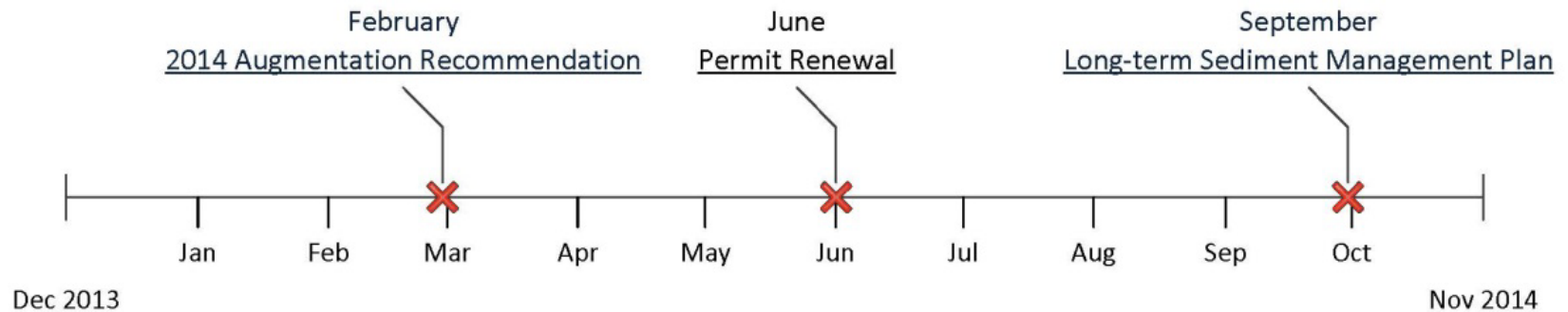


# FY14 Gravel Augmentation Related Milestones



## 2014 Augmentation Recommendation

- 2014 augmentation covered by existing permits.
- Potential gravel placement areas:  
*Lewiston Upstream (Weir Hole)*  
*Lewiston Downstream (Cableway)*  
*Sawmill*  
*Lowden Ranch*  
*Trinity House Gulch*
- Workgroup accumulating physical & habitat data for potential placement areas for discussion in December.
- Consensus gravel augmentation recommendation to TMC by the end of February 2014 in coordination with hydrograph recommendations.
- Proponent will provide the following for alternatives:  
*Project description*  
*Justification*  
*Predicted channel response*  
*Supporting analysis*  
*Evaluation plan*  
*Uncertainties / potential risks*

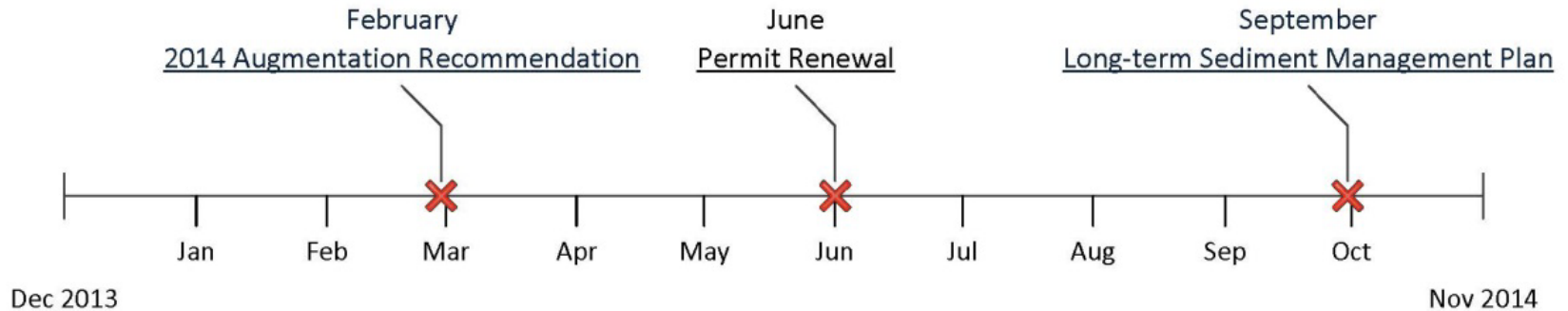
## Permit Renewal

- Brandt Guturmuth has the lead for permitting.
- In order to have permits for 2015, Brandt needs a general project description by June 2014:  
*Rationale (general & site specific)*  
*Location*  
*Volume*  
*Frequency*  
*Grain size*  
*Timing*  
*Placement method*  
*Cleanliness*  
*Sediment source & haul distance*
- Brandt asks the gravel augmentation workgroup to provide information to support any proposed changes from past practices. He has the information he needs to continue with the five long-term coarse sediment placement areas.
- **Permit could be amended in the future if information supports a change.**

