1R - 1739

WORKPLANS

Date:
2-9-10

Purvis Operating Co.

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2010 FEB 12 PM 1 46

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Email: eng@purvisop.com
PO Box 51990
Midland, TX 79710-1990
432-682-7346

Via E-Mail and US Mail

February 9, 2010

Mr. Edward J. Hansen
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

RE: GLADIOLA SWD RELEASE SITE, T-12S, R-7E SECTION 25 UNIT LETTER A, NMOCD CASE # 1R- 1739

Mr. Hansen:

Purvis Operating (Purvis) is submitting this investigation proposal for the above referenced site in response to your email dated January 20, 2010. Please note, Purvis has resigned as the operator of the Gladiola Salt Water Disposal System. The new operator will be contacting you to take over this project within the next few weeks

To augment existing data (see attached Plat), we propose the installation of five 4-inch monitoring wells and four additional soil borings at the locations shown. For borings and wells, soil samples will be recovered at 5-foot intervals with the first sample at 1-foot below ground surface. Samples will be field screened for hydrocarbon vapors (PID) and chloride (field titration). Laboratory analysis of TPH and BTEX will be performed on all soil samples that contain hydrocarbon concentrations of 100 ppm PID or more. Laboratory chloride analysis will be performed on a representative number of soil samples to verify the field screening results. All borings will reach a total depth of 16 feet.

The four perched zone 4-inch monitoring wells will be completed with five feet of PVC screen to a depth not to exceed 24 feet below the ground surface such that the confining layer underlying the "perched" ground water zone is not compromised. One 4-inch monitoring well, located to the southeast, will penetrate the regional aquifer and completion will follow state guidance with PVC screen placed about 5 feet above and 15 feet below the static water level. Field conditions may cause a slight variation of screen placement. A background monitoring well into the regional aquifer may be installed next to the perched zone background well if the field geologist determines that such a well is useful.

RE: Gladiola SWD Release Site, T-12S R-37E Section 25 Unit Letter A, NMOCD Case # 1R- 1739

Following completion, each of the monitoring wells will be surveyed and properly developed prior to the recovery of ground water laboratory samples. Each ground water sample will be analyzed in the manner prescribed in your communication, however, we request that TPH (both soil and ground water) be analyzed using EPA method 8015 (GRO / DRO) instead of EPA method 418.1.

Once the field activities and laboratory work are completed, we will submit a report that provides the results of the field investigation and recommendations for additional work.

