	0	0	0	0	0.7	1.2
Alquist-Priolo Rupture Zone		0	0	0	0	0.5	0
Ground Shaking	Moderate	0	0	0	0	0	0
	High	0	0	0	0	0	0
	Extreme	4	7	3	3	130	120
Liquefaction	Moderate	1	0	0	0	3.7	2.6
	High	0	0	0	0	0	0
	Very High	0	0	0	0	0	0
	Unknown	0	0	0	1	1.0	1.4
Landslide Zone		0	0	1	0	0.1	0

A small portion of the City’s potable water lines are located within areas identified at risk for flooding. Several infrastructure types are located within areas identified as being at risk for very high fire hazards and for extreme ground shaking in the event of an earthquake.

CAPABILITIES ASSESSMENT

The capabilities assessment is designed to identify existing local agencies, personnel, planning tools, public policy and programs, technology, and funds that have the capability to support hazard mitigation activities and strategies outlined in this Plan. The La Habra internal development team revised the capabilities identified in the 2012 plan and collaborated to identify current local capabilities and mechanisms available to the MA for reducing damage from future hazard events. Tables H-3a through H-3d assess the authorities, policies, programs, and resources that the jurisdiction has in place that are available to help with the long-term reduction of risk through mitigation. These capabilities include planning and regulatory tools, administrative and technical resources, financial resources, and education and outreach programs. The agency has the ability to create or expand existing policies and programs to implement mitigation programs.

**Table H-3a
Planning and Regulatory Capabilities Summary**

Ordinance, Plan, Policy, Program	Responsible Agency or Department	Description/Comments
Building Code	Community Development, Building and Safety Divisions; City of La Habra	Under State Law, structures must be built pursuant to locally adopted building codes. This is accomplished through the implementation of the California Building and Fire Codes as well as construction, quality of materials, use and occupancy, location and maintenance of all buildings and structures within the City of La Habra. Continually updated and maintained.
Zoning Ordinance	Community Development and Planning Divisions; City of La Habra	The Planning Division provides information regarding the City's zoning and land use regulations and development standards. The Planning Division coordinates with other City departments in the review of new development projects for regulatory compliance. The Division also analyzes projects and prepares and presents reports to the Planning Commission for its bimonthly meetings. Other responsibilities include the creation and updating of maps for the public and all City departments including address and street maps, zoning maps and general plan maps.
Subdivision Ordinance or Regulations	Community Development and Planning Division; City of La Habra	Adhere to county and city ordinances and regulations.
Special Purpose Ordinance	County of Orange, Army Corps of Engineers, Regional Water Quality Control Board, U.S. Fish and Wildlife Service	Adhere to regulatory agency's ordinances.
Growth Management Ordinances	Community Development and Planning Divisions; City of La Habra	A set of techniques used by government to ensure that as the population grows that there are services available to meet their demands.
Site Plan Review Requirements	Community Development, Planning, Building & Safety Divisions; City of La Habra	The Planning Division coordinates with other City departments in the review of new development projects for regulatory compliance. The Division also analyzes projects and prepares and presents reports to the Planning Commission for its bimonthly meetings.
General Plan	Community Development Division; City of La Habra	The General Plan is a binding legal document which is a comprehensive and long-range statement of the general policies and procedures governing the physical development of the planning area. The purpose of the plan is to provide a coordinated and integrated framework for the development and changes within the City's planning area, both public and private, over a long period of time, while providing enough flexibility to account for unforeseen circumstances which may occur in future. General Plan 2035 (Adopted 2014).
Capital Improvements Plan	Engineering and Public Works Division; City of La Habra	Capital improvement plans are derived from the water and sewer master plans, as well as known problems that may develop in between plan updates. Water Master Plan 2018.
Economic Development Plan	Community Development and Economic Development Division; City of La Habra	Economic development is the sustained, concerted actions of policy makers and communities that promote the standard of living and economic health of a specific area.
Emergency Response Plan	La Habra Police Department; Los Angeles County Fire Department; La Habra Water/Sewer Division	The plan is intended to protect the health of employees and the public, limit the impact of a crisis on services and resources, and to ensure a quick recovery following an emergency. NIMS, SEMS, WEROC.
Post-Disaster Recovery Plan	National Incident Management System (NIMS)	The NIMS is a systematic, proactive approach to guide departments and agencies at all levels of government, nongovernmental organizations, and the private sector to work together seamlessly and manage incidents involving all threats.
Real Estate Disclosure Requirements	State Board of Realtors	California sellers must fill out and give the buyers a disclosure form listing a broad range of defects -- such as a leaky roof, deaths that occurred within three years on the property, neighborhood nuisances such as a dog that barks every night, and more. In addition, California sellers must disclose potential hazards from floods, earthquakes, fires, environmental hazards, and other problems, in a Natural Hazard Disclosure Statement. California sellers must also alert buyers to the availability of a database maintained by law enforcement authorities on the location of registered sex offenders.

