



**NEW MEXICO
ENVIRONMENT DEPARTMENT**



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**Groundwater Monitoring at Sandia National Laboratories/New Mexico Burn Site
Conducted by NMED DOE OB for FFY 2010 Q-3**

The New Mexico Environment Department (NMED) DOE Oversight Bureau (Bureau) has compiled and assessed groundwater data from samples collected in May and June 2010. The Bureau collected groundwater samples from Burn Site groundwater monitoring wells CYNMW3, CYN-MW6, CYN-MW7 and CYN-MW8. These monitoring wells were re-sampled by Sandia National Laboratories/New Mexico (SNL/NM or Sandia) to confirm previous results obtained during the last sampling event. Split samples were collected using standard Sandia sampling procedures and equipment. Bureau samples were submitted to an independent contract laboratory for analysis of total petroleum hydrocarbons (TPH) gasoline range organics (GRO). No concentrations were detected above the method detection limit (MDL).

Data Assessment

Data results are compared to applicable Maximum Contaminant Levels (MCLs) from the U.S. Environmental Protection Agency (EPA) National Primary Drinking Water Regulations (40 CFR 141).

Results

Analytical results for total petroleum hydrocarbons (TPH) are listed for gasoline range organics (GRO) in Table 1. Samples analyzed for TPH-GRO were not detected at or above the MDL. No MCLs have been established for TPH-GRO.

Conclusions

No anomalies were detected in the groundwater results from samples collected at these Burn Site monitoring wells. No concentrations were detected above the method detection limit (MDL).

Data results from Sandia for this sampling event compare well with the Bureau results. All constituent concentrations were either undetected or below the reportable limit.

Response

Questions or comments should be addressed to Chris Armijo by phone at (505) 383-2070, by e-mail at chris.armijo1@state.nm.us, or to the address in the letterhead.

Enclosure: (1) Table 1 TPH Gasoline Range Organics Results
(2) Map-SNL/NM Burn Site Monitoring Wells

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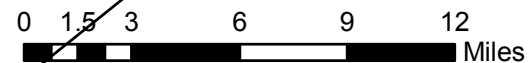
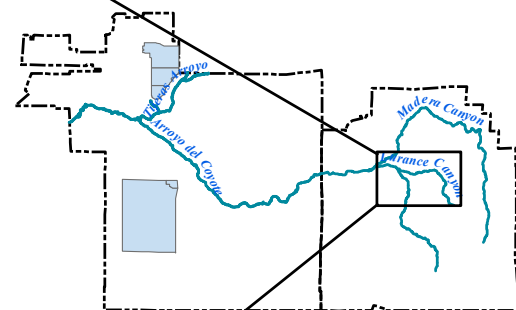
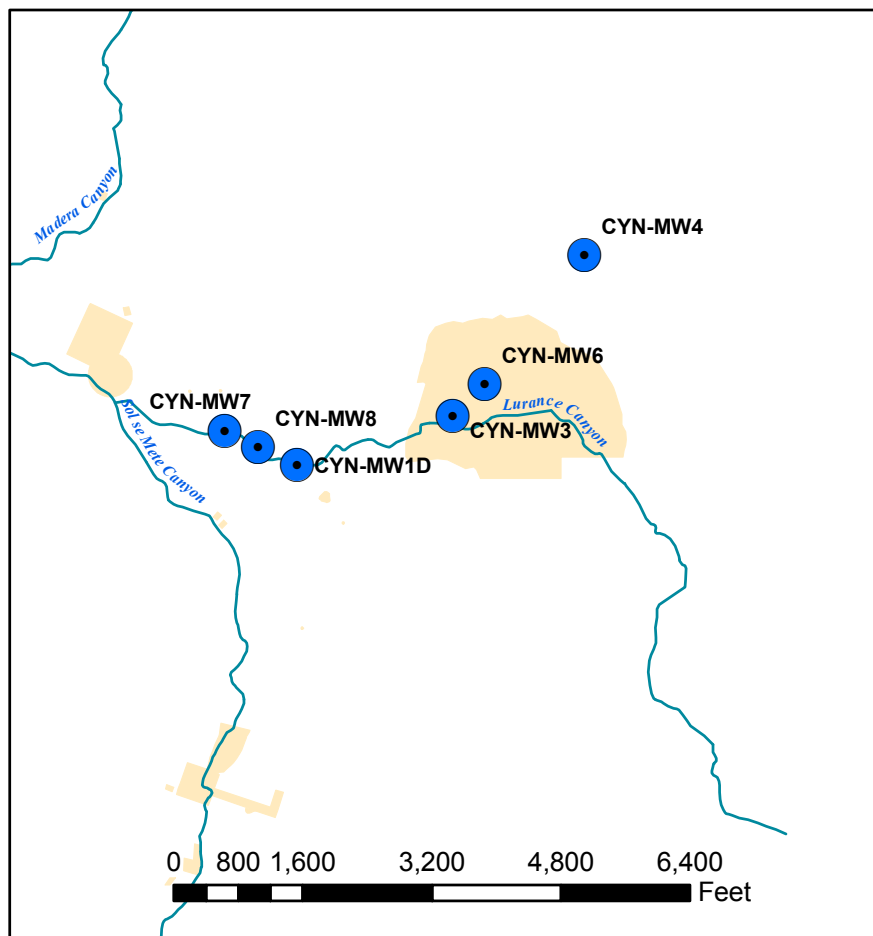
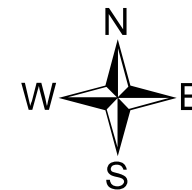
Table 1- NMED DOE OB FFY 2010 Q-3 Burn Site Groundwater Quality Results: TPH Gasoline Range Organics

Monitoring Well/ Sample Date	Analyte	Result (mg/L)	EPA MCL	PQL (mg/L)	MDL (mg/L)	Laboratory Qualifier	Analytical Method
CYN-MW3 2-Jun-10	Total Petroleum Hydrocarbons Gasoline Range Organics	0.023	NE	0.2	0.023	U	SW-846:8015D
CYN-MW3 2-Jun-10 DUP	Total Petroleum Hydrocarbons Gasoline Range Organics	0.023	NE	0.2	0.023	U	SW-846:8015D
CYN-MW6 4-Jun-10	Total Petroleum Hydrocarbons Gasoline Range Organics	0.023	NE	0.2	0.023	U	SW-846:8015D
CYN-MW7 26-May-10	Total Petroleum Hydrocarbons Gasoline Range Organics	0.023	NE	0.2	0.023	U	SW-846:8015D
CYN-MW8 25-May-10	Total Petroleum Hydrocarbons Gasoline Range Organics	0.023	NE	0.2	0.023	U	SW-846:8015D

NE = Not Established

U = Analyte not detected at or above the reporting limit or MDL.

Burn Site Groundwater Monitoring Wells



Legend

- Burn Site Monitoring Well
- US Waters
- ER Site
- KAFB Boundary
- SNL Tech Area

