

Refer to Expandable 12 01 2006
file in C0070013, 2006 Incoming
for additional information

UtahAmerican Energy, Inc.



Lila Canyon Project

P. O. Box 986, Price, Utah 84501

Phone: (435) 888-4000

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December 1, 2006

VIA HAND DELIVERY

Refer to Confidential 12 01 2006
file in C0070013, 2006
for additional information

Ms. Pamela Grubaugh-Littig
Permit Supervisor
Division of Oil, Gas and Mining
Department of Natural Resources
State of Utah
1594 West North Temple, Suite 1210
Sale Lake City, Utah 84114

*Incoming
C0070013
#2708 OK*

**RE: Response to Request for Supplemental Technical Information and Clarifications,
Lila Canyon Extension, UtahAmerican Energy, Inc., Horse Canyon Mine,
C/007/0013, 06-016 Task ID #2421**

Dear Ms. Grubaugh-Littig:

As requested in your letter of November 27, 2006, in which the Division of Oil, Gas and Mining ("DOGM") cites various alleged "technical deficiencies" in the mine permit application ("Mine Permit"), enclosed please find the appropriate and complete response by UtahAmerican Energy, Inc. ("UEI") to each and every alleged deficiency. The response includes four copies of revisions to the pending mining and reclamation plan ("MRP"), three copies of the redline strikeout, a compact disc with a pdf of the MRP and the required C-1 and C-2 forms. In addition, we have enclosed one copy of the confidential binder and a confidential C-1 and C-2 form. Finally, we are hand delivering one copy of the MRP revision package to the Price Field Office.

UEI's virtually immediate response to your request provides DOGM with more than enough time to review the submitted information and timely issue the Mine Permit. We ask that DOGM finally bring this process to a conclusion, and that DOGM fulfill its statutory duties and issue the Mine Permit no later than January 22, 2007.

Sincerely,

UTAHAMERICAN ENERGY, INC.

R. Jay Marshall
R. Jay Marshall

MM/bjb
Enclosure
cc (w/o encl.): John R. Baza, Division Director
John Harja, Esq.
Lynn Stevens
James Kohler, BLM
Ira Hatch, Emery County
Steven Alder, Esq.

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DEC 01 2006

DIV. OF OIL, GAS & MINING

APPLICATION FOR PERMIT PROCESSING

<input type="checkbox"/> Permit Change	<input type="checkbox"/> New Permit	<input type="checkbox"/> Renewal	<input type="checkbox"/> Transfer	<input type="checkbox"/> Exploration	<input type="checkbox"/> Bond Release	Permit Number: ACT/007/013
Title of Proposal: Deficiency Task ID#2421 06-016						Mine: Horse Canyon
						Permittee: UtahAmerican Energy, Inc.

Description, include reason for application and timing required to implement:

Instructions: If you answer yes to any of the first 8 questions (gray), submit the application to the Salt Lake Office. Otherwise, you may submit it to your reclamation

