



# **Central Valley Status Update**

## **Getting to Construction**

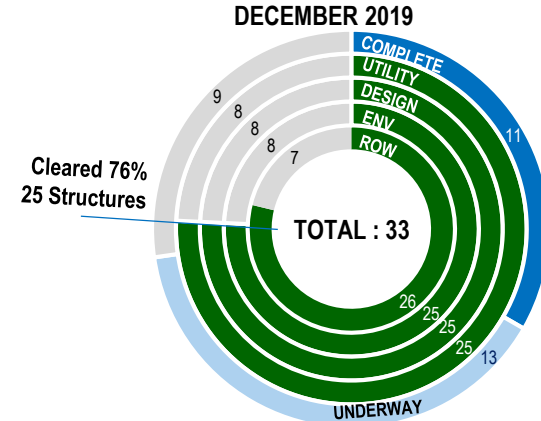
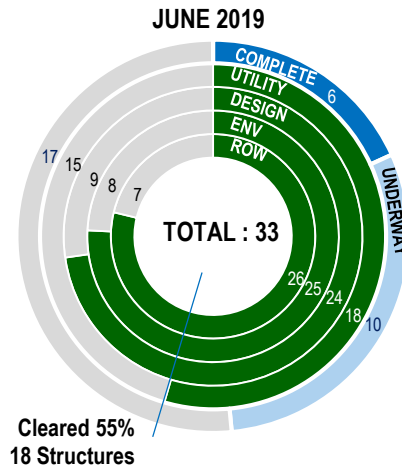
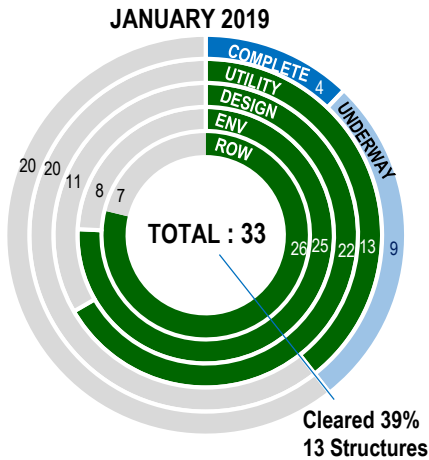
August 16, 2019

June 2019 Data

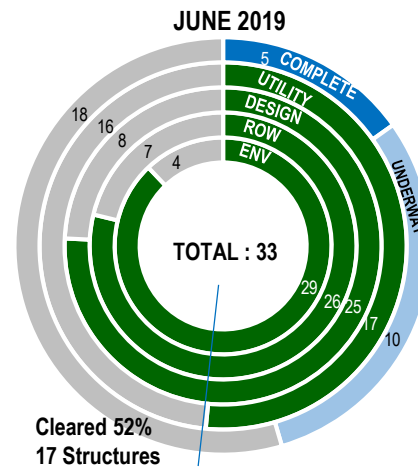
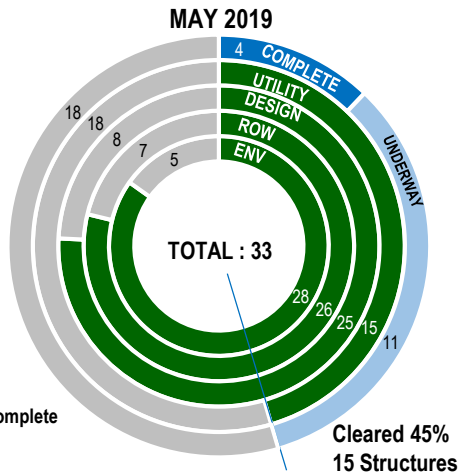
# CP 1 Progress Update

## Forecast vs. Actual - Structures

### CONSTRUCTION CLEARANCE/ PROGRESS FORECAST – NUMBER OF STRUCTURES



### ACTUAL PROGRESS - NUMBER OF STRUCTURES

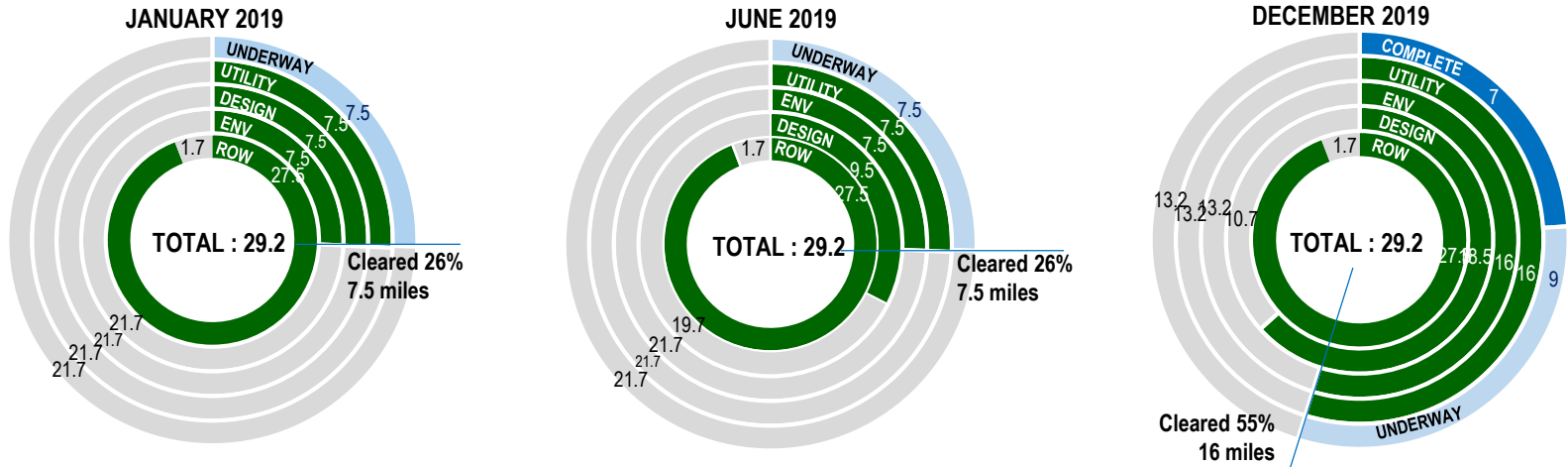


- Cleared for Construction
- Construction Underway
- Construction Substantially Complete
- Remaining

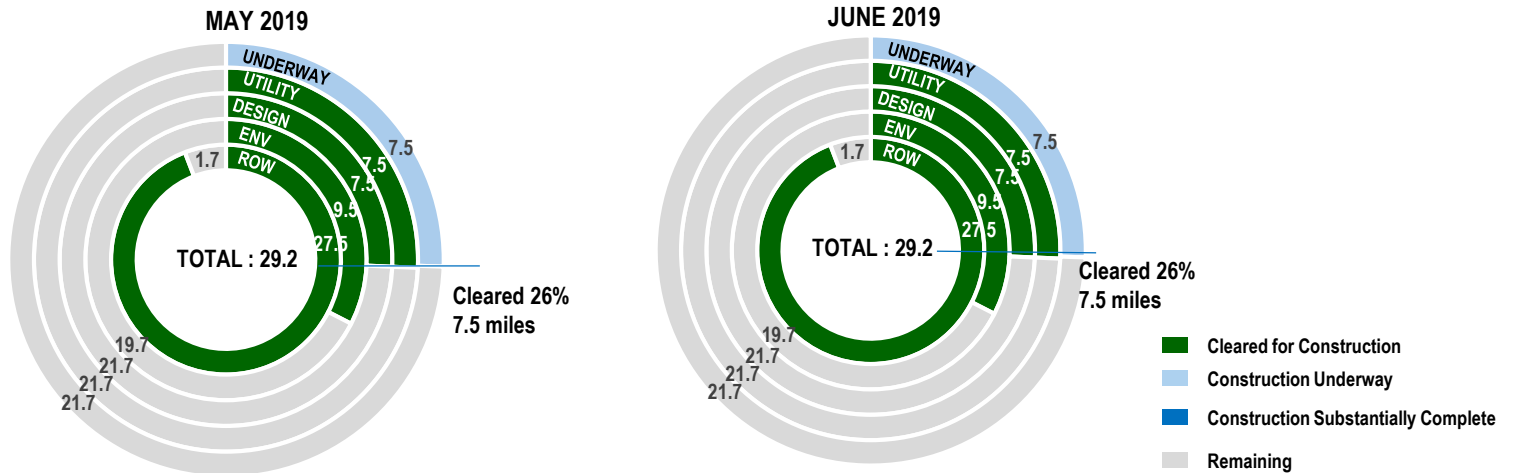
# CP 1 Progress Update

## Forecast vs. Actual - Guideway

### CONSTRUCTION CLEARANCE/ PROGRESS FORECAST – MILES OF GUIDEWAY



### ACTUAL PROGRESS – MILES OF GUIDEWAY

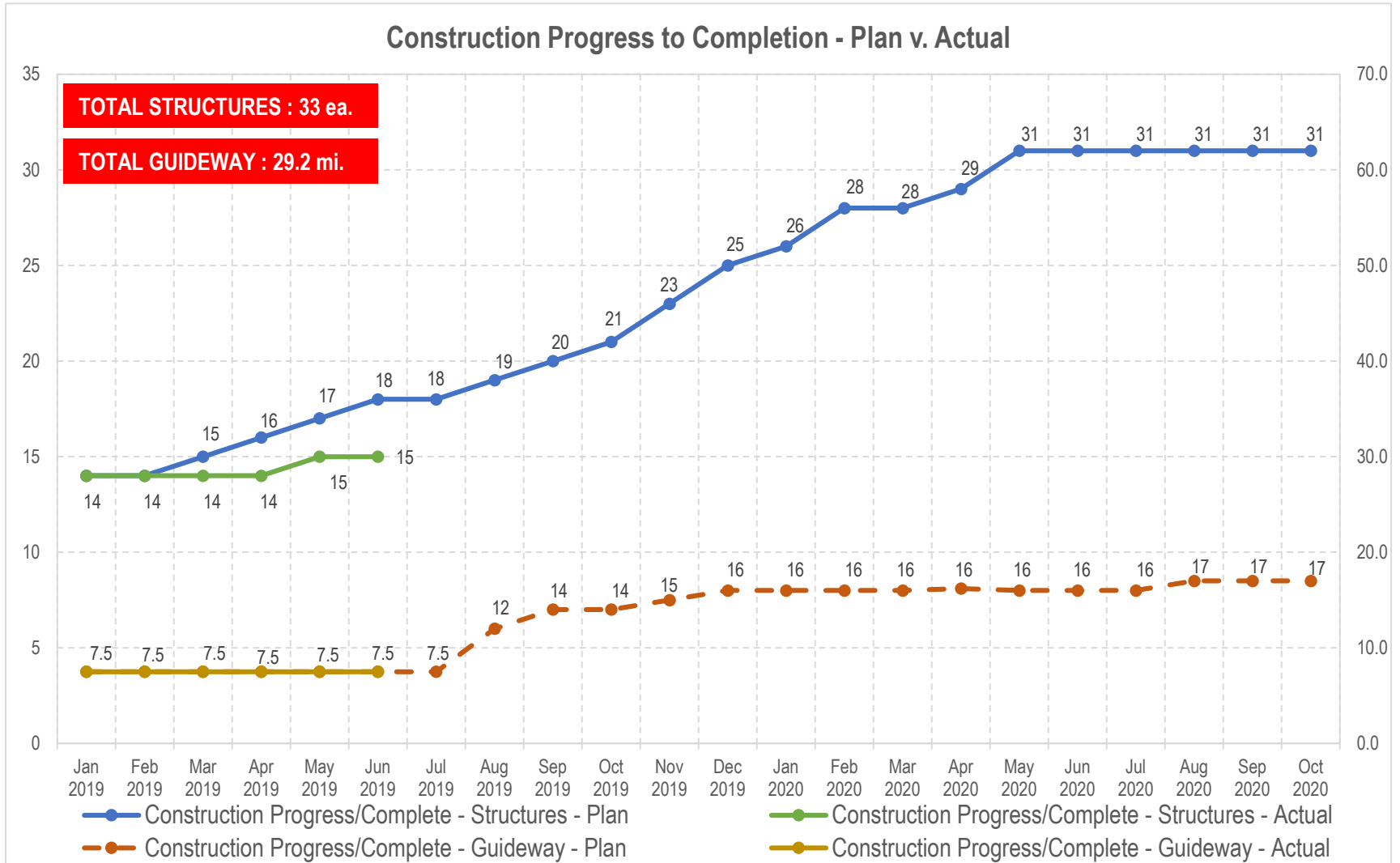


# CP1 – Forecasted vs. Actual Progress Update

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- ▶ Structures – one structure delayed and will be complete by end of summer 2019
  - Avenue 8 Overpass
    - Finalizing construction and maintenance agreement with Madera County
      - Expected resolution by the end of the summer
  
