Bratcher, Mike, EMNRD

From: shelby.g.pennington@exxonmobil.com
Sent: Monday, September 20, 2010 12:47 PM
To: Bratcher, Mike, EMNRD
Cc: eric.imken@exxonmobil.com
Subject: Fw: ExxonMobil Corporation - Avalon Delaware Unit Well #238 (EPI Ref. #190037)
Attachments: FIGURE 6 Model (1).pdf; Table 3 - Soil Borings.pdf

Mike,
Here is all the samples and diagram. The site has been excavated approx 8 foot deep. I would like to install a liner and backfill. Please let me know how to proceed or any other information you would like.

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----- Forwarded by Shelby G Pennington/U-Houston/ExxonMobil on 09/20/2010 01:41 PM -----

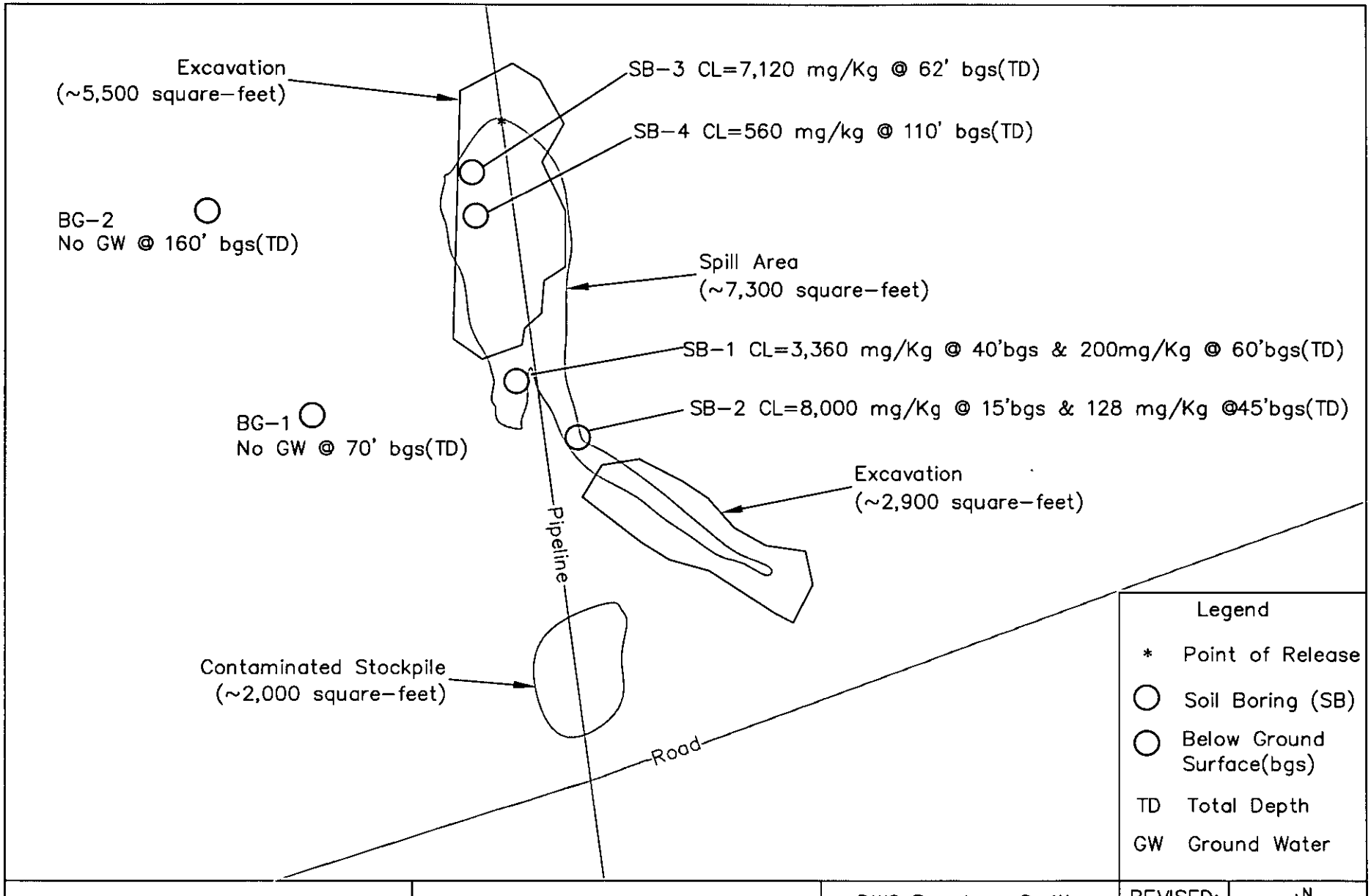

Figure 6 Soil Boring Map ExxonMobil Avalon Delaware Unit #238	Eddy County, New Mexico NE 1/4 of the SW 1/4, Sec. 30, T20S, R28E N 32° 32' 41.21" W 104° 13' 15.65" Elevation: 3,299 feet amsl	DWG By: Jerry Smith July 2010 0 60 120 Feet	REVISED: 2010 SHEET 1 of 1	N

