Exhibit 11

Prosecution Team Evidence List Exhibits for:

Rocklin Crossings

Hartzell, Marty@Waterboards

From: Okamoto, Mayumi@Waterboards
Sent: Friday, February 15, 2013 3:53 PM
To: Hartzell, Marty@Waterboards; Rosenbaum, Steve@Waterboards; Wyels, Wendy@Waterboards
Subject: FW: Follow-up clarification Response to NOV & 13267 Order for Rocklin Crossings
Attachments: Letter to M. Okamoto SWRCB with attachment (00203898).pdf

Here you go...

Have a nice three day weekend.

From: Howard Wilkins III [mailto:cwilkins@rmmenvirolaw.com]
Sent: Friday, February 15, 2013 3:49 PM
To: Okamoto, Mayumi@Waterboards
Cc: Boyers, David@Waterboards; Thorme, Melissa (mthorme@DowneyBrand.com); Jan Petersen; Bob Aroyan (bob.aroyan@deacon.com); Andy Van Veldhuizen <andy.vanveldhuizen@deacon.com> (andy.vanveldhuizen@deacon.com); David Mossman; Scott Lawrence
Subject: RE: Follow-up clarification Response to NOV & 13267 Order for Rocklin Crossings

Ms. Okamoto,

Attached is our response to your February 11, 2013 e-mail (see below). Following up on our conversation yesterday, I renew my request that your office agree to an informal meeting with my client, Donahue Schriber, and with the site's contractor, S.D. Deacon, prior to initiating any formal enforcement actions in this matter. As indicated in the attached letter, we believe this is critical to ensure the Rocklin Crossings site's future compliance with your office's interpretation of the Construction General Permit. If you have any questions about the attached letter or believe additional information is needed to evaluate the site's compliance with the Construction General Permit, please contact me at your earliest convenience at (916) 443-2745. Thank you.

Best Regards,

Chip Wilkins
Attorney

REMY | MOOSE | MANLEY LLP

455 Capitol Mall, Suite 210 | Sacramento, CA 95814
P (916) 443-2745 x 210 | F (916) 443-9017
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From: Okamoto, Mayumi@Waterboards [mailto:Mayumi.Okamoto@waterboards.ca.gov]
Sent: Thursday, February 14, 2013 11:10 AM
To: Howard Wilkins III
Cc: Thorme, Melissa (mthorme@DowneyBrand.com); Boyers, David@Waterboards
Subject: RE: Follow-up clarification Response to NOV & 13267 Order for Rocklin Crossings

Chip,
This email confirms an extension until tomorrow 2/15/13 to respond to the clarifying questions in our email dated 2/11/13.

Thanks.

-Mayumi

Mayumi E. Okamoto
Attorney, Office of Enforcement
State Water Resources Control Board
1001 "I" Street, 16th Floor
Sacramento, California 95814
Direct: 916.341.5674
Fax: 916.341.5896

From: Howard Wilkins III [mailto:cwilkins@rmmenvirolaw.com]
Sent: Thursday, February 14, 2013 10:36 AM
To: Okamoto, Mayumi@Waterboards
Cc: Thorme, Melissa (mthorme@DowneyBrand.com); Boyers, David@Waterboards
Subject: RE: Follow-up clarification Response to NOV & 13267 Order for Rocklin Crossings
Importance: High

Mayumi,

This e-mail follows up on the voicemail message I just left for you. As I mentioned in my message, I have a couple quick questions for you and would like an additional day to respond to your e-mail below. I have a hearing in San Francisco at 3:30 this afternoon and need to jump on a train at noon. Please contact me at your earliest convenience. Thank you.

Best Regards,

Chip Wilkins
cwilkins@rmmenvirolaw.com

CONFIDENTIALITY NOTICE: This electronic mail message and any attachments are intended only for the use of the addressee(s) named above and may contain information that is privileged, confidential and exempt from disclosure under applicable law. If you are not an intended recipient, or the employee or agent responsible for delivering this e-mail to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you received this e-mail message in error, please immediately notify the sender by replying to this message or by telephone. Thank you.

From: Okamoto, Mayumi@Waterboards [mailto:Mayumi.Okamoto@waterboards.ca.gov]
Sent: Monday, February 11, 2013 5:13 PM
To: Howard Wilkins III
Cc: Thorme, Melissa (mthorme@DowneyBrand.com); Boyers, David@Waterboards
Subject: Follow-up clarification Response to NOV & 13267 Order for Rocklin Crossings
Importance: High

The Central Valley Water Board staff has received and reviewed the response to the NOV & 13267 Order dated 1/25/13. After review, staff has a few follow-up questions **bolded below** to clarify some of the information provided in the response:

1. Section 2 on Page 5 refers to watersheds "Shed A and Shed B" that existed on the site prior to the 11/30 to 12/2 rain event and references the Appendix B Pre-Events SWPPP map. These Sheds are not shown on the Appendix B Pre-Events SWPPP map. **Do you have a map with Shed A and Shed B delineated? What is the acreage of each of the two Sheds?**

2. Regarding paragraph 2 on Page 9, **where is/was the "protected outlet culvert" located?** Also, Line 3 in paragraph 2 appears to have a word(s) missing in the third line following "on the south side of the..." **Please provide a corrected sentence**.