**Table H-3a [continued]
Planning and Regulatory Capabilities Summary**

Ordinance, Plan, Policy, Program	Responsible Agency or Department	Description/Comments
Caltrans	State of California	The California Department of Transportation is an executive department within the U.S. State of California. Caltrans manages the state highway system and is involved with public transportation systems throughout the state. It supports Amtrak California and the Capitol Corridor.
CA DPH (Security Issues)	Public Works and Water Division, City of La Habra; La Habra Police Department	Cyber threats, hardened facility security, alarms connected through the use of SCADA, vandalism, etc. Vulnerability Assessment.
Title M & 22 (potable)	USPEPA	Drinking water regulations.
Water Discharge Requirements	SWRCB/Engineering-NPDES	In general, the Waste Discharge Requirements (WDRs) Program regulates point discharges that are exempt pursuant to Subsection 20090 of Title 27 and not subject to the Federal Water Pollution Control Act. The scope of the WDRs Program also includes the discharge of wastes classified as inert, pursuant to section 20230 of Title 27.

**Table H-3b
Administrative and Technical Capabilities Summary**

Staff/Personnel or Type of Resource	Responsible Agency or Department	Description/Comments
Planner(s) or Engineer(s) with Knowledge of Land Development and Land Management Practices	Public Works/Engineering and Water Divisions; Community Development/Building and Safety Division	The Planning Division provides information regarding the City's zoning and land use regulations and development standards. The Planning Division coordinates with other City departments in the review of new development projects for regulatory compliance. The Division also analyzes projects and prepares and presents reports to the Planning Commission for its bimonthly meetings.
Engineer(s) or Professional(s) Trained in Construction Practices Related to Buildings and/or Infrastructure	Public Works/Engineering, Water Divisions, Community Development, Building and Safety Division, from City of La Habra	Building & Safety also is responsible for the abatement of illegal structures and that structures are maintained in a safe condition. This program helps to ensure that the structures within the City are safe and therefore preserve the City's quality of life and contributing to the City's economic development.
Planners or Engineer(s) with an Understanding of Natural and/or Human - Caused Hazards	Public Works/Engineering and Water Divisions; Community Development/Building and Safety Division	City, county, and agency has planners with expertise in land development practices.
Floodplain manager	County of Orange	The agency coordinates with the County Floodplain Manager.
Surveyors	Public Works and Traffic Engineering, City of La Habra; Contract Services	Contract service providers are on-call.
Staff with Education or Expertise to Assess the Community's Vulnerability to Hazards	WEROC/County of Orange	Work with the County and WEROC to assess vulnerabilities.
Personnel Skilled in GIS and/or HAZUS	CSUF/Center for Demographic Research Public Works/Water Division	The Utility contracts with iWater to provide GIS services for water and sewer. iWater (Contract GIS services).
Emergency Manager	La Habra PD/Public Works-Water Division	
Grant Writers	Public Works/Sr. Admin. Analyst	Grants supporting improvements to the water and sewer infrastructure are prepared by staff or consultants.
Lab Specialist & Lab Staff	Public Works-Water Division	Water quality samples are drawn by a contract service provider. Clinical Lab of San Bernardino (Contract Services).

**Table H-3c
Financial Capabilities Summary**

Financial Resources	Agency or Department	Description/Comments
Capital Improvements Project Funding	Engineering, Public Works, Water Division; City of La Habra	Projects are supported through rates, pay as you go.
Fees for Water, Sewer, Gas, or Electric Service	Public Works, Water Division, Sr. Admin. Analyst, Finance Department; City of La Habra	Rates are structured to support capital, O&M, customer service, and reserves. Raftelis (Contract Services 2017).
Impact Fees for Homebuyers or Developers for New Developments/Homes	Public Works, Water Division, Sr. Admin. Analyst; City of La Habra	Based on demand factors. Raftelis (Contract Services 2017).
Incur Debt Through General Obligation Bonds	Public Works/Water Division, Sr. Admin. Analyst, Finance Department; City of La Habra	Utility has used GO bonds to fund the construction of a water treatment plant and two new wells.
Incur debt through special tax and revenue bonds	Public Works, Water Division, Sr. Admin. Analyst, Finance Department; City of La Habra	Utility has not incurred debt through special tax and revenue bonds.
Incur Debt Through Private Activity Bonds	Public Works, Water Division, Sr. Admin. Analyst, Finance Department; City of La Habra	Utility has not incurred debt through private activity bonds.
Withhold Spending in Hazard-Prone Areas	Public Works, Water Division, Sr. Admin. Analyst, Finance Department; City of La Habra	Utility has not withheld spending in hazard prone areas.
Grants	Public Works, Water Division, Sr. Admin. Analyst; City of La Habra	Applications are prepared by staff and/or consultants.