<input type="checkbox"/> Yes	<input type="checkbox"/> No	1. Change in the size of the Permit Area? _____ acres Disturbed Area? _____ acres <input type="checkbox"/> increase <input type="checkbox"/> decrease.
<input type="checkbox"/> Yes	<input type="checkbox"/> No	2. Is the application submitted as a result of a Division Order? DO # _____
<input type="checkbox"/> Yes	<input type="checkbox"/> No	3. Does application include operations outside a previously identified Cumulative Hydrologic Impact Area?
<input type="checkbox"/> Yes	<input type="checkbox"/> No	4. Does application include operations in hydrologic basins other than as currently approved?
<input type="checkbox"/> Yes	<input type="checkbox"/> No	5. Does application result from cancellation, reduction or increase of insurance or reclamation bond?
<input type="checkbox"/> Yes	<input type="checkbox"/> No	6. Does the application require or include public notice/publication?
<input type="checkbox"/> Yes	<input type="checkbox"/> No	7. Does the application require or include ownership, control, right-of-entry, or compliance information?
<input type="checkbox"/> Yes	<input type="checkbox"/> No	8. Is proposed activity within 100 feet of a public road or cemetery or 300 feet of an occupied dwelling?
<input type="checkbox"/> Yes	<input type="checkbox"/> No	9. Is the application submitted as a result of a Violation? NOV # _____
<input type="checkbox"/> Yes	<input type="checkbox"/> No	10. Is the application submitted as a result of other laws or regulations or policies? Explain: _____
<input type="checkbox"/> Yes	<input type="checkbox"/> No	11. Does the application affect the surface landowner or change the post mining land use?
<input type="checkbox"/> Yes	<input type="checkbox"/> No	12. Does the application require or include underground design or mine sequence and timing? (Modification of R2P2?)
<input type="checkbox"/> Yes	<input type="checkbox"/> No	13. Does the application require or include collection and reporting of any baseline information?
<input type="checkbox"/> Yes	<input type="checkbox"/> No	14. Could the application have any effect on wildlife or vegetation outside the current disturbed area?
<input type="checkbox"/> Yes	<input type="checkbox"/> No	15. Does application require or include soil removal, storage or placement?
<input type="checkbox"/> Yes	<input type="checkbox"/> No	16. Does the application require or include vegetation monitoring, removal or revegetation activities?
<input type="checkbox"/> Yes	<input type="checkbox"/> No	17. Does the application require or include construction, modification, or removal of surface facilities?
<input type="checkbox"/> Yes	<input type="checkbox"/> No	18. Does the application require or include water monitoring, sediment or drainage control measures?
<input type="checkbox"/> Yes	<input type="checkbox"/> No	19. Does the application require or include certified designs, maps, or calculations?
<input type="checkbox"/> Yes	<input type="checkbox"/> No	20. Does the application require or include subsidence control or monitoring?
<input type="checkbox"/> Yes	<input type="checkbox"/> No	21. Have reclamation costs for bonding been provided for?
<input type="checkbox"/> Yes	<input type="checkbox"/> No	22. Does application involve a perennial stream, a stream buffer zone or discharges to a stream?
<input type="checkbox"/> Yes	<input type="checkbox"/> No	23. Does the application affect permits issued by other agencies or permits issued to other entities?

X Attach 3 complete copies of the application.

I hereby certify that I am a responsible official of the applicant and that the information contained in this application is true and correct to the best of my information and belief in all respects with the laws of Utah in reference to commitments, undertakings, and obligations, herein.

R. J. Marshall 10/1/06
Signed - Name - Position - Date

Subscribed and sworn to before me this _____ day of _____, 19____.

Julie G. McKenzie
Notary Public
10-19 10-19 2010

My Commission Expires: _____
Attest: STATE OF UT COUNTY OF Salt Lake



Received by Oil, Gas & Mining
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DEC 01 2006
DIV. OF OIL, GAS & MINING
ASSIGNED TRACKING NUMBER

Application for Permit Processing Detailed Schedule of Changes to the MRP

Deficiency Task ID#2421 06-016

Permit Number: ACT/007/013

Mine: Horse Canyon

Permittee: UtahAmerican Energy, Inc.

Provide a detailed listing of all changes to the mining and reclamation plan which will be required as a result of this proposed permit application. Individually list all maps and drawings which are to be added, replaced, or removed from the plan. Include changes of the table of contents, section of the plan, pages, or other information as needed to specifically locate, identify and revise the existing mining and reclamation plan. **Include page, section and drawing numbers as part of the description.**

