Aspen
Environmental Group

PROJECT MEMORANDUM
PG&E – TRI-VALLEY 2002 CAPACITY INCREASE PROJECT

To: Jensen Uchida, CPUC

From: Vida Strong, Aspen Project Manager

Date: April 6, 2006

Subject: Weekly Report #104: March 25, 2006 – April 1, 2006

CPUC Environmental Monitor (EM): Anne Sweet Coronado

Construction of the PG&E Tri-Valley Project includes the Phase Three portion of the project, including construction of the overhead transmission line, underground alignment, North Dublin Substation, and Transition Station; all roadway and vault pad grading; and preparation of the 0.33-acre and 0.94-acre mitigation areas. Opus Environmental is providing the Environmental Inspectors for PG&E (PG&E EIs). Opus is providing environmental, as well as biological monitoring and oversight, including conducting environmental training of all new crew personnel. Road improvement and installation was conducted by Granite Construction. The tower work was conducted by PG&E. The underground construction was engineered by Wilson Construction and was completed by Ranger Construction; cable pulling and splicing remain. The substation work is being engineered by Black and Veatch who has subcontracted earthwork to Granite Construction. Ranger and now PG&E have contracted with North Valley Construction (NVC) to ensure that adequate erosion and sediment controls are installed and maintained.

Summary of Phase Three Activity:

Rain storms occurred throughout the subject week. The CPUC EM conducted a tour of the project on March 30th. Opus and North Valley Construction continued SWPPP inspection and maintenance on-site.

Per Opus, on March 29th, CDFG Game Warden, Clint Garrett, visited the project site to inquire about the project's Streambed Alteration Agreement as well as to review the location erosion control issues and installations. He did not express concerns during the tour.

On March 31st, Jones and Stokes biologists were on-site conducting preconstruction surveys of the underground alignment. Pulling and splicing activities are scheduled to begin in late April.

During the winter season, a large focus of the site visits by the CPUC EMs has been compliance with the project permit seasonal work requirements, the Storm Water Pollution Prevention Plan (SWPPP), and the installation of Best Management Practices (BMPs) on the project. As noted in the Opus Weekly Report:

> "PG&E is working on the engineering designs for permanent solutions to the v-ditches and culvert inlets along Moller Road and Road 6, in addition to the soil slumping on the cut slope above Road 6. Work in these areas is delayed due to the wet conditions. In the interim, North Valley Construction has been maintaining these areas through the use of temporary erosion control devices to ensure that sediment does not enter the adjacent drainages."

At the Transition Station, new construction is finished for the time being. Per the PG&E EI, Wilson Construction will most likely return in April. Erosion controls continue to be maintained around the station.

Along the underground alignment installation which extends up a steep slope extending from Manning Road off of North Livermore Avenue, the back filled trench line (backfilling occurred last fall) appears stable, showing good vegetative growth.

The CPUC EM had noted previously that along Road 6 slumping of cut slope areas above the road had occurred. Due to the recent storms much greater slumping of the area had continued to occur. Per Opus, "on March 28th, North Valley Construction (NVC) crews were on site to repair erosion and sediment control measures along Road 6. NVC crews removed the loose soil from the landslide, replaced jute netting and straw wattles, and removed sediment from the asphalt v-ditch and the R6-3 culvert inlet." (see Figure 1).

At the entry area to Road 7, the previously identified killdeer nest no longer contained eggs and no hatchlings or shell fragments were observed.

Along Moller Road and the mitigation site access road, a few areas along the new roadbed, including some culvert inlet areas, continue to show signs of ponding. Although sediment has built up in some areas along the road, it is continually being removed by NVC and the area maintained. The two areas of slumping down slope of the road bed remain covered in plastic. Opus and NVC have been and will continue to take steps to ensure that down slope sedimentation into resource areas does not occur. During the subject week NVC conducted culvert repair at MR-2, MR-3, MR-5 and MR-6 (see Figure 2). They also removed no longer needed sediment fencing along Moller Road.

During the tour, the CPUC EM noted that the area upslope from the Tassajara Creek bank stabilization area shows poor grass growth and that the installed jute netting is ripped and has pulled away from the slope, possibly preventing further vegetative growth. PG&E is planning to fence the area and prevent the pasturing cows from degrading areas of reinstalled jute netting.