3. Paragraph 3 on Page 9 states that the earthen dike at the west end of the Dominguez Loop failed and the runoff was stopped within 1.5 hours. The NOV Response does not specifically state when the breach failure occurred, but S.D. Deacon estimated the failure to occur at 0830 hours in their 12/18/12 Summary of BMPs and other storm water control efforts submittal. S.D. Deacon staff also verbally stated on 12/12/12 at the Water Board office meeting that the Dominguez Loop Road earth dam breached around 8AM on 11/30/12, the temp basin was enlarged, and discharges off the site were stopped by "Friday night".

Water Board staff believe that the discharge of turbid storm water at the Dominguez Loop Road earth dam (aka Discharge Point #2) may have been temporarily interrupted as repair efforts were initiated. Water Board staff was on site on 11/30 from 0940 to approximately 1110 hours and turbid storm water was still discharging from Discharge Point #2 at 1100 hours when QSP Dave Clayson and Water Board staff left the Discharge Point #2 site. Water Board Photograph No. 76, taken at 1055 hours at Discharge Point #2 is attached for your review.

Based on this information, please revise your estimate of when discharges off the construction site were stopped.

4. Appendix F provides the estimated volume of sediment laden storm water discharged from the site. Figure 1 in Appendix F provides an estimate of the drainage area for Discharge Point #2 at 6.2 acres, but this area does not include storm water flowing from graded and compacted roads or areas north of the Dominguez Loop Road and Center at Secret Ravine properties. The drainage area for the Dominguez Loop Road and the Center at Secret Ravine sites is listed in SMARTS at 2.9 acres and 3.7 acres, respectively, which by itself is 6.6 acres.

Figure 1 includes a statement that the "Main area of site did not contribute discharge off-site", and "Effective onsite containment was in place for duration of storm." However, the 11/30/12 Daily Superintendent Report states that "Around 7:45am dike behind job trailer was overflowing causing dike to leak, water ran across Schriber way down to holding basin at Dominguez Loop." On 11/30, Water Board staff observed storm water ponding near the construction trailer and flowing south towards Schriber Way.

Based on this information, please reevaluate the Area 2 drainage area.

Please provide an email or a letter responding to the above four questions by COB Thursday, February 14th. Please contact myself or Supervising Senior Attorney David Boyers, who is cc'ed on this email, with any questions.

Thanks.

Mayumi E. Okamoto
Attorney, Office of Enforcement
State Water Resources Control Board
1001 "I" Street, 16th Floor

Sacramento, California 95814
Direct: 916.341.5674
Fax: 916.341.5896

RMM

REMY | MOOSE | MANLEY LLP

Howard "Chip" Wilkins III
cwilkins@rmmenvirolaw.com

February 15, 2013

Via E-mail Only

Ms. Mayumi E. Okamoto
Office of Enforcement
State Water Resources Control Board
1001 "I" Street, 16th Floor
Sacramento, California 95814

Re: Response to February 11, 2013 E-mail Requesting Follow-up Clarification Response to NOV & 13267 Order for Rocklin Crossings (WDID #5S31C364098, #5S31C364108, #5S31C364102, and #5S31C364105)

Dear Ms. Okamoto:

This letter responds to your February 11, 2013 e-mail requesting clarification of some of the information provided in the January 25, 2013 Response to Notice of Violation and Water Code Section 13267 Order Issued on December 21, 2012 for Rocklin Commons ("January 25, 2013 NOV Response"). This letter also follows up on our conversation yesterday and my request that your office agree to an informal meeting with my client, Donahue Schriber, and with the site's contractor, S.D. Deacon, prior to initiating any formal enforcement actions in this matter. As indicated in the January 25, 2013 NOV Response, my client and S.D. Deacon remain committed to working with the Regional Water Quality Control Board for the Central Valley Region ("Regional Board") and the Office of Enforcement to ensure the Rocklin Crossings construction site remains in compliance with the Construction General Permit in order to effectively protect water quality. If your office believes any violations of the Construction General Permit occurred at the site after reviewing the January 25, 2013 NOV Response, we believe it is critical that we understand the basis for such a determination to ensure future compliance at the site.

This response sets forth verbatim each question posed in your February 11, 2013 e-mail followed by my client's response. This response contains the information required by the General Permit for Storm Water Discharges Associated with Construction and land Disturbance Activities, Order No. 2009-0009-DWQ, as amended by Order No. 2010-0014-DWQ, issued by the California State Water Resources Control Board. The response does not equate to an admission of liability, of responsibility, of wrongdoing, or of any violation of the Construction General Permit, and does not constitute a waiver of any potential defenses. Please note that this response as well as my client's January 25, 2013 NOV Response represents their current knowledge based on information reasonably available to them and is as complete as is now required by law. The responses may not, however, contain other facts that might be obtained through