## Long-term Sediment Management Plan

- Multiple elements developed over this fiscal year. Includes:  
*Developing sediment routing model*  
*Creating a long-term operational plan built on specific, testable hypotheses of how gravel moves through the system, how gravel augmentation in conjunction with flow management influences channel form, & how changes in channel form influence the quantity & quality of fish habitat*  
*Refining objectives*  
*Updating the physical monitoring plan*  
*Assemble data associated with / evaluate effectiveness of past augmentations*  
*Clarifying decision making process & improving documentation*
- Other?

## FY14 Gravel Augmentation Related Milestones



### 2014 Augmentation Recommendation

- 2014 augmentation covered by existing permits.
- Potential gravel placement areas:
  - Lewiston Upstream (Weir Hole)*
  - Lewiston Downstream (Cableway)*
  - Sawmill*
  - Lowden Ranch*
  - Trinity House Gulch*
- Workgroup accumulating physical & habitat data for potential placement areas for discussion in December.
- Consensus gravel augmentation recommendation to TMC by the end of February 2014 in coordination with hydrograph recommendations.
- Proponent will provide the following for alternatives:
  - Project description*
  - Justification*
  - Predicted channel response*
  - Supporting analysis*
  - Evaluation plan*
  - Uncertainties / potential risks*

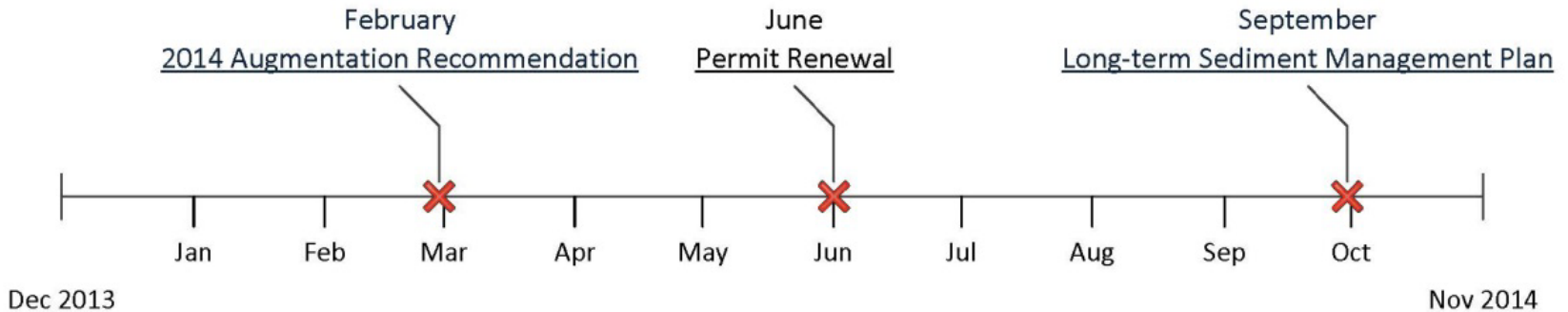
### STATUS

*Note: Slide 5 shows how the annual and 5-year permitting cycles mesh.*

Completed February 28.

Established expectation for future gravel augmentation alternatives.

## FY14 Gravel Augmentation Related Milestones



### STATUS

Has a contractor for NEPA / CEQA document.



Analysis / recommendations provided by workgroup member. Currently undergoing internal, external and SAB review.



### Permit Renewal

- Brandt Guturmuth has the lead for permitting.
- In order to have permits for 2015, Brandt needs a general project description by June 2014:
  - Rationale (general & site specific)*
  - Location*
  - Volume*
  - Frequency*
  - Grain size*
  - Timing*
  - Placement method*
  - Cleanliness*
  - Sediment source & haul distance*
- Brandt asks the gravel augmentation workgroup to provide information to support any proposed changes from past practices. He has the information he needs to continue with the five long-term coarse sediment placement areas.
- **Permit could be amended in the future if information supports a change.**

### STATUS cont...



Outline for NEPA / CEQA document previously shared as a courtesy with gravel augmentation workgroup.