On Monday, February 13th, Opus reported that multiple tri-colored blackbirds were observed foraging along Moller Road near the Substation site. These birds continue to occupy the area. On Thursday, February 16th, a pair or red-tailed hawks were observed near a nest structure adjacent to Moller Road at Station 14+50. During the subject week, the Opus biologist provided that it appears that the hawks are incubating eggs and that they will continue to monitor the area. On February 23rd, PG&E had established a 250-ft buffer extending from each side of the nest where project parking and stopping are prohibited. A portion of Moller Road lies within 250 feet of the nest. Moller Road is currently being used for project ingress and egress. CDFG was contacted and concurred that travel could continue along Moller Road at the current level. On Friday, March 17th, three pacific pond turtles were observed in Tassajara Creek at Station 23+20. The sighting occurred approximately 70 feet from Moller Road. The turtles have been repeatedly sighted during the subject week. All crews and personnel are already being escorted by a biologist through the area.

The engineered pond at the mitigation site is now filled to capacity and water has been overflowing the spillway.

Black and Veatch continued construction at North Dublin Substation during the subject week. Fence crews completed the installation of the chain link fence around the back side of the Substation. On January 25th, crews filled the transformer with mineral oil. The Spill Prevention Control Countermeasure (SPCC) pond and drainage network has not been completed. An earthen berm with a plastic cover was placed around the transformer in case an oil spill occurs prior to completion of the pond. The secondary containment will continue to be maintained until the constructed SPCC pond is functional (see Figure 3). On Tuesday, March 7th, an adult female California red-legged frog was sighted in the SPCC pond. The frog was relocated to Tassajara Creek by an approved biologist and agency notifications were made. Per the USFWS inquiries and recommendations, exclusion fencing was placed around the pond to prohibit entrance of additional amphibians. On March 30th, a killdeer nest with one egg was found 2 feet from Moller Road, just past the Substation entrance area (see Figure 4). An 80-foot buffer was established around the nest.

The project Biological Opinion (BO) conditions and requirements, resulting from continued correspondence with USFWS, direct that biologists escort crews within and at some locations beyond 200 feet from known and potential California red legged frog (CRLF) and California tiger salamander (CTS) habitat now that work has continued past October 31st and due to the seasonal weather conditions. The escort system worked well during the subject week.

ENVIRONMENTAL COMPLIANCE:

Opus and North Valley Construction continued work and SWPPP maintenance on-site.

The CPUC EM observed that all Phase Three construction activities were in compliance with mitigation measures adopted in the EIR and other permit requirements.

Seven NCRs and six Project Memoranda have been issued for the Phase Three portion of the project to date (see Table 1).

TABLE 1
ENVIRONMENTAL COMPLIANCE STATUS
(Updated 4-06-06)

Project Memo or NCR	Date Issued	Description	Follow-Up Activities
PHASE THREE			
Project Memorandum	7/20/05	Crews have installed exclusion fencing as well as sediment fencing in areas with potential for spoils to slide in to sensitive areas. Numerous gaps were left in the fencing to allow moving cows. However, no exclusion signs have been installed in the gaps after repeated requests. In addition, the CTS exclusion zone was toured and no sensitive resource or exclusion signs to notify crews of the resource have been installed. Notifications were made to the PG&E EI. On July 14, an operator was not aware of the 500-foot CTS exclusion zone and a 400-foot by 20-foot area was scraped within the zone coming with in 100 feet of the CTS burrow. The site Foreman when he realized what was occurring immediately stopped the operator. Opus notified Mary Hammer of the USFWS in an e-mail.	
NCR	7/26/05	A drainage off Manning Road was bridged by steel plates and the area extending upslope from the bridge had been graded up to and possibly within the drainage without an approved CDFG Streambed Alteration Agreement.	CDFG notification required
NCR	7/26/05	Construction at Pole location 9, 10, 11, and 12 and use of associated access roads were started prior to the CPUC EM verifying that proper flagging and exclusion fencing had been installed as required by Project mitigation measures. Directly upslope of a CTS/CRLF breeding pond burrow clusters were not fenced off and the site was left unmonitored though construction was occurring within 200 feet of the pond. Crews were using new routes which were not previously surveyed or approved.	PG&E must properly flag and fence the work and access areas, and provide maps and survey results. Burrow clusters must be fenced for exclusion.
NCR	7/29/05	Crews graded the other side of the drainage referred to in an NCR issued 7/26/05. Note that a CDFG Streambed Alteration Agreement has not been issued for the site.	CDFG notification required
Project Memorandum	8/21/05	Crews placed a dumpster outside of the project area and did not move it for three days.	Dumpster was removed 8/19/05
Project Memorandum	11/1/05	During the tour of Moller road on November 1, the CPUC EM noted that a spoil pile located adjacent to Tassajara Creek lacked adequate protection. PG&E had been notified of the problem twice previously.	November 2, wattles had been installed around the spoils pile and silt fencing extended to further protect the creek.

