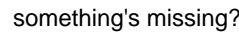


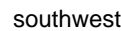
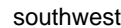
1 (1)

SKP-18-003

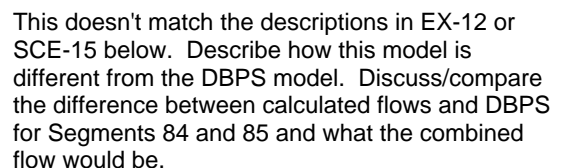
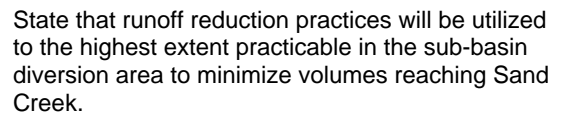
10 (1)



14 (3)




15 (4)



of land located off-site, southeast of Sterling Ranch. This basin runs from Basins EC-10 and HA combine at southern boundary of land a few small parcels within the Sterling Ranch property. Just West of the 1000' line. (See map on page 26) (See map on page 26)


land located at the east portion of the site. Runoff from the basin is EC-13 at DP-34(2) = 13.2 cfs, Q100 = 79.4 cfs. The runoff why is this so high?

developed runoff rates, drainage patterns as well as existing and s of the report. A table of peak developed runoff for the basin can be found in the appendix and the attached area chart

Subject: Cloud+
Page Index: 15
Date: 10/11/2018 3:38:33 PM
Author: dsdrice
Color: 
Page Label: 15

why is this so high?


development runoff rates, drainage patterns as well as existing and s of the report. A table of peak developed runoff for the basin can be found in the appendix and the attached area chart

Subject: Callout
Page Index: 15
Date: 10/11/2018 3:38:52 PM
Author: dsdrice
Color: 
Page Label: 15

This step is about permanent BMPs for high-intensity industrial and commercial uses (not construction BMPs). Address these types of uses specifically (ECM I.7.2.B.).


16 (4)

provide exhibit showing where (also provide with deviation request)

Subject: Callout
Page Index: 16
Date: 10/11/2018 1:58:38 PM
Author: dsdrice
Color: 
Page Label: 16


provide exhibit showing where (also provide with deviation request)

h of Sterling Ranch and Burgess Road
In this undeveloped condition runoff
west
i of 5 and 10-acre lots covered with a
h of Burgess Road to the east and nor
14 (Q15 = 63.5 cfs, Q100 = 262.8 cfs), 1
8 cfs.

Subject: Cloud+
Page Index: 16
Date: 10/11/2018 3:26:22 PM
Author: dsdrice
Color: 
Page Label: 16


west

North of Sterling Ranch and Burgess Road to the east Basins SC3-81,
and. In this undeveloped condition runoff from the basin continues
area of 5 and 10-acre lots covered with a mixture of native prairie
north of Sterling Ranch to the east and north of Basins SC3-73 and
DP-74 (Q15 = 63.5 cfs, Q100 = 262.8 cfs), which is representative of the
262.8 cfs.
area of 5 and 10-acre lots covered with a mixture of native prairie
be southeast of Voltaire Road. Runoff from the Basins SC3-73 will
add 65.37.

Subject: Cloud+
Page Index: 16
Date: 10/11/2018 3:27:40 PM
Author: dsdrice
Color: 
Page Label: 16

65.3?


equal to?

Subject: Cloud+
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Date: 10/11/2018 3:44:45 PM
Author: dsdrice
Color: 
Page Label: 16

equal to?


17 (5)

38.6?

Subject: Cloud+
Page Index: 17
Date: 10/11/2018 3:52:34 PM
Author: dsdrice
Color: 
Page Label: 17

38.6?

developed rates for these areas. Runoff from the basin will be calculated based on the following:

Subject: Callout
Page Index: 17
Date: 10/11/2018 4:04:54 PM
Author: dsdrice
Color: 
Page Label: 17

south of Arroya Lane

affine area located to the east of Voltaire Road near the northern end that the area will be developed into 2 to 5 acre lots, including a proposed full spectrum detention facility (FSD22) located at the 2 to 5 acre flow rates of 0.4 cfs and 0.2 cfs in the 5 and 100 year flood. FSD22 will combine at FSD72 with peak flow rate of 0.2 cfs. Runoff from FSD72 will combine with the local Creek at FSD72.

