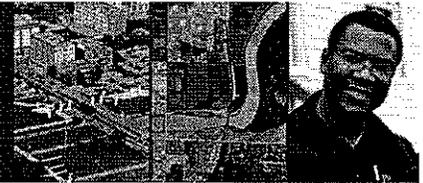




FEMA



Pre-QR3 Submission Questionnaire and Self-Certification Form		(Page 1)
Study Name	Utah County, UT CW Seclusion	
MIP Case Number	13-08-0734S	
Mapping Partner	URS - Salt Lake City	
Sub-consultant(s)	None	
Project Manager (Name, email, phone)	Remmet deGroot, remmet.degroot@urs.com, 801-904-4020	
QR2 Passing Date	7/3/2013	
Planned QR3 Submittal Date	7/3/2013	
What is the Project's present SPI? If out of FEMA tolerance, please describe any quality factors you feel contribute to the variance.	0.99	
What is the Project's present CPI? If out of FEMA tolerance, please describe any quality factors you feel contribute to the variance.	0.93	
Please list the flooding source(s) that are newly studied or restudied with this map action.  Please also indicate those flooding sources where redelineation was performed (using updated terrain data) without new engineering analysis.	Restudied: American Fork River, Dry Creek, Dry Creek (Payson), East Fork Fort Creek, Fort Creek, Middle Fork Fort Creek, West Fork Fort Creek, Hog Hollow, Hobble Creek, Peteeneet Creek	
Please describe your pre-QR3 internal validation (inspection) activities. You may use the Comments section as needed.  Please also attach your quality records (checklists, call sheets, etc) that demonstrate how your internal reviews were conducted.	Performed detail checks and independent technical review on all tasks. A completed summary review form from the independent technical review (including comments and dispositions) is included.	

**RiskMAP**  
Increasing Resilience Together



FEMA

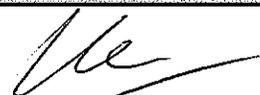


Pre-QR3 Submission Questionnaire and Self-Certification Form

(Page 2)

<p>Please provide any FEMA-approved project-related decisions that directly affect the results shown on the study being submitted for independent review.</p>	<p>None</p>
<p>Please itemize issues or concerns you wish to be known before the QR3 review begins.</p> <p>If your comments are extensive, please use the "Comments" section below or create a separate document to attach to this form.</p>	<p>None</p>
<p>To the best of your knowledge, does this study comply with all FEMA standards identified in the project Mapping Activity Statement and/or Scope of Work and has passed the QR2 review stage?</p>	<p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If you selected "No", please provide an explanation in the "Comments" section below.</p>
<p>Comments:</p>	

Self-Certification

<p>I certify that the information provided on this form is complete and correct and the study being submitted for QR3 is ready for independent review.</p>		<p>2/9/14</p>
	<p>Mapping Partner Signature <span style="float: right;">Date</span></p>	
	<p>Remmet de Braek Printed Name</p>	

RiskMAP  
Increasing Resilience Together



# INDEPENDENT TECHNICAL REVIEW REPORT

Project Name:	Utah County DFIRM	Project Number:	24584744
Project Location:	Utah County, Utah	Client Name:	Utah Div. of Emergency Mgmt.
PM Name:	Remmet deGroot	PIC Name:	Greg Davis

**Identifying Information**

This section is to be completed by the Project Manager.

Assigned Independent Technical Reviewer: Sean O'Melveny

Deliverable to be reviewed: Preliminary Products: DFIRM Database, FIRMs, FIS, SOMAs, preliminary letters

Work Product Originator: Brie Hurwitch

Review Scope: Per FEMA G&S and Region VIII Guidelines

Reviewer's comments required by: 6/12/2013

Submitted by: Remmet deGroot 6/10/13  
 Project Manager Signature Date

**Reviewer Report**

This section is to be completed by the Independent Technical Reviewer.