			DESCRIPTION OF MAP, TEXT, OR MATERIALS TO BE CHANGED
<input type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Page with initials and names at the end of Appendix 7-1.
<input type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Add Bio's to Appendix 1-5 (King, Patterson, Montgomery, Landt, Bond, Jendresen, Stavish)
<input type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Add USFW letters to end of Appendix 3-3
<input type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Chapter 4 TOC and Page 11 and 12
<input type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Chapter 5 text Pages 34, 35, 36, 38, 44, 45 and 49.
<input type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Plate 5-7A-1, Plate 5-7A-2
<input type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Plate 5-2, Plate 5-3
<input type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Plate 6-1
<input type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Chapter 7 Text A1 but figures at end of chapter
<input type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Figure 7-1 End of Chapter 7
<input type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Plate 7-1, Plate 7-1A
<input type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Plate 7-2
<input type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Plate 7-3
<input type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Plate 7-4
<input type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Plate 7-5
<input type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Appendix 7-3(all)
<input type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Appendix 7-8(all)
<input type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Appendix 7-9 (All)
<input type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Appendix 7-10 (All)
<input type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Appendix 7-7 Figure1
<input type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Appendix 7-10 Figure 1
<input type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Appendix 7-1 Page 123

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DIV. OF OIL, GAS & MINING

Technical Deficiencies
Task ID#2421

R645-301-121.200

UEI must update any information in the MRP to reflect possible changes in how BLM will address 42Em2517.

Some discussions did take place within BLM about changing how BLM will address 42Em2517. However, it was decided by BLM not to change how 42Em2517 was addressed.

Provide the USFWS January 11, 2006 Formal Section 7 and February 28, 2006 Informal Section 7 response letters. UEI may obtain a copy from the DOGM PIC room. UEI may want to locate these letters as the first few pages behind the tab page for Appendix 3-3.

The USFWS January 11 and February 28 letters have been added to the end of Appendix 3-3

The mining and reclamation plan must be clear and concise. The fifth paragraph on Page 24 (chapter 7) states there are no perennial reaches in Lila Canyon or Little Park Wash. This statement needs to be corrected because the springs are perennial and flow for a short distance down stream.

Fifth paragraph of page 24 was modified to discuss that continuous flow resulted from spring flow and stream reach had no baseflow.

The second paragraph on Page 26 states "There are no specified water uses for stream flows." This statement is incorrect. There is a BLM stock pond fed by flows in Lila Wash have some potential of flowing to the pond. The statement should be corrected or explained.

First paragraph of page 28, due to pagination changes, was modified to reflect fact that the diversion discussed in Appendix 7-9 was reported to BLM and they were not aware of it and did not approve it. Subsequently the diversion has been breached and the pond no longer receives water from Grassy Wash. Also, the water rights in the area downstream of the site have 0 flow and for many the use is not stipulated.

The first paragraph on Page 30 states " . . . high intensity thunderstorms that flow from ephemeral drainages . . . ". This statement is inaccurate, because the streams are considered intermittent by definition. The statement should be corrected. The Permittee should check to make sure all drainages over a square mile are identified as intermittent.

Statement modified to reflect that flows from ephemeral and intermittent drainages.

Table 7-1a should be cross-referenced to a map.

Cross-reference made more clear.

The cover page for IPA piezometers still states "Water Monitoring Well Data". It should state "Piezometer Data".

Cover page for piezometers in Appendix 7-1 changed as requested.

Information in Appendix 7-10 shows the simulated peak flow using modeling methods. It is unclear if the flows in the simulated hydrographs are cumulative discharge flow rates at the bottom of the drainage, which includes all reaches of the drainage, or represents the lower most drainage. This needs to be explained.

Explanation provided in Appendix 7-10, page 2.

The outline of the drainage basin areas for WS 2.2/WS 6.7 on the Mpa in Appendix 7-10 are not correct and must be corrected, because the areas affect the peak flow calculations.

Drainage boundary corrected and associated calculations corrected and updated in tables 3 and 7-1A and in Attachment 2.

The map in Appendix 7-10 should be labeled and contain a legend.

Title Block was included in the Drawing.

