

County of San Luis Obispo Onsite Environmental Coordinator
Guadalupe Update 8-23-2017

Construction/remediation activities continue at the Chevron Guadalupe Oil Field Remediation Site (Field) this week. The San Luis Obispo County Onsite Environmental Coordinator (OEC) continues to be present at the Field on a daily basis.

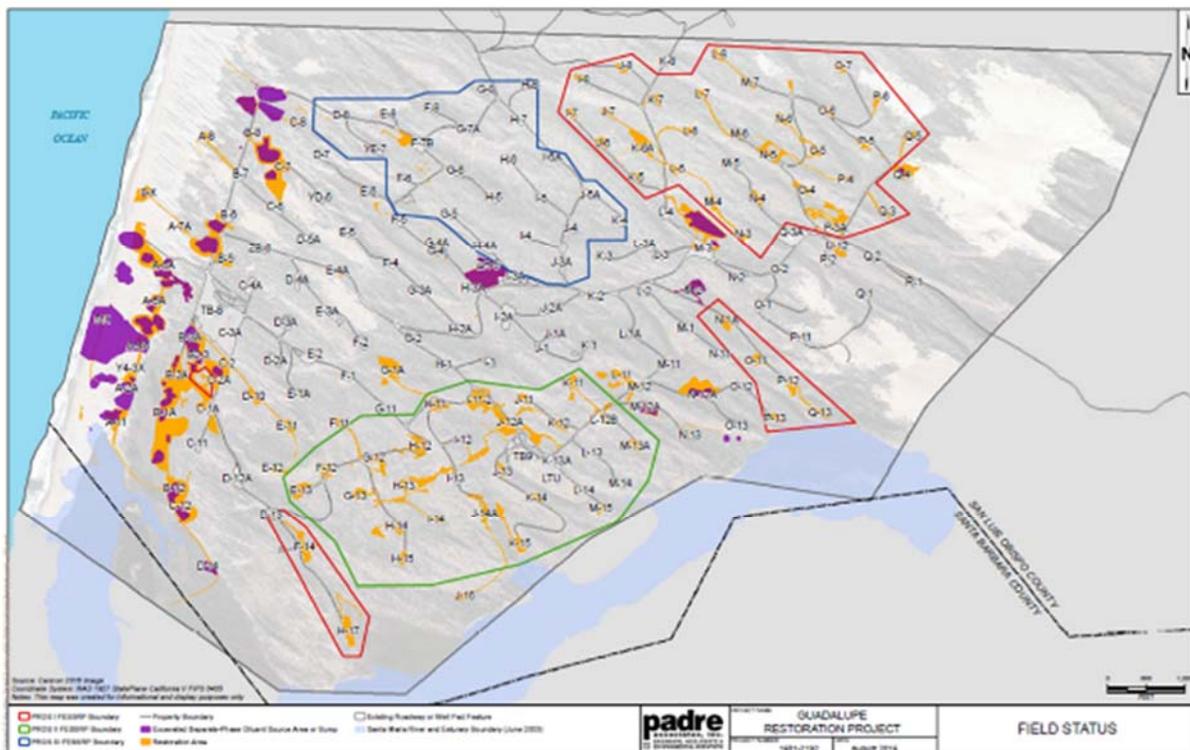
The following description of the activities at the Field will give any of the interested parties an opportunity to identify additional requests in terms of special monitoring or approval requirements for any particular tasks on the Field. Significant issues and important review schedules are underlined.

Construction contractor continues to work five 10-hour days per week. Entry into the site remain at 7 am. All construction related vehicles leave the site by 6 pm.

The following Plans are currently under agency review:

- There are no Work Plans under review at this time. Chevron plans on submitting the PROS Phase IV Work Plan for Agency review in the next month.

To help orient the placement of remediation activities, Figure 1 shows the Field and the location of all active and completed project sites (including the three PROS Work Plan Phases).



Phase I (Test Phase) Remediation Sites 2013-2015 PROS Sites (outlined in red)
Phase II Remediation Sites 2015-2016 PROS Sites (outlined in green)
Phase III Remediation Sites 2016-2017 PROS Sites (outlined in blue)
Completed remediation sites: excavated separate phase diluent (purple)
Completed PROS sites: excavated and/or treated (gold)

Here are the current activities:

Remediation Activities:

M1 Excavation

Chevron contractors have begun executing the M1 Remediation Work Plan which includes a partial excavation of diluent-affected material in the M1 valley and the use of a vinyl sheetpile wall.

- The site has been cleared of all vegetation. Vegetation and vegetative-overburden has been stockpiled at the Q4 and E4A Stockpile locations.
- Entact has excavated all the clean overburden from the site and has hauled it to the Q4 Borrow Site where it will be stockpiled and later, used as backfill for the completed excavation.
- Gregg Drilling has installed dewatering wells and Entact has installed the perimeter sheetpile wall and additional sump-pumps. Dewatering pumps have successfully drawn down water levels inside the sheetpile wall.
- Entact is currently excavating diluent-affected soils within the sheetpile wall and hauling material to the TB9 Stockpile.
- Entact is currently covering the slopes and bottom of the excavation with 1-2 feet of clean sand at the end of each construction work day to ensure that there is no potential for any wildlife exposure to contaminated soils and no standing water.