Check box A or B:

A.  Reviewer performed review and has no comments.

\_\_\_\_\_ Independent Technical Reviewer Signature \_\_\_\_\_ Date

or

B.  The Reviewer's comments have been provided on:

Deliverable  
 Comment and Disposition Form (Form 3-5 (MM))  
 Other \_\_\_\_\_

This section is to be completed after verification of comment incorporation, if box B is checked off above.

Check box C or D and E:

C.  Back-check of Reviewer's comments has been performed by Originator AND all issues have been resolved between Originator and Reviewer.

or

D.  Unresolved issues have been submitted to the Project Manager, Principal-in-Charge or designee for resolution.

and

E.  Verification of correct incorporation of resolved comments into final document is complete.

\_\_\_\_\_ 6/26/2013  
 Independent Technical Reviewer Signature Date

### APPROVAL and DISTRIBUTION

To be signed after box A or E are completed.

The review has been completed. Any significant issues not resolved between the Reviewer and the Originator have been resolved by the Approver.

\_\_\_\_\_ 6/26/13  
 Project Manager, Principal-in-Charge or Designee Signature Date

**Distribution:**  
 Project Central File – Quality folder



# COMMENTS AND DISPOSITION FORM

<b>Project Name:</b>	Utah County DFIRM	<b>Project Number:</b>	24584744
<b>Project Location:</b>	Utah County, Utah	<b>Client Name:</b>	Utah Division of Emergency Management
<b>PM Name:</b>	Remmet deGroot	<b>PIC Name:</b>	Greg Davis

- Detail Check     
  Independent Technical Review     
  Coordination Review     
  Constructability Review  
 Calculation Check     
  Other: [Enter information here.]

**Work Product Being Checked or Reviewed (including Identifying information):** *Preliminary Products*

No. <sup>a</sup>	Ref. <sup>a</sup>	Comment <sup>a</sup>	Disposition <sup>b,c</sup>	Response <sup>b</sup>	Verification <sup>a</sup>
1	Prelim Letters	<i>Preliminary Contacts</i> 1) In CC area - Recommend listing instead of "community FPA" actual FPA name. If there is no FPA recommend removing line 2) Recommend updating CIS within last 90 days with Map Repo Address under MapMod tab 3) Recommend updating CIS for CEO and FPA under FPA tab. - Example City of Alpine FPA last updated in 2005	A/C*	1) *Not sending to communities at this time; community FPA not added at this time per template 2) CIS has been updated 3) CEO and FPA updated w/ recent date	SCO
2	Prelim Letters	<i>Special Paragraphs</i> 1) Make sure all NSFHA Identified communities get this paragraph - Cedar Fort, Eagle Mountain, Santaquin, (already present in Elk Ridge, Fairfield, Goshen, Woodland Hills) 2) SOMA - Revise SOMA language for Springville and Mapleton as SOMAs are being issued for these communities. 3) Not Participating -- make sure all non participating communities show the appropriate enclosure per template language- see line 42 of Detail Checklist	A	1) All NSFHA communities have appropriate paragraph stating so 2) SOMA language incorporated for Springville and Mapleton 3) All non-participating communities have appropriate Joining the NFIP enclosure	SCO
3	Prelim Letters	See markups with additional track changes	A	All markups on letters have been addressed	SCO
4	Draper	1) For Prelim Letters is there a special	A/C*	1) *Not according to updated R8 prelim letter	SCO



# COMMENTS AND DISPOSITION FORM

<b>Project Name:</b>	Utah County DFIRM	<b>Project Number:</b>	24584744
<b>Project Location:</b>	Utah County, Utah	<b>Client Name:</b>	Utah Division of Emergency Management
<b>PM Name:</b>	Remmet deGroot	<b>PIC Name:</b>	Greg Davis

- Detail Check       Independent Technical Review       Coordination Review       Constructability Review  
 Calculation Check       Other: [Enter information here.]

