Expanded Site Inspection
Field Logbook
Gulfco Marine Maintenance, Inc.
January 22 - 26, 2001

A

173869

[redacted]

B

Allan Daniels (713) 626-0215
Billy Losack (409) 798-2407 From Sign (979) 799-7011
Dale Halman (C) (832) 567-8413
Steve Huddleson (713) 996-4552

906 Marlin Avenue, Freeport, Tx 77541-9630

Conf. 081742

National Brand
43-571
Made in USA

Johnny Daniels
1/22/01

National Brand
43-571
Made in USA

GW-08 needs to be the 21st Sample and this will be ~~to~~ delivered a QA/QC Sample

GW-13 Needs to go out as Lab QC with first Set of Samples

Johnny Olivarez 1/18/01

1/22/01

13:30 Met with Dale Holman of IT at the Gulfco Site. Discussed Site History. Walked the area of the former Surface impoundments and identified Potential Sample locations. Then walked to the Southern Part of the Site to identify the on-Site Monitor wells.

Discussed Logistics for tomorrow.

15:00 Dale Holman & Johnny Kennedy leave Site.

16:30 Return call from Allan Daniels. He will contact Billy Losach about gate access.

16:45 Call from Billy Losach Gate Combo 7777

Johnny Kennedy
1/22/01

All Probe Locations are being logged by Dale Helman of IT and these boring logs will be supplied in the Field Activity Report.

1/23/09

1/23/01

07:00 Meet with Dale Hofman at Site.

07:10 Site Safety Meeting
Participants
Johnny Kennedy } TNRCC
John Sayer
Dale Hofman FT

07:20 Dale Hofman - Sets up to begin Purging at MW-1

20.1 Total Depth } 2.5 gal/Vol
4.62 Depth to Water

07:45 Begin Purging - Water Very Silty Brown in Color
Volume of purge water being collected by Dale Hofman, and I will get this data later.

08:00 Rept Drilling Arrives @ the Site
Have them a health & Safety Briefing

Set up for Decon of Probe Equipment
Dale will Complete purging wells MW-2 & MW-3

MW-02 TD 15.45' Depth to Water 3.90'
1.8 gal/Vol
MW-01 7.5 Gallons Purged. Johnny Kennedy 1/23/01
~~1.8 gal/Vol~~ 1/23/01

MW-2 Very Silty - After 3 Volumes
Well did not clear up much.

MW-3
Depth to Water 5.97'
Total Depth 16.60'
1.73 gal/Vol

Vol	pH	Temp	Cond	
1	7.46	19.9	out	08:46
2	7.52	20.5	"	08:50
3	7.59	20.7	"	08:55

Approximately 6 gallon well went Dry

09:15 Collect Sample GW-16
This is the initial Equipment Rinsate
Sampler: Johnny Clemens

(A) 09:44 Begin Probe Location GW-03 OVM-700 ppm
Probe to 25' - Odor in Sand 23 feet
Saturated Zones 15-21' Silty 15-19'
Set 10' of Screen from bottom
10' of Riser + As Needed

11:00 Decon Probe Equipment

11:10 Check WL at GW-03
2.34" from TOC which sticks up
about 1 ft.

Johnny Clemens 1/23/01

01/23/01

11:36 Begin probing @ location GW-01
Probe to 20' Saturated 8-18½'
Set 10' Screen + 10' Riser.

IT decons Probe Equipment and
Gather Equipment for Next Location
GW-07

Break for Lunch

13:45 Begin Collection of Ground Water
Sample GW-12 & Duplicate GW-15
WL = 4.89 100% Recharge
Time Collected GW-12 13:52 VOA
GW-15 14:01 EXT
TOT
CY

Water Pretty Clear - Drawdown on Well
but did not go dry
Sampler - John Sykes

AP4

14:19 Measure WL in MW-07 3.97'
100% Recharge

14:22 Collect GW-13 (Triple Volume) at
MW-07
VOA, EXT, TOT, CY
Sample Collected by John Sykes

John Sykes 1/23/01

15:00 Collection of Field Blank Sample
GW-20 @ Sample Location for
MW-2 - Silty, For Last Ext & Inorg @ MW-2
Sample Collected by John Syer.

