

**Mitigation Action Plan**  
**Phase I**  
**Lovell Yellowtail and Basin-Lovell Transmission Line Rebuild Project**  
**Big Horn and Carbon Counties, Montana and Big Horn County, Wyoming**

MITIGATION ACTION IDENTIFIER	RESPONSIBLE PARTY FOR IMPLEMENTING	MITIGATION ACTION	LOCATION IF AVAILABLE/ STRUCTURE NUMBERS	PARTY RESPONSIBLE FOR MONITORING AND ENSURING COMPLIANCE
1	Construction Contractor  Western Maintenance	Standard Construction Project Practices will be implemented through Phases I of Project construction and operation (Table 2.1-3 in the Final EA.)		Western Construction (during Construction Phase)  Western Maintenance (During maintenance of facility)
<b>NPS – WESTERN INTERAGENCY AGREEMENT FOR BIGHORN CANYON NRA</b>				
2	NPS, Western	The Interagency Agreement between United States Department Of Energy, Western Area Power Administration and United States Department Of The Interior, Bighorn Canyon National Recreation Area will be implemented.		NPS, Western
<b>STORM WATER PERMIT</b>				
3	Construction Contractor	NPDES Construction Permit and SWPPP – Permit and Storm Water Pollution Prevention Plan prepared per Montana Department of Environmental Quality requirements.	Montana <a href="http://deq.mt.gov/wqinfo/mpdes/stormwaterconstruction.mcp">http://deq.mt.gov/wqinfo/mpdes/stormwaterconstruction.mcp</a>	Western Construction (during Construction Phase)
4	Construction Contractor	NPDES Construction Permit and SWPPP – Permit and Storm Water Pollution Prevention Plan prepared per Wyoming Department of Environmental Quality requirements	Wyoming <a href="http://deq.state.wy.us/wqd/WYPDES_Permitting/WYPDES_Storm_Water/stormwater.asp">http://deq.state.wy.us/wqd/WYPDES_Permitting/WYPDES_Storm_Water/stormwater.asp</a>	Western Construction (during Construction Phase)
<b>SEED MIXTURES FOR REVEGETATION <sup>1</sup></b>				
5	Construction Contractor	Seed Mixture 1CM (Appendix F7)	Structure Numbers: 19-1 to 20-3, 20-6 to 22-3, 24-1, 24-4 to 24-6, 25-2 to 25-6	Western Construction (during Construction Phase)
6	Construction Contractor	Seed Mixture 2CM (Appendix F8)	Structure Numbers: 24-1 to 24-4, 24-7 to 25-2, 25-7 to 25-8.	Western Construction (during Construction Phase)
7	Construction Contractor	Seed Mixture 3CM (Appendix F8)	Structure Numbers: 12-7 to 19-1, 20-4 to 20-6, 24-6 to 25-1	Western Construction (during Construction Phase)
8	Construction Contractor	Seed Mixture 1BW (Appendix F9)	Structure Numbers: 12-3 to 12-5; 13-6	Western Construction (during Construction Phase)