TABLE 3

Summary Soil Boring Field Analyses and Laboratory Analytical Results

Exxon Mobil - Avalon Delaware Unit #238

NMOCD Ref. ; EPI Ref. #190037

UL-K (NE1/4 of the SW1/4) of Section 30, T20S. R28E; Eddy County, New Mexico

Sample ID	Depth (feet)	Soil Status	Sample Date	PID Reading (ppm)	Field Chloride (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	Carbon Ranges C6-C12 (mg/Kg)	Carbon Ranges >C12-C28 (mg/Kg)	Carbon Ranges >C28-C-35 (mg/Kg)	Total TPH C6-C35 (mg/Kg)	Chloride (mg/Kg)
BG #1 - S	0.5	Surface	13-Aug-09	–	240	--	--	--	--	--	--	--	--	--	--
BG #1 - 1	5	In situ	13-Aug-09	--	240	--	--	--	--	--	--	--	--	--	--
BG #1 - 2	10	In situ	13-Aug-09	--	240	--	--	--	--	--	--	--	--	--	--
BG #1-3	20	In situ	13-Aug-09	--	240	--	--	--	--	--	--	--	--	--	32
BG #1 - 4	30	In situ	13-Aug-09	--	240	--	--	--	--	--	--	--	--	--	--
BG #1 - 5	40	In situ	13-Aug-09	--	240	--	--	--	--	--	--	--	--	--	16
BG #1 - 6	50	In situ	13-Aug-09	--	240	--	--	--	--	--	--	--	--	--	--
BG #1 - 7	60	In situ	13-Aug-09	--	**	--	--	--	--	--	--	--	--	--	--
BG #1 - 8	70	In situ	13-Aug-09	--	**	--	--	--	--	--	--	--	--	--	--
BG #2	Soil Boring #2 advanced total depth of 160 v.f. on 6/14/10; tested for water on 6-15-10; (No soil samples collected as this was an exploration soil boring to determine depth of water; BG #2 dry hole with no water discovered at total depth of well)														
SB#1 - 1	5	In situ	13-Aug-09	--	>4,000	--	--	--	--	--	--	--	--	--	**32,800**
SB#1 - 2	10	In situ	13-Aug-09	--	>4,000	--	--	--	--	--	--	--	--	--	**13,400**
SB#1 - 3	15	In situ	13-Aug-09	--	>4,000	--	--	--	--	--	--	--	--	--	**12,200**
SB#1 - 4	20	In situ	13-Aug-09	--	>4,000	--	--	--	--	--	--	--	--	--	**10,800**
SB#1 - 5	25	In situ	13-Aug-09	--	>4,000	--	--	--	--	--	--	--	--	--	**6,500**
SB#1 - 6	30	In situ	13-Aug-09	--	>4,000	--	--	--	--	--	--	--	--	--	**6,800**
SB#1 - 7	40	In situ	13-Aug-09	--	2,640	--	--	--	--	--	--	--	--	--	**3,360**
SB#1 - 8	50	In situ	13-Aug-09	--	720	--	--	--	--	--	--	--	--	--	**656**
SB#1 - 9	60	In situ	13-Aug-09	--	320	--	--	--	--	--	--	--	--	--	200
SB#2 - 1	5	In situ	13-Aug-09	--	>4,000	--	--	--	--	--	--	--	--	--	**11,700**
SB#2 - 2	10	In situ	13-Aug-09	--	>4,000	--	--	--	--	--	--	--	--	--	--
SB#2 - 3	15	In situ	13-Aug-09	--	>4,000	--	--	--	--	--	--	--	--	--	**8,000**