R645-301.120, 542.710, 731.760

UEI must show on Plate 7-1 where the cross section in Figure 7-1 is located in relation to the permit and disturbed areas.

Plate 7-1 modified to include Section location line.

On Figure 7-1 and Plate 7-1, UEI must reconcile the elevation at which the mine workings are projected to encounter the potentiometric surface. (The division fully realizes this elevation is projected or approximated, but depictions on maps and cross sections and related descriptions in the text need to be congruent.)

Plate 7-1 and Figure 7-1 updated to correct the location information.

R645-301-121.200, -731.760

For Figure 7-1, UEI must:

Show locations where the IPA piezometers can be projected into this cross section (that is, if any of them can be projected into this cross section).

Included Piezometer on Figure 7-1

Depict the "upper saturated zone".

Included typical perched zones on Figure 7-1

Specify clearly the vertical exaggerating (1:1) on the cross section.

Included Vertical Exaggeration on Figure 7-1

R645-301-132

UEI must provide information on Tom Suchowski's qualifications in the MRP.

Tom Suchowski's qualifications can be found in Appendix 1-5 dated Feb 11, 2004.

UEI must provide professional credentials of Montgomery Archeological Consultants (for all surveyors that managed or assisted in any previous surveys for the Lila Canyon extension project) and Dr. King. UEI must place these requested documents in the MRP, vol 1 of 7, Appendix 1-5.)

Qualifications for all surveyors that managed or assisted in any previous surveys for the Lila Canyon extension have been added to Appendix 1-5.

UEI must provide names to go with the initials on the ephemeral stream monitoring reports in appendix 7-1. If the qualification of these individuals are not already in the MRP, provide a description of their professional qualifications to generate these reports.

A page listing initials and names of those people on the Ephemeral Stream Monitoring Reports has been added to the end of Appendix 7-1.

Vegetation

R645-301-321.100

UEI must provide the most current community characterization for the spring that is within the permit area and in the side channel east of Little Park Wash.

Denise Drago to get the Field Report for Jerry Ann in August.

Cultural

R645-301-411.140

UEI must update Chapter 4 narrative (MRP Volume 3 of 7) to reflect the new 2006 and supplemental inventories, Programmatic Agreement (include that 42Em2255/56 will be managed under the stipulation of the PA), and MOA (include that BLM will mitigate 42Em2517 under the commitments of the MOA).

Text has been added updating Chapter 4 narrative reflecting the new cultural inventory and that sites 42Em2255/56 will be managed under the stipulation of the PA. In addition text has been added to state that site 42Em2517 will fall under the commitments of the MOA.

UEI should edit many of the paragraphs on pages 11 and 12 (None of this information should be considered confidential.)

Text in pages 11 and 12 has been revised to reflect the new inventory.

UEI must update "Summary of Notable Results as of 2005" (MRP Volume Confidential Binder, Appendix 4-1) to reflect the June 2006 and supplemental inventories. (All of this information should be considered confidential.)

Text has been revised to reflect the results of the new inventory.

UEI must update Plate 4-3 (MRP volume confidential binder) to reflect the June 2006 and supplemental inventories. On Plate 4-3I include a brief not under 42Em2255 that it could not be relocated in 2006. (This information should be considered confidential.) Provide an explanation in chapter 4 that explains that

Montgomery and Blain Miller attempted to relocate this site in 2006. Explain that this site is still considered eligible, and if mining operations change to include surface facilities near this site (and 42Em2256), then the participating agencies of the PA will reconvene. (All of this information should not be considered confidential.) Note, that these requests were briefly mentioned in a letter sent to you in early September 2006. The requests here provided information that is more detailed.

Chapter 4 and Plate 4-3 have been revised.

UEI must update Appendix 4-1 (MRP Volume Confidential Binder) by submitting the 2006 compilation report. (All of this information should be considered confidential.)

The new cultural inventory has been added to the end of Appendix 4-1.

