

******* LIQUID SPILLS - VOLUME CALCULATIONS *******

Location of spill: Corral Canyon 36-25 CTB

Date of Spill: 1/22/2019

Site Soil Type: Liner

Average Daily Production: BBL Oil BBL Water

Total Area Calculations						
Total Surface Area	width		length		wet soil depth	oil (%)
Rectangle Area #1	24 ft	X	135 ft	X	2 in	100%
Rectangle Area #2	52 ft	X	42 ft	X	1 in	100%
Rectangle Area #3	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #4	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #5	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #6	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #7	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #8	0 ft	X	0 ft	X	0 in	0%

Porosity 0.16 gal per gal

Saturated Soil Volume Calculations:

		<u>H2O</u>	<u>OIL</u>	
Area #1	3240 sq. ft.	cu. ft.	540	cu. ft.
Area #2	2184 sq. ft.	cu. ft.	182	cu. ft.
Area #3	0 sq. ft.	cu. ft.		cu. ft.
Area #4	0 sq. ft.	cu. ft.		cu. ft.
Area #5	0 sq. ft.	cu. ft.		cu. ft.
Area #6	0 sq. ft.	cu. ft.		cu. ft.
Area #7	0 sq. ft.	cu. ft.		cu. ft.
Area #8	0 sq. ft.	cu. ft.		cu. ft.
Total Solid/Liquid Volume:	5,424 sq. ft.	cu. ft.	722	cu. ft.

Estimated Volumes Spilled

	<u>H2O</u>	<u>OIL</u>	
Liquid in Soil:	0.0 BBL	20.6	BBL
Liquid Recovered :	0.0 BBL	80.0	BBL
Spill Liquid	0.0 BBL	100.6	BBL
Total Spill Liquid:		100.6	

Recovered Volumes

Estimated oil recovered: **80.0 BBL**
 Estimated water recovered: **0.0 BBL**

<u>Soil Type</u>	<u>Porosity</u>
Clay	0.15
Peat	0.40
Glacial Sediments	0.13
Sandy Clay	0.12
Silt	0.16
Loess	0.25
Fine Sand	0.16
Medium Sand	0.25
Coarse Sand	0.26
Gravelly Sand	0.26
Fine Gravel	0.26
Medium Gravel	0.25
Coarse Gravel	0.18
Sandstone	0.25
Siltstone	0.18
Shale	0.05
Limestone	0.13
Basalt	0.19
Volcanic Tuff	0.20
Standing Liquids	