5 Ac. lots?

if located both within Sterling Ranch (near the northern boundary) and located both within Sterling Ranch (near the northern boundary) all be developed into 2.5 acre lots, prior to the development of the project in 2017. Runoff from FSD72 and FSD72 will combine at FSD72.

and in the TimberRidge development

land located both within Sterling Ranch (near the northern boundary) and located both within Sterling Ranch (near the northern boundary) all be developed into 2.5 acre lots, prior to the development of the project in 2017. Runoff from FSD72 and FSD72 will combine at FSD72.

1 to 2.5 acre lots?

Subject: Cloud+
Page Index: 17
Date: 10/11/2018 4:16:16 PM
Author: dsdrice
Color:
Page Label: 17

5 Ac. lots?

Subject: Callout
Page Index: 17
Date: 10/12/2018 2:07:52 PM
Author: dsdrice
Color:
Page Label: 17

and in the TimberRidge development

Subject: Cloud+
Page Index: 17
Date: 10/12/2018 2:08:33 PM
Author: dsdrice
Color:
Page Label: 17

1 to 2.5 acre lots?

18 (3)

and in the TimberRidge development

Subject: Callout
Page Index: 18
Date: 10/12/2018 2:10:24 PM
Author: dsdrice
Color:
Page Label: 18

and in the TimberRidge development

1 to 2.5 acre lots?

Subject: Cloud+
Page Index: 18
Date: 10/12/2018 2:11:07 PM
Author: dsdrice
Color:
Page Label: 18

1 to 2.5 acre lots?

doesn't make sense

Subject: Cloud+
Page Index: 18
Date: 10/12/2018 2:12:32 PM
Author: dsdrice
Color:
Page Label: 18

doesn't make sense

19 (4)

west?

Subject: Cloud+
Page Index: 19
Date: 10/14/2018 8:36:48 PM
Author: dsdrice
Color:
Page Label: 19


west?

east?


Subject: Cloud+
Page Index: 19
Date: 10/14/2018 8:37:24 PM
Author: dsdrice
Color:
Page Label: 19

east?

stream side
box culvert


Subject: Highlight
Page Index: 19
Date: 10/14/2018 8:41:50 PM
Author: dsdrice
Color: 
Page Label: 19

see Pond W3 sheet redlines


Subject: Callout
Page Index: 19
Date: 10/14/2018 8:45:09 PM
Author: dsdrice
Color: 
Page Label: 19

see Pond W3 sheet redlines


20 (4)

Subject: Callout
Page Index: 20
Date: 10/14/2018 8:50:21 PM
Author: dsdrice
Color: 
Page Label: 20


mention their detention facilities and outfalls.

Subject: Cloud+
Page Index: 20
Date: 10/14/2018 8:54:53 PM
Author: dsdrice
Color: 
Page Label: 20

west


Subject: Cloud+
Page Index: 20
Date: 10/14/2018 8:55:21 PM
Author: dsdrice
Color: 
Page Label: 20

west


Subject: Cloud+
Page Index: 20
Date: 10/14/2018 9:00:13 PM
Author: dsdrice
Color: 
Page Label: 20

downstream?

22 (4)


Subject: Cloud+
Page Index: 22
Date: 10/15/2018 11:21:50 AM
Author: dsdrice
Color: 
Page Label: 22

DP3E

Subject: Cloud+
Page Index: 22
Date: 10/15/2018 11:26:33 AM
Author: dsdrice
Color: 
Page Label: 22


DP56?

about 10/15/2018 The project is a proposed... south. Explain when (timing)

Subject: Cloud+
Page Index: 22
Date: 10/15/2018 11:43:41 AM
Author: dsdrice
Color: 
Page Label: 22

south. Explain when (timing)


...between developed and DBPS flows. Provide deviation request for diversion.

Subject: Callout
Page Index: 22
Date: 10/15/2018 11:44:40 AM
Author: dsdrice
Color: 
Page Label: 22

Explain differences between developed and DBPS flows. Provide deviation request for diversion.


23 (3)

the
as
of

Subject: Highlight
Page Index: 23
Date: 10/14/2018 9:12:23 PM
Author: dsdrice
Color: 
Page Label: 23


Reword this to match comment response (no intent to increase flows...)

...to match comment response (no intent to increase flows...)

Subject: Cloud+
Page Index: 23
Date: 10/15/2018 11:44:59 AM
Author: dsdrice
Color: 
Page Label: 23


Pending deviation approval; address requirement to release at historic rates, only allowed to increase if accounted for in downstream improvements.

...to release at historic rates, only allowed to increase if accounted for in downstream improvements.

Subject: Cloud+
Page Index: 23
Date: 10/15/2018 11:48:36 AM
Author: dsdrice
Color: 
Page Label: 23


decimal?