**Table H-3d
Education and Outreach Capability Summary**

Resource/Programs	Agency or Department	Description/Comments
Alert OC	Emergency Management, City of La Habra	The City of La Habra uses AlertOC to keep those who live or work in our city informed of important information during emergency events.
American Red Cross	Emergency Management, City of La Habra	Emergency assistance through volunteers, donations, supplies, etc.
Orange County Red Cross	Emergency Management, City of La Habra	First aid, CPR training, etc.
Ready OC	Emergency Management, City of La Habra	ReadyOC is a Countywide campaign to inform residents and businesses about the importance of preparing for an emergency, whether it be from natural causes, health-related, or man-made.
Community Emergency Response Team	Emergency Management, City of La Habra	The La Habra Police Department, in conjunction with Los Angeles County Fire Department, presents this training to the public. The program was developed to provide basic training in safety and life-saving skills should there be a major disaster.
Water Emergency Response Organization of Orange County	Emergency Management, City of La Habra	The Water Emergency Response Organization of Orange County (WEROC) coordinates and supports an effective emergency response to a major disaster on behalf of all Orange County water and wastewater agencies. To carry out this mission WEROC provides services that promote planning and preparedness activities for both the agencies, as well as its own Emergency Operations Center (EOC) volunteer staff.
Contractual Services	Emergency Management, City of La Habra	The Utility has on-call emergency service providers. Emergency Service Providers.

MITIGATION STRATEGY

Mitigation Goals

La Habra adopts the hazard mitigation goals developed by the Planning Team; refer to Section 4.

Mitigation Actions

The internal development team reviewed the mitigation actions identified in the 2012 plan and the updated risk assessment to determine if the mitigation actions were completed, require modification, should be removed because they are no longer relevant, and/or should remain in the Plan Update. New mitigation actions to address the updated risk assessment and capabilities identified above were also considered and added. Table H-4, La Habra Mitigation Actions, identifies the mitigation actions, including the priority, hazard addressed, risk, timeframe, and potential funding sources.

**Table H-4
La Habra Mitigation Actions**

Priority (High, Medium, or Low)	Action/Task/Project Description	Location/ Facility	Risk (High, Medium, or Low)	Cost	Timeframe (Immediate, Short Term, or Long Term)	Possible Funding Sources	Status/ Progress (New, Existing, Modified)	Status Rationale
Multi-Hazard								
High	Continue inspections to ensure retrofitting is in place.	City Wide	High	Unknown	Immediate/ On Going	Budget	Modified	
High	Continue to use current building and infrastructure codes, standards and guidelines.	City Wide	High	Unknown	Immediate/ Long Term	Budget	Existing	
High	Continue to follow current plans and guidelines.	City Wide	High	Unknown	Long Term	Budget/ CIP	Existing	Acting on 2017 Water Master Plan recommendations.
High	Implement emergency response contracts with outside service providers for water, sewer, and others.	City Wide	High	\$200,000	Immediate	Budget	Existing	Contracts developed and agreements are in place.
High	Replace aging water and sewer infrastructure, improve fire flow capacity.	City Wide	Medium	\$3,000,000/ Yr	Immediate/ Long Term	CIP	New	Annual replacement program.
Medium	Develop and expand cooperation with all outside agencies regarding human caused hazards.	N/A	Medium	Unknown	Short Term	Budget	Existing	Several agreements already in effect. Other opportunities are under consideration.
Medium	Continue and expand education for administrative personnel on possible human caused hazards.	N/A	Medium	Unknown	Short Term	Budget	Existing	

**Table H-4 [continued]
La Habra Mitigation Actions**

Priority (High, Medium, or Low)	Action/Task/Project Description	Location/ Facility	Risk (High, Medium, or Low)	Cost	Timeframe (Immediate, Short Term, or Long Term)	Possible Funding Sources	Status/ Progress (New, Existing, Modified)	Status Rationale
High	Continue and expand OSHA training for all employees who may come in contact with said materials.	Public Works Yard	Medium	<\$3,000/yr	Immediate/ Long Term	Budget	Ongoing	Annual review with employees/outsourced training.
<p>Notes: Timeframe to Completion of Project: "Immediate" is up to 1 year; "Short Term" is 1 to 3 years; "Long Term" is 3 years or longer. Status: "New" refers to a mitigation initiative newly created as part of the plan update process; "Existing" refers to an unfinished initiative that is carried over from the 2012 plan; "Modified" refers to an existing initiative that carried over from the previous plan, but has changed to limit or expand its scope of activities. Status Rationale: A statement of justification as to why the project is currently in the status it is in.</p>								

Completed or Removed Mitigation Initiatives

The following mitigation actions from the 2012 plan have been completed or are in progress and therefore are removed from the Plan update.

Mitigation: Drill a new well to increase pumping from the La Habra Groundwater Basin to further diversify reliability to the City.

Status: Completed July 2012.

Mitigation: Develop additional connection with Cal Domestic Water Company to provide alternative water supplies.

Status: Completed July 2012.

Mitigation: Drill a second well to increase pumping from the La Habra Groundwater Basin to further diversify reliability to the City.

Status: Completed May 2013.

Mitigation: Upgrade SCADA system to include facility monitoring/alarming, water quality monitoring.

Status: Completed August 2012.

PLAN INTEGRATION

La Habra’s General Plan, Capital Improvement Plan, Municipal Code, Water Master Plan, Wastewater Master Plan, Emergency Operations Plan, Grants, and Annual Budgets are all used to implement mitigation initiatives identified in this annex. After adoption of the HMP, the City will continue to integrate mitigation priorities into these documents.

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