- ▶ Guideway - progressing as forecasted

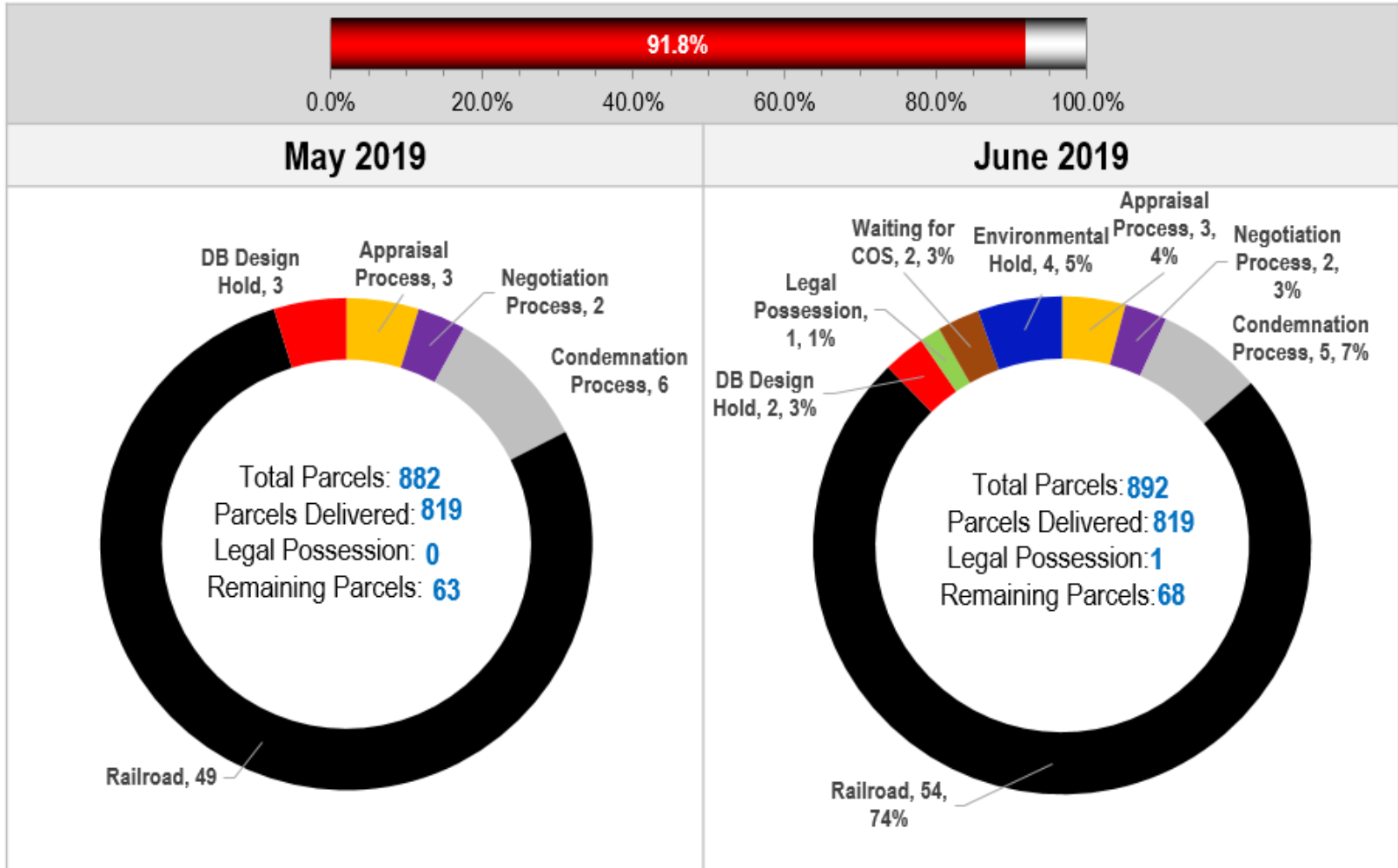
# CP 1 Progress to Completion – Plan vs. Actual