MITIGATION ACTION IDENTIFIER	RESPONSIBLE PARTY FOR IMPLEMENTING	MITIGATION ACTION	LOCATION IF AVAILABLE/ STRUCTURE NUMBERS	PARTY RESPONSIBLE FOR MONITORING AND ENSURING COMPLIANCE
9	Construction Contractor	Seed Mixture 2BW (Appendix F10)	Structure numbers: 10-7 to 11-6	Western Construction (during Construction Phase)
10	Construction Contractor	Seed Mixture 3BW (Appendix F11)	Structure Numbers: 11-6 to 11-8; 12-4 to 13-2; 13-4 to 14-2; 14-5 to 14-7	Western Construction (during Construction Phase)
11	Construction Contractor	Seed Mixture 4BW (Appendix F11)	Vegetated wetlands	Western Construction (during Construction Phase)
<b>NATIONWIDE 12 PERMIT</b>				
12	Western Construction Contractor	The Nationwide 12 Permit from the U.S. Army Corps of Engineers may apply to Phase I to undertake activities in regulated areas. Construction must comply with the requirements of the Permit. If the permit conditions cannot be complied with an individual permit would likely be required.	Army Corps of Engineers discharge into Waters of the U.S. – See Map Table 1 (attached)	Western Construction (during Construction Phase)
13	Western	Section 401 Certification for Nationwide 12 Permit Wyoming—This may apply because there may be a need to construct within regulated areas (WUS). This certification must be reviewed to see if it is applicable.	In Wyoming where Nationwide Permit 12 applies  <a href="http://www.nwo.usace.army.mil/html/od-rwy/wdeq32007.pdf">http://www.nwo.usace.army.mil/html/od-rwy/wdeq32007.pdf</a>	Western Construction (during Construction Phase)
14	Western	Section 401 Certification for Nationwide 12 Permit Montana—This may apply because there may be a need to construct within regulated areas (WUS). This certification must be reviewed to see if it is applicable.	In Montana where Nationwide Permit 12 applies <a href="http://deq.mt.gov/permits.mcp">http://deq.mt.gov/permits.mcp</a> Montana cert applies if less than 12 streams are crossed <b>or</b> the work is done when there is no water in the stream. Otherwise the project is not certified and a separate cert must be obtained from MDEQ.	Western Construction (during Construction Phase)
<b>TURBIDITY PERMIT</b>				
15	Construction Contractor	Obtain permits for short-term activity (i.e. installation of culverts) that may result in state surface water quality standard violations. 318 Authorization (Short-term water quality standard for turbidity) Montana	Montana site link broken, e-mail sent to MDEQ.	Western Construction (during Construction Phase)
16	Construction Contractor	Obtain permits for short-term activity (i.e. installation of culverts) that may result in state surface water quality standards violations. Short Term turbidity waiver Wyoming	Wyoming required for work in “live” waters. Not required if waterway is dry during the time of the construction. See following link for application for temporary turbidity increase; <a href="http://deq.state.wy.us/wqd/watershed/Downloads/401/9-0855-TURBIDITY%20WAIVER%20APP.pdf">http://deq.state.wy.us/wqd/watershed/Downloads/401/9-0855-TURBIDITY%20WAIVER%20APP.pdf</a>  Application instructions can be found at this link: <a href="http://deq.state.wy.us/wqd/watershed/Downloads/401/2-1907-doc.pdf">http://deq.state.wy.us/wqd/watershed/Downloads/401/2-1907-doc.pdf</a>	Western Construction (during Construction Phase)

<b>MITIGATION ACTION IDENTIFIER</b>	<b>RESPONSIBLE PARTY FOR IMPLEMENTING</b>	<b>MITIGATION ACTION</b>	<b>LOCATION IF AVAILABLE/ STRUCTURE NUMBERS</b>	<b>PARTY RESPONSIBLE FOR MONITORING AND ENSURING COMPLIANCE</b>
		<b>EASEMENTS AND ROAD CROSSING PERMITS</b>		
17	Western	Easement grants through BLM land and road crossing permits will be obtained from appropriate agencies.	Easement Grants for BLM Lands - Structures 0-6 to 2.5, 5-3 to 8.6, 9.7 to 11.1, 12.3 to 14.7 on LV-YT.	Western Construction (during Construction Phase)
		<b>NOXIOUS WEEDS</b>		
18	Construction Contractor	Noxious weed inventory and control on NPS lands per Western's agreement with NPS— Bighorn Canyon National Recreation Area	National Park Service land in Bighorn Canyon National Recreation Area.	Western, NPS
19	Construction Contractor	Post Construction Noxious weed control on lands other than NPS		Western, Construction Contractor
		<b>WILDLIFE</b>		
20	Construction Contractor	Raptor nests would be inventoried prior to construction and steps would be taken to prevent disruption of occupied nests during breeding season.	No raptors found on Phase 1 during initial field survey for EA.	Western
21	Western, Construction Contractor	The construction activities shall not disturb nests of birds that may be encountered. If this is not possible, the construction contractor or Western's construction inspector must notify the Regional Office Environmental Manager so the appropriate coordination with wildlife agencies occurs.	Locations of encountered active bird nests along construction corridor.	Western Construction (during Construction Phase)
		<b>CULTURAL</b>		