15:07 Water level Measurement for MW-03
6.02' from TOC
100% Recharg

15:12 Collect Sample GW-14 @ MW-3
VOA, EXT, TOT, CY
Sample Collected by John Syer.
Sample became Silty to Very Silty
during collection of Extractable & then
for the organics.

Back to Staging Area

John Daniel
1/23/04

Return to North Side. Notes from IT

13:05 Begin GW-07 Probe location on the east side of the Surface impoundment
GW-07 to 24'

14:08 Install 10' Screen then 15' of Riser

14:54 Begin Probing at GW-04
Completed to 20'
Preliminary Results from Samples 12-20'
(See Photograph #6) .20ppm on OVM / 91 ppm from 16-18'
Set 10' Screen then Riser
96 ppm on OVM Sample 18-20'

16:18 GW-06 Begin
Complete 16:45
Completed to 20'
Screened from 19.5' to 9.5'
Saturated to the Surface

16:45

9/23/01

1/24/01

07:00 Arrive at Site and Meet Dale Hohnave of IT
Discuss Today Sampling Activities
Conduct Daily Safety Briefing
Stephanie Pogue and Megan Hans Now Present
07:30 Best Drilling Arrives

07:45 Begin Decon of Probe Equipment

08:45 Collect Rinsate Sample GW-17 (ER #2)
John Sayer - Sampler

IT is preparing Equipment to Start probing

TNRCC - Call to Airborne Express to Schedule pickup of Samples at the site. Estimated time is between the time of the call until 5:30 pm.

Complete Packaging of Samples.

John Sayer
1/24/01

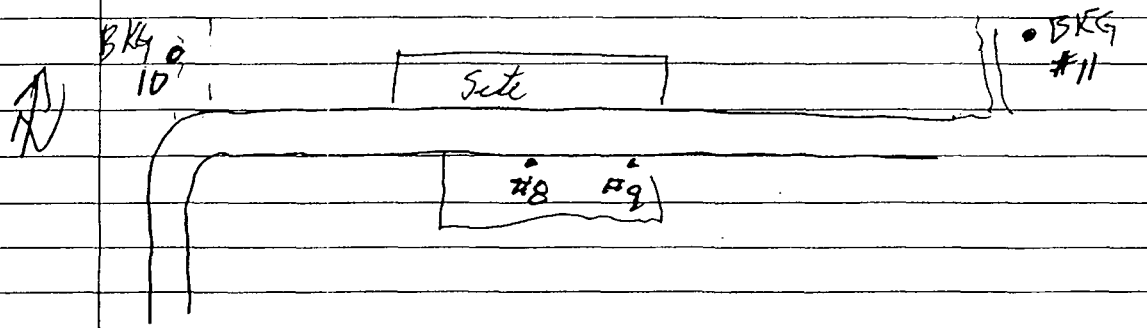
1/24/01

08:44 Begin Probing @ GW-07- [illegible] 1/24/01
TD ~ 20'
09:10 Set 10' Screen + Riser
Lithology Similar to prob locations yesterday

9:25 Decon Equipment (Probe) and Prepare for Next Location

10:04 Begin Probing @ GW-08 - Use 5' Hand Probe to 5' From Surface
TD 20'
10:20 Set 10' Screen + Riser

10:50 Go Locate Background Locations With
Dale Holman



11:15 IT Moves to probe Location GW-09
on South Side of Marshin Avenue
on the east Side of the Site.
TD @ 20'
10' Screen then Riser

Johnny Dennedy
1/24/01

12:05 Page from Janice Bevins of EPA
Returned call and left a message
Lot 65 Not Name on Tax Role
Not Showing

12:18 Begin Probing at location GW-11
Background location East of
Site on BL Tanner Family
Partnership Site.
Area is elevated above surrounding
Marsh area about 2'
Probe down to 20' feet Sange
brown clay and silt & Sand
as other locations.

12:45 Screen Set from 18' with bottom 10'
of Screen and then Riser

Decon Probe Equipment & Move to location GW-D

13:30 Begin Probing at temporary
monitor Well location GW-10
(See map previous page)

14:04 Set 10' Screen & then Riser at
location GW-10

14:30 Measure WL for GW-10
3.62' from TOC
Purging - 0.1 gal / Volume for Well

14:40 Begin Purging Background Sample GW-10
using Peristaltic pump & 1/4" tubing

11/24/01

1/24/01

Water being purged is very Silty
After 2 well Volumes Well went dry

	pH	Temp	Cond mS
14:50	6.94	22.1	41.24

Attempting to clean up Well using Small Bailer.