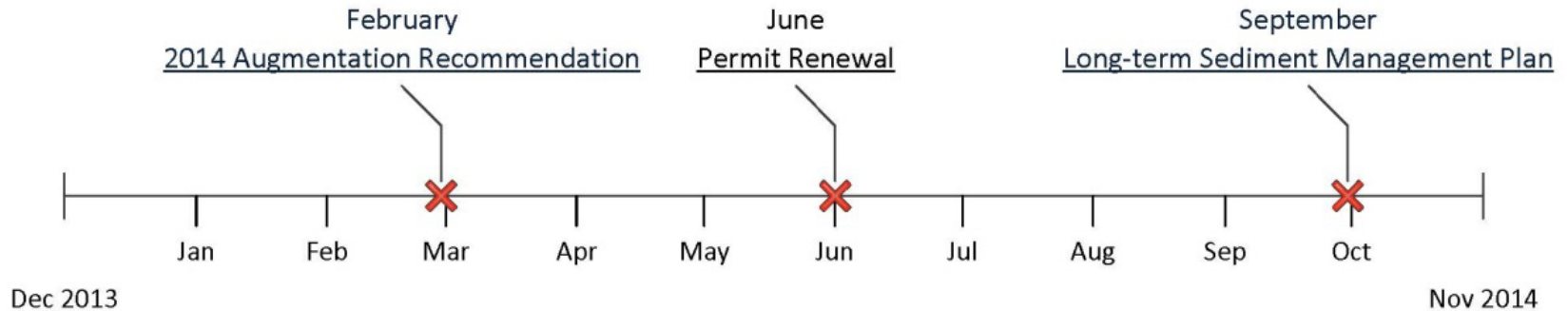


*Slide 5 shows how the annual and 5-year permitting cycles mesh.*



Key point to remember within TRRP adaptive management framework

## FY14 Gravel Augmentation Related Milestones



### STATUS

Under development. Described in [Analyses to support gravel augmentation recommendations for the Trinity River, California](#) (Gaeuman 2014, under review).

Will follow development of sediment routing model.  
Documentation will be subject to review.

Reliant on gravel augmentation workgroup tasks established in February 2014 (target was to have these Completed by May 2014). See **Slides 6**.

See **Slides 2 and 5**.

#### Long-term Sediment Management Plan

- Multiple elements developed over this fiscal year. Includes:

*Developing sediment routing model*  
*Creating a long-term operational plan built on specific, testable hypotheses of how gravel moves through the system, how gravel augmentation in conjunction with flow management influences channel form, & how changes in channel form influence the quantity & quality of fish habitat*