		<p>paragraph about multi-county communities in Region 8?</p> <p>2) Correct FIS as shown for multi-county community</p> <p>3) Verify Correct CID for Draper is "490244" not "490237". Recommend deleting incorrect CID from CIS.</p> <p>4) To do this work through local RSC, RAMPP RSC6, or RAMPP PA group. Juanita Thompson at FEMA is the final contact, however she responds better to RSC or RAMPP PA requests</p>		<p>template</p> <p>2) Multi-county paragraph for Draper has been added to FIS</p> <p>3) Correct CID for Draper is 490244 (SLC)</p> <p>4) Will work to remove 490237 CID</p>	
5	FIS	<p>Detail Check comments not resolved</p> <p>DC lines 23 marked "D" as in comment deleted yet comment was corrected</p> <p>DC lines 50 and 51 are noted as errors yet were not corrected, addressed or signed off on checklist. Still errors in ITR.</p> <p>DC lines 160 and 161 are noted as errors, yet are not dispositioned or signed off on checklist.</p>	A	<p>Detail check form has been completed and all comments addressed</p>	SCO
6	FIS	<p>FIS Bookmarking - recommend cleaninup up Bookmarking to make FDTs, Profiles, Cover Page, Table of Contents, Figures and Tables more accessible. Apply to all 3 volumes.</p>	D	<p>Bookmarking may be fixed in final submittal</p>	SCO
7	FIS	<p>See additional markups in FIS</p>	A	<p>See comments in FIS</p>	SCO
8	SOMA	<p>1) Resolve disconnectes between Table 3 in FIS and Cat 1 LOMRs - see markups</p> <p>2) Make sure all Cat 3 - reason 1 have been</p>	A	<p>1) disconnects resolved</p> <p>2) checked on MIP, MSC, and submitted FEMA library ticket</p>	SCO



# COMMENTS AND DISPOSITION FORM

Project Name:	Utah County DFIRM	Project Number:	24584744
Project Location:	Utah County, Utah	Client Name:	Utah Division of Emergency Management
PM Name:	Remmet deGroot	PIC Name:	Greg Davis

- Detail Check     
 Independent Technical Review     
 Coordination Review     
 Constructability Review  
 Calculation Check     
 Other: [Enter information here.]

		<p>thoroughly researched - see markups  3) MIP shows cases 13-08-0544P (Lindon) and 10-06-0682A (Draper) as not categorized. Please correct  4) SOMA for Provo was not submitted  5) Not all DC comments were verified</p>		<p>3) cases on MIP categorized, LOMR incorporated. All Draper cases are outside of this study.  4) SOMA created  5) DC form completed</p>	
9	DB	<p>1) Missing S_LOMR - required for Prelim Submittals - see DC line 96  2) Recommend including seclusion area file. Recommend using source boundaries to split out areas in seclusion and source seclusion areas to Provo FIS/FIRM. See notes on panels about seclusion zone revisions  3) DB DVT Check Errors 2.8.2.8 and 2.8.2.9 need to be resolved for two entries. Correct approach would be to make these Velocity 0, Units - Feet/Sec per other like AO zones in DB.  4) Verify DVT Error 2.9.1.2 Error 1302 are all valid exceptions. They don't appear that way to me.  5) Still one 0.2 zone showing as SFHA = "T" see detail check line 23  6) Still null values in S_GEN_STRUC see detail check line 53  7) S_POI_AR Camp Willaims should not have a COM_Nfo_ID -ie should be left blank  8) S_POL_LN should not have Rule_ID</p>	A/C*	<p>1) S_LOMR exported  2) We will include the seclusion polygon in the submittal as a supplemental file  3) created two '0' values for the AO zones, added units  4) DVT errors have been resolved  5) fixed SFHA attribute  6) updated attributes  7) Comm_Nfo_ID blank  8) removed Rule_ID field  9) Shp Area and Shp Lng deleted  10) attributes fixed  11) L_Comm_Info matches FIS/Index  12) RM removed from DB  14) WSEL and station added to both XSs  15) matched to FIS  16) * Per Appendix J 2.2.1 bullet 2, tributaries are named separately in tables and text, but main tributary is included with main river in profile  17) * Cross sections are on profile only, effective maps don't show the spatial</p>	SCO