Project Memo or NCR	Date Issued	Description	Follow-Up Activities
PHASE THREE			
NCR	11/2/05	During the field tour on November 2, 2005, the CPUC EM documented several related compliance problems regarding the lack of appropriate resource erosion protection as well as work within resource buffers outside of the appropriate time frames established in project agency permits. On November 2, at the Cayetano Creek crossing ground disturbing activity had occurred within the 30-foot buffer established around potential California red-legged frog and California tiger salamander habitat which is prohibited after October 31, as outlined in the project BO. At another area where the Ranger Construction crossed Cayetano Creek, just off of Road 5 the CPUC EM noted a lack of erosion protection. PG&E had been notified of the lack previously. At the Tassajara Creek bank stabilization area, the upslope erosion cloth installation as outlined in the USFWS Biological Opinion (BO) had not occurred by October 31 which is the deadline for the bank stabilization work in both the USFWS BO and the CDFG Streambed Alteration Agreement. PG&E had been repeatedly informed of the necessary erosion protection requirements as well as work deadlines.	PG&E EI was forthright that he unintentionally overlooked the BO buffer requirement. Opus took quick action and notified the USFWS of the work within the potential habitat buffer. Adequate erosion controls were installed by 11/4/05 Opus Environmental notified CDFG that the installation had not met the required deadline. The installation was completed 11/4/04.
Project Memorandum	11/4/05	During the site tour of Road 5 on November 4, the CPUC EM witnessed that at the end of the work day, although the road had been swept 20 minutes earlier by an approved biologist, the Granite crew proceeded to exit the site via Road 5 without being walked out. The CPUC EM was informed that PG&E informed Granite that they could proceed because the road had just been swept. Project Memo documented that vehicles shall be walked through areas as outlined by the BO and given the verbal recommendations set forth by USFWS.	The USFWS has approved the use of ATVs to escort vehicles which should streamline the walkthrough process.
NCR	11/10/05	The Project Biological Opinion conditions and requirements resulting from continued correspondence with USFWS direct that biologist escorts are needed within and at some locations beyond 200 feet from known and potential CRLF and CTS habitat past October 31 and November 9, a Granite truck entered Road 5 unescorted and that several Granite trucks had left the Substation site on Moller Road which also lies within 200 feet of sensitive habitat, unescorted. November 10, when the Opus EM arrived on-site at 6:15 am a Granite operator had already entered the site via Road 5 unescorted. Please note that Opus has repeatedly notified Granite of the necessity for escorts through sensitive areas and has documented the unescorted vehicle movement as non-compliance issues.	Large signs have been posted along the road side in plain view directing all project vehicles and equipment to stop and wait for an escort. In addition radios were placed at the signs to enable contractors to call for an escort. PG&E representatives stayed at the Road 5 entrance and along Moller Road to ensure that all project personnel stopped and waited for biologist escorts.
NCR	11/15/05	Opus informed the CPUC EM that on the evening of November 14 and on November 15 two Granite employees decided to drive along Moller without the required escort. These mark repeated documented incidents of Granite personnel and/or Granite subcontractors traveling without the required escort.	Granite construction did not work 11/17 and 11/18. A meeting was held on 11/ 17. An additional training will be held. The two Granite personnel have been dismissed. PG&E has installed gates with locks and a monitor has been placed at the gate with sign-in sheets.

Project Memo or NCR	Date Issued	Description	Follow-Up Activities
PHASE THREE			
Project Memorandum	11/29/05	Upon inspection of the Mitigation Site Access Road the CPUC EM noted that the installed erosion controls were in serious need of maintenance and repair. Rain was occurring and was forecasted to continue for the next four days. The CPUC EM notified the site EI about the problem. Upon returning to the location on the next day the CPUC EM documented that no repairs had been made. In a different area along Road 7, a build-up of sediment has occurred around erosion controls near the Vault installation, and maintenance is needed. In addition to the above issues, culverts installed on Road 6 looked as though they were colleting materials and showed potential to be clogged. Under this Memo, information is requested from PG&E regarding the effectiveness of the installation, how they plan to clear the materials, and how further build up will be prevented .	Repairs to the MSA Road erosion controls had been made following issuing the memo.
NCR	12/15/05	December 14, The CPUC EM discovered that monofilament erosion control matting had been installed along/adjacent to the Tassajara Creek tributary which runs through the Mitigation Site. The USFWS BO disallows use of such matting. The PG&E EI decided to take the installation in the presence of the CPUC EM. PG&E was contacted and the CPUC EM was informed that PG&E was aware of the issue and that the matting had been installed the day prior on Tuesday, December 13. PG&E had informed the contractor that the matting had to be removed and plans were set to remove the matting on Thursday, December 15. Within the NCR, information was requested from PG&E as to why the CPUC was not informed of the flawed installation. In addition, NCR information was requested to explain why was the matting removal was planned for two days after the discovery and not immediately.	PG&E responded on December 15, that at the time of the initial discovery on December 13, it was one half hour before sunset and there was not enough time to conduct the removal and exit the site given the existing work hour regulations. The crew which installed the matting was previously scheduled to return on December 16, so the removal was planned for that time.
Project Memorandum	12/20/05	An informational memo was issued on December 20 to document the findings of a project wide walkthrough conducted December 19 and 20 to review the installed erosion controls. A large storm event had occurred prior to the walkthrough thus erosion control functioning as well as well as maintenance needs were assessed. In most areas the controls worked well, however several areas had sediment build up and other areas were in need of repair.	By the end of the subject week, Granite and North Valley Construction repaired and maintained the erosion controls outlined in the memo.

