



# Alto Tunnel Study

## Weekly Progress Report Week Ending March 10, 2017



Report #5

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## 1.0 Project Activities

Project activities for the week of February 27 through March 3 included demobilizing the drilling equipment from the Underhill Site, mobilizing the drilling equipment at the Chapman Site, and implementing site controls.

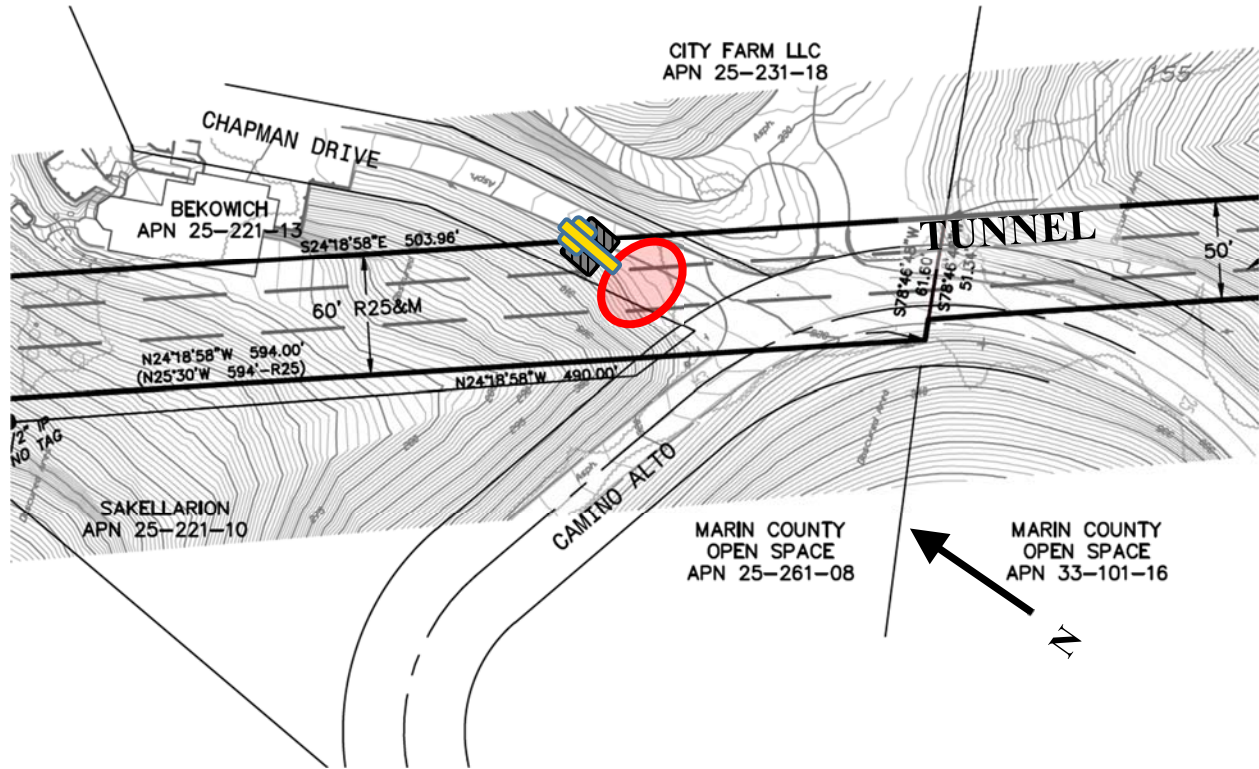


Figure 1. Drill rig and borehole locations above Alto Tunnel at the Chapman Drive project site.

## 1.1 Underhill Site

Drilling materials and equipment were removed and demobilized from the Underhill Site this week. Drill Tech graded the site and used straw and waddles to control erosion and allowed to return to a natural state. The boring cover monuments are planned to be installed at the end of the project.



Figure 2. Underhill Site.

## 1.2 Chapman Site

Drill Tech mobilized at the Chapman Site this week. Traffic barriers were placed, and Chapman was closed to through traffic at Camino Alto. Potholing was performed to locate and identify subsurface utilities at the borehole locations. There was a delay in work on Wednesday/Thursday because a PG&E representative must be on site during potholing of gas lines. A PG&E rep was on site Friday and potholing was completed. Drill Tech positioned the drill rig Friday afternoon in preparation to start drilling the morning of Monday 3/13/17.

### 1.2.1 Noise Monitoring

Noise monitoring was performed at 4 locations around the Chapman site indicated in Figure 3. Results of monitoring to date are presented in Table 1.