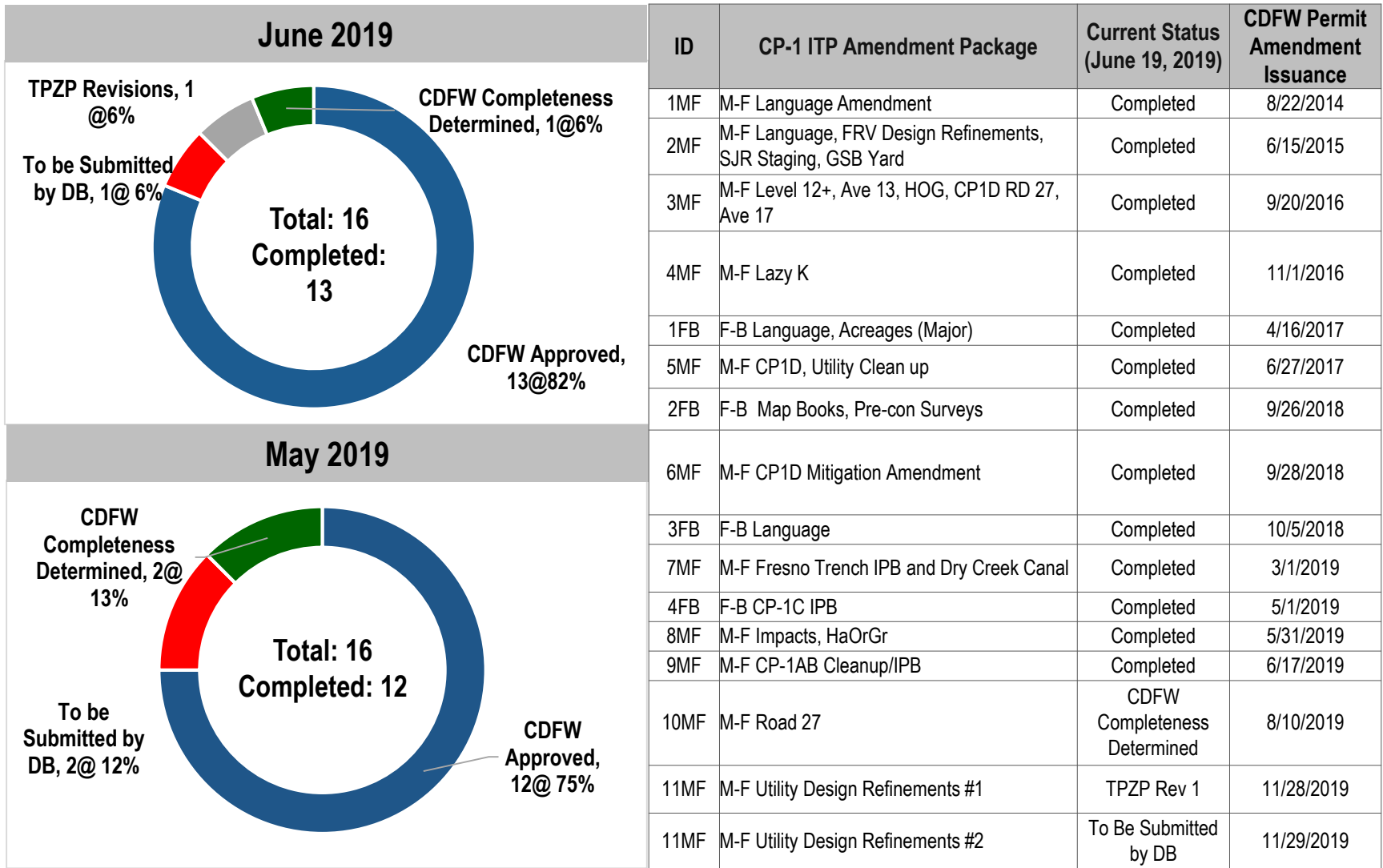
# CP 1 Progress Update

## ROW Acquisition Status

▶ 10 new parcels were identified primarily for utility relocations and railroads

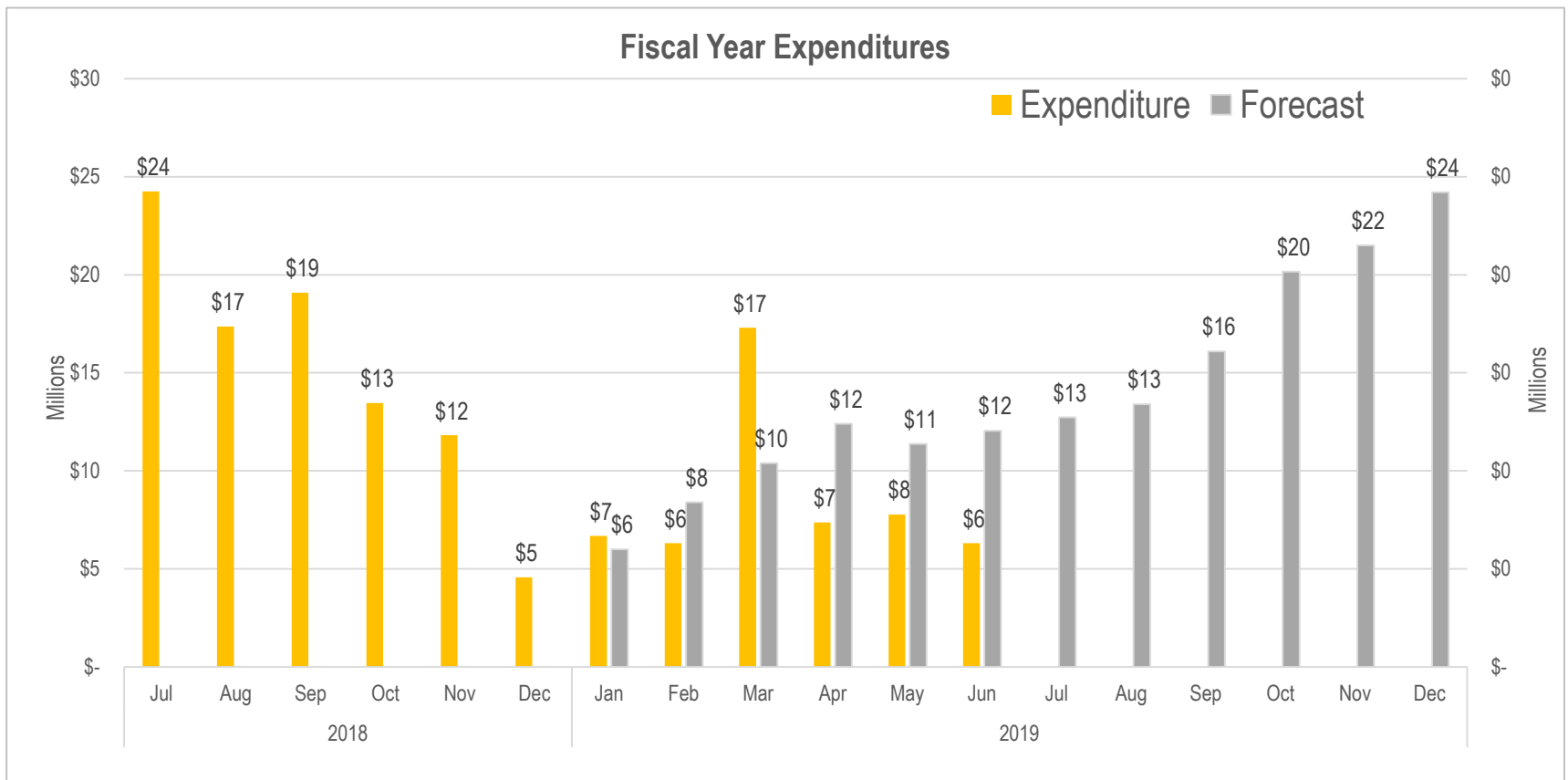


# CP 1 Environmental Clearance – ITP Amendments



# CP 1 Planned vs. Actual Expenditures – Near Term

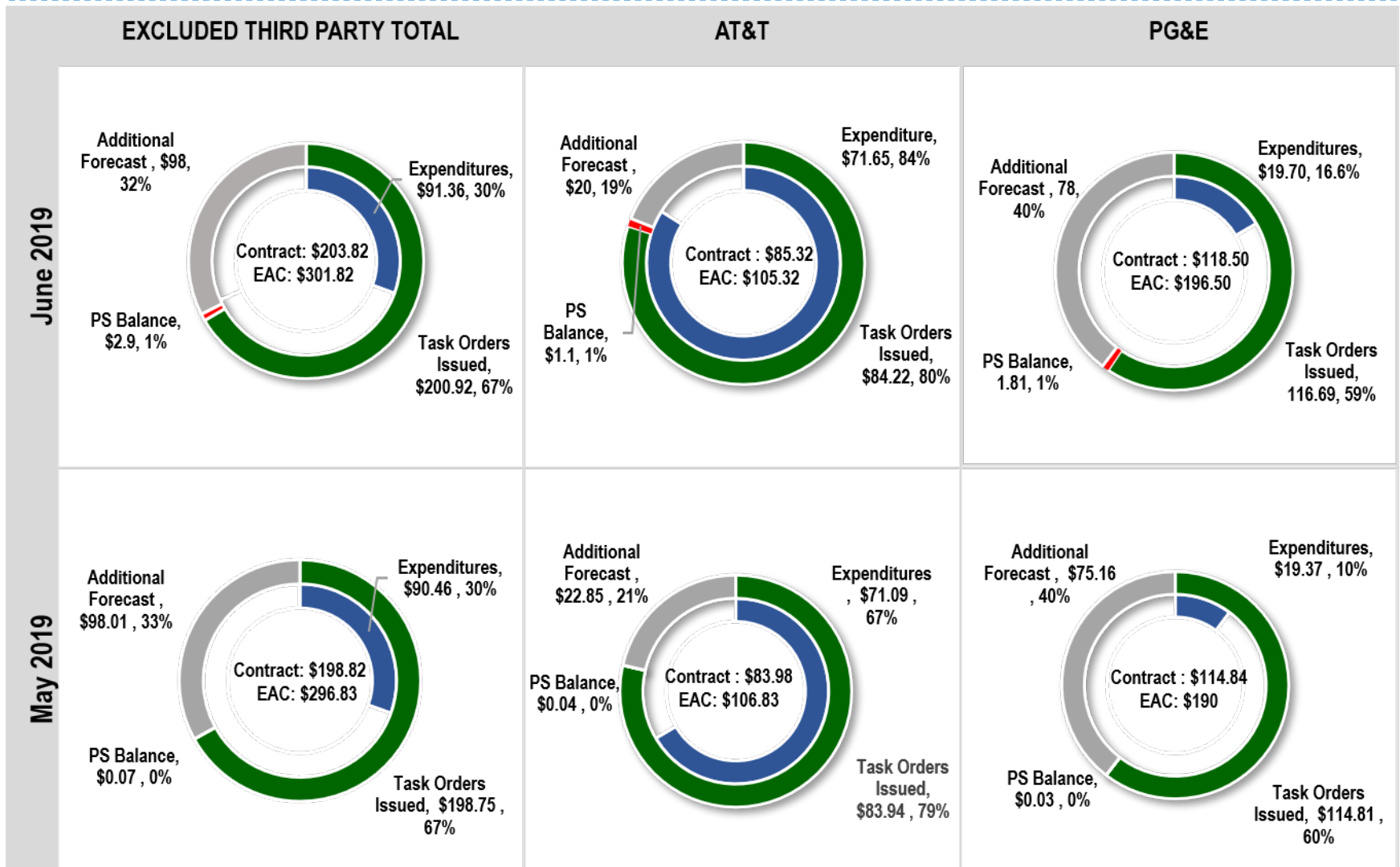
- ▶ Expenditures lower than forecasted due to required redesigns of third party assets and utility relocations.
  - *Mitigation:* Targeting critical design areas and utility relocations to maximize clearance of guideway and structures





# CP 1 Progress Update

## Provisional Sums



# CP 1 Critical Actions – Getting to Construction

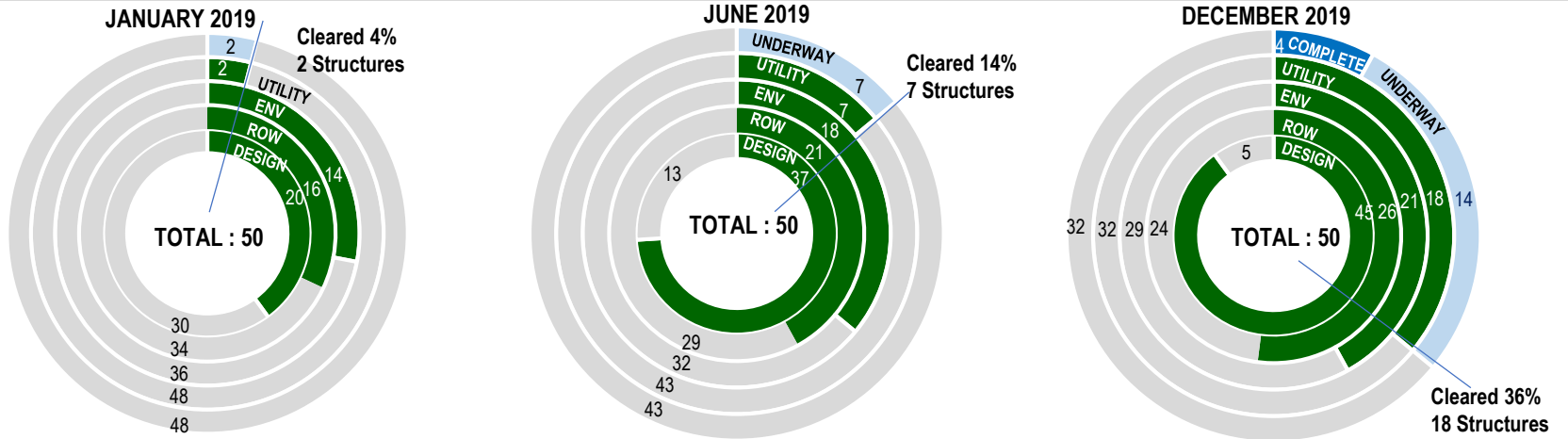
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- ▶ Third Party - Resetting relationships
  - CDFW
    - Intrusion Protection Barrier (IPB) Re-Exam
    - Hairy Orcutt Grass Occupied Pools – signed and executed agreement to commence construction prior to mitigation
  - PG&E – Finalizing design and access issues & complete 6-month shelf reviews
  - Irrigation Districts
    - Finalize construction and post-construction requirements
  - AT&T: Stagger cut-over and DB designed workarounds
  - UPRR Design Variances: Focus Team targeting to resolve quickly
- ▶ Commercial
  - Time Impact Analysis (TIA) to Improve baseline schedule
  - Intrusion Protection Barrier (IPB) System
  - Negotiation underway:
    - Mechanically Stabilized Earth (MSE) Walls
    - Northern Extension
    - Herndon Avenue
- ▶ Design - Engaging Team members to:
  - Resolve utility design and Rail Road variances
  - Finalize designs in cooperation with third-party requirements
- ▶ Utility Provisional Sums: Complete design & start construction
- ▶ ROW – working with DB to identify and acquire DB requested additional ROW for utility relocations