The M1 Valley: prior to remediation activities. The M1 wetland is located on the valley floor and far left portion of the photo. The excavation impacts approximately two-thirds of the valley floor.



The M1 Valley: vegetation, vegetative overburden and clean overburden being excavated from the site.



The M1 Valley: sheetpile being installed around perimeter of site.



The M1 Valley: both vinyl and steel sheetpile completely installed around site.



The M1 Valley: excavation of diluent-affected material and temporary backfill to ensure that there is no potential for any wildlife exposure to contaminated soils and no standing water over night.



The M1 Valley: excavation of diluent-affected material. Excavated areas are immediately backfilled with clean sand from the Q4 Borrow Site.

Phase III PROS Pad, Road, and Oil Spray Removal/Treatment Activities

- The Chevron team continues excavation and treatment on several Phase III sites including the H5, I4, I5, J3A, J5A, M1, and M11 sites.
- The final PROs Phase II sites not yet completed include the J12 excavation which awaits final P66 activities to be completed in the area.
- Excavation, treatment, backfill, final grade approval, and the installation of erosion and sediment control measures have been completed at the following Phase III sites: D8, E8, F7A, F7B, F8, G6, G7, G8, H7, H8, I6A, J4, J5A, K4, and YE7.
- PROS activities include oil spray removal and treatment, pad treatment, sump removal, pipeline removal, road treatment, asbestos removal, and excavation of contaminated materials.

Hauling Activities

- RTS has ceased all hauling activities for the foreseeable future. All contaminated material is currently being hauled to the TB9 Stockpile site.
- Chevron continues to use the TB9 Stockpile site (also referred to as the Land Treatment Unit or LTU) to temporarily contain all material excavated from PROs Sites, as described in the recently approved TB9 Stockpile Work Plan.
- Chevron reports that as of December 2, 2016, a total of 68,820 loads have been hauled to the Santa Maria Landfill, totaling 1,562,142 tons or 1,107,902 c.y. of contaminated material.
- The original SEIR hauling activities were completed on 9/18/2012. At that time, a total of 51,962 SEIR related loads were hauled to the Santa Maria Landfill totaling 1,186,770.77 tons or 859,978.82 cy of contaminated materials.

- The SEIR Addendum hauling activities commenced on 9/24/2012. To date, a total of 16,858 Addendum related loads have been hauled to the Santa Maria Landfill, totaling 375,372 tons or 266,221 cy of contaminated materials.
- During hauling activities, the OEC receives and reviews weekly travel records for the 4-7 haul trucks driving between the Guadalupe Site and the SMLF. All records have demonstrated that trucks leaving the site were recorded being observed traveling along the established and approved travel route.

Perimeter Fence

- There were no cows observed on the Field in the last month.

Other Field Activities:

- Padre staff continue to collect monitoring well samples throughout the Field according to their quarterly schedule.
- In accordance with CAO 98-38, amended November 6, 1998, active and passive free-product recovery systems continue to operate with periods of limited interruption at the Compressor Plant (CP), Diluent Tanks (DT), and Tank Battery 9 (TB9) Areas. As required, Padre staff provides notification to RWQCB during periods of planned shut-down for system maintenance and/or evaluation. System operation is dependent on recovery pump maintenance activities performed daily by O&M staff, which ensures the pumps are properly functioning.
- Chevron wildlife monitors conduct daily checks of the access roads prior to anyone entering the site.
- The hydrocarbon release at the 5X Beach Site continues to be monitored (visual and odor surveys 3x/week by Padre Staff) near the old 5X Excavation Site. There was no odor detected and there was no visible evidence of release. Chevron reports that beach surveys will continue three times per week as detailed in the 5X Beach Monitoring Plan.

Sensitive Species Issues:

- Western snowy plover monitors continue to conduct beach surveys three times each week, as directed by the USFWS Biological Opinion and County Conditions. Padre biologists report as of August 17, that they have observed a total of 85 nests for the season: 0 are currently active, 33 have successfully hatched, and 52 have been lost due to predation, abandonment, or unknown causes.
- As required in the Project's Biological Opinion, Chevron continues to pursue crayfish trapping in the Marsh Ponds.
- Feral pig depredation efforts continue onsite as directed and permitted under the CDFW depredation permit. USDA Wildlife Services continue to bait feral hog traps, as directed and allowed by the CDFW depredation permit and CEMC policies.
- Padre biologists conduct daily morning clearance of all roads and work areas prior to activities on the site.
- Chevron biologists continue to monitor restoration sites throughout the lease.

LIFE AT GUADALUPE



Gopher snake eggs: inadvertently uncovered during excavation of contaminated material at M11 PROs site. Eggs were removed and buried in nearby habitat at similar depth and exposure.