*Refining objectives*

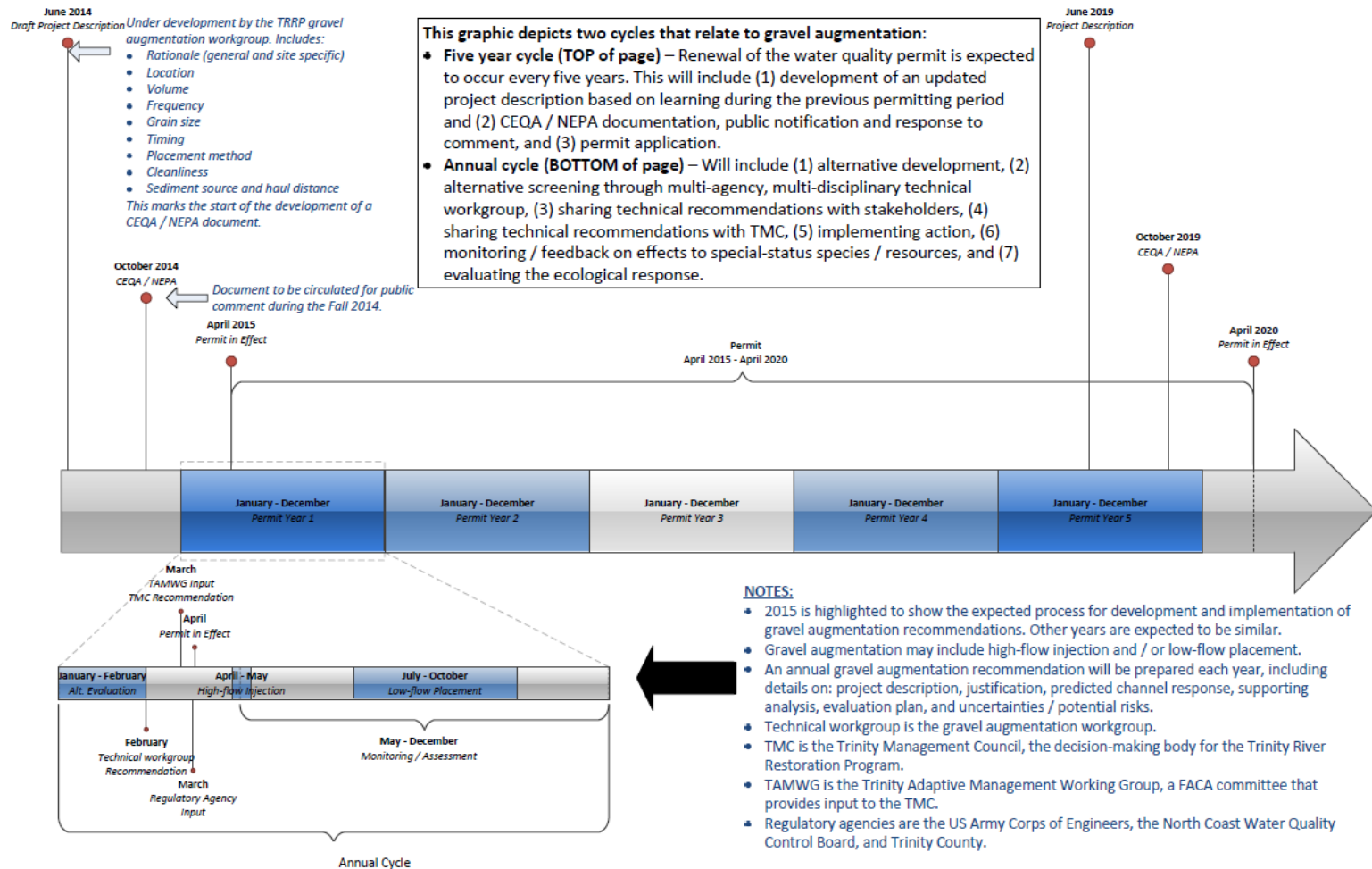
*Updating the physical monitoring plan*

*Assemble data associated with / evaluate effectiveness of past augmentations*

*Clarifying decision making process & improving documentation*

- Other?





This diagram was developed based on the information outlined in Slide 2. See file: *Gravel aug v2.pdf*

# Summary of Tasks from Feb. 2014 Meeting

1. Glean from the FES, ROD, IAP, and Coarse Sediment Management Plan the five most important and achievable objectives related to gravel augmentation or management [**Scott McBain**].
2. Use Gaeuman's recently developed transport rate based on GMA's work as a base for long term transport volumes [All].
3. Use Gaeuman's mapping (in progress) and the mapping provided by McBain and Trush to identify target areas in need of gravel and the gravel sources available [**Mark Smelser**].
4. Use documented understanding of how the past gravel augmentations [Aaron Martin, habitat responses where available] have behaved/evolved to develop site specific objectives and appropriate metrics to measure and monitor; (linked to number 1); [**Wes Smith**, Andreas Krause, Conor Shea].
5. Identify where more gravel could improve habitat conditions (includes Reviewing 2007 potential sites and screen potential sites for maximum placement in 5-yr plan) [Dave Gaeuman, **Aaron Martin**, James Lee, Andreas Krause, Conor Shea].
6. Finish vision quest, [Wes Smith, **Charlie Chamberlain**, Justin Alvarez]; group to write down attributes of “good” sites (should feed into number 5).
7. Develop outline for the NEPA / CEQA document on the 5-year plan [Brandt Gutermuth].
8. Combine the above into a five-year gravel augmentation plan to be implemented beginning during the spring of 2015 [All].