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22	Western,, Construction Contractor	<p>For compliance with Section 106 of the National Historic Preservation Act, Western will continue to consult with and coordinate with the NPS Bighorn Canyon National Recreation Area, the Crow Nation, the Bureau of Land Management Billings Field Office, the Montana State Historic Preservation Office (SHPO), the Wyoming SHPO, the Bureau of Reclamation Montana Area Office, and the Montana Department of Environmental Quality. Western will continue consultation with the Northern Cheyenne, the Eastern Shoshone, and the Northern Arapaho. For sites potentially affected by each phase of construction, Western will prepare site treatment plans, and memorandums of agreement in coordination with the appropriate land managing agency, the Crow Nation and the Montana and Wyoming SHPOs. The coordination and consultation will continue through the end of each phase of construction. Commitments identified in the site treatment plans and memorandums of agreement will mitigate effects to historic properties within the area of potential effect.</p> <p>Impacts to NRHP-eligible cultural sites caused by construction shall be avoided. Ground disturbing activities would occur outside of the boundaries of Historic Properties. If project-related ground disturbance is planned within 100 feet of a site, an archaeological monitor would be present to ensure that the site is not impacted during construction and that unexpected discoveries are identified immediately and are properly protected, documented, and reported. Western will provide a map or will mark avoidance areas that must be avoided by construction activities.</p>	A map of avoidance areas will be provided as to the appropriate construction inspectors monitors as consultation and coordination is completed.	Western Engineering Construction , NPS per agreement with Western.
		<b>VISUAL</b>		
23	Western, Construction Contractor	To minimize visual impacts conductors will be non-specular for Phase I of the project		Western Engineering Construction.

<sup>1</sup> Structure numbers refer to existing west line of LV-YT No.1 transmission line.

**Mitigation Action Plan**  
**Phase II**  
**Lovell Yellowtail and Basin-Lovell Transmission Line Rebuild Project**  
**Big Horn and Carbon Counties, Montana and Big Horn County, Wyoming**

MITIGATION ACTION IDENTIFIER	RESPONSIBLE PARTY FOR IMPLEMENTING	MITIGATION ACTION	LOCATION IF AVAILABLE/ STRUCTURE NUMBERS	PARTY RESPONSIBLE FOR MONITORING AND ENSURING COMPLIANCE
1	Construction Contractor  Western Maintenance	Standard Construction Project Practices will be implemented through Phases I of Project construction and operation (Table 2.1-3 in the Final EA.)		Western Construction (during Construction Phase)  Western Maintenance (During maintenance of facility)
<b>STORM WATER PERMIT</b>				
2	Construction Contractor	NPDES Construction Permit and SWPPP – Permit and Storm Water Pollution Prevention Plan prepared per Montana Department of Environmental Quality requirements.	Montana <a href="http://deq.mt.gov/wqinfo/mpdes/stormwaterconstruction.mcp">http://deq.mt.gov/wqinfo/mpdes/stormwaterconstruction.mcp</a> x	Western Construction (during Construction Phase)
3	Construction Contractor	NPDES Construction Permit and SWPPP – Permit and Storm Water Pollution Prevention Plan prepared per Wyoming Department of Environmental Quality requirements	Wyoming <a href="http://deq.state.wy.us/wqd/WYPDES_Permitting/WYPDES_Storm_Water/stormwater.asp">http://deq.state.wy.us/wqd/WYPDES_Permitting/WYPDES_Storm_Water/stormwater.asp</a>	Western Construction (during Construction Phase)
<b>SEED MIXTURES FOR REVEGETATION <sup>1</sup></b>				
4	Construction Contractor	Seed Mixture 1BM(Appendix F5)	Structure Numbers: 30-7 to 34-1, 34-7 to 34-9, 36-3 to 41-3, 41-7 to 46-3	Western Construction (during Construction Phase)
5	Construction Contractor	Seed Mixture 2BM (Appendix F6)	Structure Numbers: 34-2 to 34-7, 35-1 to 36-2, 41-4 to 41-6	Western Construction (during Construction Phase)
6	Construction Contractor	Seed Mixture 1CM (Appendix F7)	Structure Numbers: 26-6 to 27-1, 27-8 to 28-4, 28-8 to 30-4.	Western Construction (during Construction Phase)
7	Construction Contractor	Seed Mixture 2CM (Appendix F8)	Structure Numbers: 27-1 to 27-7, 30-5 to 30-7.	Western Construction (during Construction Phase)
8	Construction Contractor	Seed Mixture 1BW (Appendix F9)	Structure Numbers: 1-2 to 1-3, 1-6, 2-3 to 2-4, 5-3 to 6-3, 9-5 to 9-6, 10-3 to 10-4, 46-5 to 46-6, 50-2 to 50-5, 51- to 52-8, 55-7 to 56-6, 61-6 to 61-7, 62-7 to 64-1, 71-4 to 72-5, 73-4 to 74-2.	Western Construction (during Construction Phase)
9	Construction Contractor	Seed Mixture 2BW (Appendix F10)	Structure Numbers: 0-2, 1-3 to 1-4, 6-3 to 8-6, 8-7 to 9-5, 9-7 to 10-3, 10-7 to 11-6, 45-5 to 45-6, 50-5 to 51-5, 54-8 to 55-7, 57-4 to 57-6, 58-4 to 61-6, 64-7 to 67-1, 70-4 to 70-7, 72-6 to 73-3, 75-6 to 76-7, 80-4 to 83-7.	Western Construction (during Construction Phase)
10	Construction	Seed Mixture 3BW (Appendix F11)	Structure Numbers: 27-1 to 27-7, 30-5 to 30-7, 45-6 to 46-5, 46-6 to 50-2, 52-8 to 54-7, 57-7 to 58-3,	Western Construction (during