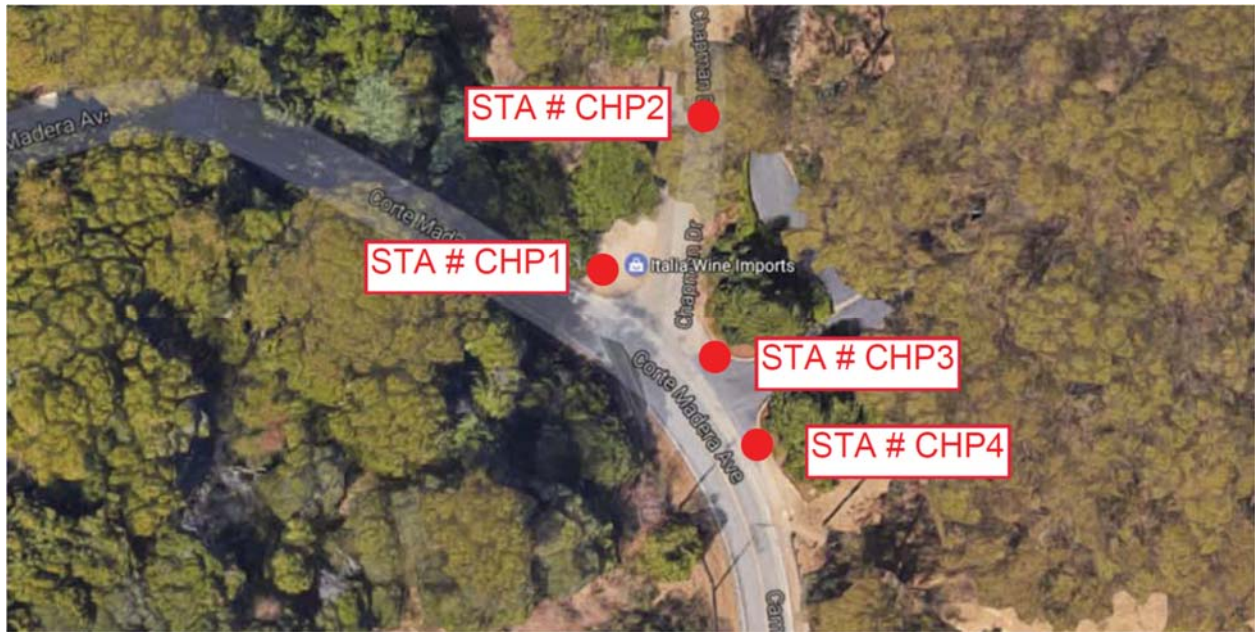


Figure 3. Noise monitoring Locations at Chapman Dr.

Table 1. Noise Monitoring.

Date	Time	dBA at Monitoring Station				Comments/ Construction Activities
		1	2	3	4	
3/1/17	730	70-75	70-75	70-75	70-75	Baseline reading. Ambient traffic
3/10/17	1330	80-85	70-75	80-85	70-75	Drill and compressor running, no active drilling.

## 2.0 Project Schedule

### 2.1 Project Drilling Progress

The drilling activity at the Underhill site has been completed. No boreholes have been completed at the Chapman site. See Figure 4 for the project drilling progress.