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Sample ID	Depth (feet)	Soil Status	Sample Date	PID Reading (ppm)	Field Chloride (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	Carbon Ranges C6-C12 (mg/Kg)	Carbon Ranges >C12-C28 (mg/Kg)	Carbon Ranges >C28-C-35 (mg/Kg)	Total TPH C6-C35 (mg/Kg)	Chloride (mg/Kg)
SB#2 - 4	20	In situ	13-Aug-09	--	800	--	--	--	--	--	--	--	--	--	**608**
SB#2 - 5	25	In situ	13-Aug-09	--	560	--	--	--	--	--	--	--	--	--	**656**
SB#2 - 6	30	In situ	13-Aug-09	--	400	--	--	--	--	--	--	--	--	--	448
SB#2 - 7	35	In situ	13-Aug-09	--	640	--	--	--	--	--	--	--	--	--	416
SB#2 - 8	40	In situ	13-Aug-09	--	400	--	--	--	--	--	--	--	--	--	112
SB#2 - 9	45	In situ	13-Aug-09	--	320	--	--	--	--	--	--	--	--	--	128
SB#3 - 1	5	In situ	03-Mar-10	--	>4,000	--	--	--	--	--	--	--	--	--	**9,800**
SB#3 - 2	10	In situ	03-Mar-10	--	>4,000	--	--	--	--	--	--	--	--	--	--
SB#3 - 3	15	In situ	03-Mar-10	--	>4,000	--	--	--	--	--	--	--	--	--	**8,800**
SB#3 - 4	20	In situ	03-Mar-10	--	>4,000	--	--	--	--	--	--	--	--	--	--
SB#3 - 5	25	In situ	03-Mar-10	--	>4,000	--	--	--	--	--	--	--	--	--	**6,400**
SB#3 - 6	30	In situ	03-Mar-10	--	>4,000	--	--	--	--	--	--	--	--	--	--
SB#3 - 7	35	In situ	03-Mar-10	--	>4,000	--	--	--	--	--	--	--	--	--	**6,960**
SB#3 - 8	40	In situ	03-Mar-10	--	>4,000	--	--	--	--	--	--	--	--	--	--
SB#3 - 9	45	In situ	03-Mar-10	--	>4,000	--	--	--	--	--	--	--	--	--	**8,720**
SB#3 - 10	50	In situ	03-Mar-10	--	>4,000	--	--	--	--	--	--	--	--	--	--
SB#3 - 11	55	In situ	03-Mar-10	--	>4,000	--	--	--	--	--	--	--	--	--	**5,920**
SB#3 - 12	60	In situ	03-Mar-10	--	>4,000	--	--	--	--	--	--	--	--	--	--
SB#3 - 13	62	In situ	03-Mar-10	--	6,160	--	--	--	--	--	--	--	--	--	**7,120**
SB #4 - 0	0-7	Bottom of Excavation	24-Aug-10	--	--	--	--	--	--	--	--	--	--	--	--
SB #4 -1	10	In situ	24-Aug-10	--	>4,000	--	--	--	--	--	--	--	--	--	**7,200**
SB #4 - 2	15	In situ	24-Aug-10	--	>4,000	--	--	--	--	--	--	--	--	--	**7,000**

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Sample ID	Depth (feet)	Soil Status	Sample Date	PID Reading (ppm)	Field Chloride (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	Carbon Ranges C6-C12 (mg/Kg)	Carbon Ranges >C12-C28 (mg/Kg)	Carbon Ranges >C28-C-35 (mg/Kg)	Total TPH C6-C35 (mg/Kg)	Chloride (mg/Kg)
SB #4 - 3	20	In situ	24-Aug-10	--	>4,000	--	--	--	--	--	--	--	--	--	**6,880**
SB #4 - 4	25	In situ	24-Aug-10	--	>4,000	--	--	--	--	--	--	--	--	--	**8,400**
SB #4 - 5	30	In situ	24-Aug-10	--	>4,000	--	--	--	--	--	--	--	--	--	**7,100**
SB #4 - 6	40	In situ	24-Aug-10	--	>4,000	--	--	--	--	--	--	--	--	--	**8,560**
SB #4 - 7	50	In situ	24-Aug-10	--	>4,000	--	--	--	--	--	--	--	--	--	**7,760**
SB #4 - 8	60	In situ	24-Aug-10	--	>4,000	--	--	--	--	--	--	--	--	--	**5,840**
SB #4 - 9	70	In situ	24-Aug-10	--	1,440	--	--	--	--	--	--	--	--	--	**1,620**
SB #4 - 10	80	In situ	24-Aug-10	--	1,040	--	--	--	--	--	--	--	--	--	**1,200**
SB #4 - 11	90	In situ	24-Aug-10	--	640	--	--	--	--	--	--	--	--	--	**672**
SB #4 - 12	100	In situ	24-Aug-10	--	400	--	--	--	--	--	--	--	--	--	**400**
SB #4 - 13	110	In situ	24-Aug-10	--	560	--	--	--	--	--	--	--	--	--	**560**
NMOCD Remedial Thresholds				100		10				50				1,000	500

Bold values exceed NMOCD remedial threshold goals

* * = Soilds would not settle out due to clay particulate matter

- - = Not Analyzed

Soil Sample Nomenclature: SB = Soil Boring Hole; BG = Background Soil Boring Hole; S = Surface