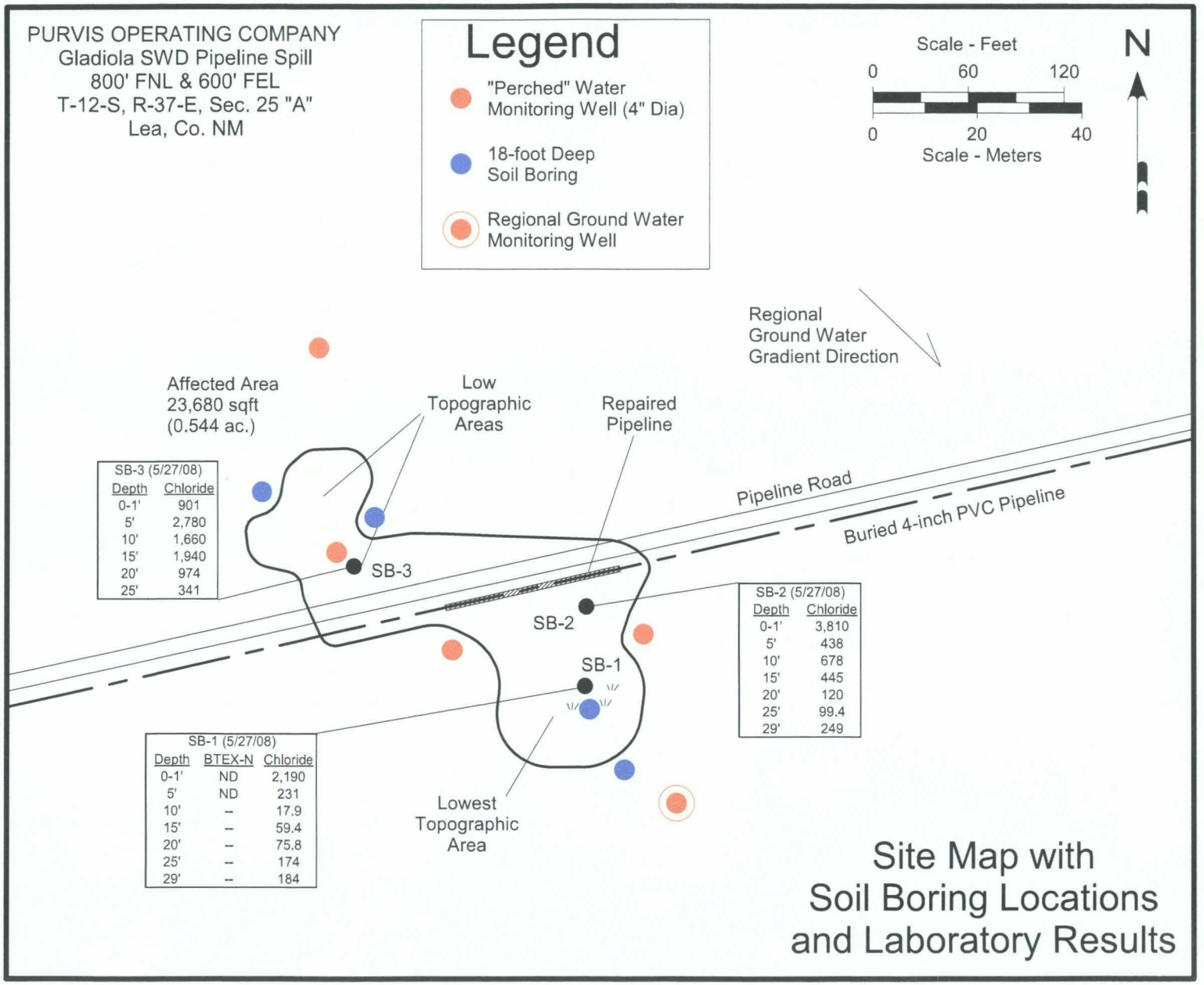
Please contact me if you have any questions or require additional information.

Sincerely,

Donnie Brown
Purvis Operating Co.

Attachment

c: Mr. Tommy Burrus
Mr. Patrick B. McMahon, Esq.
Mr. Robert Lang, Chaparral Operating


PURVIS OPERATING COMPANY
Gladiola SWD Pipeline Spill
800' FNL & 600' FEL
T-12-S, R-37-E, Sec. 25 "A"
Lea, Co. NM
Legend
"Perched" Water Monitoring Well (4" Dia)
18-foot Deep Soil Boring
Regional Ground Water Monitoring Well
Scale - Feet
0 60 120
0 20 40
Scale - Meters
N
Regional Ground Water Gradient Direction
Affected Area 23,680 sqft (0.544 ac.)
Low Topographic Areas
Repaired Pipeline
Pipeline Road
Buried 4-inch PVC Pipeline
SB-3
SB-2
SB-1
Lowest Topographic Area
SB-3 (5/27/08)
Depth Chloride
0-1' 901
5' 2,780
10' 1,660
15' 1,940
20' 974
25' 341
SB-2 (5/27/08)
Depth Chloride
0-1' 3,810
5' 438
10' 678
15' 445
20' 120
25' 99.4
29' 249
SB-1 (5/27/08)
Depth BTEX-N Chloride
0-1' ND 2,190
5' ND 231
10' -- 17.9
15' -- 59.4
20' -- 75.8
25' -- 174
29' -- 184
Site Map with Soil Boring Locations and Laboratory Results