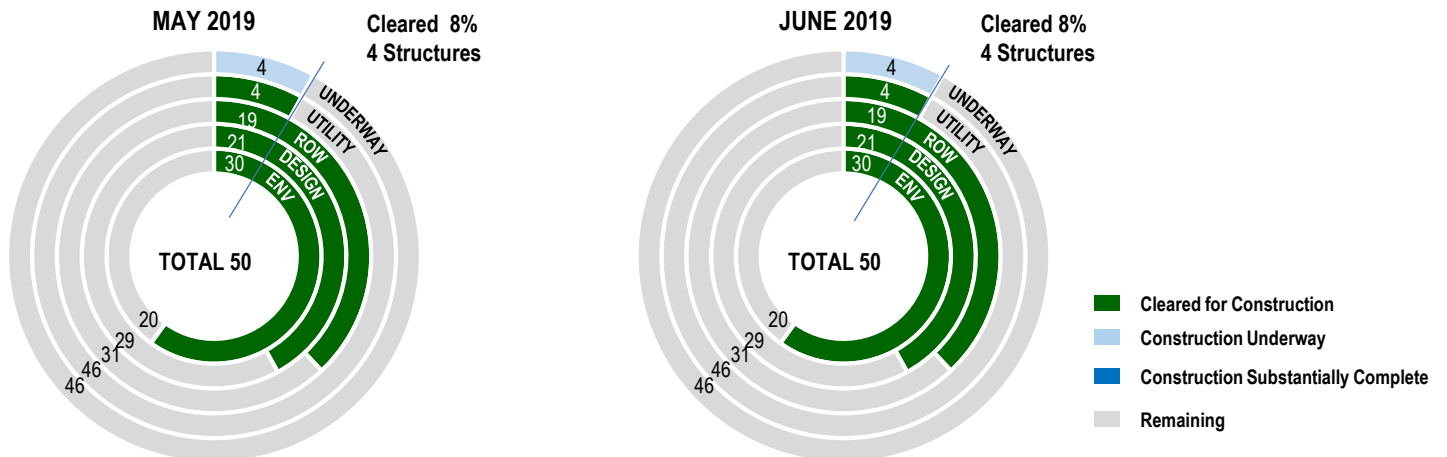
# CP 2-3 Progress Update

## Forecast vs. Actual - Structures

### CONSTRUCTION CLEARANCE/ PROGRESS FORECAST – NUMBER OF STRUCTURES



### ACTUAL PROGRESS - NUMBER OF STRUCTURES

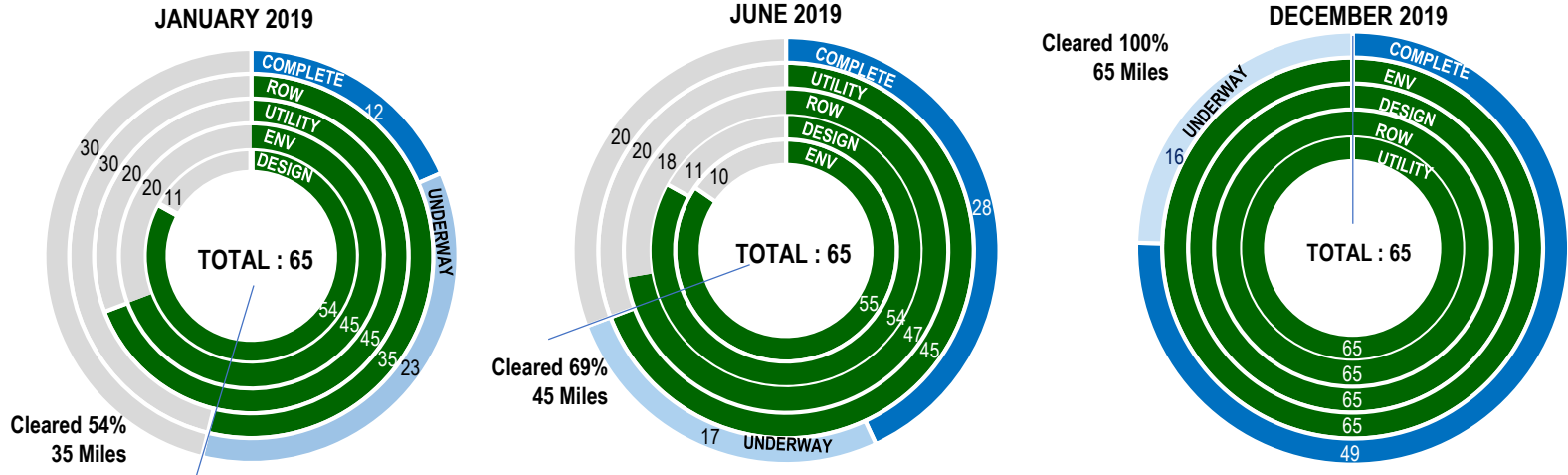


- Cleared for Construction
- Construction Underway
- Construction Substantially Complete
- Remaining

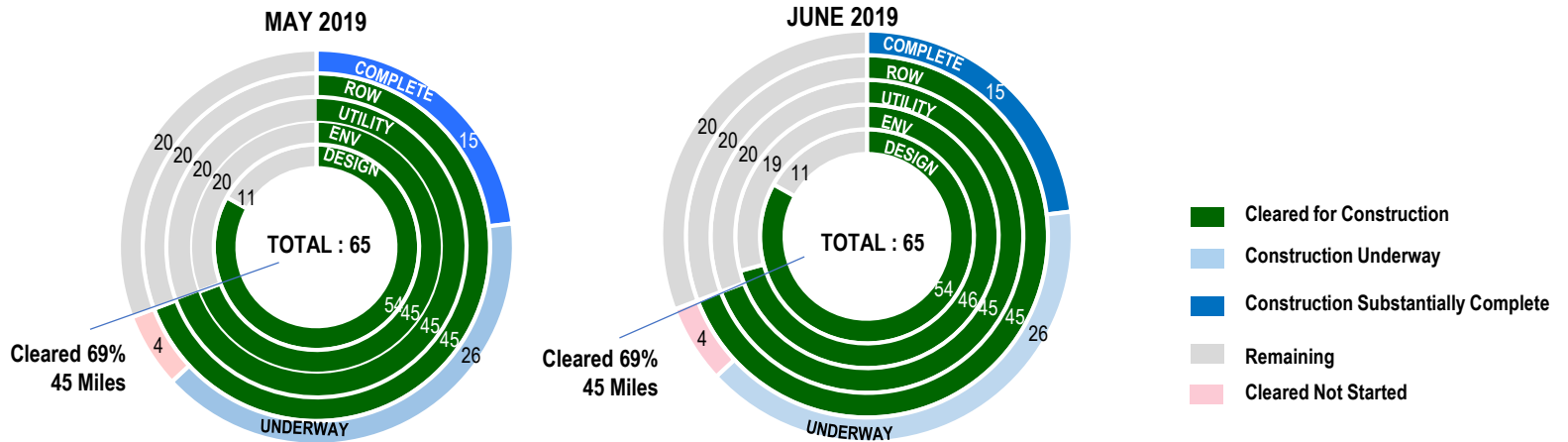
# CP 2-3 Progress Update

## Forecast vs. Actual - Guideway

### CONSTRUCTION CLEARANCE/ PROGRESS FORECAST – MILES OF GUIDEWAY



### ACTUAL PROGRESS – MILES OF GUIDEWAY



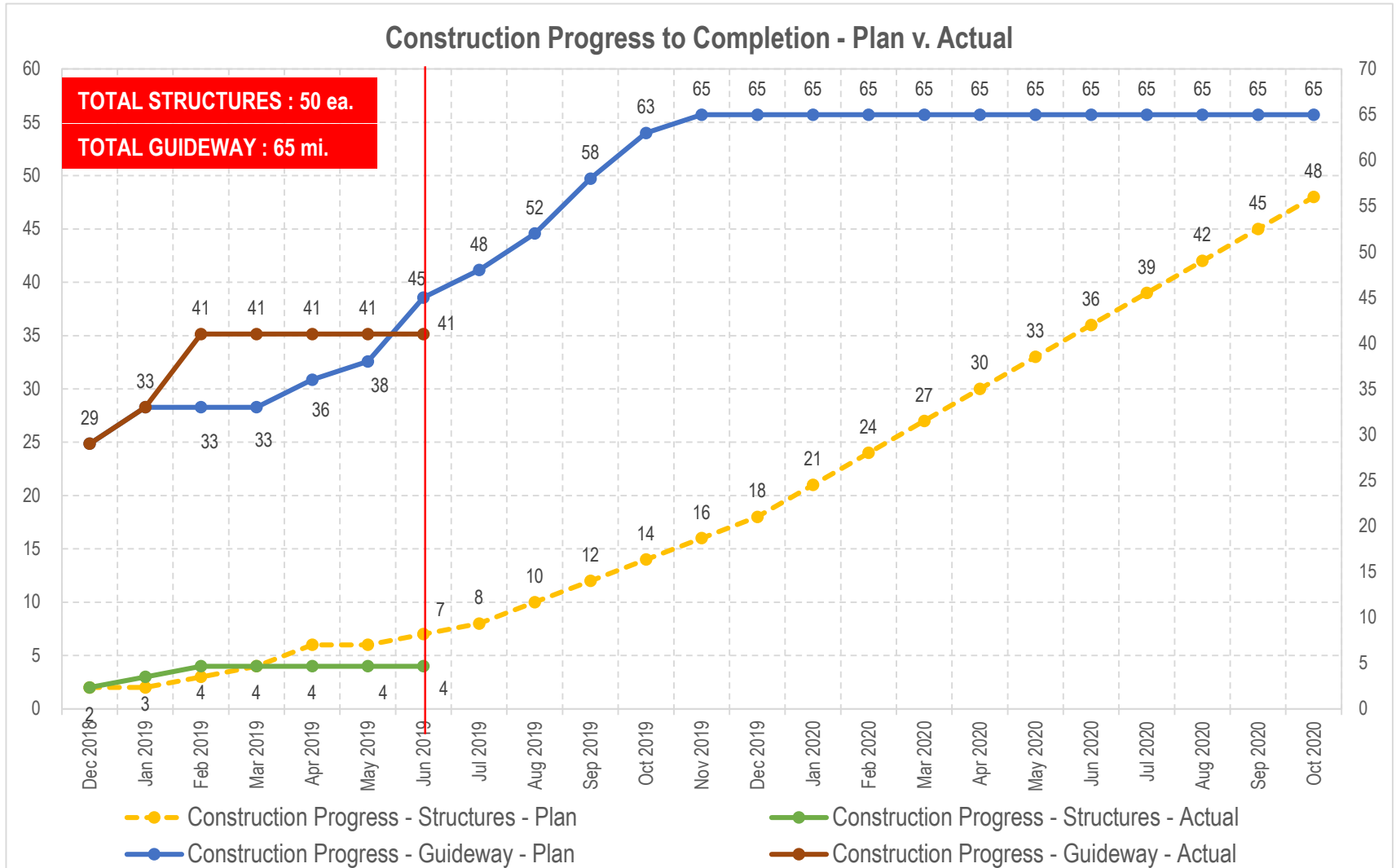
- Cleared for Construction
- Construction Underway
- Construction Substantially Complete
- Remaining
- Cleared Not Started

## CP2-3 – Forecasted vs. Actual Progress Update

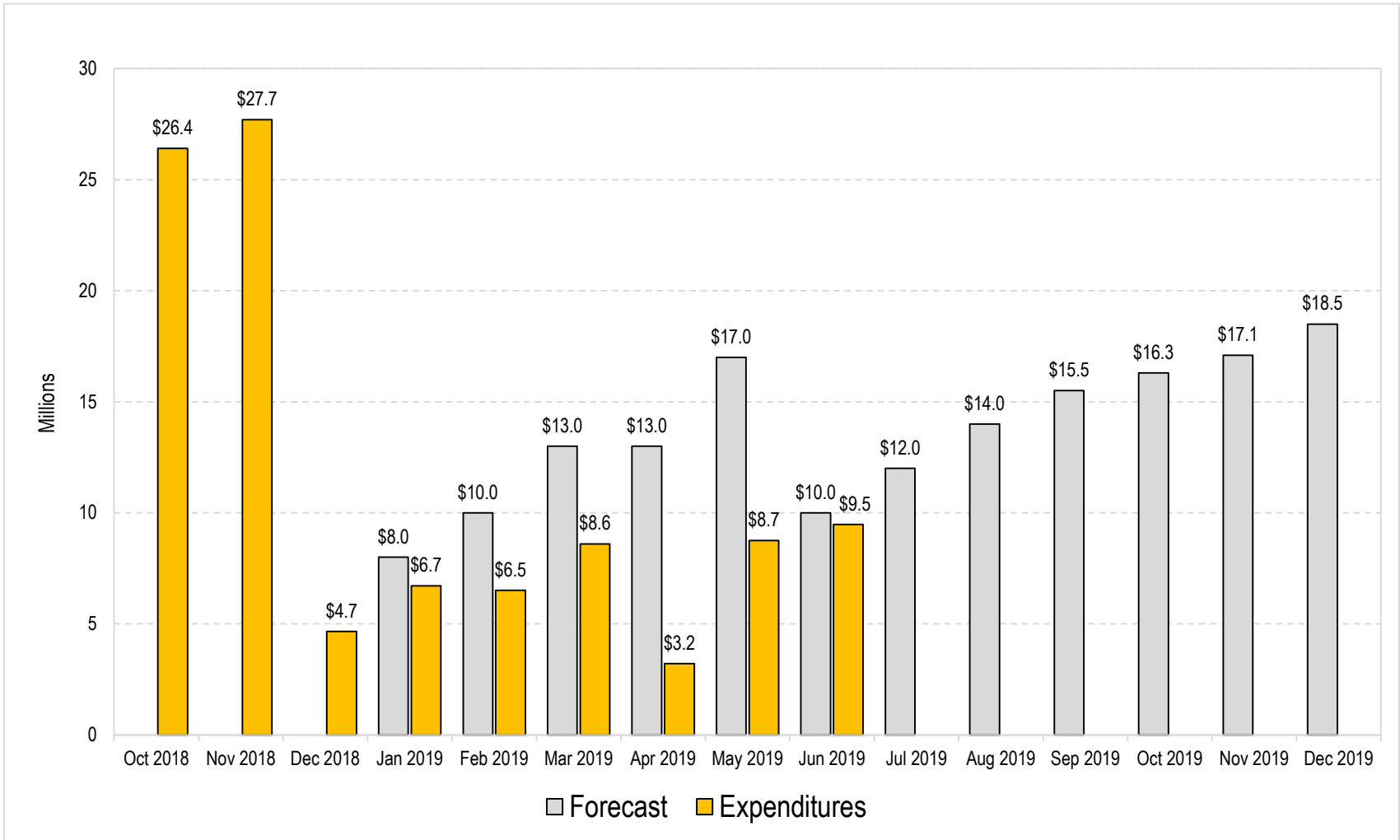
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- ▶ Structures - completion behind forecast
  - Utility relocations - PG&E utility relocations at South, Peach and 9<sup>th</sup> Avenues progressing, work expected to commence July 2019
  - Design – 16 structures behind forecast due to geotechnical issues requiring additional design review
    - Doubling weekly review and comment resolution meetings and expect resolution of design issues in the fall
- ▶ Guideway - completion behind forecast
  - 4 miles of guideway cleared, but not started
    - Identified need for greater analysis of soft soil conditions
    - 3D model development and analysis is underway and expected to be complete by end of summer
  - Environmental Clearance – working with CDFW on outstanding wildlife permeability measures
    - Agreement with CDFW in August for Kings River Complex, Cross Creek/Deer Cree and ITP Amendments expected to be issued over next few months to clear guideway in these areas
  - ROW – Cairo Avenue and Kings River Complex negotiations made great progress
    - Changes in design and newly identified utilities lead to additional pre-acquisition activities

