DOCKETED	
Docket Number:	15-AFC-02
Project Title:	Mission Rock Energy Center
TN #:	213015
Document Title:	Presentation - Data Request Issues Resolution: Soil and Water Resources
Description:	PowerPoint presentations made by CEC staff at the August 26,2016 public workshop
Filer:	Cathy Hickman
Organization:	California Energy Commission
Submitter Role:	Commission Staff
Submission Date:	8/29/2016 1:10:25 PM
Docketed Date:	8/29/2016

Data Request Issues Resolution: Soil and Water Resources

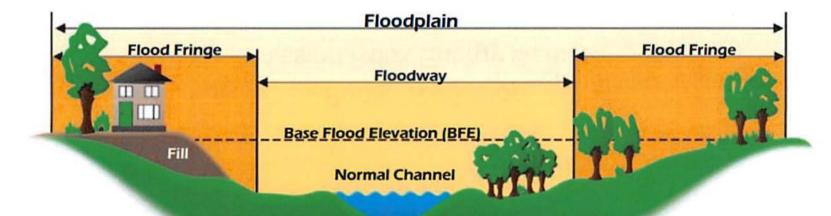
Public Workshop Mission Rock Energy Center (15-AFC-02)

August 26, 2016

Marylou Taylor



100-Year Floodplain





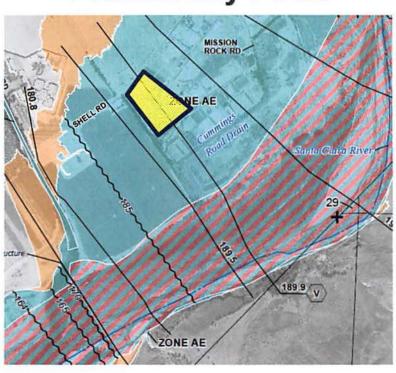
FEMA Map Update

2010 Effective FIRM



FIRM - Flood Insurance Rate Map

Preliminary FIRM



Regulatory Floodway

100-Year Floodplain
500-Year Floodplain

Project Site



FEMA Map Update

#68 Timing

Request:

- FEMA map update
- Floodplain development permit

Need: Inform Committee of possible delays in start of operations.

Intent: Explain the permit process and expected length of time, FEMA's role, and where commissioning and start of operations fit in.

#69 Base Flood Elevation

AFC: Floodplain 191.3 feet
All foundations 192.3 feet

Need: Elevation change could affect impacts

<u>Intent</u>: Discuss contingency plan <u>Options</u>:

- Analyze impacts using higher elevation now
- 2. File petition to amend later

Proposed Earthwork

#71 Profiles

Request:

- Earthwork profiles (typical)
- Cross-sections (100-ft intervals)

Need: Preliminary information, similar to Ramp Profiles.

Intent: Show the extent of earthwork required to raise the site. AFC only states "maximum of 10 feet."

#73 Slope Protection

Request:

- Construction profiles (typical)
- Protection from erosion/scour

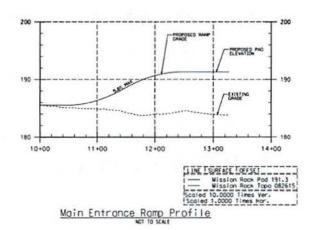
Need: Fill within floodplain is exposed to flood flows.

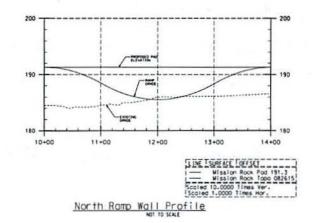
Intent: Describe measures of protection and discuss the potential impacts to implement them

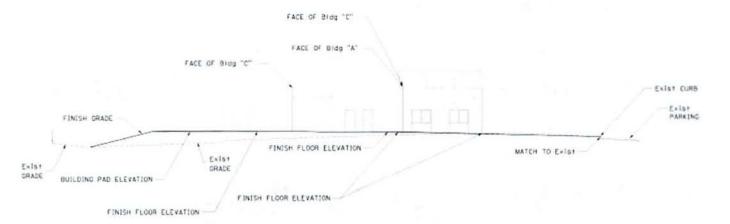
Also for: Linear facilities



Typical Cross Section

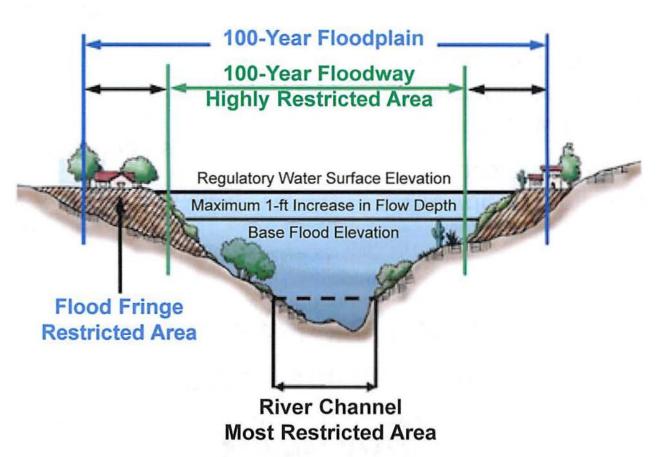








Hydrology





Hydrology

#74 Offsite Impacts #75 Cumulative Impacts

Request:

- Flood characteristics
- Offsite impacts

Need:

CEQA analysis

Intent:

- Provide assumptions used for flood analysis
- Determine whether there are significant impacts to surrounding properties



Recycled Water Source

#80 Permit Status #81 Relevant Information

Limoneira:

- Current LARWQCB permitted end use is irrigation
- Amended permit needed to allow industrial end uses

Need:

The proposed backup water source is onsite storage of Limoneira's recycled water. No other water source is identified.

Intent: Demonstrate that Limoneira is a reliable source of recycled water.

Options:

- Limoneira provides information demonstrating they would be able to amend the permit and deliver recycled water to the project for operation.
- Applicant identifies another primary source, in case supply cannot be from Limoneira.