HO109-06

Lateral and Orifice Spacing Worksheet "L"

Step 1. Determine Daily Design Flow L/day

_____ L/Day **L-1**

SPM Version 3 Section II- 5.1

Step 2. Determine Hydraulic Loading rate L/day/M2

***Use sand HLR if designing a sand mound, otherwise use soil HLR**

SPM Table II- 22 or II- 23 or II- 24 _____ L/Day/m^2 **L-2**

Step 3. Determine Area of Infiltrative Surface M2

DDF (L/D)		HLR (L/D/m^2)		AIS	
_____	divided by	_____	=	_____	m^2 **L-3**
from L-1		**from L-2**			

Step 4. Determine Total number of Orifices as per SPM V3 requirements

AIS (m^2)		per/m^2			
_____	divided by	0.56 m^2	=	_____	orifices **L-4**
from L-3		**from SPM V3**			

Step 5. Determine Minimum Contour Length SPM V3 - Section ii- 5.6

DDF (L/D)		LLR (L/D/m)		MCL	
_____	divided by	_____	=	_____	m **L-5**
from L-1		**SPM Table II- 27 or II- 28**			

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Step 6. Determine Number of Runs

Step 6(a) Orifices [ ] **from L-4** X Meter spacing [ ] **begin with 0.6M spacing** = Total lateral length [ ] m 6(a)

Step 6(b) Total lateral length [ ] **from L-6 (a)** divided by MCL (m) [ ] **from L-5** = Always round up [ ] Runs 6(b)

Answer from 6(b) rounded up [ ] Runs **L-6**

Step 7. Determine Actual Orifice Spacing

Step 7(a) Minimum Contour length [ ] **from L-5** X Number of Runs [ ] **from L-6** = [ ] m Total 7(a)

Step 7(b) Total Length [ ] **from 7 (a)** divided by Total orifice number [ ] **from L-4** = Always round up [ ] Spacing 7(b)

Answer from 7(b) [ ]

Summary

Total number of orifices	[ ]	from L4
Total Length of each run	[ ] m	from L5
Total number of Runs Final	[ ]	from L6
Orifice Spacing	[ ]	from L7
Number of Laterals each run	[ ]	**L 8** Select 2 or 4
Total number of laterals	[ ]	**L 9** **L6 X L8**
Length of each lateral	[ ]	**L 10** **L5 divided by L8**