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	Contractor		64-2 to 64-6, 69-7 to 70-4, 70-7 to 71-6, 71-9 to 80-3, 83-7 to 84-3.	Construction Phase)
11	Construction Contractor	Seed Mixture 4BW (Appendix F11)	Any vegetated wetlands	Western Construction (during Construction Phase)
		<b>NATIONWIDE 12 PERMIT</b>		
12	Western Construction Contractor	The Nationwide 12 Permit from the U.S. Army Corps of Engineers may apply to Phase II to undertake activities in regulated areas. Construction must comply with the requirements of the Permit. If the permit conditions cannot be complied with an individual permit would likely be required.	Army Corps of Engineers discharge into Waters of the U.S. Refer to Map Table 2 (attached)	Western Construction (during Construction Phase)
13	Western	Section 401 Certification for Nationwide 12 Permit Wyoming—This may apply because there may be a need to construct within regulated areas. This certification must be reviewed to see if it is applicable.	In Wyoming where Nationwide Permit 12 applies  <a href="http://www.nwo.usace.army.mil/html/od-rwy/wdeq32007.pdf">http://www.nwo.usace.army.mil/html/od-rwy/wdeq32007.pdf</a>	Western Construction (during Construction Phase)
14	Western	Section 401 Certification for Nationwide 12 Permit Montana-This may apply because there may be a need to construct within regulated areas. This certification must be reviewed to see if it is applicable.	In Montana where Nationwide Permit 12 applies <a href="http://deq.mt.gov/permits.mcp">http://deq.mt.gov/permits.mcp</a> Montana cert applies if less than 12 streams are crossed <b>or</b> the work is done when there is no water in the stream. Otherwise the project is not certified and a separate cert must be obtained from MDEQ.	Western Construction (during Construction Phase)
		<b>TURBIDITY PERMIT</b>		
15	Construction Contractor	Obtain permits for short-term activity (i.e. installation of culverts) that may result in state surface water quality standard violations. 318 Authorization (Short-term water quality standard for turbidity) Montana	Montana site link broken, e-mail sent to MDEQ.	Western Construction (during Construction Phase)
16	Construction Contactor	Obtain permits for short-term activity (i.e. installation of culverts) that may result in state surface water quality standards violations. Short Term turbidity waiver Wyoming	Wyoming required for work in “live” waters. Not required if waterway is dry during the time of the construction. See following link for application for temporary turbidity increase; <a href="http://deq.state.wy.us/wqd/watershed/Downloads/401/9-0855-TURBIDITY%20WAIVER%20APP.pdf">http://deq.state.wy.us/wqd/watershed/Downloads/401/9-0855-TURBIDITY%20WAIVER%20APP.pdf</a>  Application instructions can be found at this link: <a href="http://deq.state.wy.us/wqd/watershed/Downloads/401/2-1907-doc.pdf">http://deq.state.wy.us/wqd/watershed/Downloads/401/2-1907-doc.pdf</a>	Western Construction (during Construction Phase)
		<b>EASEMENTS AND ROAD CROSSING PERMITS</b>		
17	Western	Easement grants through BLM land and road crossing permits will be obtained from appropriate agencies.	Easement Grants for BLM lands- Structures 0-6 to 2.5, 5-3 to 8.6, 9.7 to 11.1, 12.3 to 14.7 on LV-YT.	Western Construction (during Construction Phase)