NOTICES TO PROCEED (NTP):

Table 2 presents the NTPs issued by the CPUC for the Tri-Valley Project to date. No additional NTPs are anticipated.

TABLE 2
NOTICES TO PROCEED
(Updated 4/06/06)

NTP #	Date Issued	Description
#1	September 12, 2002	Phase One: Construction on of six different sections of the underground portion of the Vineyard Segment, within the City of Pleasanton, City of Livermore, and unincorporated Alameda County.
#2	October 10, 2002	Phase One: Construction of six additional sections of the underground portion of the Vineyard Segment, within the Cities of Pleasanton, Livermore, and unincorporated Alameda County
#3	December 12, 2002	Phase One: Construct the final sections of the Phase One portion Tri-Valley 2002 Capacity Increase Project, within the City of Pleasanton.
#4	May 5, 2003	Phase Two: Construction of the new 5-acre Cayetano Substation located at the intersection of North Livermore Avenue and May School Road.
#5	July 14, 2003	Phase Two: Construction of 2.3 miles of underground transmission line installation extending from the Cayetano Substation to the North Livermore Transition Station to be constructed at the Contra Costa–Newark Transmission Line Corridor
UAD NTP		Phase Two: Allow construction within the exclusion boundary of the May School road cultural resource discovery area.
#6	June 29, 2005	Phase Three: Construction of the overhead transmission line, the transition station, all roadway and vault pad grading, and preparation of 0.33-acre mitigation area.
#7	August 4, 2005	Phase Three: Underground construction and preparation of the 0.94-acre mitigation area.
#8	August 18, 2005	Phase Three: North Dublin Substation.

VARIANCE REQUESTS:

No Variance Requests were submitted for review during the subject week. Table 3 presents the Phase Three Variance Requests reviewed to date.

TABLE 3
VARIANCE REQUEST STATUS
(Updated 4/06/06)

Variance Request #	Date Submitted	Description	Status	CPUC Approval Date
PHASE THREE				
11	7/7/05	Variance to allow travel through homestead archaeological site C-Livermore-1H.	Completed	7/8/05
12	7/15/05	Variance to allow the use of staging areas as outlined in road plan drawings along the Phase 3 alignment.	Completed	7/26/05
13	7/29/05	Variance to use three staging areas. Two are located along the Moller Ranch Road. The last is located adjacent to the Cayetano Substation.	Incorporated into NTP #7	
14	8/12/05	Variance to use three access roads, and a laydown area.	Completed	8/19/05
15	8/19/05	Variance to use two laydown areas and one access road near road 6.	Completed	8/26/05
16	9/15/05	Variance for use of a temporary overland access connector route to access two vault installation sites	Completed	9/19/05
17	10/25/05	Variance for installation of guard structures at Collier Canyon Road and grading a work space for a boom truck near the Dublin Substation.	Completed	11/4/05
18	11/3/05	On November 4, 2005, PG&E submitted Variance Request #18 requesting a variance to change the surface treatment of Moller Road from chip seal to asphalt concrete.	Completed	11/8/05
19	11/3/05	Variance Request #19 requesting a variance to resource buffer zones outlined in Applicant Proposed Measures 7.6 and 7.7, deferring to the Project's Agency permit conditions	Completed	11/8/05

AGENCY PERSONNEL CONTACTS:

Per Opus, on March 29th, CDFG Game Warden, Clint Garrett, visited the project site to inquire about the project's Streambed Alteration Agreement as well as to review the location erosion control issues and installations. He did not express concerns during the tour.

Photographs

Figure 1 – NVC crews removed loose soil and installed jute netting and wattles along the landslide area along Road 6, March 30, 2006.

Figure 2 – Opus and NVC repaired culvert inlet area along Moller Road, March 30, 2006.

Figure 3 – Transformer surrounded by an earthen berm at the North Dublin Substation, March 30, 2006.

Figure 4 – Killdeer nest containing one egg along Moller Road, March 30, 2006.