15:08 Almost finishing again w/ Peristaltic Pump.

	pH	Temp	Cond
15:14	6.99	22.3	42.42
15:15	6.93	22.0	41.54

15:17 Begin Collection of GW-10
Sample Collected by John Kennedy
15:45 Sample Collection Completed

John Kennedy
1/24/01

1/24/01

16:10 GW-11 location measurements
103 readings
28° 58' 17.95" N 95° 17' 6.26" W

(GW-11)
16:23 Monitor well (~~GW-12~~ J.S) being purged, water is very silty, considerable suspended solids

	ph	cond	temp	
16:39	7.26	5118 µs	18.0 C	- 1/2 gallon purged
16:48	7.21	4964 µs	16.3 C	
16:57	7.45	4789 µs	16.4 C	

16:52 Switched to Bailer, Peristalic Pump Quit Operating
16:53 Purging with Bailer

17:03 Swith to Peristalic Pump, Peristalic Pump Operating Again.

	ph	cond	temp	
17:06	7.34	4811	16.2 C	@ 1.75 gallons

17:15 Will try again in Morning for GW-11
Quit for today.

1/24/01 1/24/01

1/25/01

07:00 Arrive at the Site and meet Dale Holman of IT.

Safety Briefing for Todays Activities

07:10 John Syas and Dale Holman go to Temporary Well location GW-11 to collect Sample.

Johnny Kennedy sets up Staging area and prepares for Sample Preparation and Packaging

08:00 Call to VanCorp to Report yesterdays Sample Shipment - Left message on Voice Mail

10:30 Call to Airborne Express - Latest to Call in a Pickup for our ~~[illegible]~~ Zip Code 77541 is 3:30 pm.

16:00 Airborne Express Pickup
1 Inorganic Cooler
4 Organic Coolers.

16:05 Return Page from Stephanie Rogers Lab had Reported that one of the Lab QA/QC Samples was preserved -

JKennedy 1/25/01

19:10 Quit Work for Day after Completing the Collection of GW-09. Return to Hotel.

Left a Pack of Equipment at Site & Return & pick up.

John Kennedy
1/05/01

1/26/01

07:30 Arrive at the Site
Conduct Safety Briefing

John Syer and Dale Hoffman of IT
Proceed to GW-08 to purge &
Collect Sample.

Johnny Kennedy will set up staging
area and package & Samples for
Shipment.

08:05 Call to Carolyn Mack to
Report yesterday's Sample Shipment.

09:00 Old monitor well noted on the south
side of the Surface Impoundments
probably Old Hercules Well.

All three wells located. Concrete
pad, Metal (Rusted) Casings

Johnny Kennedy 1/26/01

1/23/01

All Photographs taken with Canon T50
35 mm Camera w/ 50 mm lens
VIP Film 24 Exposure 200 ASA
Photograph #1 - Taken By Johnny Kennedy

09:05 Photograph of ER-1 (GW-16)
Photograph #2 - Taken By Johnny Kennedy
As Above
Camera appears to be Working
odd. Shutter closes then Rlu51
Re-press button for Picture to
Take - Hope it is Working

Photograph #3 - Taken by Johnny Kennedy
10:58 View to West of temporary
Well installed at GW-03

Photograph #4 As Above - by Johnny Kennedy

Photograph #5 11:45
View toward the NW of probe at
location GW-01
Photograph taken by Johnny Kennedy

Photograph #6 15:30
Near View of Material Recovered
from GW-4 Probe Location at
17-18'.
Photograph taken by Johnny Kennedy

John Kennedy 1/23/01

1/23/01

Photograph #7 15:45
View to the West-Southwest of temporary Monitor Well GW-04
Photograph taken by Johnny Kennedy

Photograph #8 - 16:00
View to the North of temporary Monitor Well GW-02
Photograph taken by Johnny Kennedy

Photograph #9 16:25
View to the East of MW-03, on Main facility
Sample Location GW-14
Photograph taken by Johnny Kennedy