...decimal?
Check Ranch Basin produced discharge between
instability to the modeled flow rates can be attri

Subject: Cloud+
Page Index: 28
Date: 10/15/2018 12:17:51 PM
Author: dsdrice
Color: 
Page Label: 28


clarify

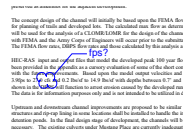
...clarify

Subject: Cloud+
Page Index: 30
Date: 10/15/2018 9:11:49 PM
Author: dsdrice
Color: 
Page Label: 30

Address proposed improvements specifically.

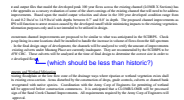
...Address proposed improvements specifically.

Subject: Callout
Page Index: 30
Date: 10/15/2018 9:12:53 PM
Author: dsdrice
Color: 
Page Label: 30



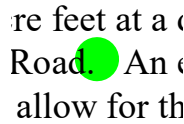
Subject: Cloud+
Page Index: 31
Date: 10/15/2018 9:22:10 PM
Author: dsdrice
Color: ■
Page Label: 31

fps?

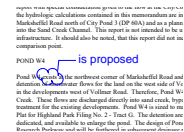


Subject: Callout
Page Index: 31
Date: 10/15/2018 9:24:07 PM
Author: dsdrice
Color: ■
Page Label: 31

(which should be less than historic?)

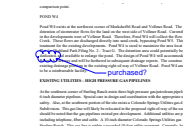


Subject: Highlight
Page Index: 33
Date: 10/15/2018 9:34:44 PM
Author: dsdrice
Color: ■
Page Label: 33



Subject: Cloud+
Page Index: 33
Date: 10/15/2018 9:36:43 PM
Author: dsdrice
Color: ■
Page Label: 33

is proposed



Subject: Cloud+
Page Index: 33
Date: 10/15/2018 9:37:54 PM
Author: dsdrice
Color: ■
Page Label: 33

purchased?



Subject: Highlight
Page Index: 50
Date: 10/15/2018 9:48:40 PM
Author: dsdrice
Color: ■
Page Label: 50



Subject: Highlight
Page Index: 52
Date: 10/11/2018 11:22:22 AM
Author: dsdrice
Color: ■
Page Label: 52



Subject: Highlight
Page Index: 52
Date: 10/11/2018 11:22:24 AM
Author: dsdrice
Color: ■
Page Label: 52



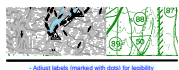
Subject: Highlight
Page Index: 52
Date: 10/11/2018 11:22:26 AM
Author: dsdrice
Color: ■
Page Label: 52



Subject: Highlight
Page Index: 52
Date: 10/11/2018 11:22:27 AM
Author: dsdrice
Color: ■
Page Label: 52

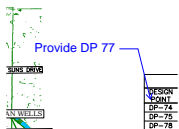


Subject: Highlight
Page Index: 52
Date: 10/11/2018 11:23:02 AM
Author: dsdrice
Color: ■
Page Label: 52



Subject: Text Box
Page Index: 52
Date: 10/11/2018 11:23:52 AM
Author: dsdrice
Color: ■
Page Label: 52

- Adjust labels (marked with dots) for legibility



Subject: Callout
Page Index: 52
Date: 10/12/2018 1:52:08 PM
Author: dsdrice
Color: ■
Page Label: 52

Provide DP 77

DP-50	DP-51	DP-52	DP-53	DP-54	DP-55	DP-56	DP-57	DP-58	DP-59	DP-60	DP-61	DP-62	DP-63	DP-64	DP-65	DP-66	DP-67	DP-68	DP-69	DP-70	DP-71	DP-72	DP-73	DP-74	DP-75	DP-76	DP-77	DP-78	DP-79	DP-80	DP-81	DP-82	DP-83	DP-84	DP-85	DP-86	DP-87	DP-88	DP-89	DP-90	DP-91	DP-92	DP-93	DP-94	DP-95	DP-96	DP-97	DP-98	DP-99
-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------

Provide a table of SCDBPS East flows for reaches and DPs to DP50-52.

Subject: Text Box
Page Index: 52
Date: 10/12/2018 2:05:42 PM
Author: dsdrice
Color: ■
Page Label: 52

Provide a table of SCDBPS East flows for reaches and DPs to DP50-52.



Subject: Text Box
Page Index: 53
Date: 10/12/2018 2:05:09 PM
Author: dsdrice
Color: ■
Page Label: 53

Provide a table of SCDBPS East flows for reaches and DPs to DP50-52.