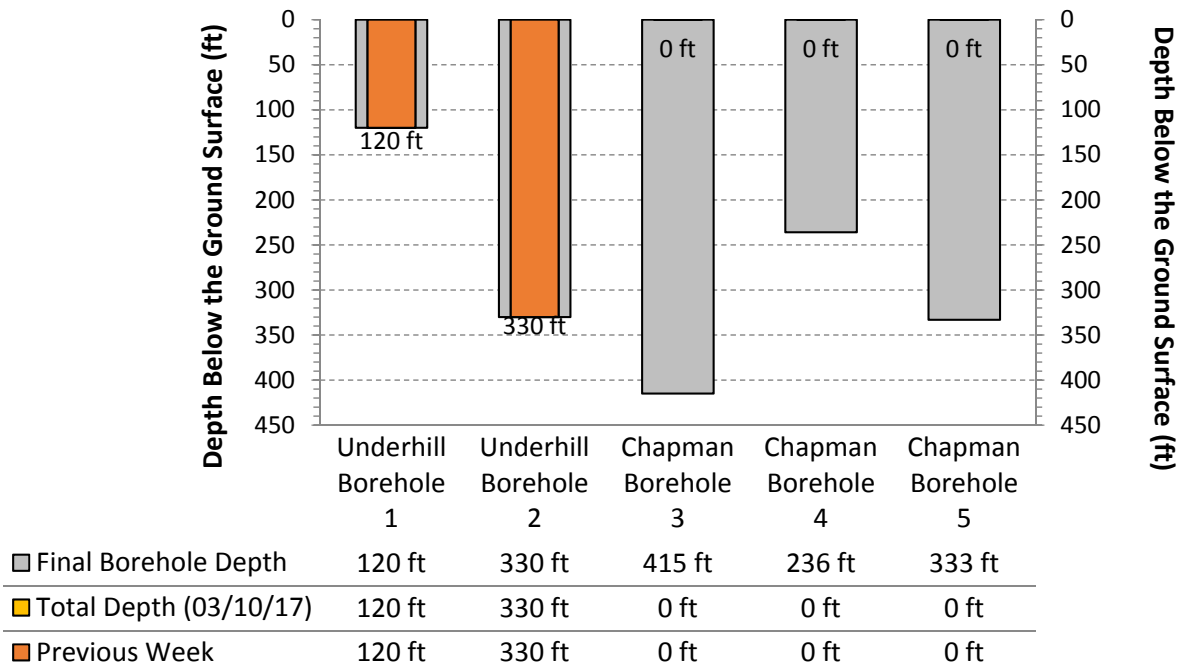


Figure 4. Project drilling progress.

## 2.2 Project Delays and Comments

There were no weather related project delays this week. There was a slight delay in scheduling a PG&E representative for Potholing. The delays are not anticipated to impact the current project budget scope items and have not incurred additional out of scope items. However if modifications to the boreholes or additional boreholes are added, there would be a schedule and budget impact. Additional weather delays are not anticipated, given the 14-day weather forecast provided in Figure 5.

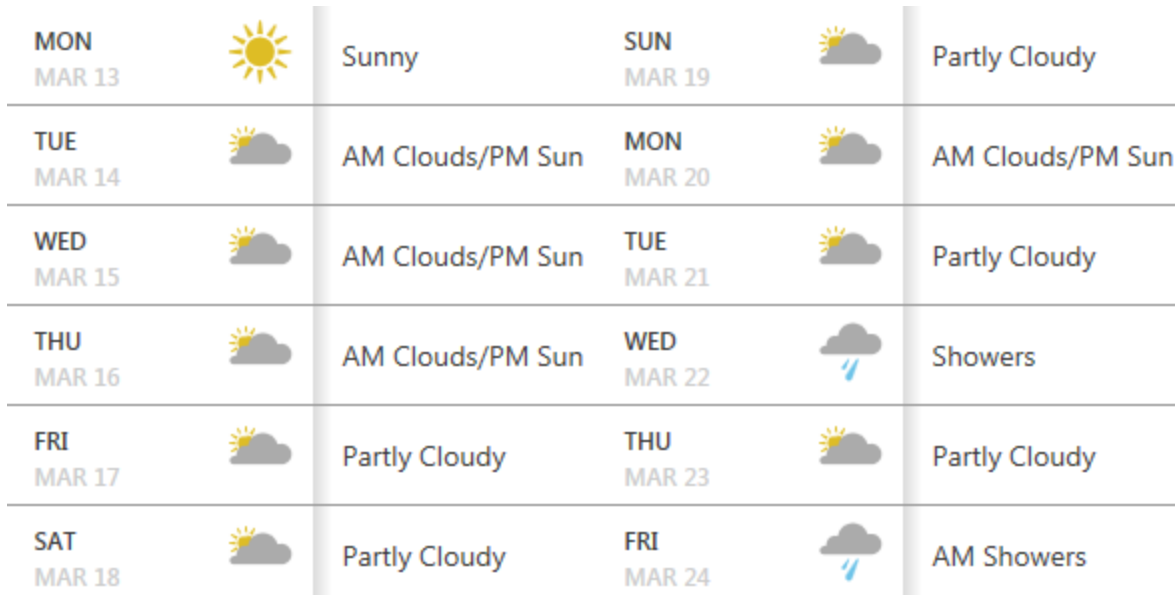


Figure 5. 14-day weather forecast for the project area.

## 2.3 Updated Project Schedule

A complete updated schedule can be found on the Walk-Bike-Marin Projects and Programs website.

[http://www.walkbikemarin.org/projects\\_alto.php](http://www.walkbikemarin.org/projects_alto.php)

### 3.0 Project Items Summary

The items for this project include two boreholes at the Underhill site and three boreholes at the Chapman site. Individual hole depth estimates and percent completed are provided in Table 2. A modification to the drilling angles has reduced the total estimated linear feet of drilling to 1434 feet.

**Table 2. Completed project items Task 3.2.**

Item No.	Description	Unit	Completed Quantity	Total Estimated	Completed
Underhill Site					
1	Borehole 1	LF	120	123	98%
2	Borehole 2	LF	330	360	92%
Chapman Site					
3	Borehole 3	LF	0	415	0%
4	Borehole 4	LF	0	236	0%
5	Borehole 5	LF	0	333	0%
Total		LF	450	1467	31%