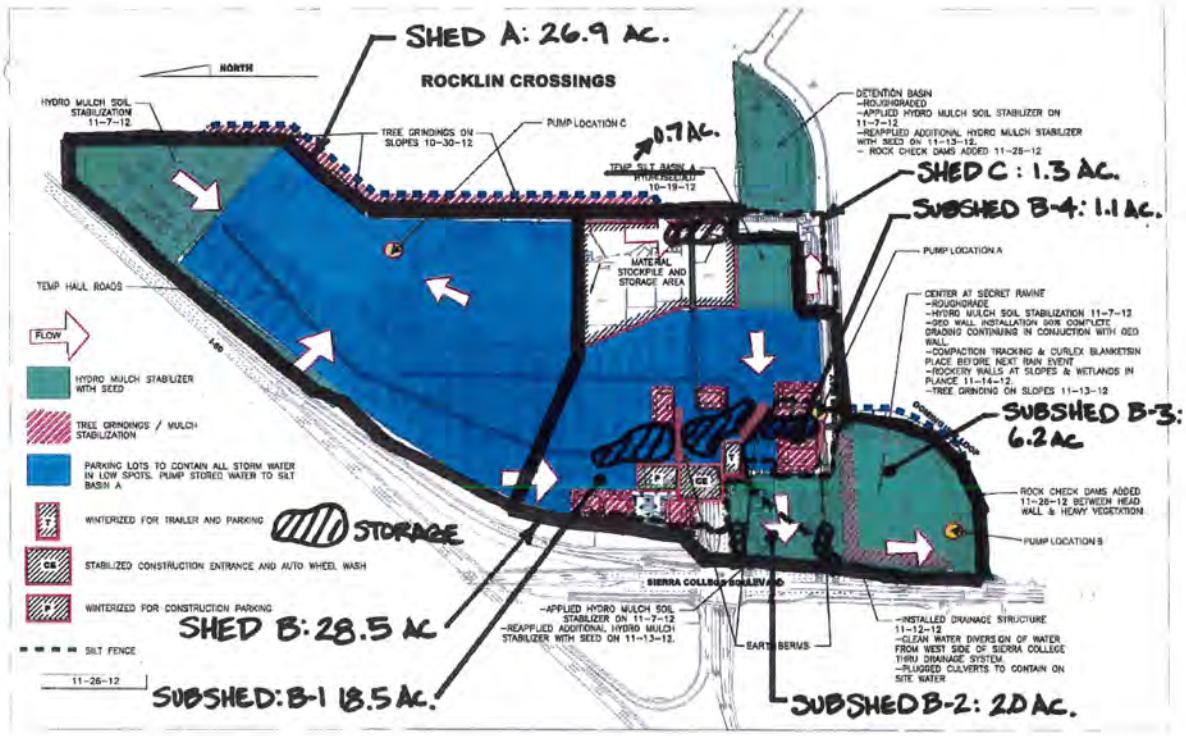
ongoing factual investigation, review, and analysis. Therefore, we specifically reserve the right, without creating an obligation to do so, to amend and/or supplement the responses.

Responses to February 11, 2013 E-mail Clarification Questions

1. Section 2 on Page 5 refers to watersheds "Shed A and Shed B" that existed on the site prior to the 11/30 to 12/2 rain event and references the Appendix B Pre-Events SWPPP map. These Sheds are not shown on the Appendix B Pre-Events SWPPP map. **Do you have a map with Shed A and Shed B delineated? What is the acreage of each of the two Sheds?**

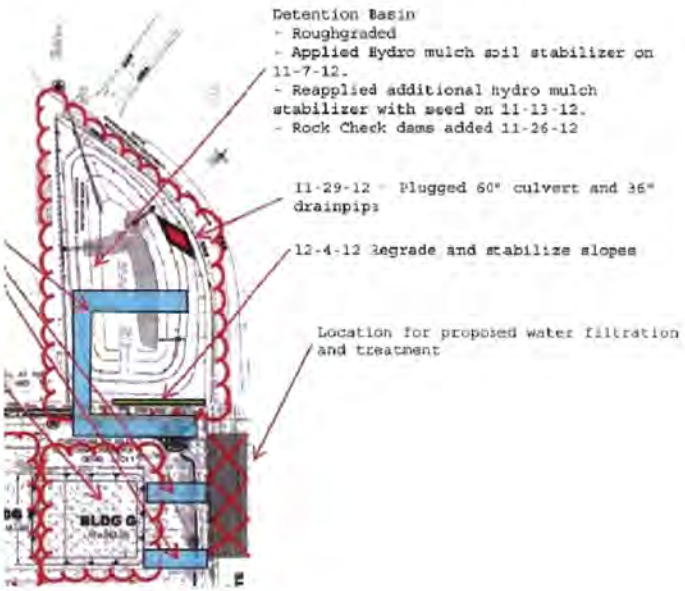
Response to Question No. 1: The requested information was generally included in the original Appendix B Pre-Incident SWPPP map (with pump locations A, B and C and Water Sheds A, B and C) and in the revisions to Attachment F, Figure 1. A revised map is provided below with additional detail regarding the Shed A and B designations. (See Revised Appendix B Pre-Incident SWPPP map below.) The revised map identifies the acreages and limits of the major watershed areas A (26.9 acres) and B (28.5 acres) as requested. In addition to the requested information, the revised map defines subareas for Shed Area B to identify the construction berms and water storage areas. Shed Area C is also defined because this area flows to the detention basin east of the shopping center to Discharge point #1. The acreages for each area and sub-area are identified on the revised map.

Revised Appendix B Pre-Incident SWPPP map.



2. a. Regarding paragraph 2 on Page 9, **where is/was the "protected outlet culvert" located?** b. Also, Line 3 in paragraph 2 appears to have a word(s) missing in the third line following "on the south side of the..." **Please provide a corrected sentence.**

Response to Question No. 2.a: The protected outlet culvert referenced in paragraph 2 on Page 9 of the January 25, 2013 submittal refers to a 30" plug in the upstream manhole from the culvert that connects the proposed detention basin with the swale on the south side of Schriber Way. Please see the red diamond in the below diagram.