NO.	DATE	REVISION	DESCRIPTION
1	10/12/2018	1	PROPOSED CONSTRUCTION
2	10/15/2018	2	PROPOSED CONSTRUCTION
3	10/15/2018	3	PROPOSED CONSTRUCTION

Add DP56

Subject: Callout
Page Index: 53
Date: 10/12/2018 2:05:24 PM
Author: dsdrice
Color: ■
Page Label: 53

Add DP56

NO.	DATE	REVISION	DESCRIPTION
1	10/15/2018	1	PROPOSED CONSTRUCTION
2	10/15/2018	2	PROPOSED CONSTRUCTION
3	10/15/2018	3	PROPOSED CONSTRUCTION

Subject: Callout
Page Index: 53
Date: 10/15/2018 10:00:43 PM
Author: dsdrice
Color: ■
Page Label: 53

Add corresponding DP/general location after each pond ID.

NO.	DATE	REVISION	DESCRIPTION
1	10/15/2018	1	PROPOSED CONSTRUCTION
2	10/15/2018	2	PROPOSED CONSTRUCTION
3	10/15/2018	3	PROPOSED CONSTRUCTION

Subject: Cloud+
Page Index: 53
Date: 10/15/2018 10:03:15 PM
Author: dsdrice
Color: ■
Page Label: 53

These need to be less than historic

54 (1)



Subject: Highlight
Page Index: 54
Date: 10/15/2018 10:09:56 PM
Author: dsdrice
Color: ■
Page Label: 54

158 (3)

NO.	DATE	REVISION	DESCRIPTION
1	10/8/2018	1	PROPOSED CONSTRUCTION
2	10/8/2018	2	PROPOSED CONSTRUCTION
3	10/8/2018	3	PROPOSED CONSTRUCTION

Subject: Cloud+
Page Index: 158
Date: 10/8/2018 1:11:56 PM
Author: dsdrice
Color: ■
Page Label: 158

Show and provide description of inlet structure design and function.

NO.	DATE	REVISION	DESCRIPTION
1	10/8/2018	1	PROPOSED CONSTRUCTION
2	10/8/2018	2	PROPOSED CONSTRUCTION
3	10/8/2018	3	PROPOSED CONSTRUCTION

Subject: Callout
Page Index: 158
Date: 10/8/2018 1:32:25 PM
Author: dsdrice
Color: ■
Page Label: 158

(viewport can be shifted down to keep the same scale)

NO.	DATE	REVISION	DESCRIPTION
1	10/8/2018	1	PROPOSED CONSTRUCTION
2	10/8/2018	2	PROPOSED CONSTRUCTION
3	10/8/2018	3	PROPOSED CONSTRUCTION

Subject: Callout
Page Index: 158
Date: 10/8/2018 1:43:33 PM
Author: dsdrice
Color: ■
Page Label: 158

Provide embankment and spillway north of the road, bridge under road to handle developed 100-year flow 2300-2700 cfs with freeboard per criteria.


159 (1)

NO.	DATE	REVISION	DESCRIPTION
1	10/15/2018	1	PROPOSED CONSTRUCTION
2	10/15/2018	2	PROPOSED CONSTRUCTION
3	10/15/2018	3	PROPOSED CONSTRUCTION

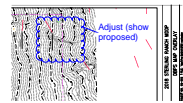
Subject: Cloud+
Page Index: 159
Date: 10/15/2018 12:47:34 PM
Author: dsdrice
Color: ■
Page Label: 159


Address bridge culvert freeboard requirements



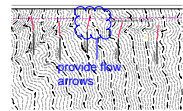
Subject: Cloud+
Page Index: 162
Date: 10/15/2018 12:49:34 PM
Author: dsdrice
Color: 
Page Label: 162


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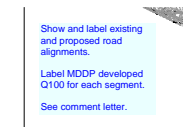
Subject: Cloud+
Page Index: 241
Date: 10/15/2018 10:44:35 PM
Author: dsdrice
Color: 
Page Label: 241


Adjust (show proposed)



Subject: Cloud+
Page Index: 241
Date: 10/15/2018 10:45:28 PM
Author: dsdrice
Color: 
Page Label: 241

provide flow arrows



Subject: Text Box
Page Index: 241
Date: 10/15/2018 10:46:09 PM
Author: dsdrice
Color: 
Page Label: 241

Show and label existing and proposed road alignments.
Label MDDP developed Q100 for each segment.
See comment letter.