# COMMENTS AND DISPOSITION FORM

<b>Project Name:</b>	<i>Utah County DFIRM</i>	<b>Project Number:</b>	<i>24584744</i>
<b>Project Location:</b>	<i>Utah County, Utah</i>	<b>Client Name:</b>	<i>Utah Division of Emergency Management</i>
<b>PM Name:</b>	<i>Remmet deGroot</i>	<b>PIC Name:</b>	<i>Greg Davis</i>

- Detail Check     
 Independent Technical Review     
 Coordination Review     
 Constructability Review  
 Calculation Check     
 Other: *[Enter information here.]*

	<i>attribute Field</i> 9) Remove Shp Area and Shape Lng attributes before submitting from all layers 10) Still one S_FIRM_PAN - PNP with no reason see detail check additional comments 11) Update L_COMM_INFO table to match markups on FIS CMH and Index 12) L_STN_Start/ S_XS/S_RIV_Mrk - Hobble Creek should these river marks be used as they are way off the stream. Should riv marks have the same station start as XS because one refernces 1600N the other Utah Lake. 14) S_XS - disagree with DC comment line 68. Stations and WSEL should be populated for these XS as they are shown on the profiles. 15) L_Stn_start - see also DC line 65. See markups on FIS for areas of disagreement 16) DB Shows MF Fort Creek - Water Line, S-XS etc. Change name to Fort Creek to match FIS Profiles and FDT. 17) Why aren't cross sections shown for Waste Ditch even though profile shows them? 18) Null values in L_COMM_INFO and S-FIRM_PAN need to be populated with the correct null date values 19) L_MT1 should only show cases that will be revalidted. It should not show LOMRs (S_LOMR) or superseded cases	<i>location of the cross sections</i> 18) 9/9/9999 added 19) MT1 table only shows Cat 2 cases now.	
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# COMMENTS AND DISPOSITION FORM

Project Name:	Utah County DFIRM	Project Number:	24584744
Project Location:	Utah County, Utah	Client Name:	Utah Division of Emergency Management
PM Name:	Remmet deGroot	PIC Name:	Greg Davis

- Detail Check     
 Independent Technical Review     
 Coordination Review     
 Constructability Review  
 Calculation Check     
 Other: [Enter information here.]

10	LOMR 10-08- 0282P	1) Recommend renaming Detailed Study Area of Spanish Fork River outside LOMR "Spanish Fork River at Thistle" to help distinguish - S_XS, S_WTR, RFIRMs (1007, 1026), Profiles, FIS, FDT etc. 2) LOMR notes clearly that some shaded x areas should be X-Protected by levee. Update DB to show this. 3) DB says Spanish Fork Creek - FIRMS and FIS say Spanish Fork River 4) Verify zone breaks. Connect BFEs if not valid. If valid where zone break is also a Floodway line recommend adding graphical white gutter. 5) see markups on panels	A/C*	1) *Updated cross sections to match FDTs and profiles instead of renaming 2) Updated to X-protected by levee as indicated on LOMR map. 3) Name in DB and on panels changed to Spanish Fork River. 4) Zones breaks have been verified and corrected 5) Markups on panels have been addressed	SCO
11	Index	See markups on Index	A	Markups have been addressed	SCO
12	Panels	1) Recommend submitting with full panel name 2) See markups on Panels	A	Full panel name used Markups on panels have been addressed	SCO

<sup>a</sup> Entries by checker or reviewer.

<sup>b</sup> Entries by originator.

<sup>c</sup> Dispositions: A = Incorporate; B = Clarify; C = Delete Comment; D = Incorporate in Next Submittal

Checker or Reviewer Signature: \_\_\_\_\_

Date: \_\_\_\_\_

6/26/2013

Originator Signature: Brie Hurwitch

Date: \_\_\_\_\_

6/10/13