Transportation Facilities Maps

R645-301-521.170

UEI must provide the division with a map/plate showing the original (2001) proposed road realignment profile for the Lila Canyon road #126 from state Highway 191/6 to the proposed mine site disturbed area boundary. This information is required to reaffirm the Divisions original public roads finding.

A map showing the original ROW as well as the BLM ROW is being submitted under a separate cover letter.

Subsidence

R645-301-525

UEI must describe the potential impacts from subsidence to the state appropriated water resources downstream of Lila Canyon: the Right Fork of Lila Wash; and Stinky Wash (Specifically, water rights 91-2617 through 91-2621, the BLM cattle/stock ponds located west of the escarpment). This information should also be referenced in the PHC.

Discussion modified to address water rights and streams in section 724.200 of MRP and Appendix 7-3 PHC

UEI must describe the potential impacts of subsidence from mining on Spring L-9-G. This should also be referenced in the PHC.

Discussion modified to address Spring L-9-G in section 724.100 of MRP and Appendix 7-3 PHC

Hydrologic

R645-301-722.100

UEI must clarify how springs associated with the perched groundwater zone(s), near the Colton-Flatstaff/North Horn Formation contact are recharged. An

explanation must be included to explain if the springs flow from a single large perched aquifer system or is there a perched aquifer for each spring. Describe why UEI has not shown or portrayed on a map or cross-sections of the head (water level) or seasonal variation in the aquifer.

Section 724.100 of the MRP has been expanded to further address these concerns.

UEI must make it clear if the springs on and adjacent to the permit area are currently being used, what those uses are, and the conditions of the facilities they supply.

Water use is described in Table 7-2 for all springs. Section 724.100 has been expanded to further describe the condition and use of the springs.

UEI must explain the rationale for calculating a peak discharge of 37 cfs (Appendix 7-9) for the Right Fork during a 2yr event, and then in Table 7-1A and Appendix 7-10 showing a calculated flow of 0.0 cfs for a 2yr-6hr peak flow event and a flow of .43 cfs for the 2yr-24hr event.

A discussion of the differences in the calculation method for the two peak flow methods is presented in Appendix 7-10

During a recent archeological study, it was determined that spring L-9-G was inaccurately plotted on Plate 7-1. It is located within the boundaries of the projected subsidence zone. UEI must provide assurance that the other monitoring springs are plotted accurately and must be identified on the hydrologic map (Plate 7-1). This was identified as a deficiency in a letter dated August 31, 2006.

This problem was created by the fact that there are two water rights with the same name and these two separate sites resulted in confusion of the correct location and an assumption of the location was incorrectly made. This has now been corrected and text in Section 731.211 of the MRP has been modified.

Efforts have been made to GPS all of the sites, but due to locations in steep sided, deep canyons, it is not always possible to "see" the required number of satellites to accurately determine positions. All other sites are correct to the best of UEI's knowledge and have been certified by PE stamp.

The Division is not convinced the Permittee has shown, in the MRP, that no flow data collected for intermittent streams represents a complete picture of the seasonal variation in flow. The data collected on the streams is 0 flow. It is a fact that the streams flow some time during the year. Why hasn't water quality and quantity data been collected during those times? The Permittee should submit reasonable justification how the data reflects the seasonal variation, or provide baseline water quality and quantity data representing the seasonal flow of the streams on the adjacent to the permit area.

The text of the MRP was modified in several places to address the results of the flow modeling, stream characterization, snowmelt sample in Lila Canyon March 05, and seasonal variation of ephemeral drainages.

R645-301-724.100

UEI must clarify the connection of ground water in the Lila canyon Extension permit area to:

Horse Canyon Mine water quality data

Adjusted text in Section 724.100 to expand the discussion.

S-32 data

Adjusted text in Section 724.100 to expand the discussion.

Any other pertinent ground-water quality data that is available.

Adjusted text in Section 724.100 to expand the discussion.