Response to Question No. 2.b: We apologize for the editing error. The omitted words were "as yet to be constructed detention basin." The referenced part of that sentence should read as follows: "... where a constructed berm had been breached, resulting in storm water overwhelming a protected outlet culvert located on the south side of the as yet to be constructed detention basin."

3. Paragraph 3 on Page 9 states that the earthen dike at the west end of the Dominguez Loop failed and the runoff was stopped within 1.5 hours. The NOV Response does not specifically state when the breach failure occurred, but S.D. Deacon estimated the failure to occur at 0830 hours in their 12/18/12 Summary of BMPs and other storm water control efforts submittal. S.D. Deacon staff also verbally stated on 12/12/12 at the Water Board office meeting that the Dominguez Loop Road earth dam breached around 8AM on 11/30/12, the temp basin was enlarged, and discharges off the site were stopped by "Friday night".

Water Board staff believe that the discharge of turbid storm water at the Dominguez Loop Road earth dam (aka Discharge Point #2) may have been temporarily interrupted as repair efforts were initiated. Water Board staff was on site on 11/30 from 0940 to approximately 1110 hours and turbid storm water was still discharging from Discharge Point #2 at 1100 hours when QSP Dave Clayson and Water Board staff left the Discharge Point #2 site. Water Board Photograph No. 76, taken at 1055 hours at Discharge Point #2 is attached for your review.

Based on this information, please revise your estimate of when discharges off the construction site were stopped.

Response to Question No. 3: As indicated in the January 25, 2013 NOV Response, the earthen dike at the west end of the Dominguez Loop failed at approximately 8:30 AM on 11/30/2012. Repairs immediately began on the dike and a crushed rock dam was completed at location #2 within 1.5 hours of discovery of the breach/discharge (i.e., by 10:00 AM). Evidence provided in the Regional Board photo forwarded with your February 11, 2013, email indicates that some storm water continued to discharge from this location even after the crushed rock dam was completed. This storm water flow, however, was attenuated by the repair efforts to the crushed rock dam by on site SD Deacon staff, as evidenced in NOV photos #8 and #17 and the Regional Board photo forwarded with the February 11 email requesting additional information.

As requested in your e-mail, we have modified our January 25, 2013 NOV Response. Revised calculations (revisions to Appendix F) by RSC Engineering are attached to this response, which modify the estimated discharge stop time at Discharge Point #2. (See attached "Response to Notice of Violation Follow Up and Clarification" dated February 14, 2013.) In the discharge volume calculations provided with the January 25, 2013 NOV Response, RSC Engineering assumed a discharge time span from 8:30 AM to 10:00 AM. (1.5 hours). The revised calculations attached to this response extend the discharge time by 1.25 hours increasing the total time of discharge to 2.75 hours. The revised discharge end time in the volume calculations is 11:15 AM, increasing the discharged volume at location #2 by 5,063 gallons.

Please note that the evidence available to us at this time indicates that all discharges were stopped at Discharge Point #2 by 11:15 AM on 11/30/2012. The Superintendent's daily notes indicate that the bulldozer operator arrived at this location at 11:00 AM and went right to work establishing a fortified berm on Dominguez Loop. (See date stamped photo of the bulldozer working the area.) Although the photo is not time stamped, available evidence indicates the all discharges ceased within a very short amount of time (i.e., 15 minutes) after the bulldozer began work, when enough dirt had been pushed by the bulldozer into place to stop the remaining storm water discharge.

Please also note that while the discharge at location #2 ceased by 11:15 AM, S.D. Deacon continued efforts throughout the day to restore, reinforce, and fortify the earthen dike to ensure continued containment at this location. A new earthen

berm was completed with a stouter width by Friday night as we discussed during our 12/12/12 meeting at the Water Board office and in the January 25, 2013 NOV Response.

4. Appendix F provides the estimated volume of sediment laden storm water discharged from the site. Figure 1 in Appendix F provides an estimate of the drainage area for Discharge Point #2 at 6.2 acres, but this area does not include storm water flowing from graded and compacted roads or areas north of the Dominguez Loop Road and Center at Secret Ravine properties. The drainage area for the Dominguez Loop Road and the Center at Secret Ravine sites is listed in SMARTS at 2.9 acres and 3.7 acres, respectively, which by itself is 6.6 acres.

   Figure 1 includes a statement that the "Main area of site did not contribute discharge off-site", and "Effective onsite containment was in place for duration of storm." However, the 11/30/12 Daily Superintendent Report states that "Around 7:45am dike behind job trailer was overflowing causing dike to leak, water ran across Schriber way down to holding basin at Dominguez Loop." On 11/30, Water Board staff observed storm water

ponding near the construction trailer and flowing south towards Schriber Way.

Based on this information, please reevaluate the Area 2 drainage area.

Response to Question No. 4: RSC Engineering has clarified the noted acreage discrepancy in Figure 1-A (Area Exhibit) in the attached "Response to Notice of Violation Follow Up and Clarification" dated February 14, 2013. The acreages noted in the two SWPPP documents in the SMARTS system include an "overlap" area that is included in the SWPPP and a stabilized slope area that discharges directly offsite (not at location #2). When adjustments are made for these areas, the net acreages are then consistent with the areas noted in Figure 1 of Appendix F.