# CP 2-3 Progress to Completion – Plan vs. Actual

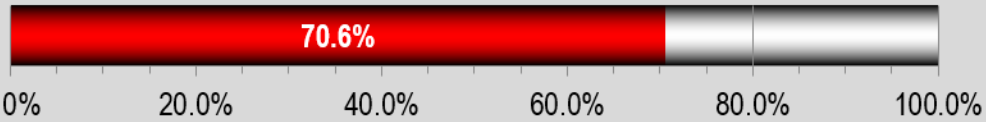


# CP 2-3 Expenditures Near-term – Planned v. Actual

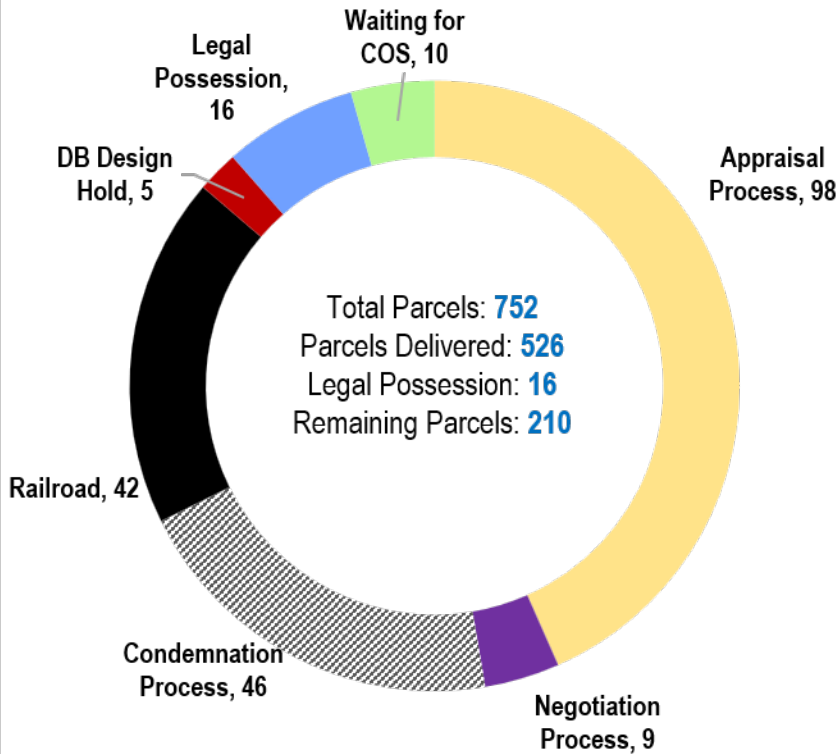


# CP 2-3 Progress Update

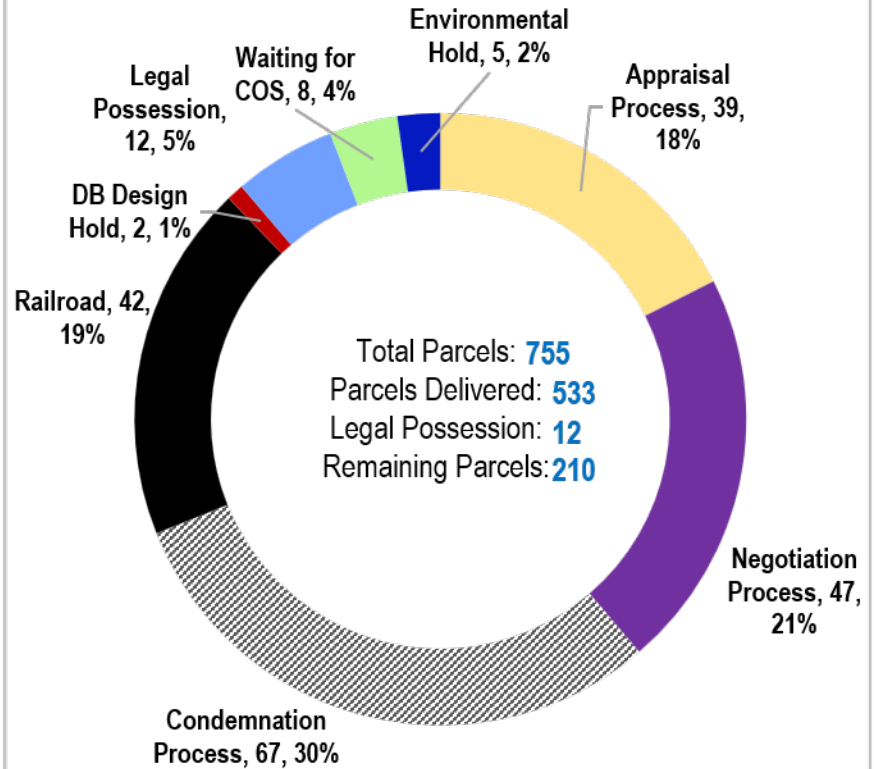
## ROW Acquisition Status



**May 2019**

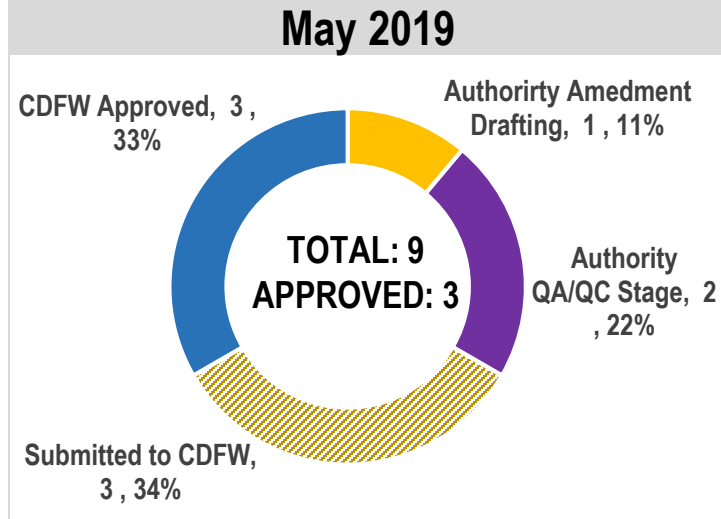
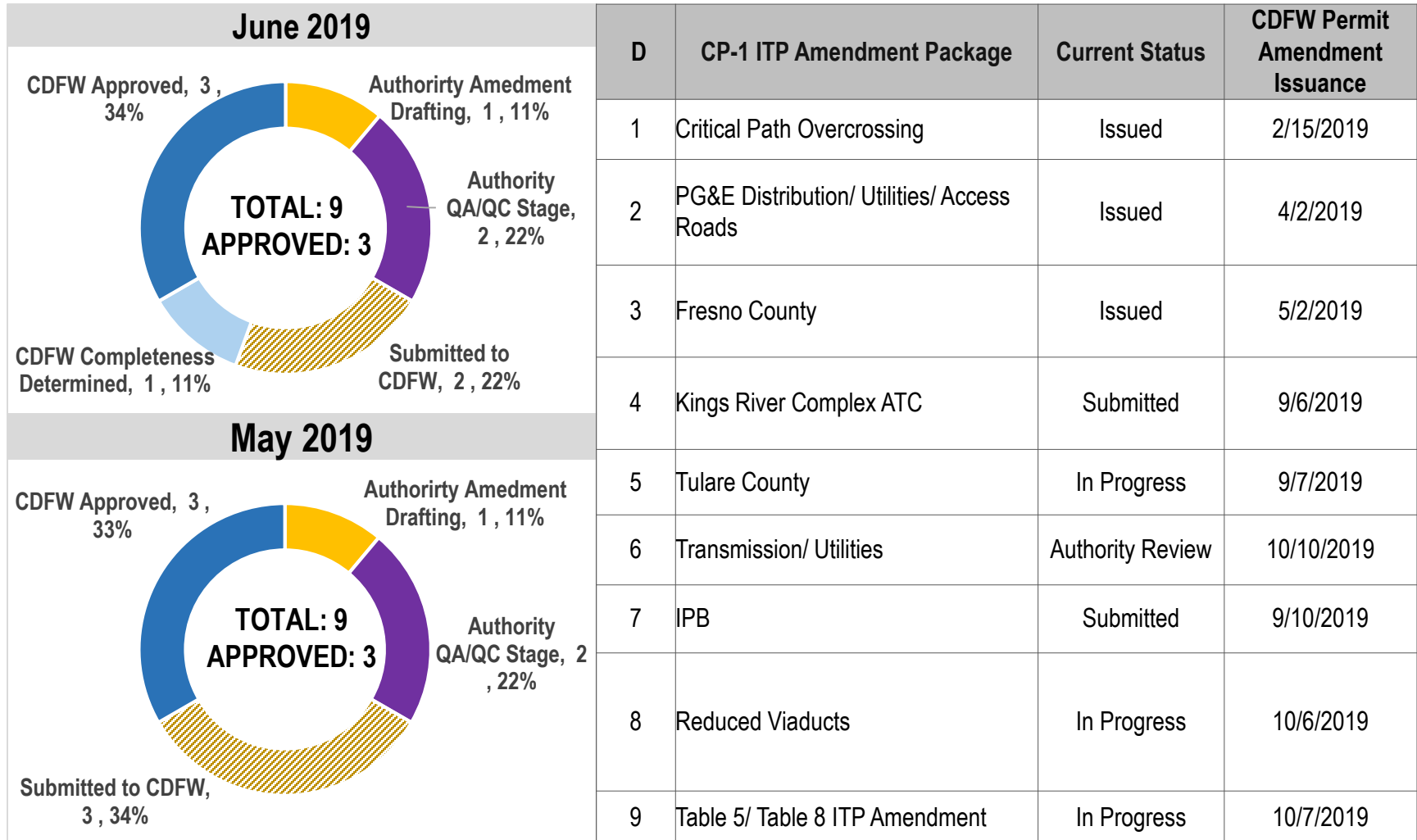