Photograph #10 - 16:28
View to the Southwest of MW-02 on Main facility
Sample Location GW-13
Photograph taken by Johnny Kennedy

Photograph #11 - 16:32
View to the north of MW-01 on Main facility
Sample Location GW-12 and drip-bucket located on GW-15
Photograph taken by Johnny Kennedy

Johnny Kennedy
1/23/01

1/24/01

All Photograph are taken w/
a Canon T50 Camera w/ 50 mm lens
Roll Film #2

Photograph #1 15:04
View to the Northwest of the primary of
temporary well #10 (Background)
Photograph taken by Johnny Kennedy

Johnny Kennedy
1/24/01

Note:

Received Photographs back from the processor.

Roll of Film # Was Not exposed

[signature]
2/2/01

1/23/01

GPS- MW1 07:43
28° 58' 0.2" N
95° 17' 22.19" W

GPS MW-2 07:52
28° 57' 59.99" N
95° 17' 15.08" W

GPS MW-3 07:57
28° 58' 2.27" N
95° 17' 12.86" W

John [signature]
1/23/01

01/26/01

GPS - GW-01 / GW-05
28° 58' 8.14" N
95° 17' 25.75" W

GW-09
28° 58' 5.49" N
95° 17' 16.32" W

GW-07
28° 58' 9.49" N
95° 17' 25.84" W

GW-11
28° 58' 17.95" N
95° 17' 6.26" W

GW-03
28° 58' 6.12" N
95 17' 25.49" W

GW-02
28° 58' 8.74" N
95° 17' 22.95" W

GW-04
28° 58' 6.28" N
95° 17' 22.63" W

GW-06
28° 58' 10.45" N
95° 17' 20.73" W

GW-08
28° 58' 2.26" N
95° 17' 20.46" W

1/26/01

1/23/00

Equipment Rinsate

8:35 Preparing to collect sample

512-971-7627

Keith Johnson

265-5999

1/23/00

~~1/24/00~~ 1/25/01

7.13 Arrived at GW-11 monitoring well

7:20 pH ~~meter~~ /Conductivity /Temp was calibrated by the IT Contractor - Dale Holman

7:26 Begin purging GW-11 monitoring well
Well purged 1/24/00 - Well Stabilized

7.29 Collecting sample at GW-11 monitoring well
Sample collected by John Syer

7:45 Completion of collection (GW-11)

1/25/00

1/25/01

8:14 GW-06 monitoring well
Depth to water - 0.55 feet

8:15 Began purging well with bailer to remove suspended solids

GW-06 Sample Parameters

	ph	cond	temp	
8:20	6.94	59.40 ms	15.9 C°	- 0.8 gallons purged
8:35	6.94	61.40 ms	16.0 C°	- 1.5 gallons purged
8:47	6.98	61.40 ms	16.1 C°	- 2.5 gallons purged

8:29 Purge water was very silty, considerable ~~sil~~ amount of suspended solids

9:00 Collecting ground water sample ~~GW-1~~ GW-06
Sample collected by John Syer

9:22 Switch to bailer, peristalic pump was not operating
Cyanide labeled "poly" was filled with bailer.
VOA, semivolatile, and Total metals were collected with the peristalic pump

9:27 Completion of sample collection GW-06

John Syer 1/25/01

1/25/01

GW-07 monitoring well

9:49 ~~Sm~~ Water level measurement - Dept to Water = 2.18 feet
1 1/2 foot riser above the surface.

9:55 Begin purging monitoring well GW-07 with bailer

Purge Water Parameter

- Purge Water very silty

	ph	cond	temp	
10:07	6.94	~~0~~ 47.50 ms ~~18.9~~	19.2 C°	0.75 gallons purged
10:22	6.88	47.98 ms	20.5 C°	1.50 gallons purged
10:29	6.78	50.25 ms	20.6 C°	2.00 gallons purged
10:34	6.76	51.41 ms	20.4 C°	2.50 gallons purged

~~10:27~~ ~~Switched to new bailer~~, silt had damaged the first bailer.

10:22 New Bailer was used to push the current bailer down into the groundwater. This inverted the bailer plug to rise and the bailer would subsequently fill.