Figure 1 of Appendix F has been revised to address the stated concerns that reference the 11/30/2012 visual observation of Water Board Staff member Marty Hartzell. Please refer to Figure 1 - Revised, Dated Feb. 14, 2013 and the Revised Technical calculations that consider the resulting increased area which are contained in the attached "Response to Notice of Violation Follow Up and Clarification" dated February 14, 2013.

Please note that the dike referenced in the Superintendent Daily report of 11/30/12 is the earthen berm located near Pump location A and connecting to the double crossed hatched building pad #14, which parallels Schriber Way as shown on Appendix B Pre-Incident SWPPP Map.

Water observed to be flowing south overtopped this berm and moved south along Schriber Way where it ponded further before making its way across Schriber Way and onto the Center @ Secret Ravine property. This is further evidenced by the NOV photos #2, #3 and #4.

Water that ponded under and around the construction trailer was contained by another earthen berm located on the map extending diagonally from the red triangle designated with the letter "T" and the topography of the area immediately surrounding the trailer. This berm is also shown in the previously mentioned NOV photo #2.

The building pad that the trailer sits on was cut into existing land, creating a depressed section of land (see aerial photo below). All water in the watershed north of Area #2 (Figure 1 of Attachment F) was contained by a combination of the designed building pad construction and the earthen berm in NOV photo #2

Based on this new information, RSC Engineering added additional area to its calculations, which increased the estimated volume discharged from the site by approximately 5,085 gallons. Please see revised calculations (revisions to Appendix F) by RSC Engineering attached to this response.

* * *

We believe this letter fully responds to the information requested in your e-mail. If you have any questions about this letter or believe additional information is needed to evaluate my client's compliance with the Construction General Permit, please contact me at your earliest convenience at (916) 443-2745. We look forward to further discussing this matter with you.

Very truly yours,

Howard "Chip" Wilkins III

Attachment: RSC Engineering, Response to Notice of Violation Follow up and Clarification Re: Volume estimates of Sediment laden discharge from site, dated February 14, 2013

cc: via email only

David M. Boyers, Office of Enforcement, State Water Board
(dboyers@waterboards.ca. gov)
Melissa A. Thorme, Downey Brand, LLP

(mthorme@downeybrand.com)
Janet L. Petersen, Donahue Schriber Realty Group, LP
Bob Aroyan, SD Deacon Construction
Andy Van Veldhuizen, SD Deacon Construction
David Mossman, DSRG
Scott Lawrence, DSRG

ATTACHMENT

Response to Notice of Violation
Follow up and Clarification
Re: Volume estimates of Sediment laden discharge from site

For:

Rocklin Crossings WDID# 5S31C364098
Rocklin Crossings Detention Basin WDID# 5S31C364108
Dominguez Loop Road WDID# 5S31C364102
Center at Secret Ravine WDID# 5S31C364105

RSC Engineering

February 14, 2013

RSC Engineering, Inc.
Consulting Engineers

2250 Douglas Blvd.
Suite 150
Roseville, CA 95661
916.788.2884
Fax 916.788.4408
rsc-engr.com

Please see the responses in bold to the questions below:

Question #3:

Paragraph 3 on Page 9 states that the earthen dike at the west end of the Dominguez Loop failed and the runoff was stopped within 1.5 hours. The NOV Response does not specifically state when the breach failure occurred, but S.D. Deacon estimated the failure to occur at 0830 hours in their 12/18/12 Summary of BMPs and other storm water control efforts submittal. S.D. Deacon staff also verbally stated on 12/12/12 at the Water Board office meeting that the Dominguez Loop Road earth dam breached around 8AM on 11/30/12, the temp basin was enlarged, and discharges off the site were stopped by "Friday night".

Water Board staff believe that the discharge of turbid storm water at the Dominguez Loop Road earth dam (aka Discharge Point #2) may have been temporarily interrupted as repair efforts were initiated. Water Board staff was on site on 11/30 from 0940 to approximately 1110 hours and turbid storm water was still discharging from Discharge Point #2 at 1100 hours when QSP Dave Clayson and Water Board staff left the Discharge Point #2 site. Water Board Photograph No. 76, taken at 1055 hours at Discharge Point #2 is attached for your review.

Based on this information, please revise your estimate of when discharges off the construction site were stopped.

Per conversations with S.D. Deacon, the discharge was partially stopped at 10:00 a.m. when the rock berm was re-constructed as shown in the photo (1.5 hours after the berm failure); the discharge was completely stopped at 11:15 a.m. once the D-8 arrived at the discharge location.

The runoff at discharge location 2 during the time span from 10:00 a.m. to 11:15 a.m. cannot be calculated using the product of rainfall, area, and C factor as was done in the original calculations. During this time span the discharge was significantly reduced by the re-constructed crushed rock berm. A large percentage of the runoff from Area 2 was captured behind the re-constructed chrushed rock berm while the remainder flowed through the re-construced rock berm.