**June 2019**



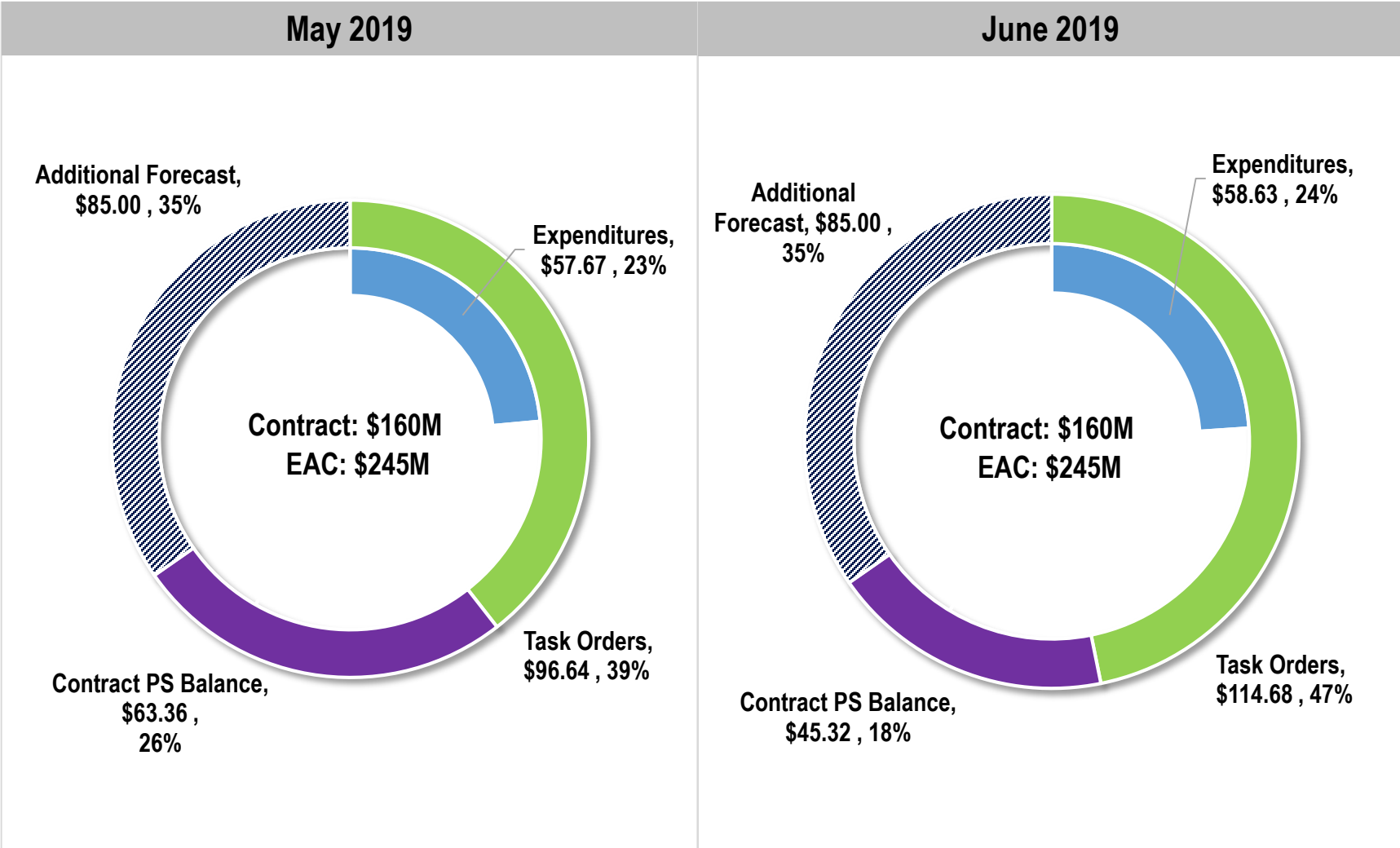


# CP 2-3 Environmental Clearance – ITP Amendments



# CP 2/3 Progress Update

## Provisional Sums



## CP 2-3 Critical Actions – Getting to Construction

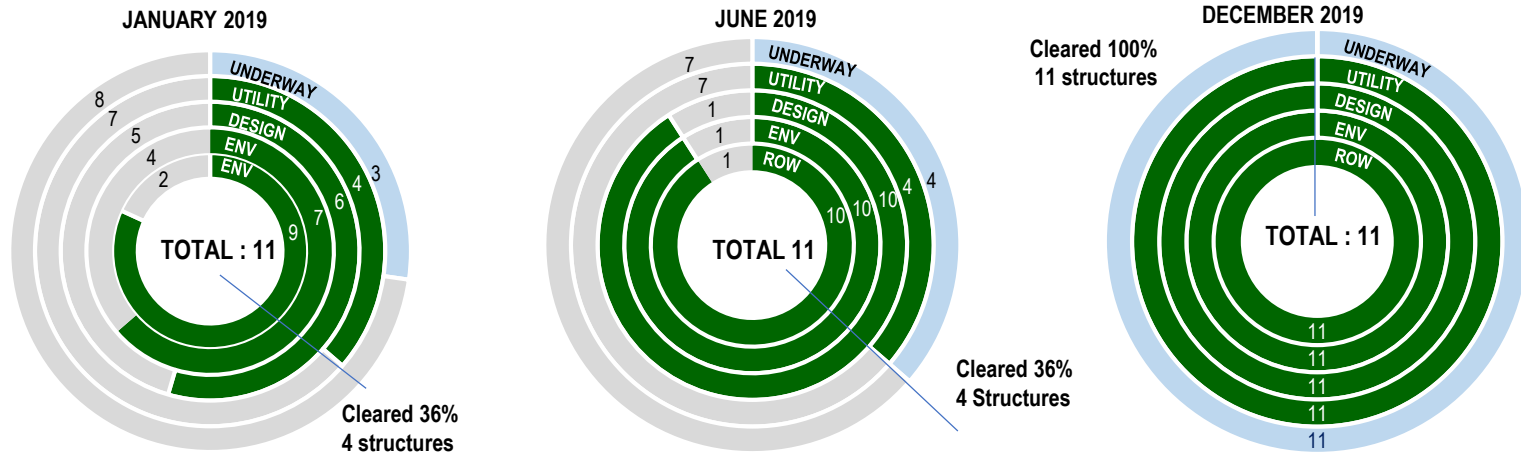
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- ▶ Third Party - Resetting Relationships
  - Fresno County permit – CP Team leader and Regional Director meeting with Fresno County Director monthly to work through issues
  - Kings County
  - Irrigation Districts – execute agreements & approval of CDFW sub-notifications
  - Sempra – optimize design and construction schedules and finalize out grants for Sempra relocated utilities
  - PG&E – reset design and access expectations, move approved packages to construction
  - CDFW
    - Multiple Incidental Take Permit (ITP) amendments being proposed to CDFW to align with Design Builder’s concepts
    - Trapping season has begun for San Joaquin Antelope squirrel
  - BNSF - agreements to be Executed
- ▶ Commercial - Project Change Orders
  - Time Impact Analysis (TIA)
  - Intrusion Protection Barrier (IPB) System
  - Mechanically Stabilized Earth (MSE) Walls
  - Deer Creek and Cross Creek Bridges
- ▶ Design - Form Focus Team to drive completing design in line with ROW and Environmental
- ▶ Utility Provisional Sums: Complete design & start construction
- ▶ ROW - Focus Team targeting DB-identified critical parcels
  - Delivery dates linked to schedule meets or exceeds forecasted delivery date on majority of acquisitions

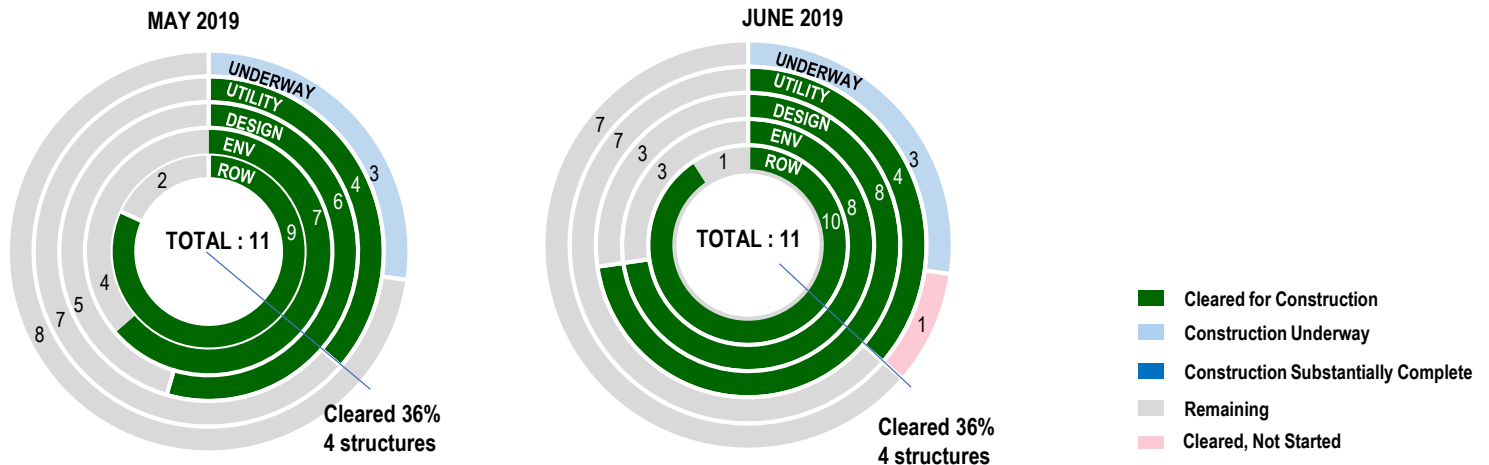
# CP 4 Progress Update

## Forecast vs. Actual - Structures

### CONSTRUCTION CLEARANCE/ PROGRESS FORECAST - NUMBER OF STRUCTURES



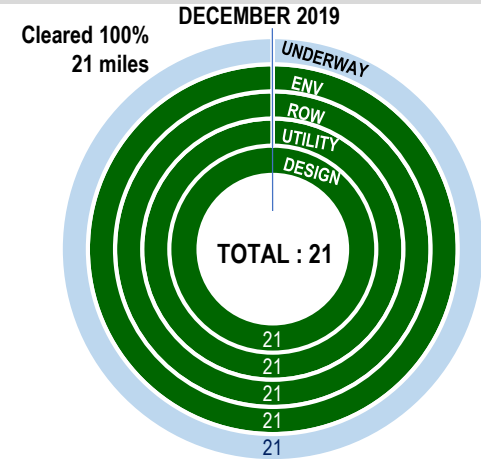
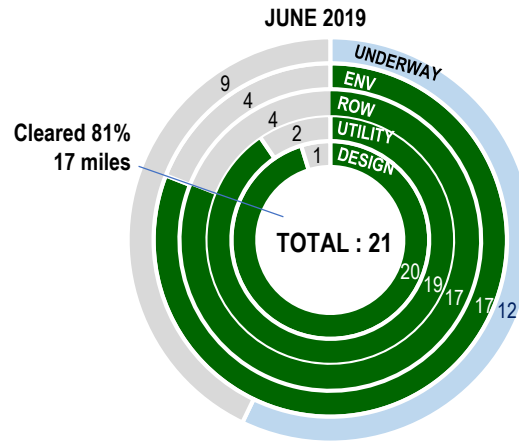
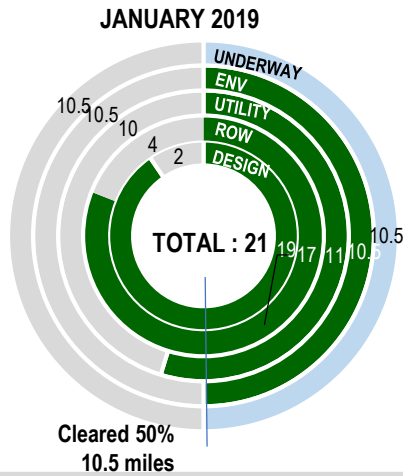
### ACTUAL PROGRESS - NUMBER OF STRUCTURES



