

County of San Luis Obispo Onsite Environmental Coordinator
Guadalupe Update 10-20-2017

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.

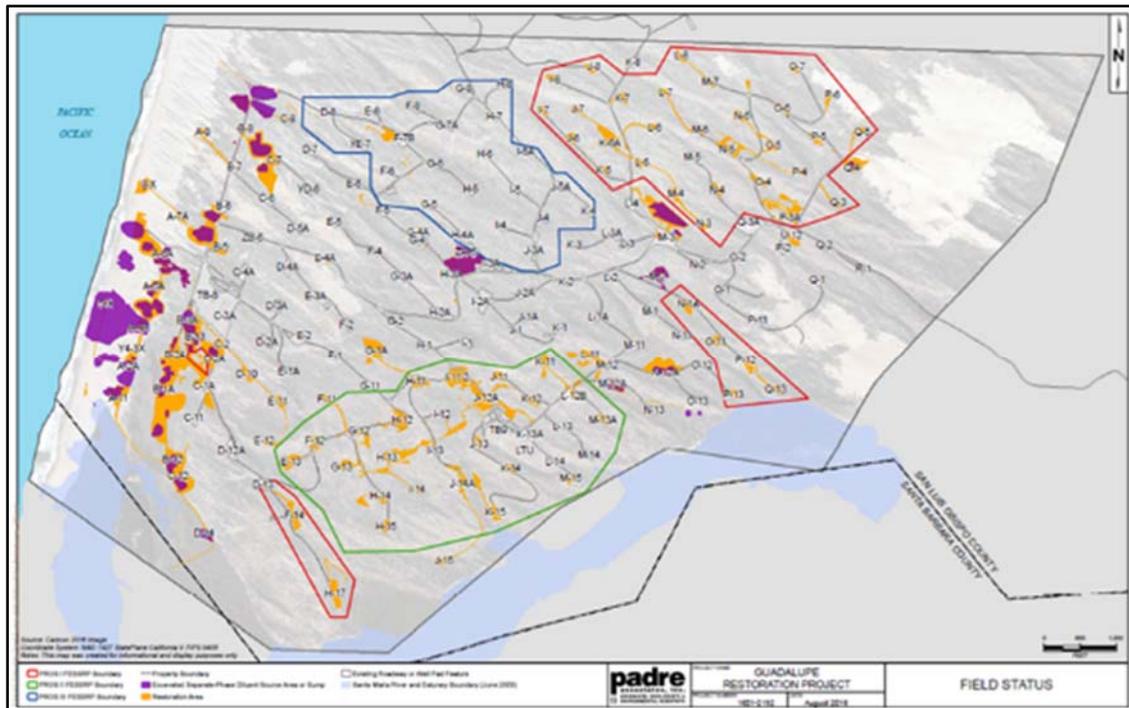
The following description of the activities at the Field will give any of the interested parties an opportunity to identify additional requests in terms of special monitoring or approval requirements for any particular task on the Field. Significant issues and important review schedules are underlined.

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

The following Plans are currently under agency review:

- Chevron has submitted a revised Water Monitoring Plan for agency review; the RWQCB is accepting comments up until Friday November 20, 2017.
- 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 completed the excavation of the M1 Site. The approved Remediation Work Plan required a partial excavation of the 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.
- Entact has completed excavating diluent-affected soils within the sheetpile wall and hauling material to the TB9 Stockpile.
- Padre has collected soil samples, analyzed results, requested and received backfill approval from the RWQCB.
- Entact continues to backfill the entire site with clean backfill from the Q4 Borrow Site,
- Entact has removed the steel sheetpile walls on the east and west extremes of the cell and continues to cut the vinyl sheetpile wall (which will be left in place) down 2-4 feet below final grade.
- After all the vinyl sheetpile has been cut, the site will be regraded to the approved elevation and topography and the final B&P measures (sand fence, vegetative cover, topsoil) will be installed.



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 is impacting 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 the 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 overnight.



The M1 Valley: excavation of diluent-affected material almost completed. Excavated areas are immediately covered with 6-10 inches of clean sand from the Q4 Borrow Site.



M1 Sheetpile Wall being pulled from eastern side of excavation; steel sheetpile walls have been removed from the eastern and western portions of the site, vinyl sheetpile wall will be cut 2-4 feet below surface and buried in place as part of the authorized agency-approved workplan.

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 I4, I5, J3A, J4, J5A, L2, M1, M11, and N11 sites.
- The final PROs Phase II sites not yet completed include the J12 excavation which will be completed this quarter.
- 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, H5, 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.



Typical view of PROs sites post-remediation and after all of the sediment control measures have been installed including sand fence, vegetative material, and straw wattles.

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 staff 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 one-to-three times per week as detailed in the 5X Beach Monitoring Plan.

Sensitive Species Issues:

- Western snowy plover monitors have completed beach surveys for the year. The beach is now open for normal project-related activities as allowed by the USFWS Biological Opinion and County Conditions.
- As required in the Project's Biological Opinion, Chevron continues pursuing 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 a daily morning clearance of all roads and work areas prior to all activities on the site.
- Chevron biologists continue to monitor restoration sites throughout the lease.

LIFE AT GUADALUPE



Osprey with fish.