The volume of water discharged from 10:00 a.m. to 11:15 a.m. is calculated by estimating the flow in photo #76 taken by Marty Hartzell at 10:55 a.m. on 11/30/12 (shown below):

Using an assumed flow depth of 1 inch and an assumed flow width of 2 feet, the flow rate shown in this picture can be calculated using the sharp crested weir equation:

$$Q = \frac{2}{3} * C_d * A * \sqrt{2gh}$$

Cd = 0.6
A = flow depth * flow width = 0.08' x 2'
Q = 0.15 cfs

Given the calculated flow rate and the time duration of flow the Volume of water discharged can be calculated as follows:

Discharge Volume from Area2 from 10:00 a.m. to 11:15 a.m.

Flow rate:	**0.15 cfs (from flow estimate above)**
Flow time:	**4,500 sec. (1.25 hrs. 10:00 to 11:15)**
Volume:	**675 cubic feet**
Volume:	**5,063 gallons**

Question #4:

Appendix F provides the estimated volume of sediment laden storm water discharged from the site. Figure 1 in Appendix F provides an estimate of the drainage area for Discharge Point #2 at 6.2 acres, but this area does not include storm water flowing from graded and compacted roads or areas north of the Dominguez Loop Road and Center at Secret Ravine properties. The drainage area for the Dominguez Loop Road and the Center at Secret Ravine sites is listed in SMARTS at 2.9 acres and 3.7 acres, respectively, which by itself is 6.6 acres.

Please see the attached exhibit which illustrates the discharge area for the 11-30-2012 storm event, the disturbed area from the Dominguez Loop SWPPP, and the disturbed area from the Center at secret Ravine SWPPP. The exhibit shows the disturbed areas from the two SWPPPs overlap. Removing the overlap area (1.18 ac) and the stabilized slope area that discharges directly offsite (0.60 ac) and comparing the sum of the two SWPPP plans (4.82 ac) vs the 11/30/12 discharge map (6.2 ac) shows that the discharge acreage is greater than the combined area of the two SWPPP documents.

Figure 1 includes a statement that the "Main area of site did not contribute discharge off-site", and "Effective onsite containment was in place for duration of storm." However, the 11/30/12 Daily Superintendent Report states that "Around 7:45am dike behind job trailer was overflowing causing dike to leak, water ran across Schriber way down to holding basin at Dominguez Loop." On 11/30, Water Board staff observed storm water ponding near the construction trailer and flowing south towards Schriber Way.

Based on this information, please reevaluate the Area 2 drainage area.

The revised exhibit includes the additional drainage area that contributed to the discharge point #2 after overtopping the berm on the north side of Schriber Way between pad 15 and pad 14 directly north of the intersection with Dominguez Loop Road. In addition to the area up-stream of that berm, the area north of Schriber way and east of Sierra College Boulevard was added to the total area contributing to the discharge at discharge location #2. This area (Area 2B in the attached revised Discharge Exhibit) was covered by existing vegetation and allowed ponding in two locations prior to releasing across Schriber Way to the south.

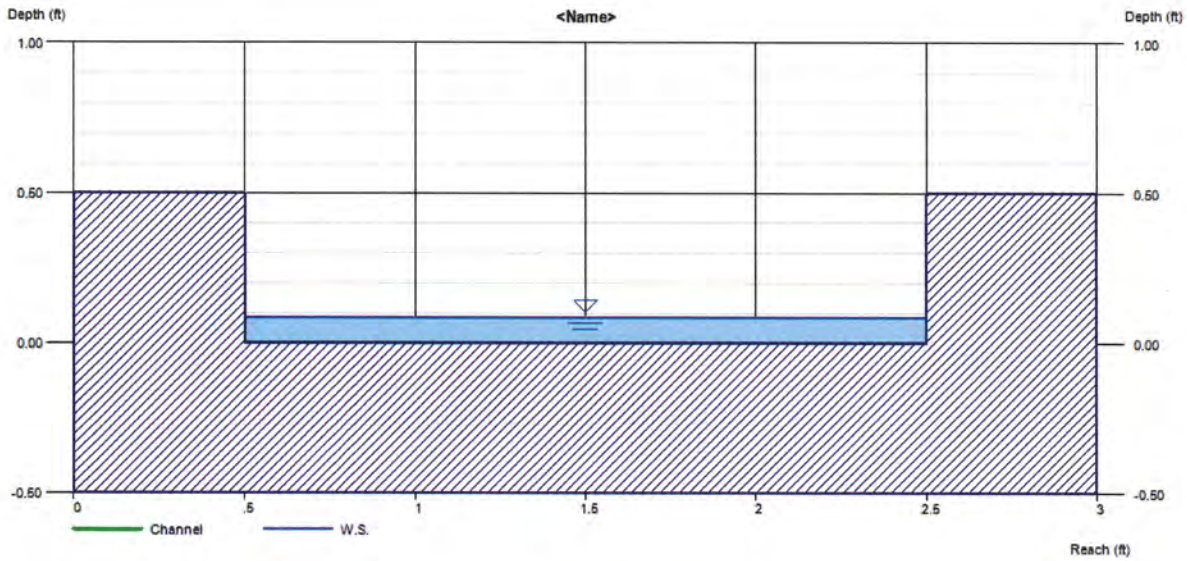
The runoff from Area 2A was attenuated due to the ponding up-stream of the berm and the runoff from Area 2B was attenuated by the dense existing vegetative cover and the two ponding areas. The additional discharge from these areas is estimated to be the precipitation over the areas during the span of time from 8:30 a.m. to 10:00 a.m. (0.3 inches, Refer to the Appendix F from the Response to Notice of Violation dated 1-25-2013) multiplied by the area and the C coefficient of 0.2 (due to the vegetative cover and ponding). Volume 2A and 2B = Rainfall (ft.) * Area (s.f.) * C