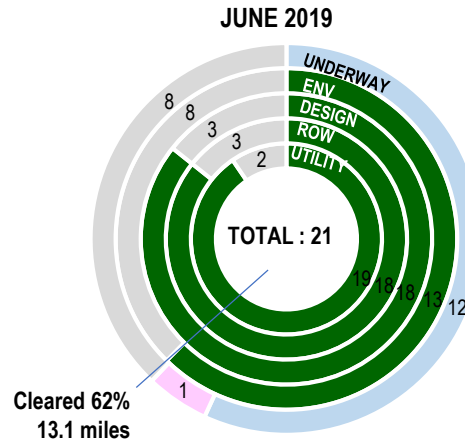
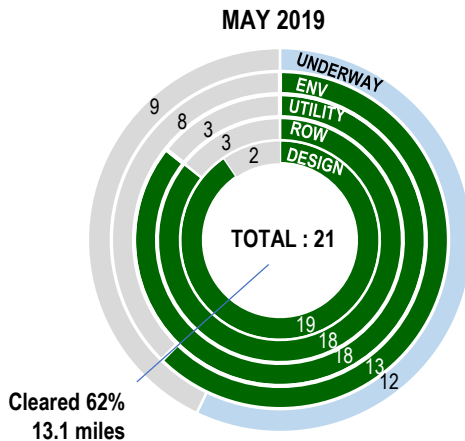
# CP 4 Progress Update

## Forecast vs. Actual - Guideway

### CONSTRUCTION CLEARANCE/ PROGRESS FORECAST – MILES OF GUIDEWAY



### ACTUAL PROGRESS – MILES OF GUIDEWAY



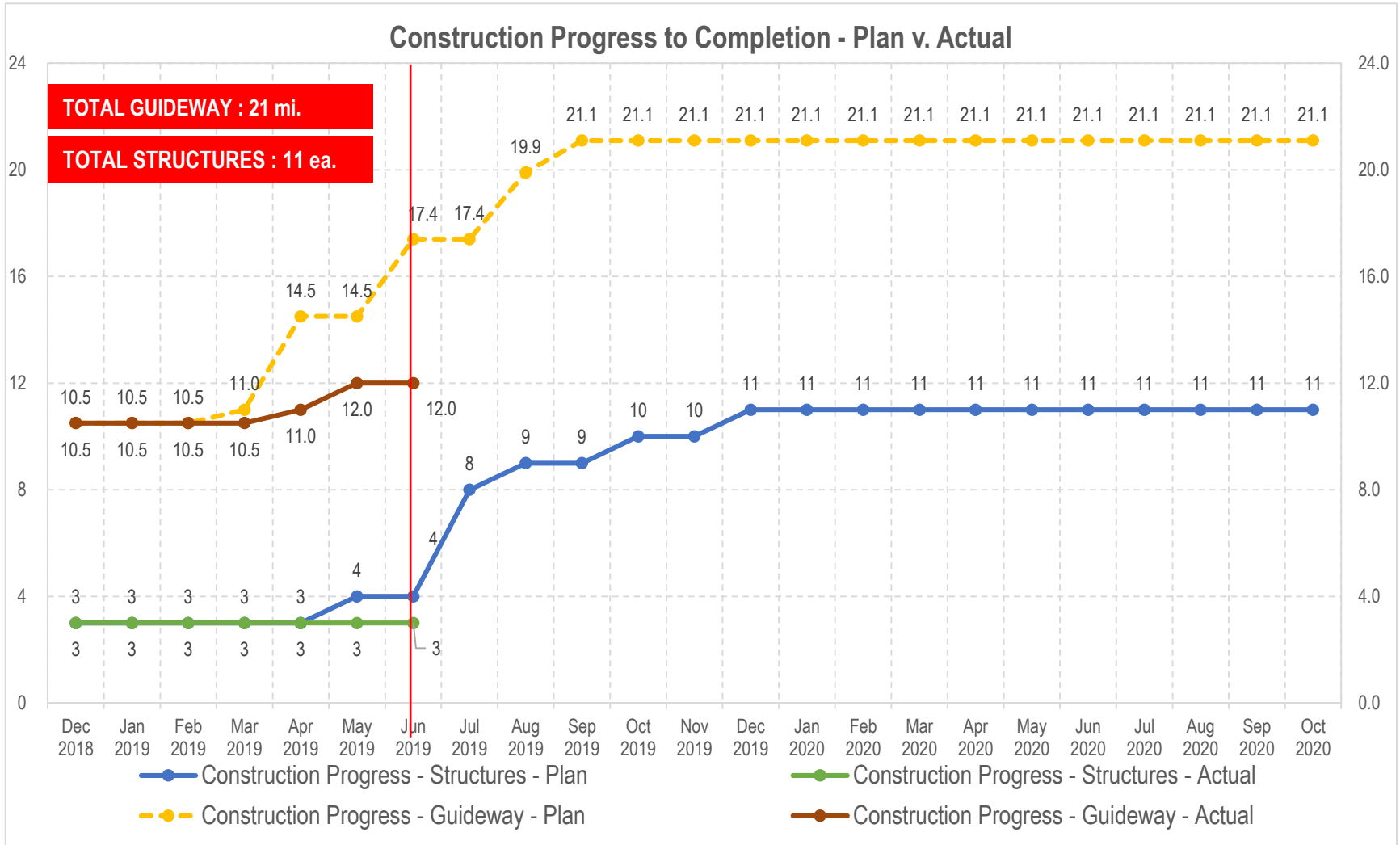
- Cleared for Construction
- Construction Underway
- Construction Substantially Complete
- Remaining
- Cleared, Not Started

## CP4 – Forecasted vs. Actual Progress Update

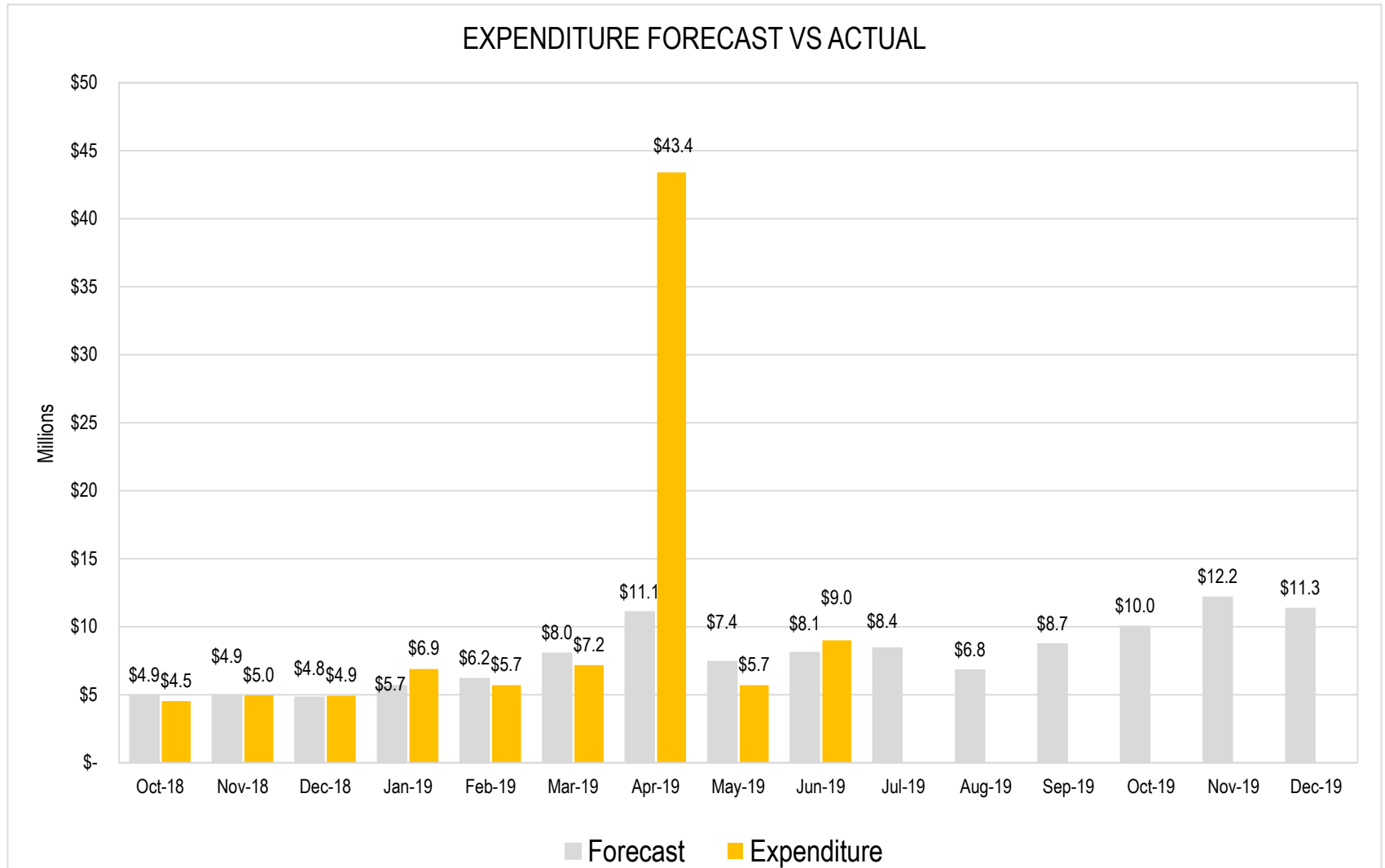
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- ▶ Structures – one structure cleared, not yet started
  - Poso Creek bridge is cleared, not yet started
    - Construction delayed due to environmental requirements for nesting birds
  - Environmental clearance – ITP amendment for SR46 expected to be issued in August, clearing the structure for construction
  - Design - completed on all structures by June except Merced and Poso Avenues
    - Merced Avenue design is at 90% design level
    - Poso Avenue – DB is addressing comments from Wasco
- ▶ Guideway - progressing as forecasted
  - Environmental clearance
    - Resolving CDFW wildlife permeability measures for Wasco-at-grade
    - Additional burrow excavation required to ensure trapping of endangered species
    - Construction delayed due to environmental requirements for nesting birds
  - Design – negotiation with Semitropic Irrigation District expected to be resolved in August, furthering design