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<b>NOXIOUS WEEDS</b>				
18	Construction Contractor	Noxious weed inventory and control on NPS lands per Western’s agreement with NPS— Bighorn Canyon National Recreation Area	National Park Service land in Bighorn Canyon National Recreation Area	Western, NPS
19	Construction Contractor	Post Construction Noxious weed control on lands other than NPS		Western, Construction Contractor
<b>WILDLIFE</b>				
20	Construction Contractor	Raptor nests would be inventoried prior to construction and steps would be taken to prevent disruption of occupied nests during breeding season. If necessary burrowing owls studies would be completed to ensure burrowing owls would not be impacted during construction.	Raptor Nests - All suitable nesting habitats within the ROW.  Active Prairie Dog Towns – BA-LV Structure Numbers: 72-4 to 72-6, 80-3 to 80-6	Western
21	Western, Construction Contractor	The construction activities shall not disturb nests of birds that may be encountered. If this is not possible, the construction contractor or Western’s construction inspector must notify the Regional Office Environmental Manager so the appropriate coordination with wildlife agencies occurs.	Locations of encountered active bird nests along construction corridor.	Western Construction (during Construction Phase)
22	Construction Contractor	To minimize the risk of increased energy expenditures by pronghorn Western, or its contractor, would not construct in pronghorn crucial winter range from mid-December through February and in fawning areas from mid-May through mid-June.	Approximately between structure numbers 47-5 to 53-6 BA-LV line.	Western Construction (during Construction Phase)
<b>CULTURAL</b>				
23	Western, Construction Contractor	For compliance with Section 106 of the National Historic Preservation Act, Western will continue to consult with and coordinate with the NPS Bighorn Canyon National Recreation Area, the Crow Nation, the Bureau of Land Management Billings Field Office, the Montana State Historic Preservation Office (SHPO), the Wyoming SHPO, the Bureau of Reclamation Montana Area Office, and the Montana Department of Environmental Quality. Western will	A map of avoidance areas will be provided as to the appropriate construction inspectors monitors as consultation and coordination is completed.	Western Engineering Construction

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		<p>continue consultation with the Northern Cheyenne, the Eastern Shoshone, and the Northern Arapaho. For sites potentially affected by each phase of construction, Western will prepare site treatment plans, and memorandums of agreement in coordination with the appropriate land managing agency, the Crow Nation and the Montana and Wyoming SHPOs. The coordination and consultation will continue through the end of each phase of construction. Commitments identified in the site treatment plans and memorandums of agreement will mitigate effects to historic properties within the area of potential effect.</p> <p>Impacts to NRHP-eligible cultural sites caused by construction shall be avoided. Ground disturbing activities would occur outside of the boundaries of Historic Properties. If project-related ground disturbance is planned within 100 feet of a site, an archaeological monitor would be present to ensure that the site is not impacted during construction and that unexpected discoveries are identified immediately and are properly protected, documented, and reported. Western will provide a map or will mark avoidance areas that must be avoided by construction activities.</p>		
		<b>VISUAL</b>		
24	Western, Construction Contractor	To minimize visual impacts conductors will be non-specular for Phase I of the project		Western Engineering Construction.
		<b>FLOODPLAINS AND WETLANDS</b>		
25	Construction Contractor	"Special Hazard Flood Zones" Floodplain Assessment, Wetland Assessment, and Statement of Findings were completed and delivered to Big Horn County May 1, 2011 to meet requirements of Big Horn County Flood Damage Prevention Regulation.	See attached MAP Table 2.	Western Construction (during Construction Phase)
		<b>PALEONTOLOGY</b>		

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26	Construction Contractor	Western would monitor structure locations on Wildwood Formation once locations are determined for potential presence of fossils.	Structures 45-5 to 51-8 except 45-5,47-4,50-5,50-6	Western Construction (during Construction Phase)

<sup>1</sup> Structure numbers refer to existing west line of LV-YT No.1 transmission line.