Volume from Areas 2A and 2B

Area 2A + Area 2B:	**135,624 s.f. (1.1 ac. + 2.0 ac.)**
Rainfall:	**0.025 ft. (0.3 in.)**
C:	**0.2**
Volume:	**678 cubic feet**
Volume:	**5,085 gallons**

Backcheck of Volume from areas 2A and 2B

Photo #4 from the NOV shows the discharge from areas 2A and 2B flowing across Schriber Way and into The Center at Secret Ravine. Given a total volume of 678 cf. over a 1.5 hour time span, the average flow rate is 0.13 cfs. Based on photo #4 from the NOV and given the average flow across Schriber Way the flow depth over Schriber Way is estimated using the broad crested weir equation with a bottom width of 2 feet. The Broad crested weir calculations are presented below:



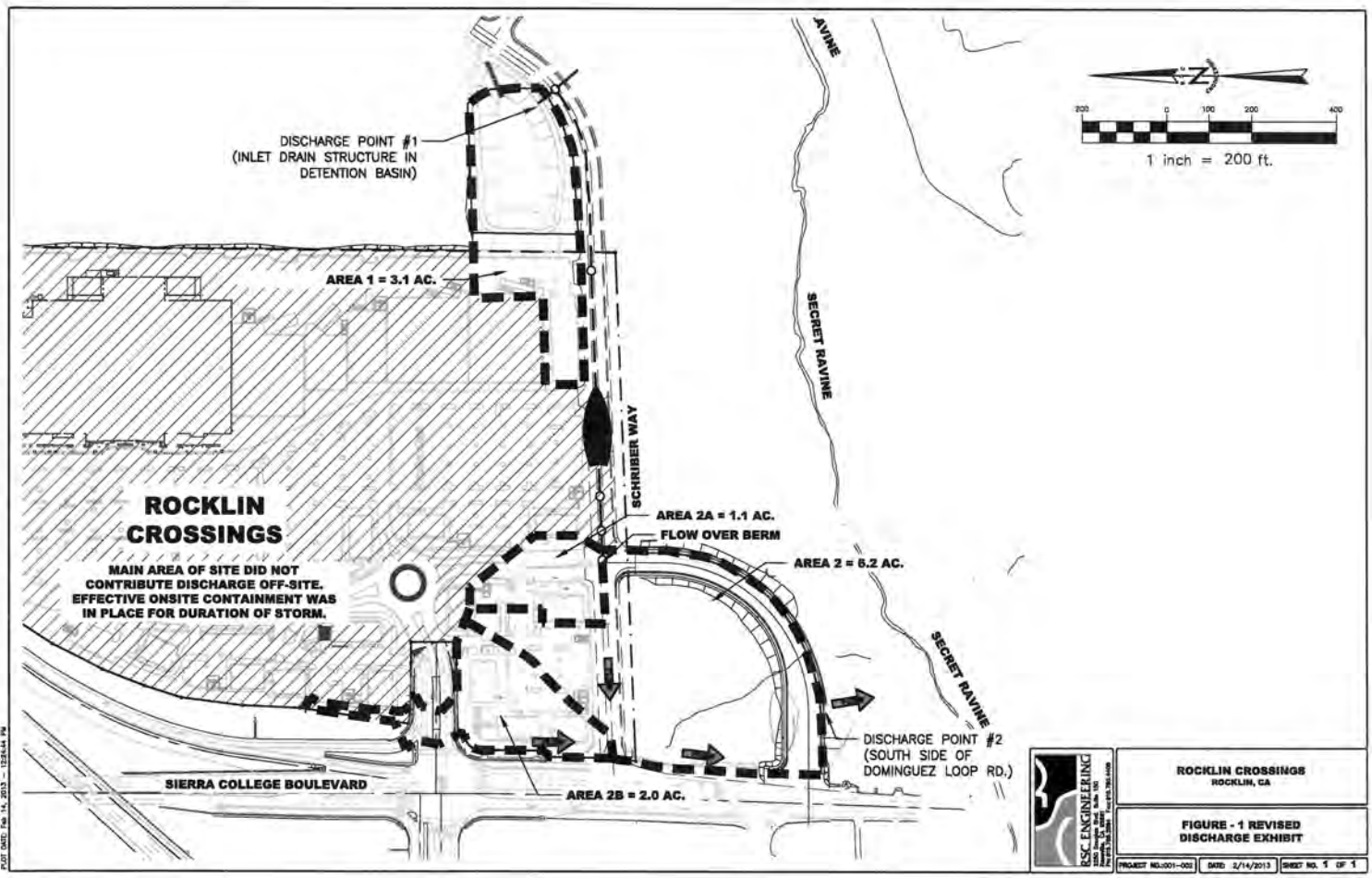
Depth	Q	Area	Veloc	TopWidth	Energy
(ft)	(cfs)	(sqft)	(ft/s)	(ft)	(ft)
0.09	0.130	0.17	0.78	2.00	0.09