# CP 4 Progress to Completion – Plan vs. Actual

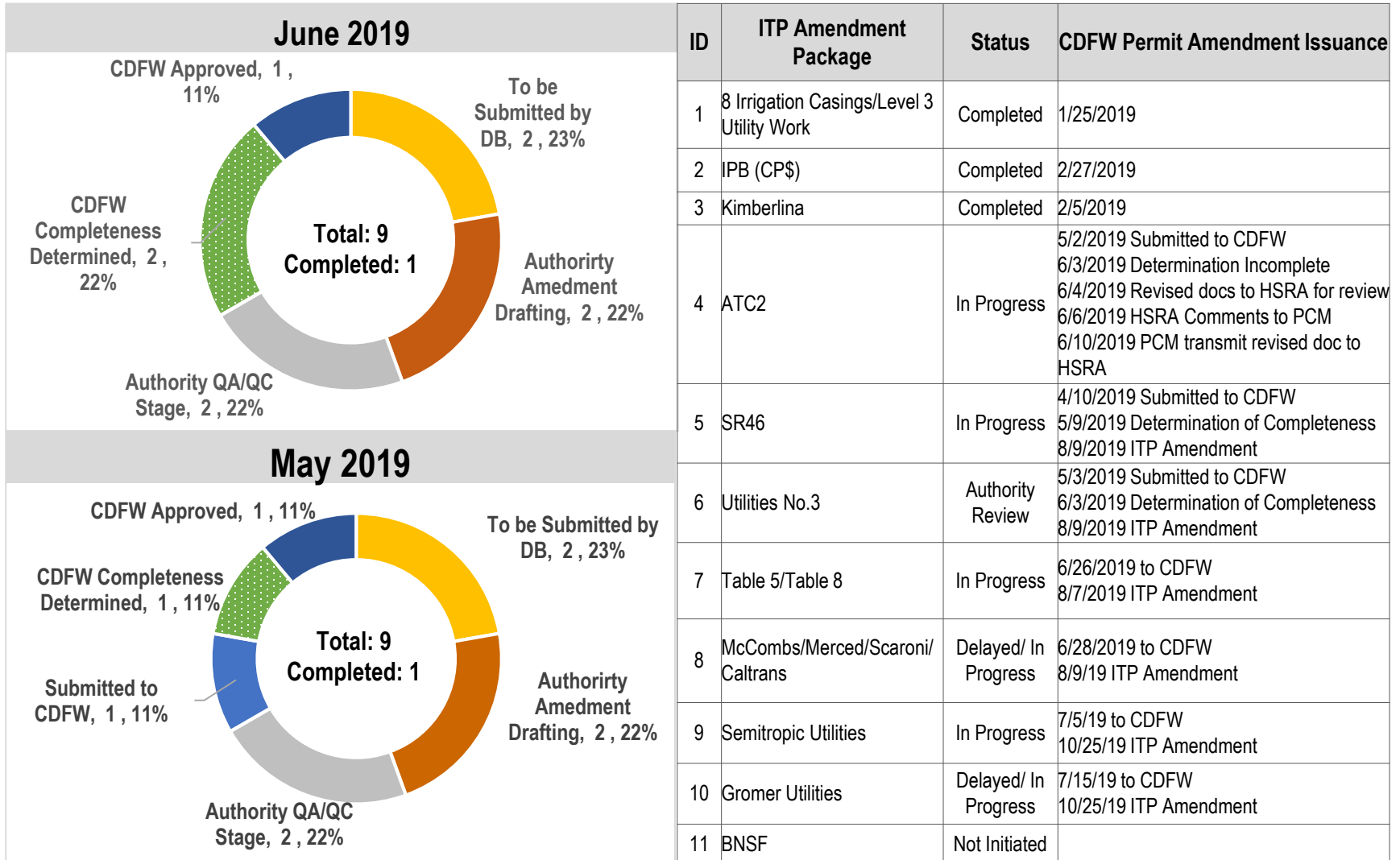


# CP4 Fiscal Year - Planned vs. Actual Expenditures



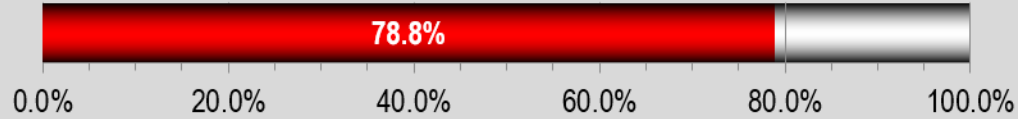


# CP 4 Environmental Clearance – ITP Amendments

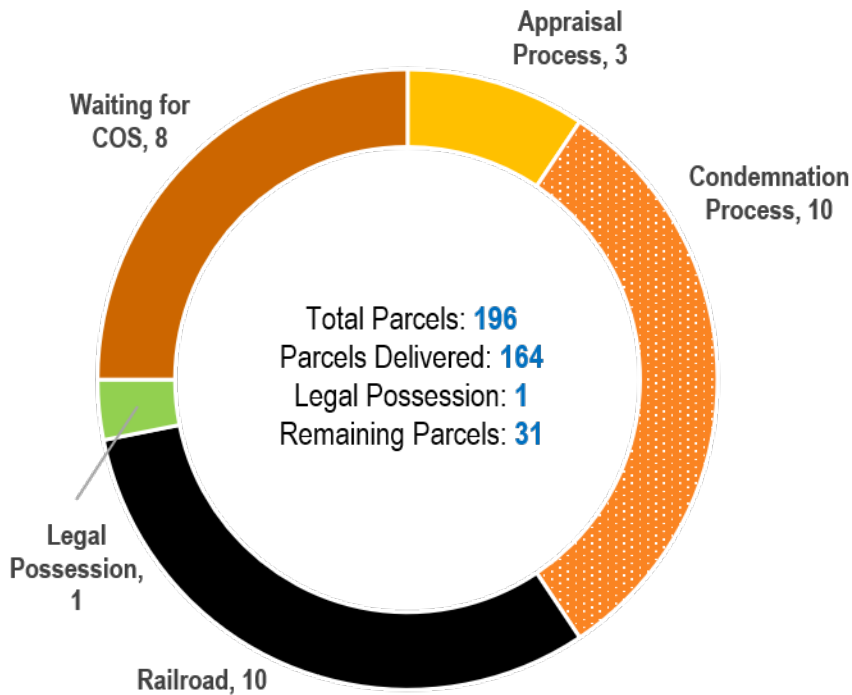


# CP 4 Progress Update

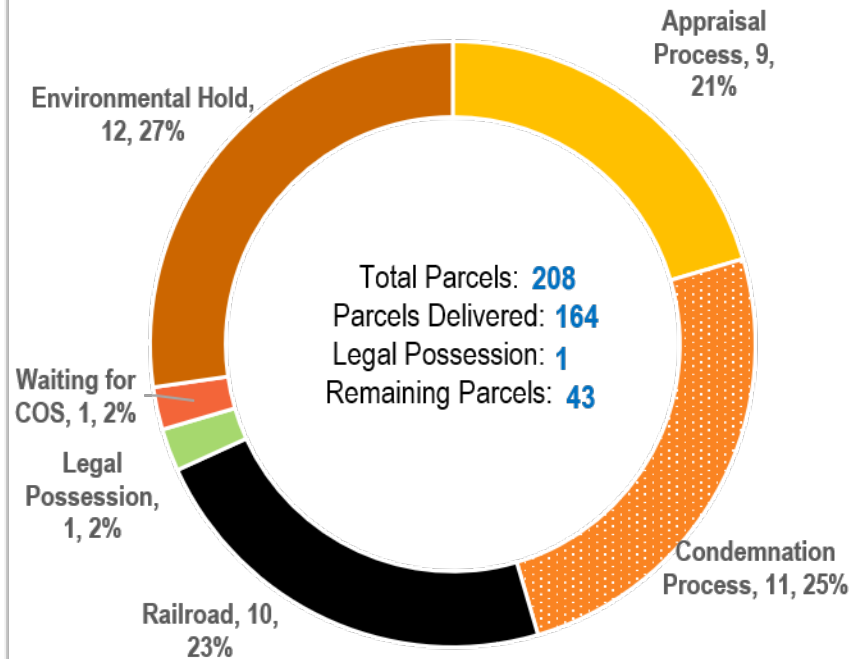
## ROW Acquisition Status



May 2019

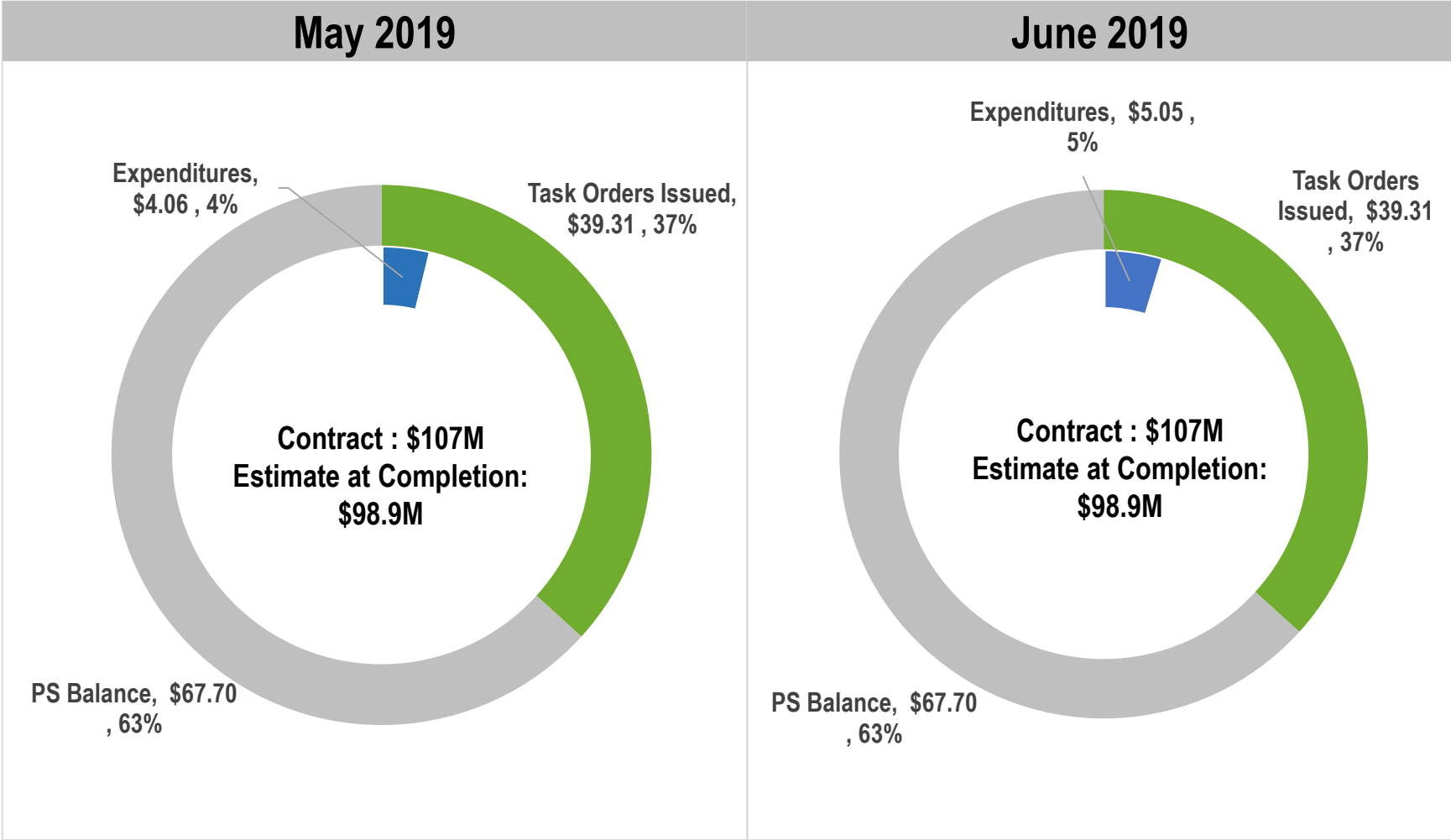


June 2019



# CP 4 Progress Update

## Provisional Sums



## CP 4 Critical Actions

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- ▶ Third party relationships – Resolve design and access issues with key third party utility owners
  - PG&E
  - Sempra
  - Semitropic
  - Kern County
  - CDFW - Multiple Incidental Take Permit (ITP) amendments being proposed to CDFW to align with DB design
- ▶ Commercial – Project Change Orders
  - Semitropic additional facilities
  - Intrusion Protection Barrier (IPB) System
  - Mechanically Stabilized Earth (MSE) Walls
- ▶ Design - Forming joint Focus Team for design review
  - Wasco Viaduct
  - DB QA/QC program and process
- ▶ Utility Provisional Sums: Complete design & start construction
- ▶ ROW – DB Critical ROW Remaining
  - 23 parcels remain

# Records of Decision (ROD)

## Status Report

