

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

Location of spill: Cedar Canyon 22 15 Fee 34H Lact Unit #7

Date of Spill: 10/22/2019

Site Soil Type: ie Sand (Caliche)

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	139 ft	X	1 in	100%
Rectangle Area #2	34 ft	X	34 ft	X	1 in	100%
Rectangle Area #3	20 ft	X	44 ft	X	1 in	100%
Rectangle Area #4	10 ft	X	34 ft	X	1 in	100%
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	3336 sq. ft.	cu. ft.	139	cu. ft.
Area #2	1156 sq. ft.	cu. ft.	48	cu. ft.
Area #3	880 sq. ft.	cu. ft.	37	cu. ft.
Area #4	340 sq. ft.	cu. ft.	14	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:	5,712 sq. ft.	cu. ft.	238	cu. ft.

Estimated Volumes Spilled

	<u>H2O</u>	<u>OIL</u>	
Liquid in Soil:	0.0 BBL	6.8	BBL
Liquid Recovered :	0.0 BBL	0.0	BBL
Spill Liquid	0.0 BBL	6.8	BBL
Total Spill Liquid:		6.8	

Recovered Volumes

Estimated oil recovered: 0.0 BBL
 Estimated water recovered: 0.0 BBL

Soil Type	Porosity
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
Gravely 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	

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