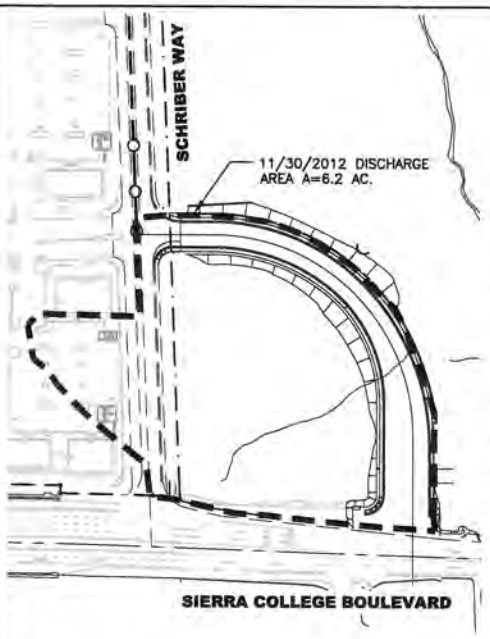
Depth of Flow = 0.09'

A flow depth of 0.09' above the roadway surface seems reasonable with what is shown in Photo# 4.

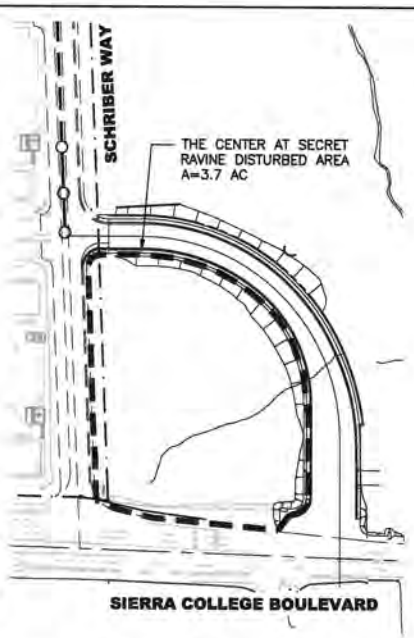
Summary:

Discharge Volume reported in 1/25/2013 Response to NOV:	**51,167 gallons**
Additional Volume discharged from Areas 2A and 2B north of Schriber Way:	**5,085 gallons**
Additional Volume discharged at discharge #2 from 10:00 a.m. to 11:15 a.m.:	**5,063 gallons**
Revised Discharge Volume from Location #2:	**61,315 gallons**

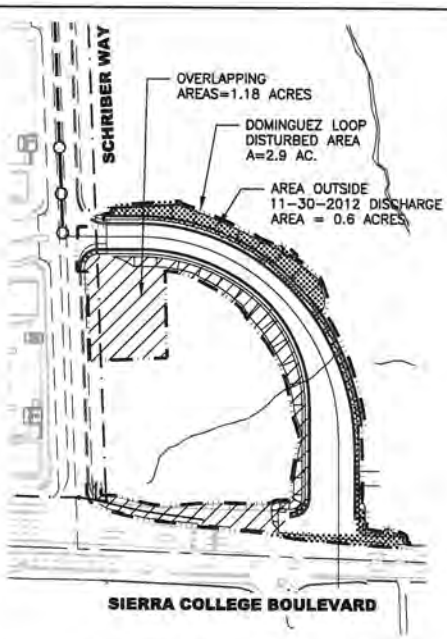

DISCHARGE POINT #1
(INLET DRAIN STRUCTURE IN
DETENTION BASIN)
AREA 1 = 3.1 AC.
ROCKLIN
CROSSINGS
MAIN AREA OF SITE DID NOT
CONTRIBUTE DISCHARGE OFF-SITE.
EFFECTIVE ONSITE CONTAINMENT WAS
IN PLACE FOR DURATION OF STORM.
SCHRIBER WAY
AREA 2A = 1.1 AC.
FLOW OVER BERM
AREA 2 = 6.2 AC.
SECRET RAVINE
SECRET RAVINE
DISCHARGE POINT #2
(SOUTH SIDE OF
DOMINGUEZ LOOP RD.)
SIERRA COLLEGE BOULEVARD
AREA 2B = 2.0 AC.
200 0 100 200 400
1 inch = 200 ft.
RSC ENGINEERING
ROCKLIN CROSSINGS
ROCKLIN, CA
FIGURE - 1 REVISED
DISCHARGE EXHIBIT
PROJECT NO.:001-002
DATE: 2/14/2013
SHEET NO. 1 OF 1



AREA-2 CONTRIBUTING TO 11-30-2012 DISCHARGE.
AREA = 6.2AC



DISTURBED AREA FROM "THE CENTER AT SECRET RAVINE" SWPPP
NET = 3.7AC



DISTURBED AREA FROM THE "DOMINGUEZ LOOP" SWPPP
AREA = 2.9AC (SWPPP)
LESS: 0.6AC (AREA OUTSIDE DISCHARGE AREA)
LESS: 1.18AC (OVERLAP AREA)
NET = 1.12AC

RESULTANT DISTURBED AREA FROM DOMINGUEZ LOOP & SECRET RAVINE CONTRIBUTING TO THE DISCHARGE AREA FOR DISCHARGE POINT #2

3.7AC + 1.1AC = 4.8AC < 6.2AC

RSC ENGINEERING

ROCKLIN CROSSINGS
ROCKLIN, CA

FIGURE 1A
AREA EXHIBIT

PROJECT NO.1001-002 | DATE 3/14/2013 | SHEET NO. 1 OF 1