MAP TABLE 1: Access Road Concerns for Phase I

<b>Drainage Name</b>	<b>Phase of Project</b>	<b>Structure Nos.</b>	<b>Drainage Type</b>	<b>Wetlands</b>	<b>WUS</b>	<b>Issue</b>	<b>Action Required</b>
<b>Lovell - Yellowtail</b>							
<b>Unnamed tributary to Crooked Creek</b>	Phase I	11-4 to 11-5	ephemeral	no	no	Drainage cut across road	4 ft. culvert required with 66 sq. ft. fill.
<b>Unnamed tributary to Crooked Creek</b>	Phase I	11-7 to 11-8	ephemeral	no	yes	Drainage cut across road	2 ft. culvert required with 30 sq. ft. fill in WUS.
<b>Road Borrow Ditch</b>	Phase I	12-7 to 12-8	ephemeral	no	no	Drainage cut across road	3 ft. culvert required with 90 sq. ft. fill.
<b>Unnamed Tributary to Crooked Creek</b>	Phase I	14-4 to 14-5	ephemeral	no	no	Drainage cut across road	4 ft. culvert required with 66 sq. ft. fill.
<b>Layout Creek</b>	Phase I	20-3 to 20-4	perennial	no	yes	Drainage cut across road	Rock fill crossing with 50 sq. ft. rip rap.

MAP TABLE 2: Access Road Concerns for Phase II

<b>Drainage Name</b>	<b>Phase of Project</b>	<b>Structure Nos.</b>	<b>Drainage Type</b>	<b>Wetlands</b>	<b>WUS</b>	<b>Issue</b>	<b>Action Required</b>
<b>Basin-Lovell</b>							
<b>Tributary to South Fork Elk Creek</b>	Phase II	46-1 to 46-2	ephemeral	no	yes	drainage cut across road	3 ft. culvert required with 60 sq. ft. of fill in WUS.
<b>Elk Creek</b>	Phase II	47-4 to 47-5	ephemeral	no	yes	drainage cut across access road	low water crossing requiring lay back of steep banks above average high water line and 600 sq. ft. of rock and gravel fill in WUS.
<b>Unnamed Ditch</b>	Phase II	56-7 to 56-8	irrigation ditch connected by wetlands to Greybull River	yes	yes	ditch cut and wetlands across road	low water crossing requiring 400 sq. ft. of rock and gravel fill in WUS and wetlands.
<b>NA – (above the average high water line of the Greybull River)</b>	Phase II	56-8 to 57-1	wetland connection between ditch and Greybull River	yes	yes	wetlands between ditch and river; soft, unstable ground	unstable/soft surface requiring placement of Geomat and ~2800 sq. ft. of road base.
<b>Tributary to Bighorn River</b>	Phase II	74-3 to 74-4	ephemeral	no	yes	drainage cut across road	4.5 ft. culvert with wing on west side required with 150 sq. ft. of fill. Rock crossing may be used instead, requiring 150 sq. ft. rip rap.
<b>Tributary to Bighorn River</b>	Phase II	75-4 to 75-5	ephemeral	no	yes	drainage cut across road	low water rock crossing requiring 200 sq. ft. of rip rap
<b>Tributary to Bighorn River</b>	Phase II	76-2 to 76-3	ephemeral	no	yes	drainage cut across road	3 ft. culvert required with 80 sq. ft. of fill in WUS.

<b>Drainage Name</b>	<b>Phase of Project</b>	<b>Structure Nos.</b>	<b>Drainage Type</b>	<b>Wetlands</b>	<b>WUS</b>	<b>Issue</b>	<b>Action Required</b>
<b>Tributary to Sand Draw</b>	Phase II	78-7 to 78-8	ephemeral	no	yes	drainage headcutting into road	2 ft. culvert required with 45 sq. ft. of fill in WUS.
<b>Tributary to Sand Draw</b>	Phase II	81-5 to 81-6	ephemeral	no	yes	drainage cut across road	Low water rock crossing requiring 200 sq. ft. rip rap.
<b>Lovell - Yellowtail</b>							
<b>Tributary to Sand Draw</b>	Phase II	1-4 to 1-5	ephemeral	no	no	Drainage cut across road	2 ft. culvert required with 50 sq. ft. fill.
<b>Sunlight Canal</b>	Phase II	3-2 to 3-3	canal	yes	yes?	access road crosses canal	No culvert will be installed. No access over canal.
<b>Tributary to Deadman Creek</b>	Phase II	27-8 to 28-1	ephemeral	no	no	Drainage cut across road	2 ft. culvert required with 40 sq. ft. fill.
<b>Rotten Creek</b>	Phase II	NA	ephemeral	no	yes	Existing culvert needs stabilization	Additional fill needed to stabilize culvert (50 sq. ft. fill).
<b>Tributary to Grapevine Creek</b>	Phase II	42-8 to 43-1	perennial	yes	yes?	Unimproved wetland crossing	Rock fill wet crossing to be constructed (200 sq. ft. rip rap)