

1R - 498

WORKPLANS

Date:

2-9-10

Purvis Operating Co.

3101 N. Pecos Street – 79705

Email: eng@purvisop.com

PO Box 51990

Midland, TX 79710-1990

432-682-7346

Via E-Mail and US Mail

February 9, 2010

RECEIVED

FEB 12 2010

Environmental Bureau
Oil Conservation Division

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

RE: GLADIOLA NE RELEASE SITE, T-12S R-38E SECTION 18 UNIT LETTER O,
NMOCD CASE # 1R-498

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 Plate 1), we propose the installation of five 4-inch monitoring wells and four additional soil borings at the locations shown on Plate 2. 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 NE Release Site, T-12S R-38E Section 18 Unit Letter O, NMOCD Case # 1R-498

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,

A handwritten signature in black ink that reads "Donnie Brown". The signature is written in a cursive style with a long horizontal flourish extending to the right.

Donnie Brown
Purvis Operating Company

c: Mr. Dean Kinsolving
Mr. Patrick B. McMahon, Esq.
Mr. Robert Lang, Chaparral Operating

Plate 1

Site Map with Soil Boring Results from Previous Investigations



Sabre Tank Battery Area

SB-1 (5/5/08)
"Perched Water"
Depth Chloride
20' 1,370

SB-1 (5/5/08)

Depth	BIEX-N	Chloride
0-1'	ND	8,380
5'	ND	8,950
10'	--	340
15'	--	3,360
20'	--	387

March 2008 Spill Area
(approximate 0.74 ac)

SB-2 (5/5/08)

Depth	Chloride
0-1'	3,260
5'	2,880
10'	121
15'	46.3
20'	72.5
24'	105

SB-3 (5/5/08)

Depth	Chloride
0-1'	6,890
5'	1,180
10'	766
15'	533
20'	331
24'	162

Historic Spill Area
(approximate 1.41 ac)

SB-4 (5/5/08)

Depth	Chloride
0-1'	2,570
5'	1,820
10'	1,450
15'	1,250
20'	244

Gladiola NE Pipeline Spill Area
T-12-S, R-38-E, Sec. 18 "O"
Lea County, NM
(1R-498)

Barbed-Wire Fence
Property Line

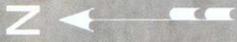


Plate 2 Site Map with Proposed Soil Boring and Monitoring Well Locations

Legend

- "Perched" Water Monitoring Well (4-Dia) 
- 16-foot Deep Soil Boring 
- Regional Ground Water Monitoring Well 

Sabre Tank
Battery Area

March 2008 Spill Area
(approximate 0.74 ac)

Historic Spill Area
(approximate 1.41 ac)

Barbed-Wire Fence
Property Line

Gladiola NE Pipeline Spill Area
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