10:48 Collecting ground water sample GW-07
Collected by John Syer

11:05 Completion of sample collection (GW-07)

JHSyer 1/25/01

1/25/01

GW-04, GW-05
monitoring well
11:14 Water level measurement - Depth to Groundwater
4.1 feet

11:23 Began Purging monitoring well GW-04, ~~GW-05~~ J.S.
Purge Water was very silty

11:27 Tube for peristalic pump clogged with silt. Tube was pulled out of PVC-well. Organic materials were observed - Organic smell noted
11:29 Purging ceased
11:29 New suction tube was used to purge well. The previous tube was clogged with silt.

11:31 Purging resumed - Purge water had strong ~~organic~~ J.S. organic odor
11:35 ← Organic Sheen on the surface of the Purge water. Yellow to Red Coloration, Organic Particles
Safety Consideration - Organic Smell - Stayed ~~Downwind~~ J.S. Upwind
Purge Water Parameters
Wind blowing at 15mph from the Southeast

	ph	cond	temp	
11:39	6.08	34.73 ms	23.6 C°	0.75 gallon purged

11:57 ~~Pur~~ J.S. Monitoring well recharge is slow to recharge

	ph	cond	temp	
12:09	6.83	36.57 ms	20.2 C°	- 1.50 gallons purged

12:39 Due to purging difficulties at GW-04 MW, the duplicate GW-05 will be moved to the GW-01 monitoring location

1/25/01

1/25/01

Purge Water Parameter - GW-04

	ph	cond	temp	
12:41	6.71	32.60 ms	19.3 C	- Approx 2 gallons purged
13:05	7.00	38.25	22.5	- 2.25 gallons purged

After purging 3 Volumes, Johnny Kennedy made the decision to stop purging GW-04, let well sit and Recharge, then sample later. Next to nothing is being purged from Well GW-04 Will move to location GW-01 and collect the duplicate sample (GW-05) there

NOTE: DUPLICATE SAMPLE GW-05 WILL BE TAKEN AT SAMPLE LOCATION GW-01

17:00 Collection of GW-04 iniated, Collected by John Syer VOA were collected, BNA-Pest/PCB sample bottle was half full. Decision was made to let GW-04 mw recharge. While waiting for recharge, sample GW-09 would be collected.

J Syer 1/25/01 Johnny Kennedy 1/25/01

1/25/01

12:07 Field Blank collected at GW-04, GW05 location
Sample Designation - GW-21
Field Blank collected by John Syer

13:13 Depth to Water GW-01 from TOC
3.56' - ~2.5' of Stickup of Casing

13:23 Purging monitoring well MW-1

13:30 Strong Organic Odor noted, Organic Product on surface of the purge water

	ph	cond	Temp	
13:35	6.25	~~42.61~~ 43 ms	21.6 C°	- 1 gallon purged
13:39	6.29	43.76 ms	22.3 C°	- 1.5 gallons purged
13:46	6.24	50.61 ms	22.2 C°	2.0 gallons purged
13:51	6.23	50.26 ms	21.7 C°	2.5 gallons purged

13:54 Collection of groundwater sample GW-01 and Dup GW-05 initiated - collected by John Syer

14:28 Completion of sample collection (GW-01, ~~Depth Dup~~ J.S. GW-05, Duplicate of GW-01)

John Syer 1/25/01 John Syer 1/25/01

1/25/01

14:38 GW-03 - Depth to Water - 1.64
Total Depth - 24 feet
Stick up - 0.75 feet
0.9 gallons / volume

14:46 Began purging monitoring well GW-3
Strong Organic Odor

	ph	~~temp~~ T.S	cond.	temp	
14:53	6.12		59.75 ms	23.8 c°	1 gallon purged
14:59	6.28		57.92 ms	22.8 c°	2 " "
15:04	6.24		56.57 ms	22.5 c°	2.5 " "
15:08	6.28		56.10 ms	22.6 c°	3 " "