R645-301-726

UEI must tie the peak flow simulation in Appendix 7-10, to the factual no-flow surface water baseline monitoring results.

The text of Section 726 was expanded to include a cross-reference to the modeling discussion in Section 724.200 of the MRP.

R645-301-728

Complete information must be included in the PHC. Although hydrologic information is mentioned elsewhere in the mining and reclamation plan, the PHC must be a complete document and include the following information:

The consequence to stream flow on the outside the permit area, state appropriated water sources, riparian areas and wildlife usage. The PHC should also contain facts about the function of the streams and groundwater systems (aquifers and saturates zone).

Discussion and cross-reference has been added to the PHC regarding downstream impacts to state appropriated waters, riparian areas, and wildlife useage.

The consequences of subsidence to groundwater systems and their recharge sources in and outside the permit area.

Discussion and cross-reference has been added to the PHC regarding subsidence impacts and recharge sources

A description of the function, intended use and potential for developing and using groundwater zones. The PHC must also describe the consequences mining will have on the function and quality of the groundwater regimes, and how they affect the hydrologic balance of Range Creek.

Discussion and cross-reference has been added to the PHC regarding function, use and development potential of the groundwater zones

The Potential subsidence related impacts to springs within the expected area of subsidence and down gradient of groundwater resources.

Impacts to springs as a result of mining under the recharge areas.
Consequences to springs in Range Creek. Consequences to springs
along the Book Cliffs escarpment.

Discussion and cross-reference has been added to the PHC regarding impacts to
springs

Clearly identify all subsidence impacts to springs, streams groundwater
systems, stock ponds, sedimentation ponds, and reservoirs as a result of
subsidence and state the mitigation measures to minimize material
damage.

Discussion and cross-reference has been added to the PHC regarding
subsidence impacts

R645-301-731

UEI must establish an operational water monitoring site on Little Park Wash,
outside the permit area. (Baseline water monitoring information is not needed
form this site, because the flow is nearly the same as Site L-13-S. There are no
contributing (spring) sources other than overland flow. Essentially, the data
already recorded for site L-13-S are representative of the new site).

Adjusted text in the MRP and Appendix 7-8

R645-301-731.111, 731.121,

UEI must clarify how the analyses of data from S-24 and S-25 provide
information on the acid and toxic-forming properties of the rock that will be
removed during construction fo the access tunnels.

Adjusted text in Section 731-111 and 731-121 of the MRP to address these comments.

R645-301-731-600

UEI must correct the statement in Section 731.600 Buffer Zones:
"All streams within the permit are either ephemeral or intermittent by rule with
ephemeral flow. As such, buffer zones are not required; however, to provide
additional protection, the Operator will install stream buffer zone signs in
locations shown Plate 5-2 and maintain the buffer zones during the operation."

Contrary to the statement found under 731.600, Plate 502 does not clearly show
the buffer zone. UEI must clearly show the Lila Wash buffer zone on Plate 5-2
and 7-2 and any other appropriate map.

Plate 5-2 and 7-2 have been revised. Section 731.600 text has been revised.

Cross Sections 2+00, 4+00 and 6+00 show that drainage form the road and part
of the parking area will report to Lila Wash. Sediment control between Lila
Wash and the road and parking lot need to be described.

Cross Sections 2+00, 4+00 and 6+00 on Plates 5-7A-1 and 5-7A-2 have been revised
showing culvert DD-10

UEI needs to show using the cross sections on the Plate 5-7 series, that no operation is planned for the channels or flood plain of Lila Wash,

Cross Sections 2+00, 4+00 and 6+00 on Plates 5-7A-1 and 5-7A-2 have been revised showing that no operation is planned for the channels or flood plan of Lila Wash.

UEI need to relate water flows predicted in Appendix 7-10 to stream channels and flood plains depicted on cross sections on Plate 5-7 series.

Flow water levels for the 100-year event have been added to the cross-sections on Plate 5-7 to show the maximum inundation areas