MODRET

SUMMARY OF UNSATURATED & SATURATED INPUT PARAMETERS

PROJECT NAME: Montesa
MANUAL RUNOFF DATA USED
UNSATURATED ANALYSIS INCLUDED

Pond Bottom Area	60,000.00 ft²
Pond Volume between Bottom & DHWL	102,000.00 ft³
Pond Length to Width Ratio (L/W)	2.53
Elevation of Effective Aquifer Base	100.60 ft
Elevation of Seasonal High Groundwater Table	107.60 ft
Elevation of Starting Water Level	110.60 ft
Elevation of Pond Bottom	110.60 ft
Design High Water Level Elevation	112.30 ft
Avg. Effective Storage Coefficient of Soil for Unsaturated Analysis	0.20
Unsaturated Vertical Hydraulic Conductivity	4.00 ft/d
Factor of Safety	1.00
Saturated Horizontal Hydraulic Conductivity	12.00 ft/d
Avg. Effective Storage Coefficient of Soil for Saturated Analysis	0.20
Avg. Effective Storage Coefficient of Pond/Exfiltration Trench	1.00

Hydraulic Control Features:

Groundwater Control Features - Y/N

Distance to Edge of Pond Elevation of Water Level

Impervious Barrier - Y/N

Elevation of Barrier Bottom

Тор	Bottom	Left	Right
N	N	N	N
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
N	N	N	N
0.00	0.00	0.00	0.00

Analysis Date: 8/11/2021

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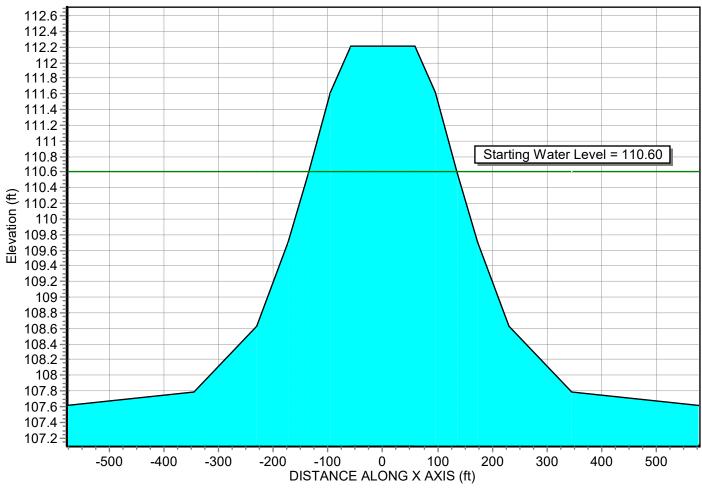
TIME - RUNOFF INPUT DATA

PROJECT NAME: MONTESA

STRESS PERIOD NUMBER	INCREMENT OF TIME (hrs)	VOLUME OF RUNOFF (ft³)
Unsat	4.80	48,000.00
1	24.00	47.00
2	24.00	12.00
3	24.00	14,320.00
4	24.00	3,830.00
5	24.00	1,360.00
6	24.00	323.00
7	24.00	29.00
8	24.00	22.00
9	24.00	0.00
10	24.00	0.00
11	24.00	0.00
12	24.00	0.00
13	24.00	7,152.00
14	24.00	4,774.00
15	24.00	130,338.00
16	24.00	639.00
17	24.00	5,074.00
18	24.00	10,750.00
19	24.00	5,166.00
20	24.00	5,372.00
21	24.00	60.00
22	24.00	10,628.00
23	24.00	10,741.00
24	24.00	985.00
25	24.00	6,158.00
26	24.00	229.00
27	24.00	25.00
28	24.00	21.00
21 29	24.00	0.00

Analysis Date: 8/11/202

CROSS SECTION: Montesa



CROSS SECTION ALONG X AXIS AT Y AXIS = 0.00 ft @ 556 hrs

Jesse Jarrell

From:

Henry Wright <henryw@esnw.com>

Sent:

Thursday, August 12, 2021 12:31 PM

To:

Jesse Jarrell

Cc:

Cooper Danby; Kyler Kelly

Subject:

RE: Montesa/Marsyville 10 - Mounding Analysis

CAUTION: This email originated from outside of LDC. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hi Jesse,

With a 4' separation, the mounding analysis still shows a mound into the facility to an elevation of about 111.6'

Thank you,

Henry T. Wright, P.E.
Senior Project Manager
Earth Solutions NW, LLC

Phone: 425-449-4704 Cell: 206-793-4193 Email: <u>henryw@esnw.com</u>

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From: Henry Wright

Sent: Thursday, August 12, 2021 11:47 AM **To:** 'Jesse Jarrell' <jjarrell@ldccorp.com>

Cc: Cooper Danby <cdanby@ldccorp.com>; Kyler Kelly <kylerk@esnw.com>

Subject: RE: Montesa/Marsyville 10 - Mounding Analysis

Hi Jesse,

Thanks for the clarification, we will rerun with 4' separation and let you know.

Thank you,

Henry T. Wright, P.E.
Senior Project Manager
Earth Solutions NW, LLC

Phone: 425-449-4704 Cell: 206-793-4193

Email: henryw@esnw.com

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From: Jesse Jarrell < jjarrell@ldccorp.com>
Sent: Thursday, August 12, 2021 11:40 AM
To: Henry Wright < henryw@esnw.com>