15:42 Collection of ground water sample GW-03 initiated
Collected by John Syer

15:54 Completion of sample collection GW-03

John Syer 1/25/01

1/25/01

16:01 GW-02 Depth to water 3.47 feet
Total Depth 24.0 feet
Stick up 2 feet

16:07 Began purging monitoring well GW-02
Faint Odor - Very Silty/Gray Silt/Sand

	ph	cond	temp	
16:20	7.15	35.97 ms	20.5 C°	- 1 gallon purged
16:27	7.05	37.12 ms	20.6 C°	- 2 gallons purged
16:30	7.01	38.24 ms	21.3 C°	- 2.5 gallons purged
16:33	7.00	38.65 ms	21.2 C°	- 3.0 gallons purged

16:35 Collection of groundwater sample GW-02 iniated
Collected by John Syer

16:45 Completion of sample collection GW-02

[signature] 1/25/01

1/25/01

17:24 GW-09 Depth to water - 1.71 feet
Total Depth - 20 feet
Stickup - 4 inche
0.75 gallons / volume of well

17:30 Began purging MW - GW-09, A bailer was used, due to peristalic pump malfunctions

17:32 No odor detected from purge water
17:40 Purging ceased
17:43 Switch to peristalic pump, Purging restarted

17:45 Faint Organic Odor detected

	ph	cond.	temp	
17:48	6.77	37.75	19.7 c°	- 1 gallon purged
17:50	purging ceased - Allow for recharge			
18:01	purging resumed			

	ph	cond	temp	
18:15	6.79	44.55	18.4	- 1.5 gallon purged
18:23	6.91	63.92	18.7	- 2.25 gallons purged

18:25 Collection of groundwater sample GW-09 initiated, collected by John Syen

18:54 Completion of sample collecting (GW-09)

John Syen 1/25/01

1/26/01

7:30 Arrive at the Gulfco Marine Maintenance Site

7:35 Set up staging Area

7:45 GW-08 MW Depth to Groundwater 2.16
Stickup - 0.5
Total Depth 20 feet
0.75 gallons /

8:01 Began purging monitoring well GW-8
Purge water - very silty, no odor, no sheen

	ph	cond	temp	
8:09	6.63	44.76	19.7 C°	- 0.75 gallons
8:21	6.86	46.78	20.2 C°	- 1.50 gallons
8:35	6.82	46.73	20.5 C°	- 2.00 gallons
8:42	6.73	46.76	20.4 C°	- 2.25 gallons

8:45 Collection of groundwater sample GW-08 iniated collected by John Syer

10:12 Completion of sample collection (GW-08)

1/26/01

1/26/00

8:30 Field blank GW-22 collection at monitoring well GW-08. Collected by John Syes.

JHSyes 1/26/01

1/25/01

7:31 Picture of collection of sample GW-11.
Photo #002, taken by John Syer
Facing West

9:05 Picture of collection of groundwater sample GW-11
Photo #003 taken by John Syer
Facing Northwest

10:50 Picture of collection of ground water sample GW-07
Photo #004 taken by John Syer
Facing Northeast

11:42 Picture of Purge water from monitoring well
GW-04, ~~GW-05~~ J.S, Photo #005, taken by John Syer
Facing West-Northwest

12:07 Picture of collection of ~~ground water sample G~~ J.S
field Blank GW-21
Photo # 006, taken by ~~John Syer~~ J.S Johnny Kennedy
Facing North-NE

12:46 Picture of purge water from monitoring well GW-04
Photo #007, Facing West-Northwest, taken by J. Syer

13:59 Pictures of collection of ground water sample GW-01
Photo #008, 009, Facing North, taken by J. Syer

15:44 Picture of collection of ground water sample GW-03
Photo # 010, Facing Southeast, taken by J. Syer

J Syer 1/25/01

1/25/01

16:36 Picture of collection of ground water sample GW-02
Photo #011, Facing Southwest, taken by John Syer

17:04 Picture of collecting of ground water sample GW-04
Photo #012, Facing South, taken by John Syer

18:31 Picture of collection of ground water sample GW-09
Photo #013, Facing South, taken by John Syer

John Syer 1/25/01

1/26/01

8:30 Picture of collection of field blank GW-22
Photo #014, Facing Northeast, take by Dale Helman

09:10 Photograph 15 - View to the N-NE of the collection of GW-09.

John Daniel 1/26/01

Pictures Taken on 1/25/01

Picture listed at 9:05 - 2nd picture for GW-11 is actually picture for GW-06.

John [illegible]
2/2/01